



2018

# ZARGES

Access. Packaging & transportation. Special construction.

# **ZARGES** –

# the highest quality for the highest demands.

The ZARGES brand stands for uncompromising quality, continuous innovation power and comprehensive services. In access, logistics or special solutions - ZARGES products exceed the highest safety requirements, are dependable and outlast any competition. This is rooted in our core purpose for over 85 years: continuously optimize our products, services and software as well as expanding our complete offering. Whether in industry, medical, air, rail or handcraft; we provide you with the ideal solution for every challenge you face.

On top of that, we offer a wide array of accessories. Fast deliveries and a hassle free spare part supply make sure you do not lose any precious time.

As an expert for safety, longevity and ergonomics we are happy to present our product portfolio and system solutions with this catalogue.

Our best products however, cannot be found in this catalogue: the renowned strength of ZARGES is on best display when we can find tailor made solutions for the individual problems our customers face; that is when the best ideas are created together.

If you should have any questions, require an individual solution or need personal support. Our service team is awaiting your question: E-Mail: zarges@zarges.de www.zarges.com

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General Terms and Conditions \_\_\_









































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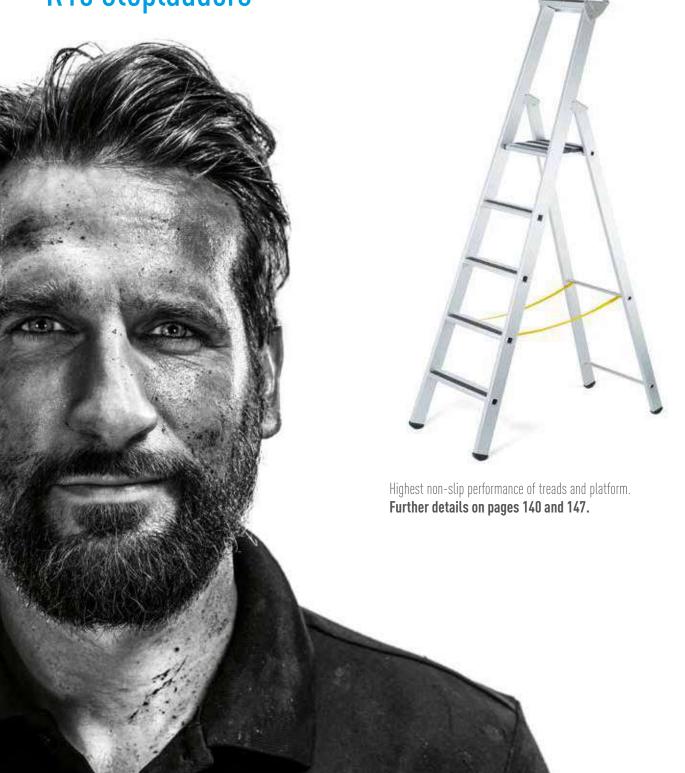
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# **ZARGES** – Innovations

As an innovation leader, we are constantly improving our systems and products and extending our range. Our top priority – to provide the optimal solution for any task because good ideas always come from closely working together with our customers.

Specialist users can use our current catalogue to find products for the widest range of uses. Enjoy discovering!

Made for tough conditions: R13 stepladders



# K 411 ZARGES Case: For the perfect appearance: Elegant and robust, easy handling and very versatile. More from page 68.

# Maintenance platforms and gangways:

Fixed and mobile maintenance platforms and gangways for optimal and secure working at height – to exactly match your requirements **More on page 204.** 

# Z 600 und Z 500 S-PLUS COMPACT folding scaffold units:

Safer, faster, retrofittable – now also for the folding scaffold units Z 600 and Z 500.

Further details on pages 246/247 (Z 600) and page 250 (Z 500).





# PACKAGING & TRANSPORTATION



Optimum packaging, transportation and storage – this wide range includes just the right ZARGES case for any requirements. With our wide choice of interior fittings and mobility solutions and a comprehensive range of accessories, you can make a ZARGES case your ZARGES case – a tailor-made and indestructible companion.

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# **Innovation and quality from the market leader –** details that make the difference.

For many decades, the name of ZARGES has stood for top quality. The ZARGES quality management system was examined within the framework of a certification audit and complies with the latest standard DIN EN ISO 9001:2008.

We work to this and other standards, regulations and laws. This is reflected on one hand in the reliability and durability of our products, which meet the high expectations placed on them by our customers and partners.

On the other hand, this ensures that we improve workflows within our company by implementing our production and quality processes in such a way that problems are quickly detected and kept to a minimum.

We see continuous further development as our obligation towards our customers and partners.

We supply products and services which meet your expectations – ZARGES quality.

# Details that make the difference:



High-strength welded joints give ZARGES cases their unique stability.



Phosphated and powder-coated, stable torsional tube made of steel.



Foamed lid seal, protected in the lid, safe from damage, reliable protection against dust and moisture for a long case life.



Integrated bumpers produced in a single section, lightweight and easily replaceable.



Tightly welded, watervapour-proof case with unique stability and sealing properties.



ZARGES lid holding straps are highly durable and sealed at the ends to prevent fraying. They are attached with special rivets with extra-large heads which reliably prevent straps being torn out even if the open lid is subjected to heavy loads.

# **Interior fittings**

ZARGES has the right interior fittings for every packaging task. The wide range of standard fittings already solves many packaging problems. In addition, ZARGES offers the right foam linings made to your specifications for any transport problem, no matter how unusual.





# **Broad range of products**

ZARGES offers a broad range of products, from the lightweight K 405 to the sturdy K 470 universal containers or the water-vapour-proof K 475 special containers. Special applications such as the Mitraset® 19" rackmount case or ZARGES special containers finish off the range. The case range is supplemented by a wide variety of trolleys made from aluminium and other materials, as well as aluminium pallets. Standard product or customer specific solutions, the ZARGES range always offers the perfect solution.









# ZARGES offers unique and innovative solutions for added customer benefit

Clip-on castors can be mounted on any case in a matter of seconds and without the use of tools.



ZARGES Comfort fasteners combine excellent ergonomic design with an exceptionally long service life.



ZARGES K 470 IP 67 with patented ZARGES fastening system.



K470 IP65 – unique protection against dust and water jets, with TÜV certificate.



The new, innovative K 424 XC castor provides smooth-running, integrated mobility and can be stacked with containers in all ZARGES series. In addition, the standard K424 XC case allows you to retrofit the optional wheel set with a diameter of 125 mm.



As a result of the perfect combination of interior packaging and enclosure, ZARGES hazardous goods cases even pass drop tests from a height of 9 m.





# 01

**BOXES & CASES** 

# ZARGES boxes & cases – safe packaging and transportation.

ZARGES cases and boxes are the solution for safe packaging and transportation - by professionals, for professionals. Their distinguishing features include their lightweight, yet extremely stable and durable design. They are stackable, heat-resistant and robust, making them the market leader and an instant classic since their introduction in the 1950s.

The Worldwide famous ZARGES K 470 container is a key part of the series, it has been developed over the course of many years and is used across the globe – from the North Pole to the deserts – in widely varying applications. ZARGES repeatedly sets new benchmarks in innovation – both through new models and the development of existing boxes and cases.

With a comprehensive range of accessories, the cases and boxes can also be tailored to suit individual requirements.



# The K 424 XC Mobile Box series:

Combines the legendary quality of ZARGES cases with new mobility. Now also available with approval for the transportation of hazardous goods.



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# **Top product from ZARGES** – the new K 424 XC Mobile Box combines the legendary quality of ZARGES cases with new mobility.



# ZARGES K 424 XC Mobile Box – made by professionals for professionals.

The requirements placed on a mobile box vary as widely as those of the people who use them. So how does the ZARGES K 424 XC Mobile Box manage to meet all these needs? How does it fit the requirements of aid organisations, fire services, industry, the trades, the film and photography sector and the leisure industry in equal measure? The answer is simple. It is reduced to the essentials: optimum protection, the highest level of mobility, minimum weight.



# Integrated castors ensure mobility – at all times.

Robust ZARGES quality ensures high load-bearing capacity. Lightweight aluminium design. Comfortable pull handles for ergonomic handling. Extra-large additional castors increase ground clearance where required. Flexible interior fittings offer solutions for almost any packaging task.





1 Stacking corners.
Shock resistant plastic
stacking corners for extra
rigidity and safe stacking.



2 ZARGES Comfort sprung drop handle. Ergonomically shaped and extremely durable.



3 ZARGES Comfortfastener. Extremely long service life, equipped with plug locks.



4 Made of aluminium.

Despite the low weight, high load-bearing capacity of up to 50 kg.



5 Peripheral beads and corner beads. For additional dimensional stability.



6 Telescopic handle.
Integrated pull-out handle for increased mobility.



7 Lid holding straps.
Increased stability.



Base foam insert
as standard.
Removable, made from
abrasion-resistant PE foam.



9 Integrated 50 mm castors as standard. Optimum mobility due to special castors made from polyurethane and polyamide.



**Optional 125 mm castors.**Mobility even on uneven surfaces and over long distances.



Optional 220 mm off-road wheel set (with support legs). All-terrain wheels for unlimited mobility on all surfaces.



Fold-out support legs for off-road wheel set.





Integrated special castors Ø 50 mm



Stackable even with mounted castor set (Order No. 41818), also stackable with models in other ZARGES series.

Stability in combination with flexibility: the lightweight and indestructible transport solution for any terrain, with a wide range of accessories:

- Sturdy, mobile aluminium case with a long-lasting service life.
- Optimum mobility through integrated 50 mm castors and pull-out handle (Order Nos. 41810 to 41814) or second sprung drop handle on the end face (Order No. 41815).
- Extremely smooth-running due to special castors,  $\varnothing$  50 mm, made from polyurethane and polyamide.
- Stackability guaranteed through stacking corners made from impact-resistant plastic and integrated stacking elements in the support frame. Can also be stacked with containers in the ZARGES K 470 and Eurobox series.
- High load-bearing capacity of up to 50 kg despite its lightweight design.
- Equipped as standard with removable base foam insert made from abrasionresistant PE foam.
- ZARGES Comfort fasteners with extremely long service life, fitted with plug locks.
- A wide range of adaptable interior fittings provide versatility.
- Optional castor set 125 mm or off-road wheel set 220 mm available for use in difficult terrain.

See No.	Inside dimensions L × W × H, approx. mm	Outside dimensions L × W × H, approx. mm	Volume, approx. l	Weight, approx. kg	Pull handle	With approval for the transportation of hazardous goods, max. permissible gross weight, kg	max. total weight, approx. kg	Order No.
1	516 × 350 × 159	550 × 400 × 233	28	6.3	3-part	25.0	25.0	41810
2	550 × 350 × 310	600 × 400 × 385	60	7.3	3-part	25.0	25.0	41811
3	750 × 350 × 380	800 × 400 × 455	99	9.0	2-part	35.0	35.0	41812
4	750 × 450 × 310	800 × 500 × 385	105	9.5	2-part	35.0	35.0	41813
5	750 × 635 × 410	800 × 685 × 485	195	12.0	2-part	35.0	35.0	41814
6	910 × 350 × 380	960 × 400 × 455	120	9.5	2. Sprung drop handle	50.0	50.0	41815

# K 424 XC Mobile Box Office

# The mobile office.

- Sturdy, mobile aluminium box with a long service life.
- Optimal mobility due to special
   Ø 50 mm castors, made from polyurethane and polyamide.
- Shock resistant plastic stacking corners for extra rigidity and safe stacking.
- Equipped as standard with removable base foam insert made from abrasion-resistant PE foam.
- Beading all round and corner beads for additional dimensional stability.
- Fitted with sturdy lid holding straps.
- Peripheral foamed seal in the lid for protection against dust and splashwater.
- Fitted with frame for suspension files.



Inside dimensions L × W × H, approx. mm	Outside dimensions L × W × H, approx. mm	Volume, approx. l	Weight, approx. kg	Pull handle	Max. total weight, approx. kg	Order No.
400 × 330 × 380	450 × 410 × 455	50	6.7	3-part	25.0	41809

# Full package of accessories: Mobile Box K 424 XC





No. 1: Basic model	Inside dimensions		Full package of accessories: Mobil Box Office		Order No.	
		No. 2: Divider set	No. 3: Attaché insert	No. 4: Fixing bracket	No. 5: Castor set	
41809	400 x 330 x 380	41835	41834	41836	41818	41837

Fixing brackets prevent ZARGES cases from slipping when transported in a car.

- Velcro strips enable fixing without tools, adhering to most carpet inlays in the boot of a car.
- Anodised surface.
- Fitted with an elastic band to fix small parts in place.
- Set comprising 2 brackets.

Dimensions L × W × H, approx. mm	Fits	Order No.
300 × 120 × 150	All ZARGES cases	41836



Delivery without content.

# K 424 XC Mobile Box Office interior fittings



# Lid bag

Attractive lid bags you can fit yourself, made from black nylon fabric. Ideal for laptops, tablets, cables, small parts or documents. Protects parts and keeps order inside the case. The bag is easily detachable.

Designation	Dimensions L × W × H, approx. mm	Fits cases with inside dimensions, L × W from mm	Order No.
Lid bag, large	420 × 260 × 40	550 × 350	41820
Lid bag, small	260 × 150 × 40	310 × 250	41821



# Attaché insert

A practical folder for documents and stationery, it is made of hard-wearing fabric and is easily fitted due to its self-adhesive design.

Dimensions L × W, approx. mm	Fits cases with inside dimensions, L × W from mm	Order No.
430 × 290	550 × 350	40626
290 × 260	41809	41834



#### Tool bag

A portable, detachable storage bag for tools.

Made from hard-wearing fabric. With unfolding compartment for easy access to the tools. Installed with 2-piece hollow rivets.

Dimensions L × W × H, approx. mm	Fits dimensions L × W, approx. mm	Order No.
430 × 260 × 40	550 × 350	40627

**NEW** 



# Tool bag, self-adhesive

Removable, convenient tool bag made from robust fabric. Easy installation without drilling using an adapter part. Also fits cases with protection rating IP 65 and IP 67.

Dimensions L × W × H, approx. mm	Fits inside dimensions L × W, approx. mm	Order No.	
430 × 260 × 60	550 × 350	40630	



Wide variety of applications

# Foam lining

Universal protection for sensitive objects.

Durable, abrasion-resistant lining made from PE foam. Base and wall sections made from Plastazote LD 45 (specific gravity 45 kg/m³, thickness 11 mm). Lid foam made from PU nubbly foam. Including base foam, self-adhesive design.



Universal protection, whatever the content

Fits	Inside dimensions L × W × H, approx. mm	Order No.
41810	516 × 350 × 159	43889
41811	550 × 350 × 310	43864
41812	750 × 350 × 380	43891
41813	750 × 450 × 310	43892
41814	750 × 635 × 410	43893
41815	910 × 350 × 380	43890

16 Delivery without content.

# K 424 XC Mobile Box Office interior fittings

# Pick 'n Pluck foam

Pre-cut flexible-foam inserts made from open-cell PU foam.

The fast and simple solution for single items or small batches.

Shape can be changed without tools.

Set includes two sheet thicknesses, lid insert nubbly foam 30 mm, base foam 10 mm. Nubbly foam in the lid is self-adhesive.



Fits	Inside dimensions L × W × H, approx. mm	Order No.
41810	516 × 350 × 159	43848
41811	550 × 350 × 380	43854
41812	750 × 350 × 380	43850
41813	750 × 450 × 310	43851
41814	750 × 635 × 410	43852
41815	910 × 350 × 380	43853



# Inside bag with crosswise divider

The flexible organisation system with Velcro-fastening dividers.

Robust, water-repellent inside bag made from polyester.

Completely sealable with all-round zip fastener.

Lateral bracing for easy loading and unloading.

Removable, with carrying handles.

Equipped with crosswise dividers with Velcro fasteners allowing them to be positioned as desired.



# **ZARGES** tip

All inside bags are ideal for combining with the new lid bags **Order Nos 41820 and 41821**.



Flexible crosswise dividers keep everything in order.

Designation	Dimensions L × W × H, approx. mm	No. of crosswise dividers	Order No.
Divider set for 41809	400 × 330 × 250	2	41835
Inside bag for 41810	516 × 350 × 159	4	41822
Inside bag for 41811	550 × 350 × 310	4	41823
Inside bag for 41812	750 × 350 × 380	6	41824
Inside bag for 41813	750 × 450 × 310	6	41826
Inside bag for 41814	750 × 635 × 410	6	41827
Inside bag for 41815	910 × 350 × 380	6	41828



Can be combined with lid bag



Large opening for easy loading and unloading of the



Easily removable inside bag



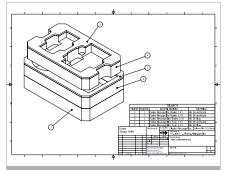
# Individual foam inserts

We manufacture tailor-made foam inserts in a large range of materials to provide perfect protection and functionality geared specifically to the goods you are transporting.

You supply photos, drawings, 3D-data or original parts – and our designers develop the perfect inserts for your specific application.

You have a choice of various colours. Antistatic, dissipative or flame-retardant designs available. Another special characteristic of these first-class foam materials is that the protective effect of the finished packaging can be calculated in advance.

Based on weight, surface, drop height and sensitivity (G-value), we can develop for you packaging with optimally adapted padding thickness. The result: lowest possible raw material requirements with maximum protection.



Individual design



Use of 3D-data facilitates the design project



Inserts in multiple colours for a clearer overview



Foam inserts that fit perfectly

# K 424 XC Mobile Box mobility

The K 424 XC series comes already equipped with a set of  $\emptyset$  50 mm castors. These castors offer a very smooth and quiet operation.



# Optional castor set 125 mm

Set of wheels with solid rubber tyres and plastic rims, non-marking. Increases ground clearance to 50 mm. With high-quality ball bearings and plug-in axles.

Can be retrofitted to any K 424 XC without tools and at the touch of a button

Can be retrofitted at any time. Includes storage bag made from hard-wearing nylon fabric.



Fits cases	Castor ∅, approx. mm	Order No.
all K 424 XC	125	41818





# Off-road wheel set 220 mm

All-terrain wheels for unlimited mobility on all surfaces. Mobility even in tough and difficult terrain. High-quality air tyres for K 424 XC Mobile Box, diameter 220 mm. Increases ground clearance to 65 mm. Support legs mean the product is horizontal when positioned on the ground. Wheels and axle can be fitted and removed without the use of tools.



Fits cases	Castor $\varnothing$ , approx. mm	Order No.
41811, 41812, 41815	220	41819
41813	220	41832
41814	220	41833









# K 424 XC Mobile Box standard accessories





# Shackle lock

Shackle lock with 3-digit, freely selectable number combination. Shackle diameter 5 mm.

Fi	ts	Order No.
ALL ZARG	ES cases	46989



# TSA shackle lock

Shackle lock with 3-digit, freely selectable number combination. The shackle lock can be opened by American TSA staff without it being damaged.

Fits	Order No.
All ZARGES cases	46789



# **Anchoring cable**

Prevents the sealed ZARGES case being carried away.

Quick securing on construction sites or inside vehicles. The cable can only be released when the lid is open.
Plastic-sheathed stainless steel cable, diameter 8 mm, 10 mm including sheathing. Length 1.20 m. One end of the cable equipped with a loop. Compatible with all K 424 XC series.

Assembly	Order No.
Through ZARGES	375891
Self-mounting	41838

# K 424 XC customisation



# **Embossed plate**

To be attached to containers, with embossing in DIN font, capital letters, 20 mm font height, single and multiple lines.



# **Embossing**

In DIN font, capital letters, 20 mm font height, single and multiple lines.



# Label frame

In various sizes in accordance with German industrial standard or in special sizes.



# Armoured closing clasps

Designed to be equipped with lead seal and shackle lock. For locks with a shackle diameter of 8 mm.

# Labelling

ZARGES offers individual labelling options:



- 1 Screen printing, singleor multi-coloured
- ② Self-adhesive film, non-removable version available on request
- 3 Adhesive letters
- Mounting of type plates

# K 424 XC Mobile Box equipment package





# 1

#### Note:

The combination of **lid bag** and practical **125 mm castor set** makes the K 424 XC a universally adaptable companion.

# A smart purchase -

The K 424 XC bundle includes everything you need to safely store and transport important equipment

- Choice of 2 sizes.
- Attractive, price-saving bundle comprising: K424 XC (Order No. 41811 or 41812), lid bag (Order No. 41820), inside bag (Order No. 41823 or 41824) and castor set (Order No. 41818).





# K 424 XC Mobil Box equipment package

Designation	Basic model	Inside dimensions L × W × H, approx. mm	Mobile Box equipment package equipped with		Order No.	
			inside bag	Lid bag	castor set	
Package 1	41811	550 × 350 × 310	41823	41820	41818	41816
Package 2	41812	750 × 350 × 380	41824	41820	41818	41817

Delivery without content.

# **K470 universal container –** quality in every detail.



# **N1**

# Superiority begins with the details.



Lid with foamed seal all round.

Protected against wear, overloading and squashing.



2 Foam seal also included in corner areas.



3 Stainless steel continuous hinge

riveted into the panel and lid, the piano style hinge offers protection against tearing.



4 Stacking corners made from durable cast alumin-



5 Two heavy duty lid holding straps.

Sealed at the ends to prevent fraying. Will not be torn out under heavy loads. Attached with special rivets (with extra-large heads).



6 Oversized handles.

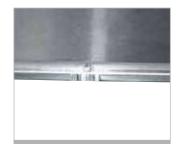
Wider and thicker gripping surfaces mean that the cases are even easier to carry.



7 All riveted joints with full rivets.



Depending on size, **beading** all round and corner beads
 for added stability.



9 Flash butt welding process
In accordance with DIN EN
ISO 4063. This complex production process results in
high stability, torsion-resistance and long service life
even under extremely high

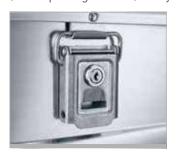


10 Edge, base, lid profile-section frame made from full profile sections, joints fully welded.



# Tailored to your needs – more variety in Comfort fasteners.

The ZARGES Comfort fasteners can be equipped with a mortise lock or with catch spring retention (anti-opening feature). They can also be secured with a shackle lock or lead seal.



Fastener with plug lock



Fastener with spring anti-opening feature



Fastener with K 470 clip and shackle lock



Fastener with catch spring retention (anti-opening feature) and plug lock

# 1 case - 1,000 possibilities

As a standard product or a customer specific solution, the ZARGES K 470 is always the perfect choice for the most exacting requirements.

Sensitive equipment for expeditions, urgently required foreign aid or hazardous goods on the move:

The classic K 470 aluminium case from ZARGES offers perfect protection for everything you need to take with you – even under extreme conditions. A comprehensive range of accessories ensures that you have the optimum packaging solution whatever the task in hand.





Customised foam insert



Inside bags made from robust fabric

# **Interior fittings**

For optimum packaging, you also need the right interior fittings. ZARGES offers foam linings as standard for all K 470 standard sizes. As a new option for most conventional sizes, we now offer inside bags made from robust synthetic fabric which allow flexible organisation of the interior of the case by means of crosswise dividers. Pick 'n Pluck foam sets and adjustable divider panel systems are also available for most standard sizes.

And it goes without saying that ZARGES offers bespoke foam inserts made to your specifications for any transport problem, no matter how unusual.

See page 28 for further details.



Mounting set, lifting sling made from synthetic fibres



Pallet substructure



Clip-on castors



Can be fitted to any K 470 without tools

# **Mobility solutions**

Depending on size, weight and transport conditions, the ZARGES Case Center offers the appropriate mobility solution: Clip-on castors, dolly trolleys or pallet substructures, also for retrofitting. As an option, the ZARGES K 470 can be supplied with TÜV-tested lifting equipment.

See page 32 for further details.



# **Accessories**

Empty containers without interior fittings very rarely meet the needs and requirements of the task in hand. And so ZARGES offers not only high-quality aluminium cases, but also complete packaging concepts with matching interior fittings and practical accessories.

See page 34 for further details.



Additional safety with an anchoring cable



Adhesive label for delivery notes

#### Customisation

On request, the cases can be supplied with RAL paint finish, lettering, embossing or other identification to your specifications.

See page 36 for further details.



Embossing



Paint finish

# ZARGES K 470 – approval for the transportation of hazardous goods

Strict safety regulations are laid down by law for the packaging and transport of hazardous goods.

Hazardous goods may only be transported in packaging that meets these criteria and is approved by the relevant authorities. All sizes in the ZARGES K470 range and numerous special sizes are type-tested and approved for the transportation of hazardous goods.

A comprehensive selection of accessories rounds off the ZARGES hazardous goods transportation range. This means that ZARGES offers the optimum packaging solution for any task.

See page 37 for further details.



ZARGES K 470 – available with IP 65 or IP 67 rating

For added protection against dust and water ingress (with TÜV certificate).

See page 40 for further details.







Dust-tight to standard IP 65



Protected against water jets



#### Note

The K 470 range is available with a wide selection of carefully thought-out interior fittings and numerous solutions for easier handling.





Ergonomically shaped, extra-wide ZARGES Comfort handles

With 25 sizes, the K 470 series offers a unique selection of standard dimensions. Their capacity ranges from 13 l to 829 l. And if you do not find the right case for your needs in this range, ZARGES also offers individually designed special sizes.

- High-quality aluminium universal box.
- Lid with stainless steel hinge strip, two lid straps and all round foamed seal.
- Cast aluminium stacking corners.
- High level of stability due to 3 fully-welded aluminium profile frames.
- Profile-section joints fully welded.
- Beading all round and corner beads for additional dimensional stability.
- Extra thick 1.5-mm sheet metal for all K 470 containers from basic dimensions 750 mm × 550 mm.
- Ergonomic heavy-duty sprung drop handles.
- ZARGES Comfort handles for ergonomic handling and loads of up to 50 kg.
- Ergonomically designed and durable Comfort fasteners for at least 20,000 operating cycles.
- Snap fasteners can be secured with a plug lock, lead seals, catch spring retention (anti-opening feature) or a padlock (max. shackle thickness 6 mm).
- 25 standard sizes, customised sizes on request.



Durable ZARGES Comfort fastener



Perfect handling, even when wearing gloves





# **ZARGES** tip



All sizes also available with approval for the transportation of hazardous goods.



See No.	Inside dimensions L × W × H, approx. mm	Outside dimensions L × W × H, approx. mm	Volume, approx. l	Weight, approx. kg	With approval for the transportation of haz- ardous goods, max. permissible gross weight, kg	Foam lining to fit*	Order No.
1	350 × 250 × 150	400 × 300 × 180	13	2.6	26.0	43860	40835
2	350 × 250 × 310	400 × 300 × 340	27	3.1	58.0	43861	40677
3	550 × 350 × 150	600 × 400 × 180	29	4.2	65.0	43862	40810
4	550 × 350 × 220	600 × 400 × 250	42	4.8	65.0	43863	40568
5	550 × 350 × 310	600 × 400 × 340	60	5.0	70.0	43864	40678
6	550 × 350 × 380	600 × 400 × 410	73	5.3	75.0	43865	40564
7	$550\times550\times220$	600 × 600 × 250	67	5.6	65.0	43866	40849
8	550 × 550 × 380	600 × 600 × 410	115	6.6	75.0	43867	40859
9	$550\times550\times580$	600 × 600 × 610	175	7.8	94.0	43868	40836
10	600 × 430 × 450	650 × 480 × 480	116	6.5	70.0	43869	40837
11	600 × 560 × 440	650 × 610 × 470	148	7.4	83.0	43871	40839
12	690 × 460 × 380	740 × 510 × 410	121	6.9	71.0	43873	40841
13	690 × 640 × 340	740 × 690 × 370	150	8.0	84.0	43874	40842
14	690 × 640 × 430	740 × 690 × 460	190	8.6	100.0	43875	40843
15	$750\times550\times380$	800 × 600 × 410	157	10.0	102.0	43877	40565
16	750 × 550 × 580	800 × 600 × 610	239	12.0	126.0	43878	40566
17	780 × 480 × 520	830 × 530 × 550	195	11.1	103.0	43879	40844
18	900 × 480 × 400	950 × 530 × 430	173	11.0	93.0	43880	40845
19	900 × 640 × 450	950 × 690 × 480	259	13.4	115.0	43881	40846
20	950 × 450 × 380	1,000 × 500 × 410	162	10.9	65.0	43882	40567
21	1,150 × 350 × 150	1,200 × 400 × 180	60	7.5	50.0	43887	40847
22	1,150 × 750 × 480	1,200 × 800 × 510	414	20.0	183.0	43884	40580
23	1,350 × 400 × 220	1,400 × 450 × 250	119	9.5	65.0	43888	40848
24	1,550 × 550 × 465	1,600 × 600 × 495	396	25.0	150.0	43885	40875
25	1,650 × 750 × 670	1,700 × 800 × 700	829	30.0	200.0	43886	40876

<sup>\*</sup> Price does not include foam lining.

Clearance dimensions approx. 30 mm less than inside dimensions (length and width). Special sizes on request.





# Lid bag

Attractive lid bags you can fit yourself, made from black synthetic fabric. Ideal for laptops, tablets, cables, small parts or documents. Protects parts and keeps order inside the case.

The bag can be removed at any time.



Designation	Dimensions L × W × H, approx. mm	Fits inside dimensions from L × W, approx. mm	Order No.
Lid bag, large	420 × 260 × 40	550 × 350	41820
Lid bag, small	260 × 150 × 40	310 × 250	41821



# Attaché insert

A practical folder for documents and stationery, it is made of hard-wearing fabric and is easily fitted due to its self-adhesive design.

Dimensions L × W × H, approx. mm	Fits inside dimensions from L × W, approx. mm	Order No.
430 × 290 × 20	550 × 350	40626



# Tool bag

A portable, detachable storage bag for tools.

Made from hard-wearing fabric. With unfolding compartment for easy access to the tools. Installed with 2-piece hollow rivets.

Dimensions L × W × H, approx. mm	Fits dimensions L × W, approx. mm	Order No.
430 × 260 × 40	550 × 350	40627



# Tool bag, self-adhesive

Removable, convenient tool bag made from robust fabric. Easy installation without drilling using an adapter part. Also fits cases with protection classes IP 65 and IP 67.



Dimensions L × W × H, approx. mm	Fits dimensions L × W, approx. mm	Order No.
430 × 260 × 60	550 × 350	40630

# K 470 interior fittings

# Divider panel system

The individual organisation system for large items. Made of high-quality foams. For fitting by the customer. Including base foam and nubbly foam in the lid.

Dimensions L × W × H, approx. mm	Fits inside dimensions L × W, approx. mm	Order No.
550 × 350 × 190	550 × 350	40730



# Adjustable aluminium divider set

Consisting of a divider panel with 2 notched bars.

For even better organisation. Plastic notched bars in self-adhesive design.

Position of the aluminium divider panel can be changed without the use of tools.

Dimensions W × H, approx. mm	Fits	Order No.
346 × 215	40568	40864
346 × 305	40678, 40564	40865
446 × 345	40567	40866



# Inside bag with crosswise divider

Robust, water-repellent inside bag made from polyester. Completely sealable with all-round zip fastener. Lateral reinforcement/bracing for easy loading and unloading. Removable, with sturdy carrying handles.



Universal protection, whatever the content







Dimensions L × W × H, approx. mm	Fits	No. of crosswise dividers	Order No.
550 × 350 × 310	40678	4	41823
550 × 350 × 380	40564	4	41829
750 × 550 × 380	40565	6	41830
750 × 550 × 580	40566	6	41831



29 Delivery without content.



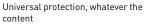
# Foam lining

On request, all K 470 containers can be equipped with a durable, abrasion-proof PE-foam lining:

Base and wall sections made from Plastazote LD 45 (specific gravity 45 kg/m³, thickness 11 mm), lid with PU nubbly foam. Other materials and wall thicknesses on request.

Fits	Inside dimensions L × W × H, approx. mm	Order No.
40835	350 × 250 × 150	43860
40677	350 × 250 × 310	43861
40810	550 × 350 × 150	43862
40568	550 × 350 × 220	43863
40678	550 × 350 × 310	43864
40564	550 × 350 × 380	43865
40849	550 × 550 × 220	43866
40859	550 × 550 × 380	43867
40836	550 × 550 × 580	43868
40837	600 × 430 × 450	43869
40839	600 × 560 × 440	43871
40841	690 × 460 × 380	43873
40842	690 × 640 × 340	43874
40843	690 × 640 × 430	43875
40565	750 × 550 × 380	43877
40566	750 × 550 × 580	43878
40844	780 × 480 × 520	43879
40845	900 × 480 × 400	43880
40846	900 × 640 × 450	43881
40567	950 × 450 × 380	43882
40580	1,150 × 750 × 480	43884
40875	1,550 × 550 × 465	43885
40876	1,650 × 750 × 670	43886
40847	1,150 × 350 × 150	43887
40848	1,350 × 400 × 220	43888







Wide variety of applications

# Pick 'n Pluck foam

Pre-cut flexible-foam inserts made from open-cell PU foam. The fast and simple solution for single items or small batches. Shape can be changed without tools. Set includes two sheet thicknesses, lid insert nubbly foam 30 mm, base foam 10 mm.

Nubbly foam in the lid is self-adhesive.



Fits	Inside dimensions (L × W × H, approx. mm)	Order No.
40810, 40568	550 × 350 × 220	40735
40678, 40564	550 × 350 × 380	43854
40849	750 × 550 × 220	40736
40565	750 × 550 × 380	43856

# K 470 interior fittings

# Individual foam inserts - made to measure

We manufacture tailor-made foam inserts in a large range of materials to provide perfect protection and functionality geared specifically to the goods you are transporting.

You supply photos, drawings, 3D-data or original parts – and our designers develop the perfect inserts for your specific application.

You have a choice of various colours.

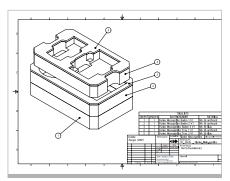
Antistatic, dissipative or flame-retardant designs available.

Another special characteristic of these first-class foam materials is that the protective effect of the finished packaging can be calculated in advance.

Based on weight, surface, drop height and sensitivity (G-value), we can develop for you packaging with optimally adapted padding thickness.

The result: lowest possible raw material requirements with maximum protection.





Individual design



Use of 3D-data facilitates the design project  $% \left\{ 1,2,\ldots ,2,3,\ldots \right\}$ 



Foam inserts that fit perfectly



Antistatic foam insert



Removable inserts for quick access to all levels



# K 470 mobility





Lifting strap made from synthetic fibres

Can bear loads of up to 200 kg per case. Low weight.

No metallic rattling.

1 set = 4 pieces required per case. UN approval for the transportation of hazardous goods possible.

Order No.	
40745	







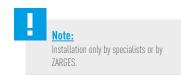
Lifting sling made from stainless steel wire

Easy to clean and decontaminate. High resistance to UV rays and chemicals.

1 set = 4 pieces required per case. UN approval for the transportation of hazardous goods possible.









# Clip-on castors

Mobility for all models from inside dimensions 550 mm  $\times$  350 mm upwards. Can be fitted without the use of tools. Made of solid rubber,  $\varnothing$  100 mm, swivel castors fitted with wheel brakes. Load capacity up to 100 kg on 4 castors.

Designation	Order No.
2 fixed castors each with a clamping mechanism 1 × left and 1 × right.	40741
2 swivel castors each with clamping mechanism 1 × left and 1 × right.	40742



# **ZARGES** tip

# $Configuration\ recommendations:$

2 swivel castors (1 × Order No. 40742) and 2 fixed castors (1 × Order No. 40741) or 4 swivel castors (2 × Order No. 40742)



# Add-on castors

2 castors made from high-quality polyamide.

Easy mounting through threaded connection.

Load capacity 50 kg/set.

Ideal for boxes with an outside length of 800 mm-1,000 mm.

Delivery includes the required mounting equipment and assembly instructions.

Order No.	
40738	

# K 470 mobility

Description	Order No.
Trolley	40739
Supplementary kit	40740



The **supplementary kit 40740** allows you to use the trolley with other cases.

# **Trolley**

Telescopic trolley. For easy fitting by the customer. Pull-out and lockable handle. Trolley can be removed at any time and without the use of tools.

Ideal for boxes with an outside length of 500 mm-800 mm.

Easy-running running gear,  $\emptyset$  54 mm. Load capacity 30 kg.



Fits outside dimensions L × W, approx. mm	Order No.
600 × 400 and 580 × 380	40607
800 × 600 and 760 × 580	40608

# W 150 dolly trolley

Aluminium chassis, low version. Chassis: 2 swivel and 2 fixed castors,  $\emptyset$  125 mm, 40 mm wide, easy running, rubber wheels, "non-marking", roller bearings, thread guards. Load capacity 150 kg.



Fits outside dimensions L × W, approx. mm	Order No.
760 × 580 and 800 × 600	40680

# W 152 dolly trolley

Aluminium chassis, high version.  $H = 450 \, \text{mm}$ .

Chassis: 2 swivel and 2 fixed castors, corner-mounted,  $\varnothing$  125 mm, 40 mm wide, easy running, rubber wheels, "nonmarking", roller bearings, thread guards. Load capacity 150 kg.



Fits outside dimensions L × W, approx. mm	Order No.
800 × 600	45096
1200 × 800	45097

# W 154 heavy-load dolly trolley

Welded aluminium profile-section construction. Castors made from polyamide, white. 2 fixed and 2 swivel castors with brake. Load capacity 45096 300 kg,

45097: 600 kg.





# Pallet substructure

If required, the cases can be fitted with a pallet substructure. Pallets made from wood, plastic or aluminium.





# Shackle lock

Shackle lock with 3-digit, freely selectable number combination. Shackle diameter 5 mm.

Fits	Order No.		
All ZARGES cases	46989		



# TSA shackle lock

Shackle lock with 3-digit, freely selectable number combination. The shackle lock can be opened by American TSA staff without it being damaged.

Fits	Order No.		
All ZARGES cases	46789		



# Lock set

For all cases designed to be equipped with locks in snap fasteners. Consisting of 2 locks and 2 keys.

Description	Order No.
Only simultaneously closing as a set	40832
Complete series of identical locks	40833



# Spring anti-opening feature

For all cases with Comfort fasteners. Prevents the fasteners accidentally springing open. Simple assembly, also as retrofit.

Consisting of 2 catch spring retention (anti-opening feature) and 2 covering clips.

(	Order No.
	40834



# Adhesive label for delivery notes

Fixed position for shipping labels. Self-adhesive design. Easy to clean.

Dimensions L × W, approx. mm	Order No.		
280 × 280	343904		



# Anchoring cable

This prevents the locked K 470 being carried away. Quick securing on construction sites or inside vehicles. The cable can only be released when the lid is open. Plastic-sheathed stainless steel cable, diameter 8 mm, 10 mm including sheathing. Length 1.20 m. One end of the cable equipped with a loop. Fits all K 470 series.

Assembly	Order No.
Through ZARGES	375891
Self-mounting	41838

# K 470 accessories

Designation	Fits	Order No.
Attaché insert	all K 470 cases except Order Nos. 40677 and 40835	40626
Tool bag	all K 470 cases except Order Nos. 40677 and 40835	40627
Tool bag, self-adhesive	All K 470 cases except Order Nos. 40677 and 40835	40630
Lid bag, large	all K 470 cases except Order Nos. 40677 and 40835	41820
Lid bag, small	all K 470 cases	41821
Divider panel system	K 470 cases with inside dimensions 550 mm × 350 mm, min. height 220 mm	40730
Pick 'n' Pluck foam set 1	K 470 cases with inside dimensions 550 mm × 350 mm	40735
Pick 'n' Pluck foam set 2	K 470 cases with inside dimensions 750 mm × 550 mm	40736
Aluminium divider set 1	Divider panel height 215 mm, fits cases with inside width 350 mm	40864
Aluminium divider set 2	Divider panel height 305 mm, fits cases with inside width 350 mm	40865
Aluminium divider set 3	Divider panel height 345 mm, fits cases with inside width 450 mm	40866
W 150 dolly trolley	All K 470 cases with outside dimensions 600 mm $\times$ 400 mm and 580 mm $\times$ 380 mm	40607
W 150 dolly trolley	All K 470 cases with outside dimensions 800 mm $\times$ 600 mm and 760 mm $\times$ 580 mm	40608
W 152 dolly trolley	all K 470 cases with outside dimensions 800 mm × 600 mm	40680
Add-on castors	all K 470 cases, optimum for outside length 800 mm – 1000 mm	40738
Trolley, removable	all K 470 cases with length 600 mm – 800 mm	40739
Clip-on fixed castors	all K 470 cases from a size of 550 mm × 350 mm	40741
Clip-on swivel castors	all K 470 cases from a size of 550 mm × 350 mm	40742
Lock set	Only identical locks in one set, fits all cases designed to be equipped with locks	40832
Lock set	complete series of identical locks, fits all cases designed to be equipped with locks	40833
Spring anti-opening feature	all K 470 cases	40834
TSA shackle lock	all K470 cases	46789
Shackle lock	all K 470 cases	46989







40627 Tool bag



Tool bag, self-adhesive



41820 Lid bag



Divider panel system



40735-40737 Pick 'n Pluck foam set



40864-40866 Adjustable aluminium divider set



40680 W 152 dolly trolley



40738 Add-on castors



40739 Trolley



40741, 40742 Clip-on castors



40832, 40833 Lock set



40834 Spring anti-opening feature



46789 TSA shackle lock

# **Possible combinations**

Order No.		40626	40627	40628	40730	40735, 40736	40864, 40865, 40866
	Description	Attaché insert	Tool bag	Box for small compo- nents	Divider panel system	Pick 'n Pluck foam set	Aluminium divider set
40626	Attaché insert	-	-	-	<b>√</b>	✓	-
40627, 40630	Tool bag	-	-	-	1	✓	-
41820, 41821	Lid bag	-	-	-	1	✓	1
40730	Divider panel system	✓	1	1	-	-	-
40735, 40736	Pick 'n Pluck foam set	✓	1	1	-	-	-
40864, 40865, 40866	Aluminium divider set	-	-	-	-	-	-

Note:

Combinations depend on the case heights. In some cases, it may be necessary, e. g. to shorten parts of the adjustable divider panel system or to leave out a layer of the Pick 'n Pluck foam set.

# K 470 customisation





# **Embossed plate**

To be attached to containers, with embossing in DIN font, capital letters, 20 mm font height, single and multiple lines.



# **Embossing**

In DIN font, capital letters, 20 mm font height, single and multiple lines.



# Label frame

In various sizes in accordance with German industrial standard or in special sizes.



# **Armoured closing clasps**

Designed to be equipped with lead seal and shackle lock.

For locks with a shackle diameter of 8 mm.



# **Paint finish**

All paints in acc. with RAL register are available with standard paint system:

- Painting to TLA-0003 RAL 6031 F9 or RAL 6031 HR, as per ZARGES works standard.
- Painting to TLA-0033 RAL 6031 F9 or RAL 6031 HR, standard.



# Labelling

ZARGES offers individual labelling options:

- Screen printing, single- or multicoloured.
- ② Self-adhesive film, non-removable version available on request.
- 3 Adhesive letters.
- Mounting of type plates.



#### Note:

Please contact us for further details! You can also find more information online: www.zarges.com/K470



ZARGES cases can now also be equipped with RFID technology for safe transport worldwide.

Radio Frequency Identification ensures more transparency and efficiency in logistics processes.

It allows quicker tracking, location, monitoring and protection of containers.

Contactless reading of a freely selectable number of codes makes working easier and also makes for greater efficiency during stocktaking. Global tracking via GPS and GSM is also possible.

See page 309 for further information.

### ZARGES hazardous goods containers meet a wide range of requirements.

Strict safety regulations are laid down by law for the packaging and transport of hazardous goods. Hazardous goods may only be transported in packaging that meets these criteria and is approved by the relevant authorities. ZARGES has many decades of experience with UN-approved containments made from aluminium.



#### **CUSTOMER + ZARGES**

Consultation and packaging conception (internal and external packaging)

YES

#### Solution available?

NO

**Solution** covered by existing approval

Large selection of existing **UN approvals** 



**Development** of a special solution

Design, construction and testing by ZARGES

Application for approval







In its capacity as a test and inspection agency, ZARGES is authorised and able to test hazardous goods packaging and to apply for type approvals.

#### The ZARGES product range

In most cases, the wide range of standard products will offer a variety of solutions which meet the most exacting requirements. Here, in addition to the K470, you will find an selection from our main product series:



Mobile Box K 424 XC - GGV (see p. 14)



W 105 N cupboard trolley (see p. 78)



Reusable transport container UN 3291



Airbag container

#### K 470 hazardous goods





# Why choose a hazardous goods container made from aluminium?

- Extremely robust.
- Lightweight aluminium design.
- Long service life for frequent use.
- Simple to reseal.
- High stability with sheet metal thicknesses from 1.5 mm starting from a size of 800 mm × 600 mm.
- Ideal for transporting heavy hazardous goods.
- The sturdy packaging for reliable protection even under the most extreme conditions.

# Why choose hazardous goods packaging from ZARGES?

- Large selection of approved standard sizes.
- Wide range of approved series (UN 4B, UN 4BV, UN 50B).
- Short delivery times even for special sizes.
- UN 4B approval for all transportation modes.
- ZARGES has its own testing centre, approved and monitored by the BAM, for type testing.
- Large selection of accessories and interior fittings.

Additional charge for testing as per specifications of hazardot packaging directive (Order No. 926000) for order quantit	
1–9 items	926000
10-19 items	926000
20-99 items	926000
from 100 items	926000







K 470 accessories, hazardous goods

Note:

To turn a type-tested enclosure into a consignment for shipment which complies with the legal requirements, you need the right accessories. For this reason, ZARGES offers a comprehensive range of such accessories.



#### Order No.

43831

#### Bag with slide-type seal

Can be used as sealed internal packaging for ZARGES hazardous goods packaging. With easy-to-operate slide-type seal for quick and simple opening and closing. Mandatory for infectious substances which must be packed in accordance with transport regulations P620 or P650. Material: PE, thickness 100  $\mu$ m. Packaging unit: 1 carton containing 100 items.



#### Order No.

43833

#### Fire-resistant cushion

Perleen® packaging pads for hazardous goods and batteries.

Fire-resistant packaging pads made from tear-resistant glass-fibre fabric. Easier handling and less dust development compared with loose Vermiculite.

Filled with approx. 15 litres of fireproof chemical binding agent Perleen® 444. For transporting hazardous goods without vibration and absorbing spills. Electrically non-conductive. Largely carbon-free.

Chemical compatibility TÜV-tested in accordance with BAM (Federal Institute for Materials Research and Testing) test procedure for chemical binding agents. Dimensions approx.  $500 \times 450 \times 70$  mm.



#### **Customised foam inserts**

We manufacture bespoke foam inserts in a large range of materials for every application, including antistatic or flame-retardant materials.

Tailored to your specific requirements. Contact us for details.





#### Exchangeable plates with VA frame

Replaceable labelling for different hazardous goods.

Tailored to your specific requirements. Contact us for details.

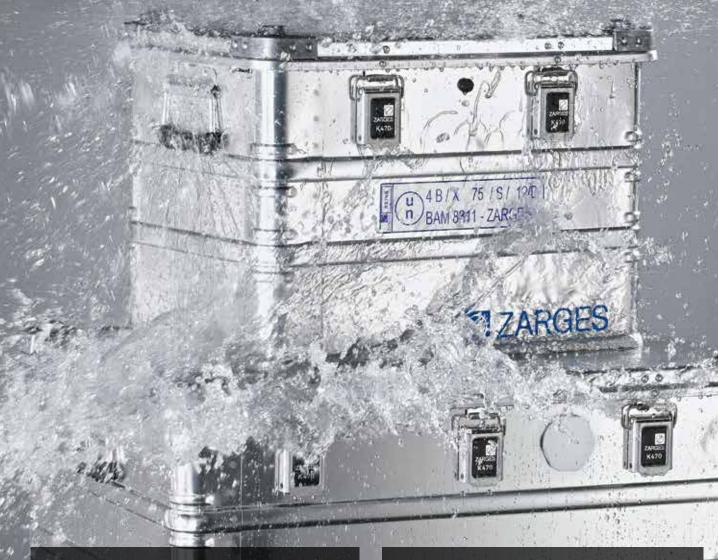




# ZARGES K 470 IP 65 and IP 67 –

protect equipment from water and dust.

You have extremely high requirements when it comes to protecting and transporting your equipment?
You don't want to have to worry about dust, water or pressure differences?
This is the no-compromise solution.



ZARGES K 470 IP 65 – now dust-tight and protected against water jets – in accordance with DIN 60529.

- 3 standard sizes available from stock.
- Also available with approval for the transportation of hazardous goods.
- Protection class tested and certified by TÜV SÜD.

ZARGES K 470 - IP 67 - protection against immersion in water and dust.

- High-quality special container, protected against occasional immersion according to protection rating IP 67.
- Patented ZARGES locking system.
- Extra large pressure relief valve.
- Leak-tightness verified with TÜV SÜD certificate.

#### K 470 IP 65 and IP 67















ZARGES has further optimised its extremely successful and legendary K 470 universal container:

- Up to now, the K 470 cases were equipped with reliable protection against dust and splashwater as standard. The new models with protection rating IP 65 or IP 67 offer increased protection against moisture, water jets and dust or even occasional
- To ensure that the lid opens reliably even after changes in the air pressure, the K 470 IP 65 and IP 67 are equipped with an automatic pressure relief valve. A Gore™ membrane ensures continuous compensation of differences in pressure and is impervious to dust, salts, water and other liquids. And as the valve is automatic, handling errors can be ruled out.
- The K470 IP 65 and K 470 IP 67 was subjected to rigorous testing and certification by TÜV SÜD.
- With just a few exceptions, the optional seal according to protection class IP 65 is available for all K470 models. In addition, you can choose the combination of the new equipment with additional UN approval for the transport of hazardous goods.
- The K 470 IP 67 catalogue range covers four sizes, customised versions on request.



Water-jet protected to standard IP 65



Protection class IP 67 from the patented ZARGES locking system



#### **NEW ZARGES K 470 IP 67**

Inside dimensions L × W × H, approx. mm	Outside dimensions L × W × H, approx. mm	Volume, ap- prox. l	Weight, approx. kg	Order No.
550 × 350 × 380	600 × 400 × 410	70	5.3	380366
750 × 550 × 380	800 × 600 × 410	157	10.0	379083
750 × 550 × 580	800 × 600 × 610	239	12.0	380378
900 × 640 × 450	950 × 690 × 480	259	13.4	379725

#### **ZARGES K 470 IP 65**

Inside dimensions L × W × H, approx. mm	Outside dimensions L × W × H, approx. mm	Volume, ap- prox. l	Weight, approx. kg	Order No.
550 × 350 × 380	600 × 400 × 410	70	5.3	366206
750 × 550 × 380	800 × 600 × 410	157	10.0	366217
750 × 550 × 580	800 × 600 × 610	239	12.0	366218

Additional charge IP 65 version for K 470	Order No.
40835, 40677, 40810, 40568, 40678, 40564, 40849, 40859, 40836, 40837, 40839, 40841, 40842, 40843, 40565	926002
40566, 40580, 40844, 40845, 40846, 40567, 40847	926003



#### K 470 truck toolbox







A K 470 designed specifically for vehicle storage – innovative fasteners allow the box to be easily secured and moved between different locations .

- Transportation and storage box for vehicle flatbeds ideal for local authorities, landscape gardening, agricultural and forestry vehicles.
- Based on the classic K 470 unversal container.
- Fitted with armoured clasps for added protection against unauthorised access.
- Added sealing protection against moisture and dust.
- Equipped with lashing rings on the box floor to secure loads.
- Two optional methods for fastening the box: permanent screw fixing or detachable.
- TÜV certified for mounting on flatbed vehicles with maximum 22 mm thickness.
- The safety of the K 470 truck toolbox has been successfully crash tested.
- The large range of accessories allows optimal modifications to suit any usage.
- Optional clip-on castors enable the box to be moved easily between locations.







Order No.	K 470 model	Inside dimensions L × W × H, approx. mm	Outside dimensions L × W × H, approx. mm	Type of attachment	Weight, approx. kg	Volume, approx. l
40510	40580	1,150 × 750 × 480	1,200 × 800 × 510	Fixed attachment	20	414
40511	40876	1,650 × 750 × 670	1,700 × 800 × 700	Fixed attachment	30	829
40512*	40580	1,150 × 750 × 480	1,250 × 800 × 510	Removable	22	414
40513*	40876	1,650 × 750 × 670	1,750 × 800 × 700	Removable	32	829

<sup>\*</sup>Space required on the flatbed:  $40512 = 1270 \times 850$  mm;  $40513 = 1770 \times 850$  mm.

#### Accessories: Anti-slip mat

- Stable anti-slip mat made of PU-bonded rubber granulate.
- Optimised securing of loads inside the truck toolbox.
- Noise muffling.
- Fits every truck toolbox.

Order No.	Fits L × W, approx. mm
40514	1,150 × 750
40515	1,650 × 750



#### Advice from the professionals

#### Further accessories for the K 470 Truck toolbox:

- · Clip-on castors 40741 and 40742
- · Anchoring cable 41838 and 375891
- Foam linings 43884 or 43886
- Lid bag 41820 and 41821



- Freely programmable PIN codes.
- Tamper-proof up to 400 kg.
- Lid locks automatically.



#### **ZARGES Safebox**



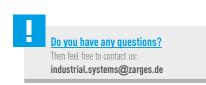


Added security where it counts. With the new SL 500 electronic lock for ZARGES cases.

- Storage of valuable tools and materials on construction sites and in vehicles.
- Distribution and delivery of medications.
- Transport and storage of confidential documents and data carriers.
- Freely programmable code (4- to 8-digit PIN).
- Simple configuration via the lock keypad (no PC required).
- Easy management for multiple users.
- Optional dual control principle (2 PIN entries required).
- Lid locks automatically.
- Automatic alarm if the lid is open.
- Tamper-proof up to 400 kg.
- Fits many K 470 containers from a height of 300 mm.
- Tamper-proof through welded hinge bar.
- Factory fit only.



Smooth-running, self-adjusting bar



Order No.	
373378	

#### **Anchoring cable**

This prevents the locked K470 being carried away. Quick securing on construction sites or inside vehicles. The cable can only be released when the lid is open. Plastic-sheathed stainless steel cable, diameter 8 mm, 10 mm including sheathing. Length 1.20 m. One end of the cable equipped with a loop. Fits all K 470 series.

Assembly	Order No.
Through ZARGES	375891
Self-mounting	41838







Top and bottom section connected with ZARGES Comfort fasteners



Top section lifts off easily



After lifting off the top section...



... you can operate equipment in the bottom section.

With the K 470 Plus, ZARGES is following an innovative packaging concept: a two-part transportation system consisting of a top and bottom section. This allows you to combine elements of different heights, creating a whole new range of possibilities.

These containers were designed for the transportation and storage of heavy equipment. The K470 Plus is particularly suitable for use with equipment which is operated in the case, e.g. flash units, printers, measuring equipment etc. There is no need to lift the equipment out of the case.

- Easy access to the equipment inside the case during transport.
- If the equipment does have to be lifted out, the new transportation system reduces the lifting distance, because the top section can be removed.

The K 470 Plus can be supplemented with many articles from the K 470 accessories range.

#### K 470 Plus - hood type container



Access to the contents of the case via the lid or by removing the top section  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left($ 



Interior fittings from the K470 range can be used



ZARGES Comfort handles

Description

Bottom section

Total height with bottom section 150 mm: 370 mm

Total height with bottom section 150 mm: 530 mm

Top section



Durable ZARGES Comfort fasteners

Volume, approx. l

42

73



Inside dimensions L × W × H, approx. mm

 $550\times350\times150$ 

 $550\times350\times220$ 

 $550\times350\times380$ 



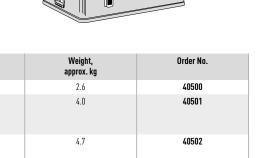


Outside dimensions L × W × H, approx. mm

 $600\times400\times180$ 

 $600\times400\times250$ 

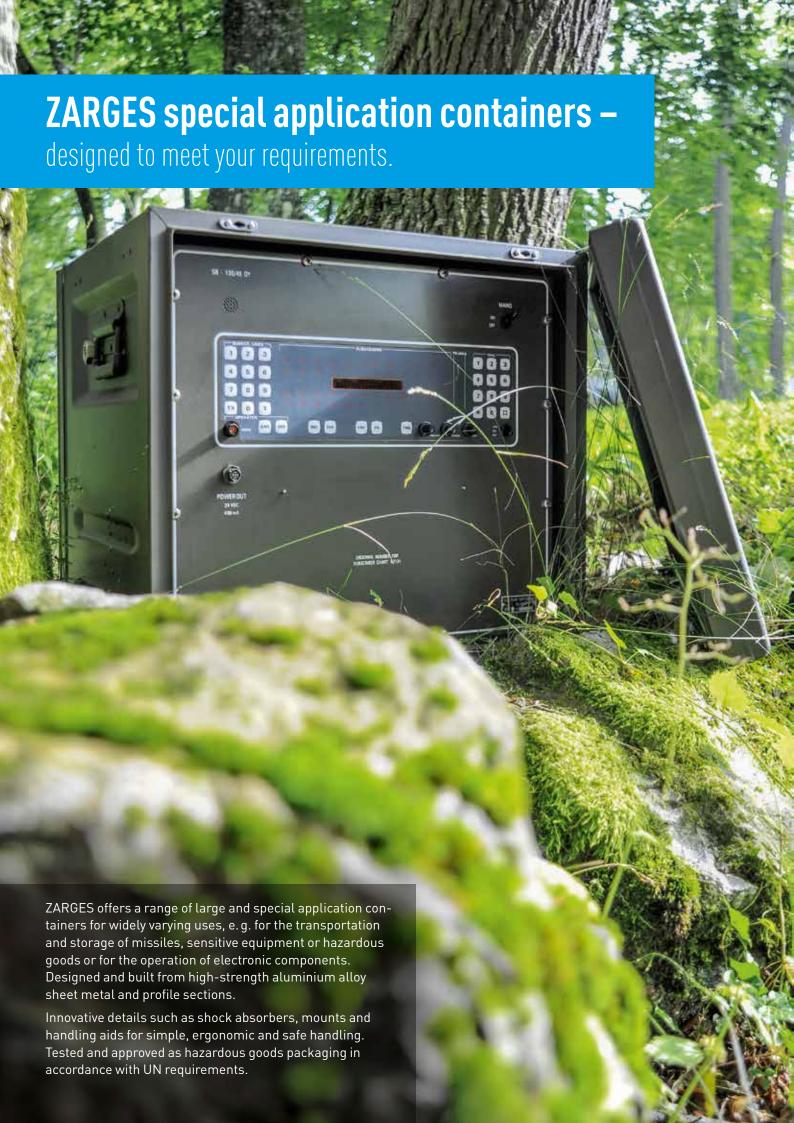
600 × 400 × 410



#### K 470 Plus outside dimensions: 800 mm × 600 mm

Description	Inside dimensions L × W × H, approx. mm	Outside dimensions L × W × H, approx. mm	Volume, approx. l	Weight, approx. kg	Order No.
Bottom section	750 × 550 × 150	800 × 600 × 180	62	4.8	40503
Bottom section	750 × 550 × 220	800 × 600 × 250	91	5.5	40504
Top section Total height 530 and 600 mm respectively	750 × 550 × 380	800 × 600 × 410	157	8.6	40505
Top section Total height 730 and 800 mm respectively	750 × 550 × 580	800 × 600 × 610	240	10.5	40506

Delivery without content. 47





The K 473 range is particularly suitable for high payloads, e.g. heavy machinery, engines or equipment. It thus extends the comprehensive K 470 by adding an even sturdier alternative and protects heavy equipment even under the toughest transport and environmental conditions. The use of aluminium means an optimum combination of low weight and a high degree of protection.

- Robust design, particularly suitable for high payloads.
- Removable lid with seal.
- Sturdy, generously dimensioned edge and base profile sections, high-strength positive jointing ensures permanent bonding between jacket and base metal.
- Beading all round and corner beads for additional dimensional stability.
- ZARGES Comfort handles for ergonomic handling and loads of up to 50 kg.
- Equipped with the durable ZARGES Comfort fasteners.
- Can be secured with a plug lock, lead seals, catch spring retention (anti-opening feature) or padlock (max. shackle thickness 6 mm).
- Clearance dimensions = inside dimension, no limitation through upper edge profile section.
- Customer-specific solutions on request.

#### Optional special equipment:

- Stacking corners: Cases with and without pallet substructure can be stacked.
- Aluminium pallet substructure.
- Version with protection against water jets to class IP 65 (only with removable lid).
- Hinged lid, two straps and foamed peripheral lid seal (ingress protection IP 54).
- Pressure relief valve and humidity indicator.
- Approval for the transportation of hazardous goods.
- All paint finishes according to RAL register available.



Pallet substructure with corner feet



Optional removable castors



Pallet substructure with skids





Transport and storage containers in the K 475 series are reusable packaging solutions made to the highest standards.

They are designed as water-vapour-proof protective packaging for sensitive equipment. The containers are available in standard sizes, tested to VG 95 613, or in special sizes based on individual requirements.

K 475 reusable containers are available with special foam fittings, holders and other accessories on request.

- Water-vapour-tight, stackable special reusable packaging of corrosion-resistant aluminium.
- Seal-welded container, protection class IP 67.
- Stackable, with sturdy stacking corners on base and lid.
- Removable lid with all-round seal.
- Self-locking spring fasteners.
- Ergonomic heavy-duty sprung drop handles.
- Pressure relief valve and humidity indicator as standard.



#### Note:

Transport and storage container K 475 for the transport of hazardous goods\* available at an additional charge. Details on request!

\*Tested: composite packaging UN 4B.



ZARGES Comfort fastener with catch spring retention (anti-opening feature)





See No.	Inside dimensions L × W × H, approx. mm	Outside dimensions L × W × H, approx. mm	Volume, approx. l	Weight, approx. kg	Order No.
1	360 × 360 × 265	400 × 400 × 300	34	5.5	45133
-	460 × 460 × 365	500 × 500 × 400	77	8.2	45135
2	560 × 360 × 365	600 × 400 × 400	74	7.8	45138
3	760 × 360 × 265	800 × 400 × 300	73	10.7	45141
4	760 × 560 × 460	800 × 600 × 500	196	16.8	45145

#### K 475 special equipment

The perfect solution for any application – examples of special equipment.

- Manometer.
- VA coupling for filling with inert gas.
- Foam linings.
- Foam inserts to individual requirements.
- RFI gasket.
- Dessicant compartment.
- Dessicant cartridges.
- Pallet substructure.
- Document compartment.



Document compartment



VA coupling for filling with inert gas



K 475, Order No. 45135 approved for hazardous goods transport and with visual anti-twist protection to lid



Colour-anodised aluminium

#### Water-vapour-proof bulk containers

Water-vapour-proof hood-type container.

- These special application containers are used for the transportation and packaging of large and heavy items of equipment.
- The equipment can be operated on the bottom section with the hood cover removed. The containers can be equipped with foam inserts or vibration-damping platforms.
- See Special solutions, page 306.



Moisture-proof special design, IP 67



Platform with damping elements





Hardwood side protection profiles



Lid with swing-type hinge

Collapsible reusable packaging in aluminium alloy.

- Can be collapsed quickly and easily by one person.
- Simple handling due to interlocking profiles with connection locking device on the floor pan and side parts.
- Side protection profiles.
- High degree of stability due to three sets of profiles in the outside walls.
- Folding ratio 1:3.
- Lid securely fastened to rear wall by swing-type hinge.
- End-walls and lid with additional, externally mounted stiffening profiles.
- Self-locking fasteners, suitable for lead seals and/or locking with a shackle lock.
- Stacking corners.
- Suitable for use on roller conveyors.
- 15 mm free space when collapsed (e.g. for interior fittings).



#### Note:

Order No. 45070: Long front wall folds down, loading also possible from the front Order No. 45073: Flat wooden pallet as standard equipment

See No.	Inside dimensions L × W × H, approx. mm	Outside dimensions L × W × H, approx. mm	Size when folded H, approx. mm	Volume, approx. l	Weight, approx. kg	Order No.
1	730 × 530 × 570	800 × 600 × 600	145	221	21.0	45070
2	1,130 × 730 × 740	1,200 × 800 × 900	287	610	62.0	45073



Mitraset® 19" housings are designed to hold electronic equipment in a 19"-frame.

They protect the equipment against a wide range of influences: Against mechanical loads such as shock, impact and vibration, electromagnetic interference such as radio waves, lightning and general environmental influences such as heat, moisture and dust.

In order to meet these requirements, Mitraset  $^{\rm @}$  19  $^{\rm ''}$  housings are designed as follows:

The casing is made from precision-welded high-strength aluminium sheets and profiles to which an elastically suspended anti-vibration frame made of extruded sections is fitted. The equipment to be protected is inserted in this frame and screwed in position. The anti-vibration frame is connected to the casing via rails and rubber shock mounts, whereby the material and type of mount are selected in accordance with the application in question.

#### A new product in the ZARGES 19" housing range is the Mitraset® Racklite.

- The new rubber elements on the corners of the housing significantly increases the protective effect, as evidenced by drop tests.
- The use of ZARGES Comfort fasteners with snap locking gives you more flexibility for adaptation to suit your specific needs.
- Consistent use of lightweight materials produces a weight saving compared with the Mitraset® Classic.
- Housing equipped with ergonomically shaped ZARGES Comfort handles.
- The Mitraset® Racklite is also available without rubber corners, for applications in confined spaces.





Mitraset® Classic, also available with approval for transportation of hazardous goods



Mitraset® Racklite (bottom), Mitraset® Classic



Mitraset® Racklite: Stackable via new rubber elements

## ZARGES Eurobox –

the case with the distinctive blue corners.



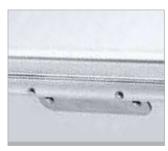
But only the original from ZARGES offers the important differences.



(1) With foam seal all round. Protected against wear, overloading and squashing.



(2) Sealing function also included in the corner areas.



(3) Stainless steel hinges riveted into the sheet metal jacket and lid full-profile section.



(4) Stacking corners made from impact-resistant plastic.



(5) Two heavy duty lid holding straps. Sealed at the ends to prevent fraying. Will not be torn out under heavy loads. Attached with special rivets (with extralarge heads).

The Eurobox is available

in 10 standard sizes.



Drop handles with return spring (stainless steel) and plastic sheathing, ergonomic, heavy-duty.



(7) All riveted joints with full rivets.



Depending on size, corner beading for added stability.



Aluminium/stainless steel snap fastener/hook. Corrosion-resistant, can be fitted with lead seal, plug lock, shackle thickness 6 mm and catch spring retention (anti-opening feature).



(10) Edge, base, lid profilesection frame made from full profile sections, joints fully welded.

#### Tailored to your needs – more variety in Comfort fasteners.

The ZARGES Comfort fasteners can be equipped with a mortise lock or with catch spring retention (anti-opening feature). They can also be secured with a shackle lock or lead seal.



Fastener with plug lock



Fastener with catch spring retention (anti-opening feature) and plug lock



Fastener with spring antiopening feature



Fastener with clip and shackle lock





Ergonomic ZARGES Comfort handle for loads of up to  $50\ kg$ 



ZARGES Comfort fastener with extremely long service life

The sturdy and lightweight transportation and storage solution with distinctive blue corners and a comprehensive range of accessories.

- Sturdy aluminium universal box.
- Peripheral foamed seal in the lid for protection against dust and splashwater.
- Fitted with two sturdy lid holding straps.
- Stacking corners made from impact-resistant plastic ensure safe stacking.
- Edge, lid and base profile frames made of fully welded aluminium sections for high stability.
- Corner beads for additional dimensional stability.
- ZARGES Comfort fastener for ergonomic operation.
- Can be secured with a plug lock, lead seals or a padlock (max. shackle thickness 6 mm).
- Fasteners can be retrofitted with catch spring retention (anti-opening feature).
- ZARGES Comfort handles for ergonomic handling and loads of up to 50 kg.
- High degree of resistance to corrosion thanks to stainless steel fittings.

See No.	Inside dimensions L × W × H, approx. mm	Outside dimensions L × W × H, approx. mm	Volume, approx. l	Weight, approx. kg	Order No.
1	350 × 250 × 310	400 × 300 × 340	27	3.0	40700
2	550 × 350 × 220	925 × 400 × 250	42	4.7	40701
3	550 × 350 × 310	600 × 400 × 340	60	4.9	40702
4	550 × 350 × 380	600 × 400 × 410	73	5.2	40703
5	640 × 230 × 280	690 × 280 × 310	41	4.5	40711
6	750 × 350 × 310	800 × 400 × 340	81	6.1	40704
7	750 × 550 × 380	800 × 600 × 410	157	7.5	40705
8	750 × 550 × 580	800 × 600 × 610	239	8.9	40706
9	1,150 × 750 × 480	1,200 × 800 × 510	414	13.0	40709
10	1,150 × 250 × 220	1,200 × 300 × 250	63	6.3	40710

#### **Eurobox interior fittings**

#### Attaché insert

A practical folder for documents and stationery, it is made of hard-wearing fabric and is easily fitted due to its self-adhesive design.

Dimensions L × W × H, approx. mm	Fits inside dimensions from L × W, approx. mm	Order No.
430 × 290 × 20	550 × 350	40626



#### Tool bag

A portable, detachable storage bag for tools. Made from hard-wearing fabric. Installed with 2-piece hollow rivets.

Dimensions L × W × H, approx. mm	Fits inside dimensions L × W, approx. mm	Order No.
430 × 260 × 40	550 × 350	40627



#### Tool bag, self-adhesive

Removable, convenient tool bag made from robust fabric. Easy installation without drilling using an adapter part. Also fits cases with protection classes IP 65 and IP 67.

Dimensions L × W × H, approx. mm	Fits dimensions L × W, approx. mm	Order No.
430 × 260 × 60	550 × 350	40630



**NEW** 

#### Divider panel system

The individual organisation system for large items, made of high-quality foam, for fitting by the customer.

Including base foam and nubbly foam in the lid.

Dimensions L × W × H, approx. mm	Fits inside dimensions L × W, approx. mm	Order No.
550 × 350 × 190	550 × 350	40730



#### Adjustable aluminium divider set

Consisting of a divider panel with 2 notched bars. For even better organisation.

Dimensions W × H, approx. mm	Fits	Order No.
346 × 215	40701	40864
346 × 305	40702-40704	40865



#### Box for small components

The organising system for small parts for fitting by the customer. With 21 divider inserts made from PP.

Fits	Order No.
40701-40704	40628









#### Foam lining

On request, all Euroboxes can be equipped with a durable, abrasion-proof PE-foam lining:

Base and wall sections made from Plastazote LD 45 (specific gravity 45 kg/m³, thickness 11 mm), lid with PU nubbly foam. Other materials and wall thicknesses on request.





Fits	Inside dimensions L × W × H, approx. mm	Order No.
40700	350 × 250 × 310	43861
40701	550 × 350 × 220	43863
40702	550 × 350 × 310	43864
40703	550 × 350 × 380	43865
40704	750 × 350 × 310	43876
40705	750 × 550 × 380	43877
40706	750 × 550 × 580	43878
40710	1,150 × 250 × 220	43883
40709	1,150 × 750 × 480	43884



#### Pick 'n Pluck foam

 $\label{pre-cut} \mbox{Pre-cut flexible-foam inserts made from open-cell PU foam.}$ The fast and simple solution for single items or small batches. Shape can be changed without tools.

Two different sheet thicknesses in the set. Lid insert nubbly foam 30 mm, base foam 10 mm.

Lid insert in self-adhesive design.





Fits	Inside dimensions L × W × H, approx. mm	Order No.
40701	550 × 350 × 220	40735
40702, 40703	550 × 350 × 380	43854
40704	750 × 350 × 310	43855
40705	750 × 550 × 380	43856
40710	1,150 × 250 × 220	40737

#### **Eurobox mobility**

Designation	Order No.
2 fixed castors each with a clamping mechanism 1 × left and 1 × right.	40741
2 swivel castors each with clamping mechanism 1 × left and 1 × right.	40742

#### Clip-on castors

Mobility for all models from inside dimensions 550 mm  $\times$  350 mm upwards. Can be fitted without the use of tools. Made of solid rubber,  $\varnothing$  100 mm, swivel castors fitted with wheel brakes. Load capacity 100 kg on 4 castors.



Order No.	
40738	

#### Add-on castors

2 castors made from high-quality polyamide.
Simple assembly.
Load capacity 50 kg/set.
Ideal for boxes with an outside length of 800 mm-1,000 mm.
Delivery includes the required mounting

equipment and assembly instructions.



Order N	0.
40739	

#### Note:

The supplementary kit 40740 allows you to use the trolley with other cases.

#### **Trolley**

Telescopic trolley.
For easy fitting by the customer.
Pull-out and lockable handle.
Trolley can be removed without the use of tools.

Ideal for boxes with an outside length of 500 mm-800 mm.

Easy-running running gear,  $\varnothing$  54 mm. Load capacity 30 kg.



Order No.	
40740	

#### Supplementary kit for trolleys

Supplementary kit allows you to use the trolley with other cases.



Fits outside dimensions L × W, approx. mm	Order No.
600 × 400 and 580 × 380	40607
800 × 600 and 760 × 580	40608

#### W 150 dolly trolley

Aluminium chassis, low version. Chassis: 2 swivel and 2 fixed castors, Ø 125 mm, 40 m wide, easy running, rubber wheels, "non-marking", roller bearings, thread guards. Load capacity 150 kg.



Fits outside dimensions L × W, approx. mm	Order No.
760 × 580	40680

#### W 152 dolly trolley

Aluminium chassis, high version. H = 450 mm.

Chassis: 2 swivel and 2 fixed castors, corner-mounted,  $\varnothing$  125 mm, 40 mm wide, easy running, rubber wheels, "nonmarking", roller bearings, thread guards. Load capacity 150 kg.





#### Shackle lock

Shackle lock with 3-digit, freely selectable number combination. Shackle diameter 5 mm.

Fits	Order No.
All ZARGES cases	46989



#### TSA shackle lock

Shackle lock with 3-digit, freely selectable number combination. The shackle lock can be opened by American TSA staff without it being damaged.

Fits	Order No.	
All ZARGES cases	46789	



#### Lock set

For all cases designed to be equipped with locks in snap fasteners. Consisting of 2 locks and 2 keys.

Description	Order No.
Only simultaneously closing as a set	40832
Complete series of identical locks	40833



#### Spring anti-opening feature

For all cases with Comfort fastener. Prevents the fasteners accidentally springing open.

Order No.
40834



#### Adhesive label for delivery notes

Fixed position for shipping labels. Self-adhesive design. Easy to clean.

Dimensions L × W, approx. mm	Order No.	
280 × 280	343904	



#### **Anchoring cable**

Prevents the locked Eurobox being carried away. Quick securing on construction sites or inside vehicles. The cable can only be released when the lid is open.

Plastic-sheathed stainless steel cable, diameter 8 mm, 10 mm including sheathing. Length 1.20 m. One end of the cable equipped with a loop. Fits all Euroboxes.

Assembly	Order No.
Through ZARGES	375891
Self-mounting	41838

#### **Eurobox accessories**

Designation	Inside dimensions, L × W, approx. in mm			Order No.				
	350 × 250	550 × 350	640 × 230	750 × 350	750 × 550	1,150 × 250	1,150 × 750	
Attaché insert	-	1	-	1	1	-	1	40626
Tool bag	-	1	-	1	1	-	1	40627, 40630
Box for small components	-	1	-	1	-	-	-	40628
Divider panel system	-	1	-	-	-	-	-	40730
Pick 'n' Pluck foam set 1	<b>✓</b> 1]	1	-	-	-	-	-	40735
Pick 'n' Pluck foam set 2	-	-	-	<b>✓</b> 1]	1	-	-	40736
Pick 'n' Pluck foam set 3	-	-	-	-	-	1	-	40737
Adjustable aluminium divider set 1	-	1	-	1	-	-	-	40864
Adjustable aluminium divider set 2	-	1	-	1	-	-	-	40865
Adjustable aluminium divider set 3	-	-	-	-	-	-	-	40866
W 150 dolly trolley	-	1	-	-	-	-	-	40607
W 150 dolly trolley	-	-	-	-	1	-	-	40608
W 152 dolly trolley	-	-	-	-	1	-	-	40680
Add-on castors	-	-	-	1	1	1	-	40738
Trolley	-	1	-	1	-	-	-	40739
Clip-on fixed castors	-	1	-	1	1	-	1	40741
Clip-on swivel castors	-	1	-	1	1	-	1	40742
Lock set, only identical locks in one set	1	1	1	1	1	1	1	40832
Lock set, complete series of identical locks	1	1	1	1	1	1	1	40833
Spring anti-opening feature	1	1	1	1	1	1	1	40834
TSA shackle lock	1	1	1	1	1	1	1	46789
Shackle lock	1	1	1	1	1	1	1	46989

<sup>1)</sup> Must be cut to size



40626 Attaché insert



40627 Tool bag



40630 Tool bag, self-adhesive



**41820** Lid bag



40730 Divider panel system



40735-40737 Pick 'n Pluck foam set



40864-40866 Adjustable aluminium divider set



40680 W 152 dolly trolley



40738 Add-on castors



40739 Trolley



**40741, 40742** Clip-on castors



40832, 40833 Lock set



**40834** Spring anti-opening feature

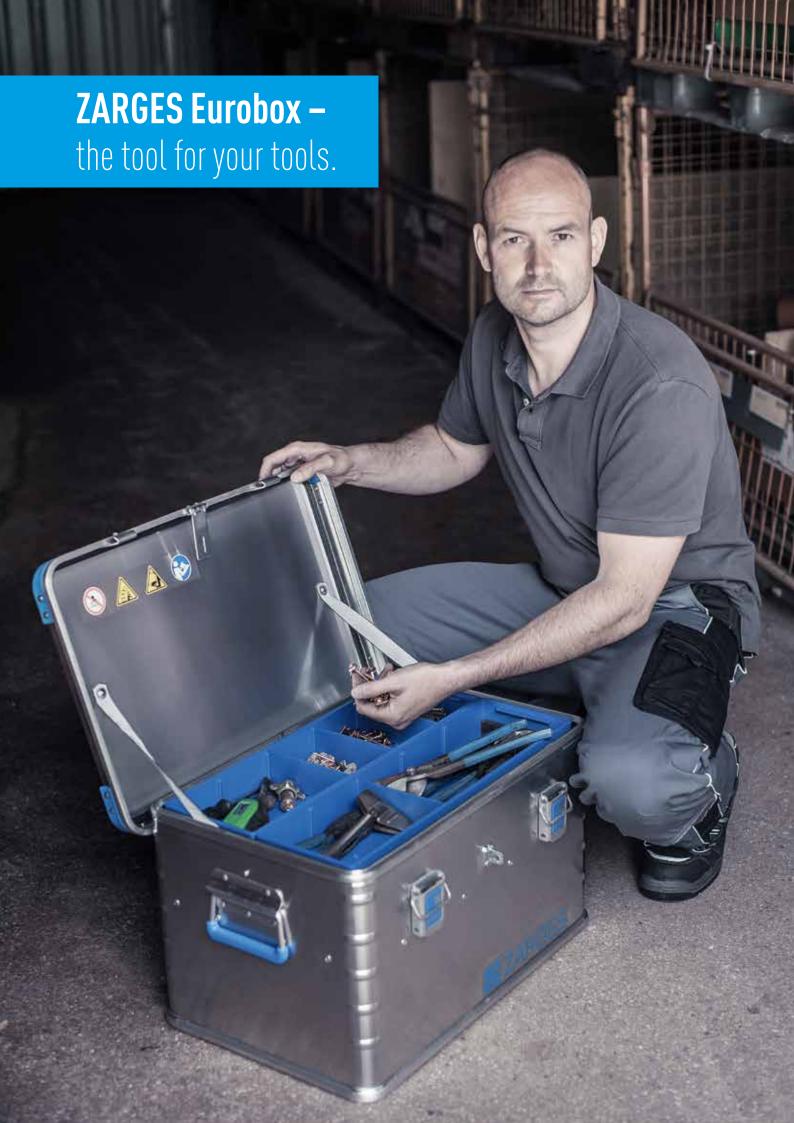


46789 TSA shackle lock

#### **Possible combinations**

Order No.		40626	40627	40628	40730	40735, 40736	40864, 40865, 40866
	Description	Attaché insert	Tool bag	Box for small compo- nents	Divider panel system	Pick 'n Pluck foam set	Aluminium divider set
40626	Attaché insert	-	-	-	<b>√</b>	✓	-
40627	Tool bag	-	-	-	1	✓	-
41820, 41821	Lid bag	-	-	-	1	✓	✓
40730	Divider panel system	✓	1	1	-	-	-
40735, 40736	Pick 'n Pluck foam set	✓	1	1	-	-	-
40864, 40865, 40866	Aluminium divider set	-	-	-	-	-	-

Note: Combinations depend on the case heights. In some cases, it may be necessary, e. g. to shorten parts of the adjustable divider panel system or to leave out a layer of the Pick 'n Pluck foam set.



#### Eurobox as toolbox



The sturdy and lightweight transportation and storage solution with distinctive blue corners, but here as a toolbox, additionally equipped with:

- Aluminium corners inside for plastic inserts (Order No. 40624/40625).
- Armoured closing clasps for shackle lock (up to 8 mm shackle thickness).
- Fitted with two sturdy lid holding straps.
- Snap fasteners. Can be secured with a plug lock, lead seals, catch spring retention (anti-opening feature) or a padlock (max. shackle thickness 6 mm).
- Ergonomic heavy-duty sprung drop handles.
- Matched to pallet dimensions according to DIN 15 141.

See No.	Inside dimensions L × W × H, approx. mm	Outside dimensions L × B × H, approx. mm	Volume, approx. l	Weight, approx. kg	Order No.
1	550 × 350 × 310	600 × 400 × 340	60	5.5	40707
2	750 × 350 × 310	800 × 400 × 340	81	6.7	40708

Note:

Clearance dimensions approx. 30 mm less than inside dimensions.







#### Possible combinations

Plastic insert 40625	Plastic insert 40624	Fits closed
4 ×	-	40707
2 ×	3 ×	40707
-	6 ×	40707
-	4 ×	40708
2 ×	1 ×	40708

#### **Accessories**

Designation	L × W × H, approx. mm	Order No.
Plastic insert	315 × 170 × 60	40624
Plastic insert	515 × 155 × 60	40625

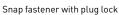


The safe and economical transport and storage solution with compact design.

- Aluminium universal case.
- Lid with stainless-steel hinges and foamed seal all round.
- Self-locking lid.
- Deep-drawn lid without stacking corners.
- Edge, lid and base profile frames made of solid profile sections.
- Profile-section joints fully welded.
- Corner beads for additional dimensional stability.
- Snap fasteners with plug locks.
- Can be secured with lead seals or a padlock (max. shackle thickness 6 mm).
- Clearance dimension approx. 30 mm less than inside dimension.









Corner bead



Smooth lid without stacking corners

See No.	Inside dimensions L × W × H, approx. mm	Outside dimensions L × W × H, approx. mm	Designation	Volume, approx. l	Weight, approx. kg	Order No.
1	450 × 290 × 180	500 × 340 × 200	Mini-Box XS	24	3.1	40860
2	550 × 350 × 220	600 × 400 × 240	Mini-Box	42	4.0	40861
3	550 × 350 × 310	600 × 400 × 330	Mini-Box Plus	60	4.5	40877
4	750 × 350 × 310	800 × 400 × 330	Midi-Box	81	5.5	40862
5	850 × 450 × 350	900 × 500 × 370	Maxi-Box	135	6.9	40863

#### **ZARGES** box interior fittings

Fits	Dimensions L × W × H, approx. mm	Order No.
40861-40863, 40877	430 × 330 × 60	40628

#### Box for small components

The organising system for small parts for fitting by the customer.

With 21 divider inserts made from PP.



Fits	Dimensions L × W, approx. mm	Order No.
40861-40863, 40877	430 × 290	40626

#### Attaché insert

A practical folder for documents and stationery, it is made of hard-wearing fabric and is easily fitted due to its self-adhesive design.



Fits	Dimensions L × W, approx. mm	Order No.
40861-40863, 40877	435 × 290	40627

#### Tool bag

A portable, detachable storage bag for tools. It is made of hard-wearing fabric and is for fitting by the customer.



Fits	Dimensions L×W H, approx. mm	Order No.
40861, 40877	550 × 350 × 190	40730

#### Divider panel system

The individual organisation system for large items, made of high-quality foam, for fitting by the customer. Including base foam and self-adhesive nubbly foam in the lid.



Fits	Dimensions W × H, approx. mm	Order No.
40861	346 × 215	40864
40877, 40862	346 × 305	40865
40863	446 × 345	40866

#### Adjustable aluminium divider set

Consisting of an aluminium divider panel with 2 notched bars for even better organisation.



Fits	Dimensions L×W H, approx. mm	Order No.
40861	550 × 350 × 220	40735
40877	550 × 350 × 380	43854
40862	750 × 350 × 310	43855

#### Pick 'n Pluck foam set

Pre-cut flexible-foam inserts made from open-cell PU foam.

The fast and simple solution for single items or small batches.

Shape can be changed without tools. Two sheet thicknesses in the set, lid insert nubbly foam 30 mm, base foam 10 mm.

Lid insert in self-adhesive design.







#### Foam lining

Universal protection for sensitive objects. Durable, abrasion-resistant lining made from PE foam.

Base and wall sections made from Plastazote LD 45 (specific gravity 45 kg/m³, thickness 11 mm). Lid foam made from PU nubbly foam. Self-adhesive design.

Fits	Inside dimensions L × W × H, approx. mm	Order No.
40861	550 × 350 × 220	43863
40877	550 × 350 × 380	43864
40862	750 × 350 × 310	43876

#### **ZARGES** box mobility



#### Add-on castors

2 castors made from high-quality polyamide,

Ø 75 mm. Simple assembly. Load capacity 50 kg/set. Ideal for boxes with an outside length of 800 mm-1,000 mm. Delivery includes the required mounting equipment and assembly instructions.

Fits	Order No.
All ZARGES boxes	40738



#### Clip-on castors

Mobility for all models from inside dimensions 550 mm × 350 mm upwards. Can be fitted without the use of tools. Made of solid rubber,  $\emptyset$  100 mm, swivel castors fitted with wheel brakes. Load capacity up to 100 kg on 4 castors.

Description	Order No.
Set of fixed castors	40741
Set of swivel castors	40742





#### **Trolley**

Telescopic trolley. For easy fitting by the customer. Pull-out and lockable handle. Ideal for boxes with an outside length of 600 mm-800 mm. Easy-running gear,  $\emptyset$  54 mm. Load capacity 30 kg. Trolley can be removed at any time without the use of

Description	Fits	Order No.
Trolley	40861, 40862, 40877	40739
Supplementary kit	40739	40740



#### Supplementary kit for trolleys

Supplementary set enables the trolley to be used with other boxes/cases.

Order No.	
40740	

#### **K 405 Transport Box**



Lightweight and safe: the storage box with an unusual form.

- Tightly hinged-on lid.
- Robust corner joints and aluminium corner reinforcements.
- Beading for increased stability.
- Turnbuckles with catch spring retention (anti-opening feature), lockable with two keys.
- Ergonomic heavy-duty sprung drop handles.
- Can be placed one inside the other when empty for space-saving storage.

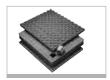


Optional Pick'n Pluck foam set

See No.	Inside dimensions L × W × H, approx. mm	Outside dimensions L × W × H, approx. mm	Volume, approx. l	Weight, approx. kg	Order No.
1	480 × 350 × 250	490 × 380 × 255	42	2.6	43815
2	550 × 400 × 300	560 × 430 × 305	66	3.5	43816
3	670 × 460 × 400	680 × 490 × 405	123	4.8	43817

#### **Accessories**

Designation	Order No.
Pick'n Pluck foam set (for Order No. 43815)	43845
Pick'n Pluck foam set (for Order No. 43816)	43846
Pick'n Pluck foam set (for Order No. 43817)	43847



Accessory: pre-cut soft PU foam inlay.

Fits Order No. 43815, Order No.: 43845

Sheet thicknesses in the set: 2 sheets each of 30 mm and 3 sheets of 50 mm.

Based foam PU approx. 10 mm; nubbly foam insert in the lid 25 mm.

Fits Order No. 43816, Order No.: 43846

Sheet thicknesses in the set: 2 sheets each of 30 mm and 4 sheets of 50 mm.

Based foam PU approx. 10 mm; nubbly foam insert in the lid 25 mm.

Fits Order No. 43817, Order No.: 43847

Sheet thicknesses in the set: 2 sheets each of 30 mm and 6 sheets of 50 mm.

Based foam PU approx. 10 mm; nubbly foam insert in the lid 25 mm.











The legendary quality of ZARGES containers is now also available for cases! The ZARGES K 411 case combines an elegant design with robustness and an extremely long service life perfect for protecting important items.

- An elegant and attractive look, the exclusive ZARGES style.
- Scratch-resistant surfaces made of high-quality anodised aluminium and innovative plastic shell, mean the case looks as good as new even after years of use.
- Durable, offering years of service due to sturdy design and practical weight.
- Elements of thermoplastic elastomer protect sensitive surfaces from scratching.
- Easy to operate combination locks and fasteners with integrated spring antiopening feature.
- Peripheral seal to protect against dust and splashwater.
- Wide range of uses and a large assortment of practical accessories.
- Interior with customised foam inserts available on request.
- Attractive lining with practical insert for documents and small items.





#### Technical data for K 411 ZARGES Case

See No.	Inside dimensions L × W × H, approx. mm	Outside dimensions L × W × H, approx. mm	Volume, approx. l	Weight, approx. kg	Order No. empty	Weight with lining, approx. kg	Order No. with lining
1	360 x 300 x 50 + 90	375 × 345 × 160	15.1	2.0	41713	2.6	41718
2	420 x 320 x 50 + 80	435 × 365 × 150	17.5	2.3	41714	3.0	41719
3	470 x 350 x 50 + 80	485 × 405 × 150	21.4	2.6	41715	3.5	41720
4	530 x 330 x 50 + 90	545 × 385 × 160	24.5	2.7	41716	3.7	41721
5	650 x 455 x 70 + 120	665 × 510 × 210	56.2	4.4	41717	5.9	41722

#### K 411 ZARGES Case with lining

#### Lining

Order No. 41718-41722



#### Pick 'n Pluck foam

Pre-cut flexible-foam insert made from open-cell PU foam. The fast and simple solution for single items or small batches. Shape can be changed without tools. Set includes two sheet thicknesses, lid insert nubbly foam.

Fits	Inside dimensions Order No. L × W × H, approx. mm	
41713	360 × 300 × 140	41726
41714	420 × 320 × 130	41727
41715	470 × 350 × 130	41728
41716	530 × 330 × 140	41729
41717	650 × 455 × 190	41730



#### K 411 ZARGES Case examples of applications

#### **Presentation case**

High-value goods deserve a high-value brand of case. For making a good impression with the customer.



#### Instrument case

Whether for measuring, testing or calibrating, the ZARGES case is ideal for high-value instruments due to its sturdy construction and design.



#### Custom foam inserts - high-tech for your interior fittings

We manufacture tailor-made foam inserts in a large range of materials to provide perfect protection and functionality geared specifically to the goods you are transporting.





## <u>02</u>

# ZARGES containers, baskets and pallets – solutions for in-company logistics.



Storage and transportation solutions usually have their own very specific and individual requirements. To meet these challenges, in addition to the classic cases and boxes, ZARGES offers further products with a high utility value:

- Containers with and without lids for quick and easy transportation within the company.
- Baskets for open transport, for example in laundry logistics.
- Dolly trolleys for increased mobility.
- Pallets for heavy-duty use, in particular where there are stringent hygiene requirements.

What all these products have in common is their high strength and long service life. All products are made from aluminium, which meets high hygiene requirements and in addition offers consistent stability even where exposed to temperature fluctuations or moisture.



#### K 270 transport container

Robust, stackable, offers optional mobility when combined with a dolly trolley.

More on page 72.



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Grip on the end face



Peripheral beads and corner beads

For protection during storage and safe transportation – whatever the temperature.

- Universal container made from aluminium.
- Edge and base profile frames made of solid profile sections.
- Profile-section joints fully welded.
- Ergonomic grips at either end.
- Can be used on roller conveyors and conveyor belts.
- Coding strips for Destination Guide on request.
- Matched to pallet dimensions according to DIN 15 141.

See No.	Inside dimensions L × W × H, approx. mm	L × W × H, approx. mm	volume approx. l	weight approx. kg	Uraer No.
1	720 × 540 × 400	760 × 580 × 425	155	5.3	40551
2	720 × 540 × 300	760 × 580 × 325	117	4.6	40552
3	720 × 540 × 200	760 × 580 × 225	77	4.2	40553
4	540 × 340 × 300	580 × 380 × 325	55	3.0	40554
5	540 × 340 × 200	580 × 380 × 225	37	2.5	40555



W 150 dolly trolley



Accessories

Designation	Fits outside dimensions L × W, approx. mm	Order No.
W 150 dolly trolley	580 × 380	40607
W 150 dolly trolley	760 × 580	40608
W 152 dolly trolley	760 × 580	40680

#### K 250 basket

Stackable, robust and lightweight solution for universal in-company transport applications.

- Straight-sided design, stackable through robust stacking brackets
- Ergonomic grips at either end.
- Plastic skid bars.

Inside dimensions L × W × H, approx. mm	Outside dimensions L × W × H, approx. mm	Volume approx. l	Weight approx. kg	Order No.
540 × 340 × 280	580 × 380 × 300	52	2.5	40781
700 × 440 × 280	740 × 480 × 300	86	3.5	40782

#### **Accessories**

Designation	Fits	Order No.
W 152 dolly trolley	40781, 40782	40609



# **n**2

#### K 251 basket

Sturdy in-company transport solution, can be stacked one inside the other when empty, thus saving space.

- Tapered design, stackable one inside the other.
- Ergonomic grips at either end.
- Plastic skid bars.

	nensions prox. mm	Outside dimensions L × W, approx. mm	Height approx. mm	Volume approx. l	Weight approx. kg	Order No.
700 > bott	p: < 445 :om: < 375	top: 740 × 485 bottom: 640 × 380	280	89	3.0	40783



#### Recyclables container, anodised

Hygienic, elegant solution for inner-company waste collection.

- Sturdy edge and base profile.
- Smooth side walls.
- Stackable.

Inside dimensions L × W × H, approx. mm	Volume approx. l	Weight approx. kg	Order No.
$300 \times 264 \times 500$	39	2.6	46084
$300 \times 300 \times 500$	45	3.5	40747

#### **Accessories**

Designation	Order No.
Anodised separate aluminium alloy lid, fits 40747.	40757







#### Aluminium flat pallet with corner feet



Lightweight, hygienic pallet solution with a smooth, easy-clean surface, for use in all temperature zones.

- Frame and longitudinal members made of sealed, heavy-duty, corrosion-resistant aluminium sections.
- 4 corner feet.
- Seams welded watertight.

Dimensions L × W × H, approx. mm	Number of rungs	Weight approx. kg	Load capacity kg	Order No.
800 × 600 × 150	3	7.4	600	45162
1,200 × 800 × 150	4	11.2	600	45172
1,200 × 1,000 × 150	5	12.8	600	45182

#### Aluminium flat pallet with long corner feet

Hygienic pallet, sturdy and suitable for use on roller conveyors.

- Frame and longitudinal members made of sealed, heavy-duty, corrosion-resistant aluminium sections.
- Extra long corner feet (L = 300 mm) combine the advantages of skid untercarriage and corner feet. They are, e. g. suitable for roller conveyors and high bay warehouses.
- Plenty of space to accommodate the forklift arm. No full-length skid to get in the way, hence less risk of damage.
- Seams welded watertight.







#### Aluminium flat pallet with skids

Hygienic pallet solution with smooth, easy-clean surface and skids for use in high bay warehouses.

- Frame and crossmembers made of sealed, heavy-duty, corrosion-resistant aluminium sections.
- Skids with central support.
- Seams welded watertight.
- Suitable for use on roller conveyors.

Dimensions L × W × H, approx. mm	Number of rungs	Weight approx. kg	Load capacity kg	Order No.
1,200 × 800 × 150	5	10.8	1000	45173
1,200 × 1,000 × 150	5	12.4	1000	45183



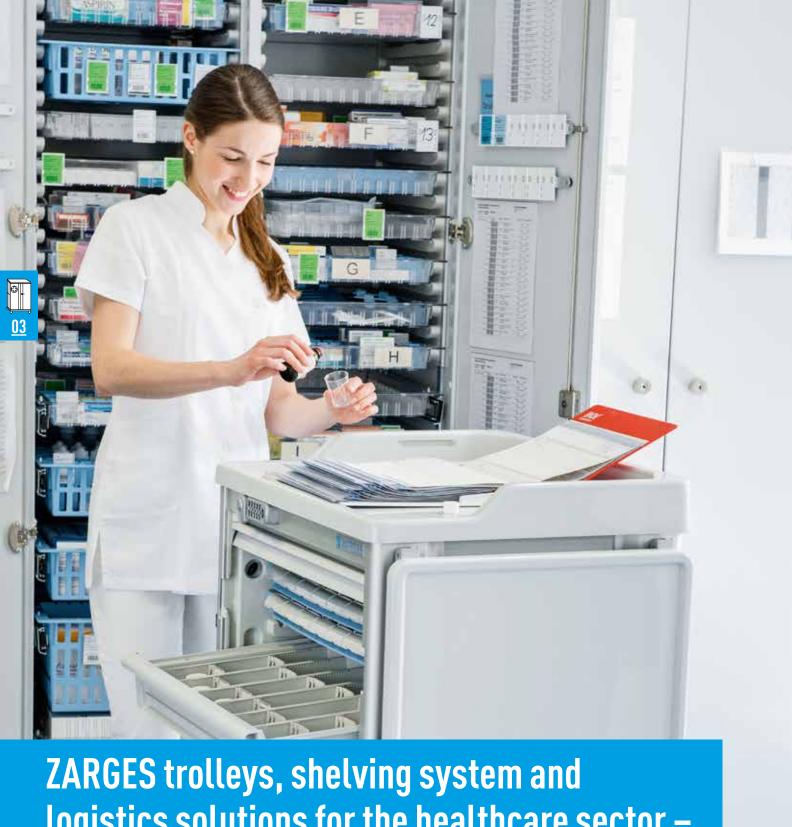
#### Aluminium flat pallet with skids and corner feet

Aluminium pallet with skids, suitable for use on roller conveyors, for heavy loads in clean room applications.

- Frame and crossmembers made of sealed, heavy-duty, corrosion-resistant aluminium sections.
- Skids with central support and 4 corner feet.
- Seams welded watertight.
- Suitable for use on roller conveyors.

Dimensions L×W×H, approx. mm	Number of rungs	Weight approx. kg	Load capacity kg	Order No.
1,200 × 800 × 150	6	13.2	1500	45174
1,200 × 1,000 × 150	6	15.0	1500	45184





logistics solutions for the healthcare sector clever concepts for your logistics tasks.



# TROLLEYS, SHELVING SYSTEM, LOGISTICS SOLUTIONS



# ZARGES trolleys, shelving system and logistics solutions for the healthcare sector – structuring complex workflows.

The ZARGES product offering ranges from modular storage cupboards to shelving right through to complete systems for transporting laundry or materials, for supply and disposal. All systems are coordinated and of modular design, ensuring that the elements of logistics systems dovetail perfectly.

ZARGES has many decades of experience and knows exactly what matters when it comes to in-company logistics. That's why planning and consultancy services are an integral part of our offering. From a comprehensive initial analysis right through to the training of personnel. Because only detailed planning, precise implementation and optimum deployment will boost efficiency lastingly and thus optimise costs.



#### W 105 N cupboard trolley

Functional transport and storage trolley for a wide range of applications.

More from page 78.



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# ZARGES W 105 N cupboard trolley -

ergonomics and comfort made to measure.





Perfectly equipped for a hard day's work.

ZARGES aluminium trolleys are indispensable helpers for transportation and storage.

## Top quality is always a question of details.

The multifunctional trolley for protected, safe and hygienic storage and rational transport of tools, laundry, food and many other items. The target groups here include hospitals, clinics, laundries, industry, the catering trade, public authorities etc.

A stable body made of anodised aluminium, peripheral frame made of solid profile sections, ergonomic sliding handles, doors that open wide with integrated seal and central locking, smooth running on asymmetrically arranged castors with rubber tyres, a wide range of equipment and functional accessories make the ZARGES cupboard trolley the solution of choice for internal and external transport and storage problems.















1 Trolley top.

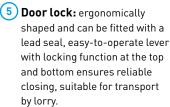
Equipped with a front bumper as standard, bumper can be added at the back if required, suitable for transport by lorry.

2 The **peripheral door seal** between the body and the door leaves is suitable for cleaning in washdown facilities and provides protection against dust.

3 Sliding handle made from ergonomically shaped aluminium profile.

4 Substructure: phosphated and powder-coated, stable torsional tube made of steel.







6 **Bumper:** with abrasionand disinfectant-resistant plastic padding, easy to replace.



7 Chassis: 2 swivel and 2 fixed castors, corner-mounted, easy running, rubber wheels, "non-marking," roller bearings, thread guards.



8 Smooth interior.
Inside dimensions
correspond to clearance
dimension. Easy to clean.

#### Universal cupboard trolley W 105 N





Practical transport and storage trolley, e.g. for fresh laundry, dirty washing and many other items.

- Aluminium cupboard trolley, anodised, for a wide variety of applications.
- Open body on one side with peripheral profile-section frame.
- Corner connection via corner pieces made from cast aluminium.
- Smooth interior; no undercuts/no inaccessible areas when used in washdown facility (inside dimension corresponds to clearance dimension).
- Integrated peripheral door seal in the profile-section frame, for high noise damping and protection against dust.
- Two doors, foldable 270° parallel to the end faces, open doors secured by magnetic catch
- Door leaves 2.5 mm thick, with continuous profile hinges.
- Central locking with easy-to-operate lever ensuring reliable closing at top and bottom.
- Doors will not spring open during transport by lorry.
- Ergonomically shaped handle of anodised aluminium section on the swivel-castor side.
- All-round bumper frame with abrasion- and disinfectantresistant plastic padding at the bottom;
- Bumper at the top, around the front and sides, with abrasionand disinfectant-resistant plastic padding;
- Chassis: 2 swivel and 2 fixed castors, corner-mounted, Ø 200 mm, 50 mm wide, easy running, rubber wheels, "non-marking", roller bearings, thread guards.
- Also suitable for container washdown facilities if suitable special running-gear castors are used.





#### W 105 N modular cupboard trolley

Part of the ZARGES modular system, to help deliver a seamless storage and distribution solution.

- Aluminium cupboard trolley, anodised, for a wide variety of applications.
- Open body on one side with peripheral profile-section frame.
- Corner connection via corner pieces made from cast aluminium.
- Smooth interior; no undercuts/no inaccessible areas when used in washdown facility (inside dimension corresponds to clearance dimension).
- Integrated peripheral door seal in the profile-section frame, for high noise damping and protection against dust.
- Two doors, foldable 270° parallel to the end faces, open doors secured by magnetic catch.
- Door leaves 2.5 mm thick, with continuous profile hinges.
- Central locking with easy-to-operate lever ensuring reliable closing at top and bottom.
- Doors will not spring open during transport by lorry.
- Ergonomically shaped sliding handle of anodised aluminium section on the swivel-castor side.
- All-round bumper frame with abrasion- and disinfectantresistant plastic padding at the bottom;
- Bumper at the top, around the front and sides, with abrasionand disinfectant-resistant plastic padding;
- Chassis: 2 swivel and 2 fixed castors, corner-mounted, Ø 160 mm, 50 mm wide, easy-running, rubber wheels, "non-marking", roller bearings, thread guards.
- Also suitable for container washdown facilities if suitable special running-gear castors are used.
- Insert levels with ABS support rail for frictionless sliding of modules, suitable for ZARGES ISO-standard modules.







#### W 105 N interior fittings

Note:

 $\label{thm:continuous} \mbox{Wide selection of interior fittings available for optimum transport and storage.}$ 



Fixed shelf compartments.

For universal applications.



Insert levels for ZARGES ISO-standard modules.

ABS support rails ensure that the modules slide easily.



Additional shelves can be folded.

Safe and ergonomic working, suitable for transporting fresh or dirty laundry as well as waste in bags.



Practical support systems for the ZARGES modular equipment range.

Support wall, shelf compartment, insert rails, variable- and fixed-installation telescopic rails.



 $\label{lem:continuous} \textbf{Additional shelves height-adjustable by means of notched rails.}$ 

Suitable for various packaging sizes.



Removable additional shelves.

Shelves can be used variably and cleaned separately.

#### W 105 N accessories and customisation



Coloured markings.

For customisation.



Trolley-top bumper and reinforced corners.

Protection of the trolley body during transport by lorry.



Lock attachment.

With identical and individual locking for safe transport.



Drawbar and coupling for linking and moving trolleys in trains.

For in-company transport (of up to a maximum of 5 trolleys).



Label frame in various sizes.

Simple holder for removable labels.



Special castors.

Stainless steel castors with directional lock, central stop and Total Stop, for a wide range of applications.



Blackboard.

For simple labelling on the trolley itself, self-adhesive and rewritable.



Lead seal.

To seal the container against unauthorised opening.



Top railing.

For securing items on the top of the trolley.

#### W 105 N hazardous goods









Ergonomically shaped sliding handle



Central locking



Bumper with plastic padding

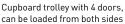
Cupboard trolley with UN approval for the use of UN 3291.

Contaminated surgical instruments are transported between hospital and service company for disinfection and preparation. Due to the risk of infection, these objects are defined as hazardous goods of class UN 3291, clinical waste.

- Aluminium cupboard trolley.
- Open body on one side with peripheral profile-section frame.
- Corner connection via corner pieces made from cast aluminium.
- Smooth interior; no undercuts/no inaccessible areas when used in washdown facility (inside dimension corresponds to clearance dimension).
- Integrated peripheral door seal in the profile-section frame, for high noise damping and protection against dust.
- Two doors, foldable 270° parallel to the end faces.
   Open doors secured by magnetic catch.
- Central locking with easy-to-operate lever ensuring reliable closing at top and bottom.
- Doors will not spring open during transport by lorry.
- Ergonomically shaped sliding handle of anodised aluminium section on the swivelcastor side.
- All-round bumper frame with abrasion- and disinfectant-resistant plastic padding at the bottom:
  - 2 swivel and 2 fixed castors.
- Also suitable for container washdown facilities if suitable special running-gear castors are used.
- Individual interior fittings.

#### W 105 N individual solutions





#### ZARGES - individual solutions.

Logistics is our business. So we know that sometimes, innovation is required in order to deliver the right solution. Our long-standing experience enables us to define individual customer needs on site, develop and manufacture solutions and support the customer during commissioning of the product.



Container for pharmaceutical companies, water-vapour-proof, anodised, seal-welded, complies with the most stringent hygiene requirements



Solutions for driverless transport systems

## ZARGES box trolleys -

versatile solutions for your logistics tasks.





The all-rounder: a sturdy box trolley for universal applications, for in-company logistics or for the transportation of waste.

- Sturdy, generously dimensioned edge and base profile sections, high-strength positive locking ensures permanent bonding to side walls and base.
- End and side walls reinforced with peripheral beading and corner beads.
- Chassis: 2 swivel and 2 fixed castors, corner-mounted,
   125 mm, 40 mm wide, easy running, rubber wheels,
   "non-marking", roller bearings, thread guards.
- Casing joint riveted throughout. Frame profile sections welded.



Peripheral beads and corner beads



Castors suited to the application

Inside dimensions L × W × H, approx. mm	Outside dimensions L × W × H, approx. mm	Volume, approx. l	Weight, approx. kg	Order No.
1,000 × 640 × 650	1,050 × 690 × 855	415	19.5	40631
1,250 × 700 × 750	1,300 × 750 × 955	655	23.7	40635

Other running gear configurations available on request.

#### **Accessories**

Designation	Fits	Order No.
Lid hinged on, with belt strap and 2 snap	40631	40654
fasteners	40635	40675



#### W 171 transport trolley with 3-part lid











Drain valve as standard





Bumper frame as standard

Versatile transport trolley with lid for protection of the content, peripheral protection and anodised, abrasion-resistant surface.

- 3-part lid folding mechanism and a front-panel flap.
- Anodised design.
- Container cutout with profile-section surround; profile-section joints continuously welded.
- Sturdy, generously dimensioned edge and base profile sections, high-strength positive locking ensures permanent bonding to side walls and base.
- Smooth walls without beads.
- Longitudinal seam welded, base joint sealed all round.
- Trolley base with drainage channel and drain valve.
- Ergonomic handle on the swivel-castor side.
- Plastic-padded peripheral bumper frame.
- Chassis: 2 swivel and 2 fixed castors, corner-mounted, Ø 200 mm, 50 mm wide, easy running, rubber wheels, "non-marking", roller bearings, thread guards.



Inside dimensions L × W × H, approx. mm	Outside dimensions L × W × H, approx. mm	Volume, approx. l	Weight, approx. kg	Order No.
1,000 × 575 × 1,200	1,140 × 685 × 1,490	690	30.0	40691
1,250 × 700 × 1,200	1,390 × 810 × 1,490	1050	35.0	40692

#### W 171 with fold-down section and beading





Sturdy transport solution with large flap for easy and ergonomic access to the contents of the trolley.

- Sturdy, generously dimensioned edge and base profile sections, high-strength positive locking ensures permanent bonding to side walls and base.
- End and side walls reinforced with peripheral beading and corner beads.
- One side with fold-down section folding half-way for more convenient loading and unloading.
- Container cutout with profile-section surround; profile-section joints continuously welded.
- Flap with bolt retainer and moving holding hinges.
- Chassis: 2 swivel and 2 fixed castors, corner-mounted, Ø 125 mm, 40 mm wide, easy running, rubber wheels, "non-marking," roller bearings, thread guards.



Peripheral beads and corner beads



Castors suited to the application

Inside dimensions L × W × H, approx. mm	Outside dimensions L × W × H, approx. mm	Volume, approx. l	Weight, approx. kg	Order No.
900 × 500 × 780	950 × 550 × 980	350	20.0	40633
1250 × 700 × 1200	1,300 × 750 × 1,400	1,050	33.0	40674

#### Accessories

Designation	Fits	Order No.
Lid hinged on, with belt strap and 2 snap	40633	40559
fasteners	40674	40675



#### Accessories and special equipment for the W 170/W 171 box trolley range





Tow-bar with coupling

Folds upwards.

Firmly attached towing device.

Order No. 3008





Chassis/castors

 $\varnothing$  125 mm, 40 mm wide.  $\varnothing$  160 mm, 40 mm wide.  $\varnothing$  200 mm, 50 mm wide. Also available for container washdown facilities on request.

Order No. on request



Centre pivot

Ø 40 mm For lift-tilt device. Order No. on request



Brake for swivel castors

Order No. on request



Ergonomic handle

Made from anodised aluminium section.

Order No. on request



Peripheral bumper frame

Plastic-padded.

Order No. on request

#### Transport container, mobile



Mobile transport and collection container

Inside dimensions L × W × H, approx. mm	Overall width 2180 mm	Volume, approx. l	Weight, approx. kg	Order No.
$450 \times 550 \times 990$	580	240	15.0	40896

#### Shelf trolley

Flexible platform trolley for collection and transportation of goods with ready access from all sides.

- With two sliding handles and integrated edge reinforcement.
- Anodised design.
- Plastic deflector castors.
- Chassis: 4 corner-mounted swivel castors, Ø 125 mm,
   40 mm wide, easy running, rubber wheels, "non-marking",
   roller bearings, thread guards.
- $\blacksquare$  Optional accessories: Wheel brake for swivel castors with  $\varnothing$  125 mm.
- Load capacity per platform: 40 kg.
- Order No. 40726 with 2 shelves (distance between the shelves 488 mm).
- Order No. 40727 with 3 shelves
   (distance between the shelves 230 mm).





Number of platforms	Shelf dimensions L × W, approx. mm	Outside dimensions L×W×H, approx. mm	Weight, approx. kg	Order No.
2	800 × 520	925 × 640 × 870	12.0	40726
3	800 × 520	925 × 640 × 870	16.0	40727

#### **Variomobil**

Safe transportation of small items and easy access through attachable end and side panels.

- Sturdy, smooth platform.
- Chassis: 2 swivel and 2 fixed castors, corner-mounted, Ø 160 mm, 40 mm wide, easy running, rubber wheels, "non-marking," roller bearings, thread guards.
- Swivel castors with wheel brakes.
- Supplementary parts for basic model: smooth, removable end and side panels (easy subsequent assembly).

#### Supplementary set for basic model Order No. 40785

- Push-Pull bar, plastic-sheathed, with end panel, Order No. 40787.
- Aluminium side panel, one-part, Order No. 40788.



#### Variomobil options



Order No. 40785



Order Nos. 40785 and 40787



Order Nos. 40785 and  $2 \times 40787$ 



Order No. 40785 and 2 × 40787 and 1 × 40788

Inside dimensions L × W × H, approx. mm	Outside dimensions L × W × H, approx. mm	Load capacity kg	Weight, approx. kg	Order No.
1,000 × 655 × 620	1,200 × 750 × 1,050	300	13.2	40785

#### W 172 transport trolley



Sturdy aluminium trolley for a wide variety of applications.

- Sturdy, generously dimensioned edge and base profile sections, high-strength positive locking ensures permanent bonding to side walls and base.
- End and side walls reinforced with peripheral beading and corner beads.
- One long side with cutout section, approx. 1,230 × 295 mm.
- Container cutout with profile-section surround; profilesection joints continuously welded.
- One ergonomic handle at either end.
- Chassis: 2 swivel and 2 fixed castors, corner-mounted, Ø 200 mm, 50 mm wide, easy running, rubber wheels, "non-marking," roller bearings, thread guards.

Inside dimensions L × W × H, approx. mm	Outside dimensions L×W×H, approx.mm	Volume, approx.	Weight, approx. kg	Order No.
111				
1,500 × 900 × 700	1,650 × 950 × 980	945	37.0	40634

#### W 181 transport trolley



Aluminium box trolley for transporting sensitive, lightweight goods.

- Sturdy edge and base profile.
- Smooth inside walls.
- Side-panel connection straight-bead-riveted.
- Chassis: 2 swivel and 2 fixed castors, corner-mounted,
   75 mm, 25 mm wide, easy running, rubber wheels,
   "non-marking," roller bearings, thread guards.

Inside dimensions L × W × H, approx. mm	Outside dimensions L×W×H, approx. mm	Volume, approx. l	Weight, approx. kg	Order No.
760 × 400 × 500	800 × 440 × 625	150	8.0	40650

#### W 182 transport trolley



Sturdy aluminium trolley for a wide variety of applications.

- Sturdy edge and base profile.
- End and side walls reinforced with peripheral beading and corner beads.
- Stackable.
- Chassis: 2 swivel and 2 fixed castors, corner-mounted,
   125 mm, 40 mm wide, easy running, rubber wheels,
   "non-marking," roller bearings, thread guards.

Inside dimensions L×W×H, approx. mm	Outside dimensions L×W×H, approx. mm	Volume, approx. l	Weight kg	Order No.
700 × 560 × 590	740 × 600 × 760	230	12.0	40661
700 × 560 × 590	740 × 600 × 760	230	12.0	40780

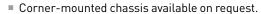
#### W 161 spring-loaded trolley

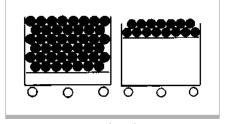




No more bending: easy access to the contents of the trolley for ergonomic working, for example in libraries, laundries or in the catering trade.

- Sturdy, generously dimensioned edge and base profile sections, high-strength positive locking ensures permanent bonding to side walls.
- Anodised design.
- Edge profile section reinforced with abrasion-resistant plastic padding.
- Trolley with vertically moveable base which keeps the load at constant height for easy access (Fig. 1).
- Depending on the type of trolley, the load capability can be varied from 30 to 195 kg in increments of 15 kg by means of replaceable lifting elements.
- The moveable base does not tilt, even when loaded on only one side (Fig. 2).
- Chassis: 2 swivel and 2 fixed castors, Ø 125 mm, 40 mm wide, easy running, rubber wheels, "non-marking", roller bearings, thread guards.
- Castors arranged centrally for easy manoeuvring even in the most confined spaces.





Constant working height (Fig. 1)



Replaceable lifting elements (Fig. 2)

Inside dimensions L × W × H, approx. mm	Outside dimensions L × W × H, approx. mm	Volume, approx. l	Weight, approx. kg	Set for loading kg	Order No.
1,000 × 650 × 485	1060 × 710 × 820	315	24.5	90.0	40644
1,010 × 420 × 460	1060 × 470 × 800	195	21.0	30.0	40645*
1,010 × 600 × 460	1060 × 650 × 800	280	25.0	45.0	40646
1,410 × 700 × 580	1460 × 750 × 920	570	31.5	150.0	40756

<sup>\*</sup> Chassis: 4 corner-mounted swivel castors

#### Spring-loaded trolley with optional step

The combination of a spring-loaded trolley with a step stool is particularly suitable for use in storage and retrieval areas in industry.

Project-specific fabrication to meet your individual requirements.



Storage and retrieval trolley, project-specific

## ZARGES DATA® –

## new, even more user-friendly concept.





Professional data disposal firms and companies large and small have relied on the safety of the ZARGES DATA® security container for many years – the new quality will astound you:

- Especially sturdy due to large edge and base profiles.
- Unique stability because profile-section joints are continuously welded in the cross-section.
- The profile sections have a fully integrated and permanently engineered bond which positive-locks them to the jacket and base metal.
- End and side walls reinforced with peripheral beading and corner beads (70-l container with corner beads only).
- All riveted joints are made with high-quality full rivets.
- Lid has solid surrounding lid frame with integrated wall fenders (piping buffer profile) and slotted lid plate.
- Lid with slot (approx. 420 mm × 24 mm), with locking plate and spring-loaded flap.
- Logo holder for your unique marking.
- Container available with various locking system options.
- Optimum mobility with a wide choice of wheel options.

Select the ZARGES DATA® security container suitable for your application. There are many standard variants and combination options. With seven different basic models and a wide range of accessories, you can choose from well over 100 possibilities.

Where order quantities permit, we can also produce customer specific solutions.



#### Spring-loaded flap with or without locking bar

Lids are equipped as standard with a deposit slot and springloaded flap.

Locking bars for securing the flap are available as an option.



Lid can be opened wide for easy unloading



Lockable deposit slot as an option

#### Individual labelling of your ZARGES DATA® security container

The redesigned logo holder on the lid allows you to label your container individually. Label your ZARGES DATA® security container with your company logo, the name of your department or other information. Print out your label, cut it to size and insert it.

We recommend you order an empty sheet of waterproof labels for your printer at the same time. And of course, we can also supply your ZARGES DATA® security container security container pre-labelled with your company logo. The sturdy plexiglass sheet protects your label from scratches. Logo holders are delivered with the ZARGES DATA® logo as standard.

If you use the latch lock, logo holder  $2 \, \mathrm{can} \, \mathrm{be}$  attached in the recess as an option.



Replaceable logo holder



Logo holder positioned in the recess

#### Lock variants for more data security



**Snap fastener** secured with lead seals or a padlock.



**Snap fastener with plug lock** and secured with lead seals or a padlock.



The practical combination lock. Enter your personal code – security even without keys.



**Latch lock** in the recess for maximum security. Individual locking system with authorised card. Lock body made from strong cast aluminium.

#### Circumferential protective lid piping in various colours

Select from five standard piping colours.

For large order quantities, you can specify your own colour –please ask for more information.



hlack



Grey



Yellow



dark blue



red



## **ZARGES MPO –**

## modular organisation trolleys, flexible and robust.



### A complete range of mobile storage and transportation trolleys.

ZARGES modular trolleys can be tailored precisely to your individual wishes and requirements. Whether you need to operate medical equipment while doing the rounds on hospital wards or operate analysis units in industry – the modular design of ZARGES MPO trolleys (modular nursing and organisation trolleys) allows a wide variety of options which you can configure to your specific needs. Their unlimited mobility means that these trolleys are extremely flexible and ready for use in all applications.



1 Aluminium handle. Aluminium handle for comfortable handling. Easy to clean.

For attaching a wide range of standard accessories.



(2) Precision castors, with optional bumper.

4 precision castors, 2 of them with wheel brakes for maximum mobility in confined spaces.



(3) Worktop options.

HPL with/without raised edge. Plastic with/without gallery,

with optional adjustable rail. Stainless steel.



Side wall options.

Side walls available with coloured centre segment (CI).





(5) Bumper: abrasion- and disinfectant-resistant plastic padding.



(6) Corner posts made from anodised aluminium.

#### **Support system options**

#### Support wall:

- Hygienic, easy to clean.
- Narrowly spaced divisions allow variable loading options.
- Can be fitted with a front with roller door.
- ABS plastic.



Support wall



Telescopic rails

#### Telescopic rails:

- High load-bearing capacity, up to 25 kg.
- Maximum access depth, fully extendible.

#### **Front options**

Available with a variety of fronts for different applications.



Doors



Doors/drawers



Rolling tambour door



**Drawers** 

#### **Organisation trolleys**

#### MPO IT trolley









Keyboard drawer



Electronics compartment

With the MPO IT trolley, ZARGES offers a solution for flexible working and access to data whilst on the move. The easy-to-move MPO IT trolley can be equipped to accommodate various IT solutions such as laptops and computers.

- Body made from sturdy, anodised aluminium corner profiles, side walls and rear wall aluminium, the surfaces are powder-coated.
- Different front options available.
- Drawers are mounted on telescopic rails, with soft closing and drawer stop.
- Space-saving roller door with support wall.
- Worktop available in full plastic or ABS plastic, with and without gallery, and as an option with an adjustable rail rod.
- Keyboard drawer.
- Monitor bracket.
- 4 plastic-padded wall guards at the height of the trolley floor.
- 4 swivel castors, diameter 125 mm, 2 of which with brake.
- Ergonomically shaped sliding handle in anodised aluminium.
- Lockable compartment.
- Different heights and widths available.
- Standard colour: Anodised aluminium. The central element can be supplied in a different colour as a special version.

#### MPO supply trolley









You need to have the right material to hand at the right place and the right time and in the right quantity. The MPO storage and transport trolley can help you to master this challenge.

- Space-saving opening through roller door which can be removed without the use of tools.
- Optional lockable roller door.
- Interior fittings: can be fitted with modular drawers (100 mm/150 mm/250 mm) and modular baskets (50 mm/100 mm/200 mm), mounted on support wall.
- Body made from sturdy, anodised aluminium corner profiles, side walls and rear wall aluminium, the surfaces are anodised.
- Worktop available in full plastic or ABS plastic, with and without gallery, and as an option with an adjustable rail rod.
- Floor made from sturdy all-plastic sheet.
- 4 plastic-padded wall guards at the height of the trolley floor (optional).
- 4 swivel castors, diameter 125 mm, 2 of which with brake.
- Free selection from the list of accessories for the various versions.
- Standard colour: Anodised aluminium. The central element can be supplied in a different colour as a special version.





Plastic roller door, with optional lock

The practical roller door is available for many sizes in the ZARGES MPO range, both for 1 ISO and for 2 ISO:

	1 ISO Width: 400 mm Width: 600 mm		2 ISO	
			Width: 400 mm	Width: 600 mm
Height: 900 mm, Order No.:	46425	46422	46431	46428
Height: 1,000 mm, Order No.:	-	46257	-	46258
Height: 1,100 mm, Order No.:	-	46259	-	46260
Height: 1,500 mm, Order No.:	46424	46421	46430	46427
Height: 1,800 mm, Order No.:	46423	46420	46429	46426

#### MPO accessories



Standard rail For end face. Stainless steel

For trolley depth mm	Order No.
400	46461
600	46462





ZIP box holder, triple-compartment

Hooks onto the standard rail, material: Powder-coated steel.

Order No.	
46333	



Knee-operated bin

For mounting on the side.

Volume, approx. l	Order No.
8	46297
20	46298



Front panel with digital lock for roller door For mounting on an end face.

For trolley width, 2180 mm	Order No.
400	363333
600	363328



Front panel with cylinder lock for roller door For mounting on the front.

For trolley width, 2180 mm	Order No.
400	361988
600	361947



Document holder

Material: plastic, white.

Order No.	
46253	



Wire waste collection frame

Hooks onto standard rail, with plastic lid

Volume, approx. l	Order No.
6	46282
15	46283
30	46284



Side wall variants

Standard colour for side wall is anodised aluminium (light grey RAL 7035) with 4 other optional colours available, individual colours on request.









green

RAL 6019, RAL 1017, saffron RAL 5024, yellow

Blue

RAL 3020, red

#### **MPO** interior fittings

Modular	drawer L×W×H, approx. mm	Matching dividers for ABS modules and ABS modular baskets (L × H, approx. mm)
Property.	<b>46204</b> ABS modular drawer 600 × 400 × 75 / 95	46027 Lengthwise divider for 46000, 600 × 200 46028 Crosswise divider for 46000, 400 × 200
101	<b>46205</b> ABS modular drawer 600 × 400 × 125 / 145	46029 Lengthwise divider for 46005/46202, 600 × 100 46030 Crosswise divider for 46005/46202, 400 × 100
-	<b>46206</b> ABS modular drawer 600 × 400 × 250	46034 Lengthwise divider for 46011 600 x 50 46035 Crosswise divider for 46011 400 x 50
De la	<b>46208</b> ABS modular drawer 400 × 600 × 125 / 145	PC modules and PC modular baskets, transparent (L × W × H, approx. mm)
A)	<b>46209</b> ABS modular drawer 400 × 600 × 225/245	46001 PC modular basket 600 × 400 × 200
	s and ABS modular baskets, lue (L × W × H, approx. mm)	<b>46004</b> PC modular basket 600 × 400 × 100
	<b>46000</b> ABS modular basket 600 × 400 × 200	<b>46010</b> PC medications module 600 × 400 × 50
	<b>46005</b> ABS modular basket 600 × 400 × 100	<b>46203</b> PC module 600 × 400 × 100
	<b>46011</b> ABS medications module 600 × 400 × 50	Matching dividers for PC modules and PC modular baskets (L × H, approx. mm)
	<b>46200</b> ABS module (not sub-dividable) 600 × 400 × 200	46040 Lengthwise divider for 46001/ 46206/46209, 600 × 200 46041 Crosswise divider for 46001/46206/46209, 400 × 200
	<b>46201</b> ABS module lid 600 × 400 × 15	46042 46004/46203/46205/46208, 600 × 100 46043 Crosswise divider for 46043 46203/46205/46208, 400 × 100
	<b>46202</b> ABS module 600 × 400 × 100	46031 Lengthwise divider for 46010/46204 600 × 50  46032 Crosswise divider for 46010 / 46204 400 × 50

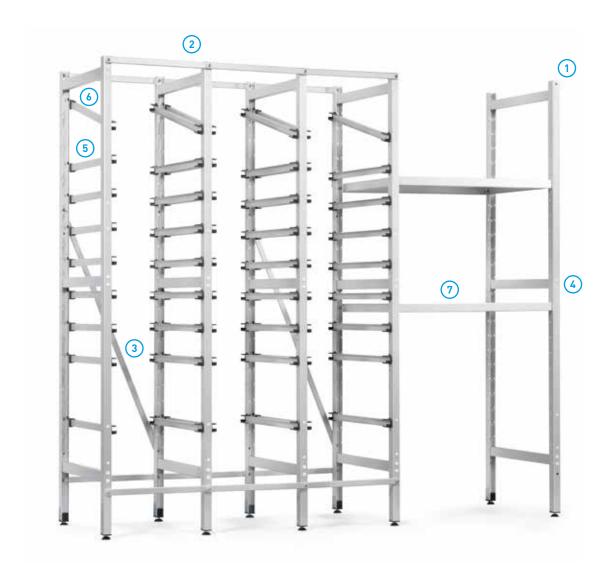
## ox submodules and matching ividers (L × W × H, approx. mm) $\begin{array}{ll} \textbf{46180} & \text{ZIP box, ABS, light grey} \\ & 325 \times 87 \times 65 \end{array}$ **46181** ZIP divider for 46180 **46182** ZIP box, ABS, light grey 325 × 130 × 65 **46183** ZIP divider for 46182 **46184** ZIP box, ABS, light grey 345 × 90 × 115 **46185** ZIP divider for 46184 **46186** ZIP box, ABS, light grey 345 × 135 × 115 **46187** ZIP divider for 46186 ssories for modular drawers, dules and modular baskets (L × W × H, approx. mm) 46467 Stopper (1 pc. per basket) **46026** Drawer stop, greyish-white, one-piece for modules and modular baskets 46552 Label holder (POM) crosswise, white, unbreakable and shock-resistant, 65 × 15 × 42 Label holder (POM), white, unbreakable and shock-resist-ant, can be inserted in the slits of the modular baskets, mounted on the module edge and on dividers, $44 \times 14 \times 63$ **46025** Label holder plate (PS) for 46020 and 46024, 60 × 40 × 1





## Storage and retrieval shelving.

ZARGES storage and retrieval shelving is suitable for universal applications and can be put together and configured individually by selecting from our range of modules and modular baskets. The open design makes the shelving easy to clean.



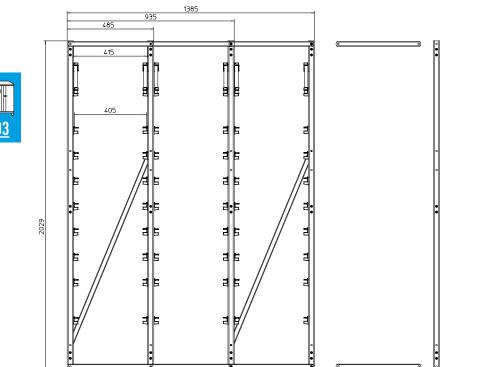


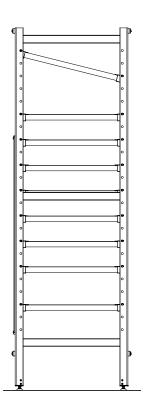
- 1 Shelving segments. Pre-assembled.
- (2) Connecting brace
- 3 Diagonal braces. Designed for fitting in alternate rows.
- 4 Stainless steel connecting elements. Designed for fitting one set per row.
- 5 Straight insert rails. Can be hooked on in various positions.
- 6 Insert rails with incline. Can be hooked on in various positions.
- 7) Shelf compartment. Made from anodised aluminium.

### **Shelving system**

#### Storage and retrieval shelving

Configuration options for standard shelving for ISO standard modules.





#### Shelving components (depth: 600 mm)

Order No. Aluminium	Order No. Steel shelving		Order No. Stainless steel			Number of rows				
shelving		shelving		1	2	3	4			
46558	46140	46142	Shelving segment, 2,000 $\times$ 600 mm (H $\times$ D)	2	3	4	5	1		
46560	46274	46144	Connecting rod, 479 mm (L)	4	8	12	16	4		
46562	46276	46146	Connecting rod, diagonal, 1,206 mm (L)	1	1	2	2	1		
46563	46280	46151	Set of connecting elements	2	3	4	5	1		
	46270		Insert rail, 600 mm (D), straight installation	-	-	-	-	-		
	46271		Insert rail, 620 mm (D), installation with incline	-	-	-	-	-		

Insert rails to be ordered separately

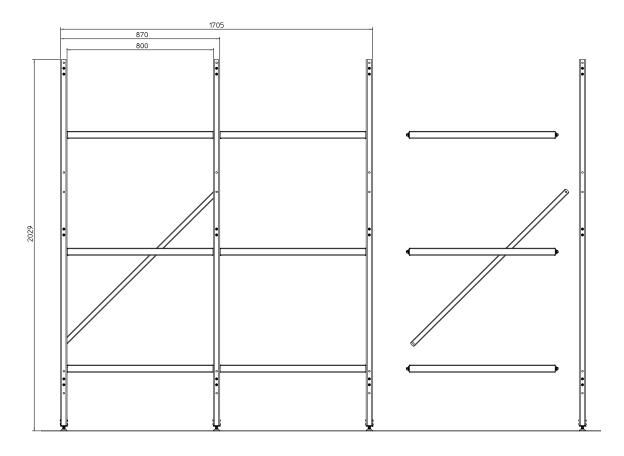
#### Shelving components (depth: 400 mm)

Order No. Aluminium	Order No. Steel shelving		Designation		For each further row added			
shelving		shelving		1	2	3	4	
46559	46141	46143	Shelving segment, 2,000 × 400 mm (H × D)	2	3	4	5	1
46561	46275	46145	Connecting rod, 679 mm (L)	4	8	12	16	4
46562	46276	46146	Connecting rod, diagonal, 1,206 mm (L)	1	1	2	2	1
46563	46280	46151	Set of connecting elements	2	3	4	5	1
	46272		Insert rail, 400 mm (D), straight installation	-	-	-	-	-
	46273		Insert rail, 420 mm (D), installation with incline	-	-	-	-	-

Insert rails to be ordered separately

#### Storage and retrieval shelving

Configuration options for shelving with shelf compartment.



# 03

#### Shelving components (depth: 600 mm)

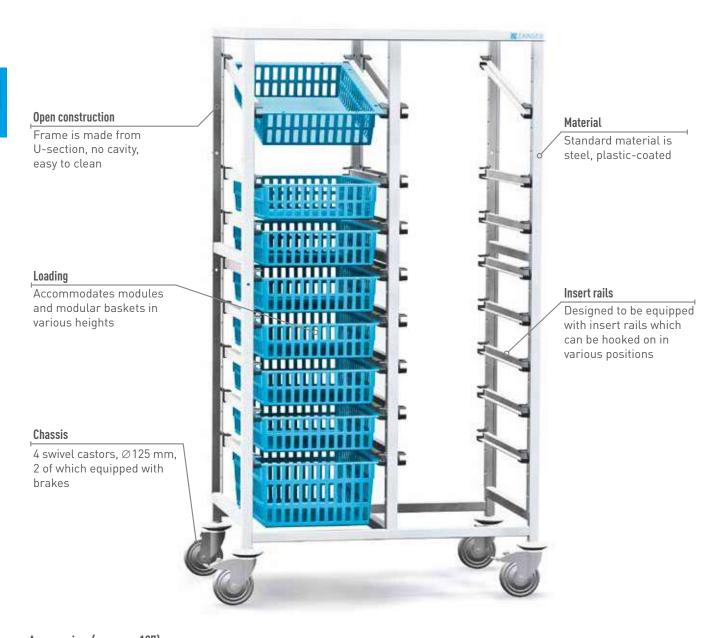
Order No. Aluminium	Order No. Steel shelving	Order No. Stainless steel	Designation Number of rows					For each further row added
shelving		shelving		1	2	3	4	
46558	46140	46142	Shelving segment, 2,000 $\times$ 600 mm (H $\times$ D)	2	3	4	5	1
46565	46072	46147	Shelf compartment, $800 \times 600$ mm (L $\times$ D)	-	-	-	-	-
46562	46276	46146	Connecting rod, diagonal, 1,206 mm (L)	1	1	2	2	1
46563	46280	46151	Set of connecting elements	2	3	4	5	1

#### Shelving components (depth: 400 mm)

Order No. Aluminium	Order No. Steel Order No. shelving Stainless steel		Designation		For each further row added			
shelving	·	shelving		1	2	3	4	
46559	46141	46143	Shelving segment, 2,000 $\times$ 400 mm (H $\times$ D)	2	3	4	5	1
46566	46079	46149	Shelf compartment, $800 \times 400$ mm (L $\times$ D)	-	-	-	-	-
46562	46276	46146	Connecting rod, diagonal, 1,206 mm (L)	1	1	2	2	1
46563	46280	46151	Set of connecting elements	2	3	4	5	1

#### Storage and retrieval trolley

Storage and retrieval trolley with hook-on insert rails.



#### Accessories: (see page 107)



Hook-in insert rails



Adapter part for telescopic rail



Fold-down worktop on the side



Ergonomic handles

## Large or small, they are always the right choice: storage and retrieval trolleys.



#### Storage and retrieval trolley, single-row

Order No.	Material	Slide-in width, mm	Dimensions, L × D, mm	Height, mm
46441	Powdered steel	400	544 × 675	1,750
366035	Powdered steel	400	544 × 675	1,900
362162	Powdered steel	600	744 × 475	1,750
367568	Powdered steel	600	744 × 475	1,900
363160	stainless steel	400	544 × 675	1,750
372312	stainless steel	400	544 × 675	1,900
368987	stainless steel	600	744 × 475	1,750
372313	stainless steel	600	744 × 475	1,900



#### Storage and retrieval trolley with shelf compartment

Order No.	Material	Slide-in width, mm	Dimensions, mm	Height, mm
46443	Powdered steel	400	1,378 × 675	1,750
366042	Powdered steel	400	1,378 × 675	1,900



#### Storage and retrieval trolley, double-row

Order No.	Material	Slide-in width, mm	Dimensions, L × D, mm	Height, mm
46442	Powdered steel	400	993 × 675	1,750
366045	Powdered steel	400	544 × 675	1,900
365738	Powdered steel	600	1,393 × 475	1,750
367567	Powdered steel	600	1,393 × 475	1,900
362795	stainless steel	400	933 × 675	1,750
364839	stainless steel	400	933 × 675	1,900
368988	stainless steel	600	1,393 × 475	1,750

#### Storage and retrieval trolley, triple-row

Order No.	Material	Slide-in width, mm	Dimensions, L × D, mm	Height, mm
366043	Powdered steel	400	1,440 × 675	1,900

#### **Accessories**

Order No.	Designation		
46270	Insert rail, 600 mm (D), straight installation		
46271	Insert rail, 620 mm (D), installation with incline		
46272	Insert rail, 400 mm (D), straight installation		
46273	Insert rail, 420 mm (D), installation with incline		
46072	Shelf compartment 800 × 600 mm (L × D)		

#### Special accessories for slide-in width 400 mm

Order No.	Designation		
370903	Standard rail		
373696	Adapter part for hook-on telescopic rails		
374752	Fold-down worktop		



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#### Modules and modular baskets



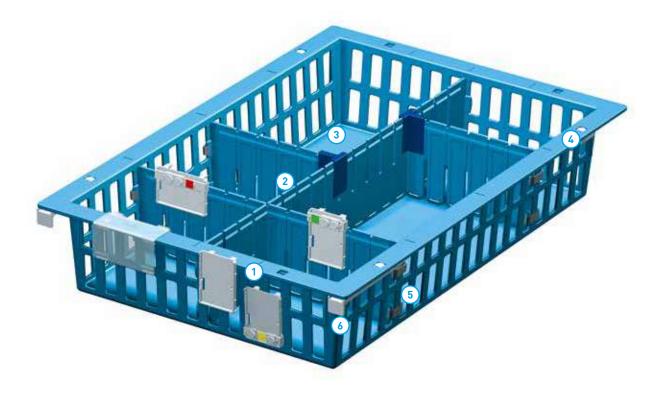
ABS modules and ABS modular baskets, 600 mm × 400 mm.

- For a flexible and organised approach to storage.
- Light blue.
- Modules can be divided, either lengthwise and crosswise.
- Sealed floor providing reliable protection against spilt liquids and dirt particles.
- Heat-resistant to 85 °C.
- Easy attachment of the label holders.

See Fig.No.	Description	Dimensions L×W×H, approx. mm	Order No.
1	ABS modular basket	600 × 400 × 200	46000
2	ABS modular basket	600 × 400 × 100	46005
3	ABS module	600 × 400 × 50	46011
4	ABS module (not sub-dividable)	600 × 400 × 200	46200
5	ABS module	600 × 400 × 100	46202
6	Lengthwise divider for 46000	600 × 200	46027
7	Crosswise divider for 46000	400 × 200	46028
8	Lengthwise divider for 46005 / 46202	600 × 100	46029
9	Crosswise divider for 46005 / 46202	400 × 100	46030
10	Lengthwise divider for 46011	600 × 50	46034
11	Crosswise divider for 46011	400 × 50	46035



#### Accessories for modules and modular baskets.





#### 1 Label holder



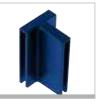
No.	Page	Designation
1	111	Label holder (ABS)

#### 2 Dividers for modules and modular baskets



No.	Page	Designation
2	108	Divider for modules and modular baskets (ABS)

#### 3 T-piece as connector





N	0.	Order No.	Designation	Dimensions, L × W × H, approx. mm
3	3	46022	T-piece (ABS) as connector	47 × 26 × 28

#### 4 Safety stop system, white/grey, one-piece



No.	Order No.	Designation
4	46026	Safety stop system, white/grey, one-piece (ABS)

#### 5 Divider fixing



No.	Order No.	Designation	Dimensions L × W × H, approx. mm
5	46060	Divider fixing (spring steel)	25 × 10 × 9

### 6 Stopper





No.	Order No.	Designation	Dimensions, L × W × H, approx. mm
6	46467	Stopper	122 × 20 × 24

#### Labelling

Intelligent, innovative and efficient: the ZARGES labelling system.



#### Label clip

A seamless and optimised ordering process is only possible with the help of simple and intelligent labelling.

- The clip, which can also be retrofitted, is an ideal addition to our existing labelling system. An innovative further development of our existing product range.
- All label holders can be inserted with and without a clip.

With a simple sliding movement, the "traffic light system" indicates when new stock is required. The filling level of the KANBAN container is displayed and the order status visually recorded. Utility-model patent protected.





Green: sufficient quantity of the article in stock.



Yellow: article is ordered/order recorded.



Red: re-order article.

#### Labelling

### Optimum supply guaranteed: labelling.



Label holder, vertical

Order No.	Designation	Dimensions, L×W×H, approx. mm
46551	can be inserted in slots, clipped on to module edge and dividers	44×14×63

Matching label holder plate: 46025



Label clip, vertical

Order No.	Designation	Dimensions, L×W×H, approx. mm
46553	Label clip, vertical (traffic light system)	48 × 11 × 14



Label holder (PC), transparent, for paper labels

Order No.	Assembly	Dimensions, L×W×H, approx. mm
46023	clips onto upper edge of the modules	80 × 37 × 44



Label holder, crossways

Order No.	Designation	Dimensions, L×W×H, approx. mm
46552	can be inserted in slots, clipped on to module edge and dividers	65 × 15 × 42

Matching label holder plate: 46025



Label clip, crossways

Order No.	Designation	Dimensions, L×W×H, approx. mm
46554	Label clip, crossways (traffic light system)	68 × 11 × 14



Label strip for mounting on inside of door

Order No.	Designation	Dimensions, L×W×H, approx. mm
46080	Anodised aluminium	330 × 20 x 3
46081	Anodised aluminium	530 × 20 x 3



Adhesive labels in various colours for 46025

Order No.	Colour	Sheet	Packaging unit	Dimensions, W×H, approx. mm
46221	White	25 labels on DIN A4	250 sheets	37 × 55
46222	Blue			
46223	Yellow			
46224	red			

#### Paper label for 46023

Order No.	Colour	Sheet	Packaging unit	Dimensions, W×H, approx. mm
46225	White	14 labels on DIN A4	250 sheets	80 × 40

#### Label holder plates (PS)

Order No.	Designation	Dimensions, L×W, approx. mm
46025	Fits 46551 and 46552	60 × 40



Label strip for mounting on inside of door

Order No.	Designation	Dimensions, L×W×H, approx. mm
46582	self-adhesive, transparent	350 × 3 × 25

#### Transparent sleeve

Order No.	Designation	Dimensions
46220	self-adhesive	DIN A4



#### **ZARGES** hospital logistics

The ZARGES product offering includes modular storage cupboards, furniture and shelving right through to complete systems for transporting laundry or materials. All systems are coordinated and of modular design, ensuring that the individual elements of logistics systems dovetail perfectly.



Laundry transport and storage



Transport, storage and distribution of medication



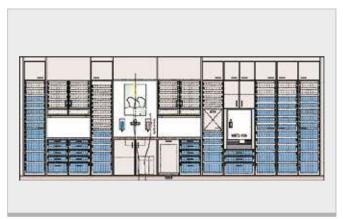


Ward supply, storage and distribution



Supply and disposal for areas such as operating theatres

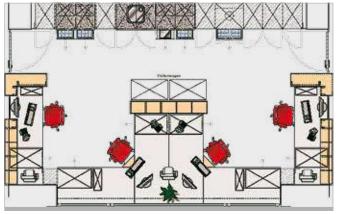
#### Planning and implementation



Planning for fitted cupboards



Planning for central storerooms



Spatial planning



Implementation and commissioning

### Five steps to success:

Planning of operating and nursing areas – Planning, supervision of construction, processing and execution.

#### Costing

Taking into consideration existing storage and transport media, we determine and calculate the actual requirements, both with regard to quantities and cost.

#### Spatial planning

We calculate the exact storage capacity required on the basis of consumption analyses, and storage facilities are redesigned to meet the requirements with regard to hygiene and ergonomics.

We also optimise the interfaces between operations, logistics and office organisation to ensure seamless transitions.

#### Drafting and design

We plan the installations on the basis of logistical standards. Material and design are tailored to the specific requirements in your facility.

#### Schedule

We supervise construction, co-ordinate and monitor technical processes and deadlines – if required, in co-operation with your technicians, planners and specialist engineers. Where there are special requirements (radiation protection, fire protection etc.), our specialists will find the ideal solution while still ensuring optimum logistics planning.

#### Full equipment

If desired, we can supply not only the logistics and furniture, but also seating, protection against sunlight and other equipment.

#### Service

Thanks to our supra-regional network of specialist dealers and partners, we are in a position to act quickly and reduce downtimes to a minimum.

#### Delivery time

Standard furniture and projects can, on agreement, be delivered at short notice.





W 171 transport trolley for waste transport



Mobile storage

### **ZARGES logistics solutions in the healthcare sector –** example applications



Mobile ward rounds



Mobile storage and supply



W 161 spring-loaded trolley for ergonomic



### ACCESS



ZARGES offers more than 500 types of ladders, mobile scaffold towers, work platforms, steps and bridging steps made from aluminium alloy and plastic for industry, the trades and service companies.

Discover the diversity of the ZARGES product range and find the right access equipment for your application.

#### **Contents:**

<u>04</u>	Ladders	from page	120
	New Standard EN 131	from page	122
<u>05</u>	ZAP ZARGES work platforms/mobile platforms	from page	174
<u>06</u>	Steps and platforms	from page	186
<u>07</u>	Optional special equipment, accessories & spare parts	from page	208
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<u>10</u>	Shaft equipment	from page	290

## Quality and service from the market leader – you can count on that.

For more than 80 years, the name ZARGES has been synonymous with top quality and reliability.

New products are designed based on ideas and experience taken from the market as well as relevant stand-

ards and laws. This is reflected in the reliability and durability of our products, which meet the high expectations placed on them by our customers and partners.

#### Details that make the difference:



#### **ZARGES** quality triple-formed joints

Extremely rigid connection between rungs and stiles. Clamping of both stile walls with minimum joining clearance.



#### **ZARGES 2-component plastic end caps**

ZARGES ladders are equipped with specially developed 2-component plastic end caps. Hard material in the stile, ensuring firm seating of the end cap in the ladder stile even under high loads.

Soft material on the contact area between end cap and floor ensures optimum non-slip performance even on smooth floors and surfaces.



#### **ZARGES** connection technology

Attachment parts such as guide fittings, joints or handles are bolted to the stile and can thus be replaced.

This means that even after many years of use, you can simply replace damaged elements.

Positive-locked connections with the stile profile provide added stability.



#### **ZARGES** extrusions

For all its aluminium ladders, steps and platforms, ZARGES uses aluminium extrusions.

They combine the highest stability and durability with low weight.

#### **ZARGES** belt strap attachment

The attachment of the belt strap is crucial for the permanent resilience of this component and has been a feature of ZARGES ladders for many decades. On stepladders, a release mechanism recesses the fixing strap inside the tread or tube profile and thus also ensures optimum stability.



#### ZARGES mobile scaffold tower brace

The ZARGES mobile scaffold tower brace has an automatic locking function and an extra-wide shape, ensuring that it secures firmly to the rung.

The wider the brace and the more firmly it rests on the rungs, the firmer the hold. The ZARGES brace is also easy to operate and does not tilt.



#### ZARGES mobile scaffold tower spigots

The patented spigot design allows just enough play between the push-on end frames to provide high stability. At the same time, the tapered shape at the top ensures that they slide together easily and with no great effort required. This gives the mobile scaffold tower maximum stability and allows easy assembly.



#### **ZARGES** rung-stile connection

The rung-stile connection is welded all round on ZARGES mobile scaffold towers, thus ensuring the highest stability under maximum loads. Ribbed rungs ensure a firm grip and safe climbing.



#### **ZARGES** spare parts service

A reliable supply of spare parts for all products gives you the certainty that your ZARGES access equipment will always be in perfect condition, even after many years of use.





### 04

# ZARGES ladders – the classic product that takes you up to where you need to go.



Ladders are the classic access equipment. They are quick to get out and put back, flexible, lightweight and compact. The variety of available ladder types and sizes is so wide that you will find the optimum ladder to ensure maximum safety for any application.

Above all, ladders are suitable for climbing to a higher working position or for performing quick jobs such as changing light bulbs, taking measurements, making adjustments or tensioning and releasing anchorings.

All ZARGES ladders comply with standard DIN EN 131, ZARGES safety steps comply with DIN EN 14 183, and they are all designed for a maximum load of 150 kg, the heavy-duty ladders in the heavy-duty range for loads of up to 250 kg.

In addition to a comprehensive range of standard ladders, ZARGES also offers ladders for specific professions or tasks and customer specific solutions.



#### Z 600 R13 stepladder

Maximum non-slip properties on rungs and platform. **Further details on page 140 and page 147.** 



	Contents Section <u>04</u>	from page
<u>EN 131</u>	New Standard EN 131	<u>122</u>
	Single ladders	<u>124</u>
	Push-up and rope-operated ladders	<u>133</u>
	Stepladders, single-sided access	<u>139</u>
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### **ZARGES ladders:** in accordance with the new editions of Standard EN 131-1+2.

The EN 131-1+2\* standard for ladders has been fully revised. Since the end of 2017 these new editions have been put into effect.

A new requirement is for all ladders to be divided into two classes:

- "Professional" refers to ladders for commercial use.
- "Non-professional" refers to ladders for private use.

The testing requirements for the "professional" class have become stricter and harder.



Since April 2017, ZARGES is supplying only ladders that meet the requirements of the new "professional" standard category.





**Longer service life**ZARGES ladders fulfil the strict tests whether for dynamic long-term stress or stile stability.



**Increased stability**In single ladders exceeding 3 m, a stabiliser provides wider and therefore safe stability.



End caps provide protection against slipping End caps on ZARGES ladders provide optimal stability.

### The advantages for you:

Legally safeguarded

ZARGES ladders meet the requirements of all relevant product standards and offer market leading performance.

**Working safely** 

Stringent new tests demonstrate that ZARGES ladders are highly stable and robust and therefore improve accident prevention and reduce work absences.

Working safely Europe-wide

The new editions of EN 131-1+2 standard apply Europe-wide. Independent from where you work in Europe. ZARGES ladders comply with the requirements of this standard.

One-off investment – benefits over the long term

Because of the new standard, ZARGES ladders are even more robust and durable.



# **ZARGES single ladders –** the quick way up.

The shortest path between two points is a straight line. That's why single ladders are the equipment of choice when you need to get to a higher working position quickly. They are ideal for immediate and flexible use.

ZARGES single ladders meet the highest requirements with regard to stability and safety and are available in many versions and lengths.

#### In principle, you can choose between two types:

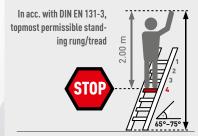
- Ladders with rungs of depth 30 mm and strong ZARGES quality triple-formed joints connecting rung and stile.
- Ladders with treads in a variety of surfaces, with riveted, bolted or flanged connections.

For special applications, ZARGES offers special ladders made from glass-fibre-reinforced plastic or timber.

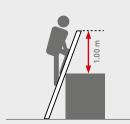
All ZARGES single ladders comply with industrial standard DIN EN 131, the specifications of TRBS 2121 and guideline BGI 694. The maximum permissible load is 150 kg, and 250 kg for the Z 600 SL heavy-duty ladder.



#### Note:



Maximum working height in acc. with BGI 694: working height = height of topmost standing rung + 2 metres, leaning angle from 65° to 75°



Required ladder length = vertical height to be reached × 1.064 Observe prescribed ladder projection of

#### Heavy-duty single ladder



Utility meets design: the strongest of all ZARGES ladders with high load capacity and a distinctive black finish for heavy-duty use.

- Max. load 250 kg.
- Wide aluminium alloy rungs, 60 mm deep, with non-slip ribbing.
- Black, wear-resistant anodised stiles.
- Wall piece at the top so that the ladder rests securely.
- Strong ZARGES quality triple-formed joints connecting rung and stile.
- Rungs and stiles made from aluminium extrusions.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping.
- Outside width: 380 mm.









Rung bracing for high load



ZARGES quality triple-formed joints



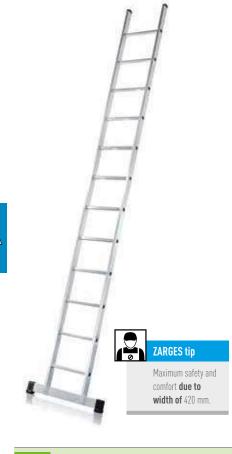
Wall piece



Horizontal stabiliser for Order No. 41138

Ladder length m	Working height, approx. m	Stile height mm	Horizontal stabiliser bar m	Number of rungs	Weight kg	Order No.
1.82	2.65	73	-	6	3.8	41135
2.38	3.15	73	-	8	6.9	41136
2.94	3.70	73	-	10	7.5	41137
3.50	4.25	73	0.79	12	10.5	41138

#### Single ladder with rungs



The flexible solution for a wide variety of uses: extra-wide ladder is comfortable to use and safe to stand on.

- Outside width: 420 mm particularly stable.
- Very lightweight but extremely stable.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping.
- Strong ZARGES quality triple-formed joints connecting rung and stile.
- Rungs and stiles made from aluminium extrusions.
- Rung depth 30 mm.

Optional special equipment (see also pages 210/211)



Ladder length m	Working height, approx. m	Stile height mm	Horizontal stabiliser bar m	Number of rungs	Weight kg	Order No.
1.93	2.80	58	-	6	3.7	41511
2.49	3.35	58	-	8	4.7	41512
3.05	3.90	58	0.80	10	7.2	41513
3.61	4.40	58	0.80	12	8.1	41514
4.17	4.95	62	0.89	14	9.3	41515
4.73	5.50	68	0.89	16	10.5	41516
5.86	6.60	73	1.09	20	13.2	41517
6.98	7.70	85	1.20	24	16.0	41518

#### Z 500 Single ladder with rungs



The compact alternative – with respect to size, weight and price/performance ratio.

- Outside width: 350 mm.
- Very lightweight but extremely stable.
- Replaceable 2-component plastic end caps ensure positioning without risk of
- Strong ZARGES quality triple-formed joints connecting rung and stile.
- Rungs and stiles made from aluminium extrusions.
- Rung depth 30 mm.



Ladder length m	Working height, approx. m	Stile height mm	Horizontal stabiliser bar m	Number of rungs	Weight kg	Order No.
2.21	3.05	58	-	7	4.0	41547
2.49	3.35	58	-	8	4.4	41548
3.05	3.90	58	0.79	10	6.1	41550
3.61	4.40	58	0.79	12	7.0	41552
4.17	4.95	62	0.79	14	8.0	41554
4.73	5.50	68	0.89	16	9.2	41556
5.29	6.05	73	0.89	18	10.5	41558
5.85	6.60	73	0.99	20	11.5	41560
6.41	7.15	73	0.99	22	13.2	41562
6.98	7.70	85	1.10	24	14.4	41564

#### Flanged single ladder with treads, anodised

The high non-slip performance of Safer Step Technology makes for comfortable and safe use, while the anodised stiles are wear-resistant and pleasant to hold.

- Z 600 tread with ZARGES Safer Step Technology, 80 mm deep.
- Wear-resistant, anodised stiles.
- Outside width: 420 mm.
- Strong ZARGES quality triple-formed joints connecting rung and stile.
- Treads and stiles made from extruded aluminium sections.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping.
- Also available as a shelf ladder.

Optional special equipment (see also pages 210/211)



Ladder length m	Working height, approx. m	Stile height mm	Horizontal stabiliser bar m	No. of treads	Weight kg	Order No.
1.94	2.80	73	-	6	4.0	41356
2.50	3.35	73	-	8	7.2	41358
3.06	3.85	73	0.80	10	9.1	41360
3.62	4.40	73	0.80	12	10.3	41362
4.18	4.90	73	0.89	14	11.6	41364
4.74	5.45	73	0.89	16	13.3	41366





#### Single ladder with edge formed treads Z 500

Comfort and economy: safety during ascent and descent, lower weight, compact dimensions and an excellent price/performance ratio.

- Z 500 tread with ZARGES Safer Step Technology, 80 mm deep.
- Stiles and treads made from natural aluminium.
- Outside width: 350 mm.
- Strong ZARGES guality triple-formed joints connecting rung and stile.
- Treads and stiles made from extruded aluminium sections.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping.



Ladder length m	Working height, approx. m	Stile height mm	Horizontal stabiliser bar m	No. of treads	Weight kg	Order No.
1.85	2.75	68	-	6	3.6	41566
2.41	3.30	68	-	8	6.8	41568
2.97	3.80	68	-	10	7.9	41570
3.53	4.35	68	0.79	12	9.9	41572
4.09	4.90	68	0.79	14	11.4	41574
4.65	5.40	68	0.89	16	12.6	41576



#### Single ladder with treads and padded front edges





The ladder for maximum working comfort, with an attractive design.

- Shin-protecting padding.
- Wear-resistant, anodised stiles.
- 80 mm deep, serrated treads.
- Outside width: 380 mm.
- Treads with plastic caps on the front edges.
- Wall piece at the top so that the ladder rests securely.
- Bolted connection between treads and stiles.
- Treads and stiles made from extruded aluminium sections.
- Attractive design ideal for use in offices, surgeries and
- Also available as a shelf ladder.













Bolted connection between treads and

Slip-resistant end caps

Ladder length m	Working height, approx. m	Stile height mm	No. of treads	Weight kg	Order No.
1.64	2.65	48	6	4.2	41012
1.87	2.85	48	7	4.8	41013
2.11	3.10	48	8	5.3	41014
2.35	3.35	48	9	5.8	41015
2.59	3.55	48	10	6.4	41016
2.82	3.80	48	11	6.9	41017
2.99	4.00	48	12	7.4	41018

#### Z 500 Riveted single ladder with treads

The lightest single ladder with treads in the ZARGES range, with no compromises on comfort and safety while working, but a bonus when it comes to the price/performance ratio.

- Stand without fatigue on 80 mm deep treads.
- Treads with plastic caps on the front edges.
- Wall piece at the top so that the ladder rests securely.
- Triple-riveted connection between rung and stile.
- Treads and stiles made from extruded aluminium sections.
- Outside width: 380 mm.

Optional special equipment (see also pages 210/211)



Ladder length m	Working height, approx. m	Stile height mm	No. of treads	Weight kg	Order No.
1.66	2.65	48	6	4.0	41602
2.14	3.15	48	8	5.0	41604
2.61	3.60	48	10	6.4	41606
2.99	4.05	48	12	7.9	41608



#### Z 500 Seventec single ladder with treads

The deep treads and 7-point tread-stile connection ensure a high degree of comfort, safe standing and extremely high stability.

- Especially light and therefore easy to carry.
- 85 mm deep treads with safe, non-slip serrated surfaces 85 mm.
- Smooth external stile surfaces that are comfortable to hold.
- 7-point connection between tread and stile with reinforcing in the centre of the tread.
- Treads and stiles made from extruded aluminium sections.
- Outside width: 400 mm.
- Inside width: 360 mm.



In accordance with DIN EN 131-1, order No. 40384 includes a stabiliser bar.

Ladder length m	Working height, approx. m	Stile height mm	Horizontal stabiliser bar m	No. of treads	Weight kg	Order No.
2.08	3.05	87	-	8	5.8	40378
2.54	3.45	87	-	10	7.2	40380
2.99	3.90	87	-	12	8.5	40382
3.42	4.35	87	0.80	14	11.4	40384



#### All-GRP single ladder with rungs



The safety ladder for quick application in chemical or electrical environments.

- Stiles and rungs (30 mm × 30 mm) made from glass-fibre-reinforced plastic for particularly high chemical resistance.
- Complies with the high-voltage test for ladders of insulating material in accordance with DIN EN 61 478 or VDE 0682 Section 6.5 Category 1/30 KV.
- Resistance to ageing in accordance with DIN EN ISO 4892-2.
- Suitable for use in high-voltage environments (1,000 V AC, 1,500 V DC).
- Outside width: 420 mm particularly stable.



#### Note:

In accordance with DIN EN 131-1 order No. 41255 includes a stabiliser bar.

Ladder length m	Working height, approx. m	Stile height mm	Horizontal stabiliser bar m	Number of rungs	Weight kg	Order No.
1.92	2.80	58	-	6	5.6	41251
2.99	3.85	58	-	10	8.6	41253
4.16	4.95	73	0.90	14	12.4	41255

#### Z 600

#### Wooden single ladder with rungs



The alternative in material and price: pleasant to grip at all temperatures, popular on building sites and with painters.

- Stiles of high-quality, selected pinewood with yellow-brown staining, beech rungs, pine stiles.
- Glued and coated mortise and tenon joints between rungs and stiles.
- Tensioning screws for additional safety and stability.
- Low thermal conductivity therefore always pleasant to grip, even when used outdoors in winter.
- Outside width: 380 mm.

Ladder length	n m	Working height, approx. m	Stile height mm	Number of rungs	Weight kg	Order No.
2.37		3.15	66	8	6.5	40008
2.93		3.75	66	10	8.5	40010

#### Hook-on shelf ladders

These flexible ladders ensure safe access to shelving and can be adapted to the required height.

The shelf ladders have two hooks for the guide rail and additional hooks for vertical storage on the shelf.

#### Note:

Please quote the distance between the floor and the top edge of the tubular rail when ordering!

#### Hook-on shelf ladders are available in the following versions:







#### 1. Screwed tread with padded front edge (outside ladder with: 380 mm)

From/to maximum vertical hook-on height m	No. of treads	Order No.
1.30-1.50	6	41402
1.51-1.73	7	41403
1.74-1.94	8	41404
1.95-2.17	9	41405
2.18-2.39	10	41406
2.40-2.60	11	41407
2.61-2.83	12	41408

Base stand-off = vertical height of the guide rail  $\times$  0.404

# 0

#### 2. edge-formed tread with ZARGES Safer Step Technology (outside ladder width: 420 mm)

From/to ma	ximum vertical hook-on height m	No. of treads	Order No.
	1.31-1.78	6	1041356
	1.79-2.28	8	1041358
	2.29-2.82	10	1041360
	2.83-3.35	12	1041362
	3.36-3.87	14	1041364

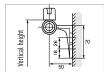
Base stand-off = vertical height of the guide rail  $\times$  0.364

#### 3. edge-formed wide rung (outside ladder with: 380 mm)

o. cage formed wide rung (outside duder with, 500 mm)					
From/to maximum vertical hook-on height m	No. of treads	Order No.			
1.22-1.68	6	41081			
1.69-2.20	8	41082			
2.21-2.73	10	41083			
2.74-3.26	12	41084			
3.27-3.79	14	41085			
3.80-4.31	16	41086			

Base stand-off = vertical height of the guide rail  $\times$  0.364

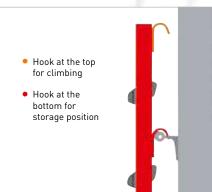


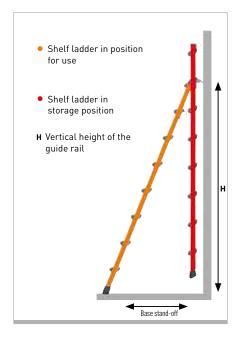


#### **Accessories**

Tubular rail	Order No.
Aluminium alloy tube, ∅ 30 mm, 3,000 mm long, anodised	40370
Aluminium alloy intermediate bracket	41457
Aluminium alloy bracket with stop on the right	41458
Aluminium alloy bracket with stop on the left	41459

Rail systems: one intermediate bracket to be provided for each approx. 1.00 m length of tubing.





#### Mobile shelf ladder



#### Note:

Please quote the distance between the floor and the top edge of the tubular rail when ordering!

For easy travel backwards and forwards along your shelving: The solution with guide rails and self-locking sprung castors is individually height-adjustable.

- Both the top of the ladder and the self-locking sprung castors at the bottom lock the shelf ladder when weight is applied.
- When not in use, the ladder can be stowed vertically on the shelf to save space.

#### $\label{thm:mobile} \mbox{Mobile shelf ladders are available in the following versions:}$







#### 1. Screwed tread with padded front edge (outside ladder width: 380 mm)

From/to maximum vertical hook-on height m	Number of treads	Order No.
1.68-1.89	6	41412
1.90-2.13	7	41413
2.14-2.34	8	41414
2.35-2.56	9	41415
2.57-2.78	10	41416
2.79-3.00	11	41417
3.01-3.22	12	41418

Base stand-off = vertical height of the guide rail  $\times \, 0.404$ 

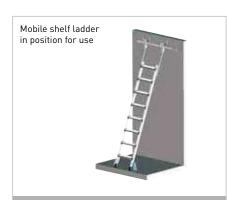
#### 2. edge-formed tread with ZARGES Safer Step Technology (outside ladder width: 420 mm)

From/to maximum vertical hook-on height m	Number of treads	Order No.
1.67-2.16	6	1141356
2.17-2.67	8	1141358
2.68-3.20	10	1141360
3.21-3.72	12	1141362
3.73-4.25	14	1141364

Base stand-off = vertical height of the guide rail  $\times$  0.364

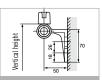
5. euge-101 meu wide i ung (outside tadder with: 500 mm)				
From/to maximum vertical hook-on height m	Number of treads	Order No.		
1.59-2.06	6	41071		
2.07-2.58	8	41072		
2.59-3.11	10	41073		
3.12-3.64	12	41074		
3.65-4.16	14	41075		
4.17-4.69	16	41076		

Base stand-off = vertical height of the guide rail  $\times$  0.364



Mobile shelf ladder in storage position





#### **Accessories**

Tubular rail	Order No.
Aluminium alloy tube, Ø 30 mm, 3,000 mm long, anodised	40370
Aluminium alloy intermediate bracket	41457
Aluminium alloy bracket with stop on the right	41458
Aluminium alloy bracket with stop on the left	41459

Rail systems: one intermediate bracket to be provided for each approx. 1.00 m length of tubing.

# **ZARGES push-up and rope-operated ladders –** highly flexible in the best sense of the word.



#### Push-up ladder, 2-part



The convenient solution for working at great heights with maximum ladder width for comfortable climbing and safe standing.

- High level of stability thanks to extra-wide lower ladder (490 mm).
- From length of 8.30 m upper ladder with wheel assemblies. Wall wheels with wear-resistant surfaces that will not damage the wall.
- Convenient and precise rung-by-rung height adjustment in increments of 280 mm.
- Both parts of the ladder can also be used separately as single ladders for Order Nos. 40245-40247
- Plastic anti-friction insert with lift-off retainer.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping.

Optional special equipment (see also page 210/211)



Ladder length, extended, m	Ladder length, retracted m	Working height, max. approx. m	Stile height mm	Horizontal stabiliser bar m	Number of rungs	Weight kg	Order No.
2.95	1.83	3.80	58	-	2 × 6	6.0	40245
4.07	2.39	4.85	58	0.90	2 × 8	9.8	40246
4.96	3.00	5.75	68	1.00	2 × 10	13.5	40247
6.09	3.56	6.80	73	1.10	2 × 12	18.0	40248
7.21	4.07	7.90	73	1.20	2 × 14	19.5	40249
8.33	4.70	9.00	98	1.20	2 × 16	25.0	40214
9.13	5.20	9.75	98	1.20	2 × 18	27.5	40215
10.25	5.74	10.85	114	1.20	2 × 20	33.0	40216
12.22	6.90	12.75	114	1.20	2 × 24	41.5	40217

#### Z 500

#### Push-up ladder, 2-part



Compact dimensions for easy transport, and the inexpensive option for reaching great heights.

- External width of lower ladder: 420 mm.
- Convenient and precise rung-by-rung height adjustment in increments of 280 mm.
- Both parts of the ladder can also be used separately as single ladders for Order No. 41279
- Plastic anti-friction insert with lift-off retainer.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping.
- The upper ladder is also fitted with end caps.



Ladder length, extended, m	Ladder length, retracted m	Working height, max. approx. m	Stile height mm	Horizontal stabiliser bar m	Number of rungs	Weight kg	Order No.
4.67	2.72	5.45	68	0.90	2 × 9	10.1	41279
5.47	3.23	6.20	73	0.90	2 × 11	13.2	41281
6.09	3.56	6.80	73	1.00	2 × 12	15.1	41282
6.59	3.79	7.30	73	1.10	2 × 13	17.2	41283
7.21	4.07	7.90	98	1.10	2 × 14	18.4	41284
7.72	4.36	8.40	98	1.20	2 × 15	19.6	41285

#### Rope-operated ladder, 2-part

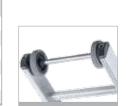
Easy and convenient height adjustment makes this ladder ideal for use to access great heights.

- High level of stability thanks to extra-wide lower ladder (490 mm).
- Very easy and convenient rung-by-rung height adjustment in increments of 280 mm via synthetic rope and roller.
- Locks securely thanks to automatic spring loaded pawls.
- Strong ZARGES quality triple-formed joints connecting rung and stile.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping.
- Upper ladder fitted with wall wheels. Wall wheels with wear-resistant surfaces that will not damage the wall.

Optional special equipment (see also pages 210/211)









Ladder length, extended, m	Ladder length, retracted m	Working height, max. approx. m	Stile height mm	Horizontal stabiliser bar m	Number of rungs	Weight kg	Order No.
7.21	4.14	7.90	73	1.20	2 × 14	22.8	40206
8.33	4.70	9.00	98	1.20	2 × 16	24.7	40207
9.13	5.20	9.75	98	1.20	2 × 18	30.9	40208
10.25	5.74	10.85	114	1.20	2 × 20	33.8	40209
11.10	6.40	11.70	114	1.20	2 × 22	37.9	40212
12.22	6.90	12.75	114	1.20	2 × 24	42.6	40210

#### Rope-operated ladder, 2-part Z 500

The inexpensive alternative with compact dimensions and all the advantages as a means of access to great heights.

- External width of lower ladder: 420 mm.
- Very easy and convenient rung-by-rung height adjustment in increments of 280 mm via synthetic rope and roller.
- Locks securely thanks to automatic spring loaded pawls.
- Strong ZARGES quality triple-formed joints connecting rung and stile.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping.
- Upper ladder fitted with plastic wall wheels.



Ladder length, extended, m	Ladder length, retracted m	Working height, max. approx. m	Stile height mm	Horizontal stabiliser bar m	Number of rungs	Weight kg	Order No.
8.35	4.70	9.00	85	1.20	2 × 16	22.7	41296
8.60	4.95	9.25	98	1.20	2 × 17	25.9	41297
9.15	5.20	9.80	98	1.20	2 × 18	27.8	41298
9.70	5.50	10.30	98	1.20	2 × 19	30.9	41299
10.25	5.75	10.85	114	1.20	2 × 20	32.6	41300





#### Push-up ladder, 3-part



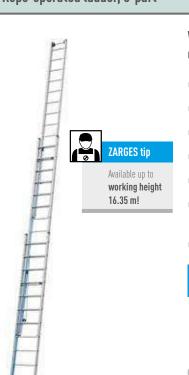
Compact transport dimensions yet still ideal for reaching great heights.

- Convenient and precise rung-by-rung height adjustment in increments of 280 mm.
- Plastic anti-friction insert with lift-off retainer.
- Upper ladder can also be used separately as single ladders for Order Nos. 40127-40128.
- External width of lower ladder: 490 mm.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping.
- Rungs and stiles made from aluminium extrusions.

Ladder length, extended, m	Ladder length, retracted m	Working height, max. approx. m	Stile height mm	Horizontal stabiliser bar m	Number of rungs	Weight kg	Order No.
5.80	2.44	6.55	73	1.00	3 × 8	16.1	40127
6.92	2.98	7.65	73	1.10	3 × 10	21.1	40128
8.60	3.60	9.25	98	1.20	3 × 12	26.2	40129

#### 7 600

#### Rope-operated ladder, 3-part



When you need access to great heights: Optimised transport dimensions, working heights of up to 16.35 m with convenient height adjustment.

- Two ropes for separate height adjustment of the centre and upper ladders.
- Rung-by-rung height adjustment in increments of 280 mm.
- Optimised plastic guide.
- Wall wheels with wear-resistant surfaces that will not damage the wall.
- Locks securely thanks to automatic spring loaded pawls.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping.
- Rungs and stiles made from aluminium extrusions.



#### Note:

The ladders with the **Order Nos. 40448 and 40449** are equipped with 2 aluminium alloy supports for easy erection and stabilisation. (Not to be used as free-standing ladders!)

Ladder length, ex- tended, m	Ladder length, re- tracted m	Working height, max. approx. m	Outside width of lower ladder mm	Stile height mm	Horizontal stabiliser bar m	Number of rungs	Weight kg	Order No.
10.55	4.40	11.15	560	86/98	1.20	3 × 15	45.0	40446
12.55	5.25	13.10	560	86/98	1.20	3 × 18	53.0	40447
14.20	5.80	14.70	590	98 / 98	-	3 × 20	68.0	40448
15.90	6.40	16.35	590	98 / 98	-	3 × 22	74.0	40449





#### All-GRP push-up ladder, 2-part

Fibreglass ladder for access to great heights, for use in electrical and chemical environments.

- Stiles and rungs (30 mm × 30 mm) made from glass-fibre-reinforced plastic for particularly high chemical resistance.
- Convenient and precise rung-by-rung height adjustment in increments of 280 mm.
- Both parts of the ladder can also be used separately as single ladders for Order Nos. 41288-41290
- Complies with the high-voltage test for ladders of insulating material in accordance with DIN EN 61 478 or VDE 0682 Section 6.5 Category 1/30 KV.
- Suitable for use in high-voltage environments (1,000 V AC, 1,500 V DC).
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping.



Ladder length, extended, m	Ladder length, retracted m	Working height, max. approx. m	Stile height mm	Horizontal stabiliser bar m	Number of rungs	Weight kg	Order No.
4.17	2.44	4.95	73	0.80	2 × 8	14.3	41288
4.91	2.95	5.70	73	0.90	2 × 10	19.5	41290
6.03	3.51	6.75	73	1.00	2 × 12	23.3	41292

#### 7 400

#### Push-up ladder, 2-part, GRP composite construction

Lightweight composite construction for electrical environments.

- Aluminium rungs (30 mm × 30 mm) with non-slip ribbing.
- Convenient and precise rung-by-rung height adjustment in increments of 280 mm.
- High level of protection provided for working on electrical installations thanks to insulated stiles made from glass-fire-reinforced plastic.
- Complies with the high-voltage test for ladders of insulating material in accordance with DIN EN 61 478 or VDE 0682 Section 6.5 Category 1/30 KV.
- Both parts of the ladder can also be used separately as single ladders for Order No. 41163
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping.
- External width of lower ladder: 430 mm.

Ladder length, extended, m	Ladder length, retracted m	Working height, max. approx. m	Stile height mm	Horizontal stabiliser bar m	Number of rungs	Weight kg	Order No.
4.90	2.90	5.65	73	0.90	2 × 10	17.9	41163
6.02	3.46	6.75	73	1.00	2 × 12	20.9	41164



#### All-GRP rope-operated ladder, 2-part



For special applications at great heights: the special ladder for working in high-voltage or chemical environments, with convenient height adjustment.

- Stiles and rungs (30 mm × 30 mm) made from glass-fibre-reinforced plastic for particularly high chemical resistance.
- Very easy and convenient rung-by-rung height adjustment in increments of 280 mm via synthetic rope and roller.
- Wall wheels with a surface that will not damage the wall.
- Complies with the high-voltage test for ladders of insulating material in accordance with DIN EN 61 478 or VDE 0682 Section 6.5 Category 1/30 KV.
- Resistance to ageing in accordance with DIN EN ISO 4892-2.
- Suitable for use in high-voltage environments (1,000 V AC, 1,500 V DC).
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping.

Ladder length, extended, m	Ladder length, retracted m	Working height, max. approx. m	Stile height mm	Horizontal stabiliser bar m	Number of rungs	Weight kg	Order No.
7.17	4.09	7.90	90	1.10	2 × 14	32.6	41274
8.00	4.64	8.70	90	1.20	2 × 16	43.1	41276

#### Z 600

#### Push-up ladder, 2-part, GRP composite construction



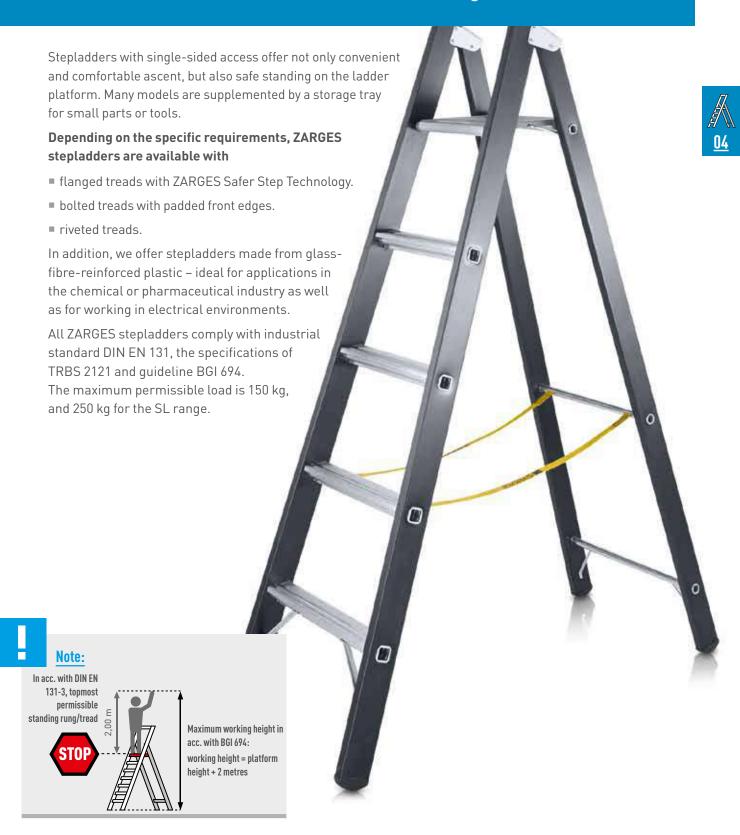
The lightweight ladder for exacting requirements: convenient vertical height adjustment for use in confined spaces in electrical environments.

- Aluminium rungs (30 mm × 30 mm).
- Very easy and convenient rung-by-rung height adjustment in increments of 280 mm via synthetic rope and roller.
- High level of protection provided for working on electrical installations thanks to insulated stiles made from glass-fire-reinforced plastic.
- Complies with the high-voltage test for ladders of insulating material in accordance with DIN EN 61 478 or VDE 0682 Section 6.5 Category 1/30 KV.
- Locks securely thanks to automatic spring loaded pawls.
- Wall wheels with a surface that will not damage the wall.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping.
- External width of lower ladder: 430 mm.

Ladder length, extended, m	Ladder length, retracted m	Working height, max. approx. m	Stile height mm	Horizontal stabiliser bar m	Number of rungs	Weight kg	Order No.
7.17	4.04	7.85	90	1.10	2 × 14	30.1	41161
8.29	4.60	8.95	90	1.20	2 × 16	34.7	41162



# ZARGES stepladders with single-sided access – comfortable access and safe standing.



#### Flanged R13 stepladder with treads, anodised





Safer ascent with the highest non-slip performance thanks to R13 treads for oily and wet environments.

- 80 mm deep treads with R13 surface and perforations to drain fast.
- Wear-resistant, anodised stiles.
- Practical aluminium storage tray for small items and
- Platform made from extruded aluminium (300 mm × 250 mm) with R13 surface for safer and comfortable standing even when working for longer periods of time.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping and at the same time provide firm seating in the stile.
- High-strength anti-splay straps, from 5 treads.

Optional special equipment (see also page 210/211)





#### **ZARGES** tip

Platform and treads with R13 surface.



Tread with R13 surface



Large standing platform, 300 x 250 mm with R13 surface.



ZARGES quality triple-formed joints



Storage tray

Ladder length m	Platform height m	Working height, approx. m	Lower, outside width m	Stile height access/ support section mm	Number of treads incl. platform	Weight kg	Order No.
1.59	0.80	2.80	0.50	73 / 58	3	8.3	41636
1.87	1.06	3.10	0.53	73 / 58	4	9.8	41637
2.15	1.33	3.35	0.56	73 / 58	5	10.5	41638
2.43	1.59	3.60	0.59	73 / 58	6	11.5	41639
2.71	1.85	3.85	0.62	73 / 58	7	12.3	41640
2.99	2.12	4.15	0.65	73 / 58	8	12.8	41641
3.55	2.64	4.65	0.71	73 / 58	10	16.1	41642

#### Heavy-duty stepladder



The strongest of all our ladders: high load capacity and modern design for the most exacting requirements.

- Max. load 250 kg.
- Wide aluminium alloy rungs, 60 mm deep, with non-slip ribbing.
- Black, wear-resistant anodised stiles.
- Platform made from aluminium extrusion (250 mm × 250 mm) for safe and comfortable standing even when working for longer periods.
- Practical aluminium storage tray for small items and tools.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping and at the same time provide firm seating in the stile.
- High-strength anti-splay straps, on models with 4 rungs or more.

Optional special equipment (see also pages 210/211)









Ladder length m	Platform height m	Working height, ap- prox. m	Lower, outside width m	Stile height access/support section mm	No. of rungs incl. plat- form	Weight kg	Order No.
1.59	0.80	2.80	0.44	73 / 58	3	6.2	41145
1.87	1.06	3.10	0.47	73 / 58	4	7.3	41146
2.15	1.33	3.35	0.50	73 / 58	5	8.0	41147
2.43	1.59	3.60	0.53	73 / 58	6	8.6	41148
2.99	2.12	4.15	0.59	73 / 58	8	9.6	41149





#### Z 500

#### Stepladder with flanged treads



- Z 500 tread with ZARGES Safer Step Technology, 80 mm deep.
- Stiles and treads made from natural aluminium.
- Practical aluminium storage tray for small items and tools.
- Platform made from aluminium extrusion (250 mm × 250 mm) for safe and comfortable standing even when working for longer periods of time.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping and at the same time provide firm seating in the stile.
- High-strength anti-splay straps, from 5 rungs.





Ladder length m	Platform height m	Working height, approx. m	Lower, outside width m	Stile height access/support section mm	Number of treads incl. platform	Weight kg	Order No.
1.54	0.76	2.75	0.44	68 / 48	3	7.1	41593
1.82	1.02	3.00	0.47	68 / 48	4	8.3	41594
2.10	1.29	3.30	0.50	68 / 48	5	9.2	41595
2.38	1.55	3.55	0.53	68 / 48	6	10.1	41596
2.66	1.81	3.80	0.56	68 / 48	7	10.9	41597
2.94	2.08	4.10	0.59	68 / 48	8	11.6	41598
3.50	2.59	4.60	0.65	68 / 48	10	13.1	41599







#### Stepladder with padded front treads and non-slip rubber coating



**ZARGES** tip

coating.

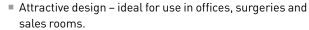
Maximum safety and comfort

thanks to non-slip rubber



The perfect solution for stylish surroundings: high utility value, non-slip steps and pleasing design.

- Treads 80 mm deep with anti-slip serrated rubber coating.
- Wear-resistant, anodised stiles.
- Shin-protecting padding.
- Solid safety platform made from diecast aluminium  $(250 \text{ mm} \times 250 \text{ mm}).$



- Bolted connection between treads and stiles.
- Treads and stiles made from extruded aluminium sections.
- High-strength anti-splay straps, from 4 rungs.

Optional special equipment (see also page 210/211)

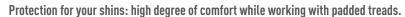


Ladder length m	Platform height m	Working height, approx. m	Lower, outside width m	Stile height access/support section mm	Number of treads incl. platform	Weight kg	Order No.
1.36	0.66	2.70	0.43	48 / 42	3	4.9	40131
1.60	0.88	2.90	0.46	48 / 42	4	6.0	40132
1.84	1.10	3.10	0.48	48 / 42	5	7.0	40133
2.07	1.32	3.35	0.51	48 / 42	6	8.2	40134
2.31	1.54	3.55	0.53	48 / 42	7	9.3	40135
2.55	1.76	3.80	0.56	48 / 42	8	10.4	40136

#### Stepladder with padded front treads







- Shin-protecting padding on front tread edges.
- Wear-resistant, anodised stiles.
- Treads with plastic caps on the front edges.
- Solid safety platform made from diecast aluminium (250 mm × 250 mm).
- Practical aluminium storage tray for small items and tools.
- Bolted connection between treads and stiles.
- Treads and stiles made from extruded aluminium sections.
- High-strength anti-splay straps, from 4 rungs.







Ladder length m	Platform height m	Working height, approx. m	Lower, outside width m	Stile height access/support section mm	Number of treads incl. platform	Weight kg	Order No.
1.41	0.66	2.70	0.43	42 / 42	3	4.4	41421
1.65	0.88	2.90	0.46	42 / 42	4	4.9	41422
1.89	1.10	3.10	0.48	42 / 42	5	5.8	41423
2.13	1.32	3.35	0.51	42 / 42	6	6.9	41424
2.36	1.54	3.55	0.53	48 / 42	7	8.2	41425
2.60	1.76	3.80	0.56	48 / 42	8	9.6	41426
3.08	2.20	4.20	0.61	48 / 42	10	11.8	41427
3.55	2.64	4.65	0.66	48 / 42	12	14.6	41428

#### Stepladder with riveted treads, anodised



Low weight, simple handling and a good price/performance ratio.

- Wear-resistant, anodised stiles.
- Stand without fatigue on 80 mm deep treads.
- Solid safety platform made from diecast aluminium (250 mm × 250 mm).
- Spacious aluminium storage tray for material and tools.
- Triple-riveted connection between rung and stile.
- Non-slip plastic end caps.
- Treads and stiles made from extruded aluminium sections.
- High-strength anti-splay straps, from 4 rungs.

Optional special equipment (see also page 210/211)



Ladder length m	Platform height m	Working height, approx. m	Lower, outside width m	Stile height access/support section mm	Number of treads incl. platform	Weight kg	Order No.
1.41	0.67	2.70	0.43	42 / 42	3	3.7	41223
1.64	0.89	2.90	0.45	42 / 42	4	4.4	41224
1.88	1.11	3.10	0.48	42 / 42	5	5.1	41225
2.12	1.33	3.35	0.51	42 / 42	6	5.9	41226
2.36	1.55	3.55	0.53	48 / 42	7	7.0	41227
2.59	1.77	3.80	0.56	48 / 42	8	8.3	41228
3.07	2.21	4.20	0.61	48 / 42	10	10.1	41230







#### Stepladder with riveted treads Z 500

The basic version of our stepladders with treads in particularly lightweight design and at a favourable price.

- Stiles and treads made from natural aluminium.
- Stand without fatigue on 80 mm deep treads.
- Solid safety platform made from diecast aluminium (250 mm × 250 mm).
- Spacious aluminium storage tray for material and tools.
- Triple-riveted connection between rung and stile.
- Non-slip plastic end caps.
- Treads and stiles made from extruded aluminium sections.
- High-strength anti-splay straps, from 4 rungs.



Ladder length m	Platform height m	Working height, approx. m	Lower, outside width m	Stile height access/support section mm	Number of treads incl. platform	Weight kg	Order No.
1.41	0.67	2.70	0.43	42 / 42	3	3.7	41643
1.64	0.89	2.90	0.45	42 / 42	4	4.4	41644
1.88	1.11	3.10	0.48	42 / 42	5	5.1	41645
2.12	1.33	3.35	0.51	42 / 42	6	5.9	41646
2.36	1.55	3.55	0.53	48 / 42	7	7.0	41647
2.59	1.77	3.80	0.56	48 / 42	8	8.3	41648







#### Stepladder with flanged treads, and large platform and storage tray









Safe standing on very large platform, non-slip ascent and descent thanks to Safer Step Technology.

- 80 mm deep treads with ZARGES Safer Step Technology for fatigue-free standing.
- Particularly large-area work platform with ribbed aluminium sheet lining (380 mm x 390 mm).
- Practical aluminium storage tray for small items and tools.
- With two handrails as standard for safe access.



- Optimum stability due to the use of two high-strength anti-splay straps, from 5 treads.
- Treads and stiles made from extruded aluminium sections.

Optional special equipment (see also page 210/211)





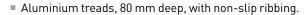




Ladder length m	Platform height m	Working height, approx. m	Lower, outside width m	Stile height access/support section mm	Number of treads incl. platform	Weight kg	Order No.
1.92	0.77	2.80	0.59	73 / 58	3	9.5	41632
2.20	1.03	3.00	0.62	73 / 58	4	10.7	41633
2.48	1.29	3.30	0.65	73 / 58	5	12.1	41634
2.75	1.55	3.55	0.68	73 / 58	6	13.8	40477
3.32	2.07	4.10	0.74	73 / 58	8	16.7	40478
3.88	2.59	4.60	0.80	73 / 58	10	20.3	40479
4.44	3.11	5.10	0.86	73 / 58	12	23.3	41635

#### GRP stepladder with flanged treads, GRP composite construction





- Suitable for working on electrical installations thanks to insulated stiles made from glass-fibre-reinforced plastic.
- Safety platform (250 mm × 250 mm).
- Safe storage of accessories and tools in plastic storage tray.
- Only 88 mm wide when folded.
- Treads made of aluminium extrusion.





Ladder length m	Platform height m	Working height, approx. m	Lower, outside width m	Stile height access/support section mm	Number of treads incl. platform	Weight kg	Order No.
1.40	0.68	2.70	0.42	50/50	3	6.0	40431
1.65	0.91	2.90	0.44	50/50	4	7.0	40432
1.90	1.14	3.15	0.47	50 / 50	5	8.0	40433
2.15	1.37	3.35	0.49	50 / 50	6	9.0	40434
2.40	1.60	3.60	0.52	50 / 50	7	10.0	40435

#### **Z 500** Seventec RC stepladder with perforated treads

The stepladder for optimal safety in outdoor areas or wet and dirty environments.

- Extra-wide 85 mm treads with ribbed profile for grip, and perforations to allow liquids to drain quickly.
- Large safety platform (380 mm × 260 mm) with integrated hinged connection.
- Reflective strips on the stiles to improve visibility in poor visual conditions.
- High stability thanks to fold-down locking bar on both sides.
- Two integrated bucket hooks.
- 7-point connection between tread and stile with reinforcing in the centre of the tread
- Smooth, grip-friendly external stile surfaces.
- Treads and stiles made from extruded aluminium sections.
- Practical storage tray with plenty of space for tools and small parts.



Ladder length m	Platform height m	Working height, approx. m	Lower, outside width m	Stile height access/support section mm	Number of treads incl. platform	Weight kg	Order No.
1.44	0.70	2.70	0.45	87	3	6.3	40493
1.67	0.90	2.90	0.47	87	4	7.9	40494
1.90	1.10	3.10	0.49	87	5	8.1	40495

#### Z 500 Seventec 311 stepladder with treads and safety platform

High stability, comfortable ascent and descent due to deep treads and smooth external stile surfaces that are comfortable to grip.

- Treads 85 mm deep for safe standing.
- Large safety platform (380 mm × 260 mm) with integrated hinged connection.
- High stability thanks to fold-down locking bar on both sides.
- Two integrated bucket hooks.
- 7-point connection between tread and stile with reinforcing in the centre of the tread.
- Smooth, grip-friendly external stile surfaces.
- Treads and stiles made from extruded aluminium sections.
- Practical storage tray with plenty of space for tools and small parts.

Ladder length m	Platform height m	Working height, approx. m	Lower, outside width m	Stile height access/support section mm	Number of treads incl. platform	Weight kg	Order No.
1.44	0.70	2.70	0.45	87	3	6.0	40333
1.67	0.90	2.90	0.47	87	4	7.0	40334
1.90	1.10	3.10	0.49	87	5	8.0	40335
2.13	1.35	3.35	0.52	87	6	9.0	40336
2.35	1.55	3.55	0.54	87	7	10.5	40337
2.60	1.75	3.75	0.56	87	8	13.0	40338
3.05	2.20	4.20	0.61	87	10	14.0	40340







# **ZARGES** stepladders with double-sided access – safe and flexible.

Stepladders with double-sided access are the ideal solution for quick jobs requiring flexible access. Due to their design, stepladders with double-sided access offer safe standing at great heights and are available with up to 20 rungs for working heights of up to 6.70 m.



#### Z 600

#### Stepladder with R13 treads, double-sided access, anodised



The ladder with the highest non-slip performance thanks to R13 treads for oily and wet environments.

80 mm deep treads with R13 surfaces as well as perforations to allow liquids to drain quickly.

Wear-resistant, anodised stiles.

Hinges of diecast aluminium.

Replaceable 2-component plastic end caps ensure positioning without risk of slipping and at the same time provide firm seating in the stile.

High-strength anti-splay straps.

Optional special equipment (see also pages 210/211)









Sturdy attachment of the straps



ZARGES quality triple-formed joints



Joint made from diecast aluminium

Ladder length m	Vertical ladder height approx. m	Working height, approx. m	Lower, outside width m	Stile height mm	No. of treads	Weight kg	Order No.
0.88	0.80	2.30	0.44	73	2 × 3	5.8	41549
1.15	1.06	2.55	0.47	73	2 × 4	7.2	41551
1.42	1.32	2.80	0.50	73	2 × 5	8.4	41553
1.70	1.58	3.05	0.53	73	2 × 6	9.3	41555
1.98	1.84	3.30	0.56	73	2 × 7	10.1	41557
2.27	2.10	3.60	0.59	73	2 × 8	11.5	41559
2.83	2.62	4.15	0.65	73	2 × 10	14.7	41561
3.39	3.15	4.65	0.71	73	2 × 12	17.8	41563
3.95	3.67	5.20	0.77	73	2 × 14	22.6	41565
4.51	4.21	5.70	0.83	73	2 × 16	26.6	41567

#### **Accessories**

Designation	Order No.
Folding bracket	8206



#### Heavy-duty stepladder, double-sided access





High load capacity with a distinctive black, anodised finish

- Max. load 250 kg.
- Wide aluminium alloy rungs, 60 mm deep, with non-slip ribbing.
- Black, wear-resistant anodised stiles.
- Strong steel hinges.
- Rungs and stiles made from aluminium extrusions.
- High-strength anti-splay straps.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping and at the same time provide firm seating in the stile.

Optional special equipment (see also page 210/211)









Ladder length m	Vertical ladder height approx. m	Working height, approx. m	Lower, outside width m	Stile height mm	Number of rungs	Weight kg	Order No.
1.22	1.20	2.50	0.47	73	2 × 4	6.9	41189
1.50	1.47	2.75	0.50	73	2 × 5	8.0	41190
1.78	1.73	3.00	0.53	73	2 × 6	8.9	41191
2.34	2.27	3.55	0.59	73	2 × 8	11.9	41192

### Stepladder with flanged treads, double-sided access





Low weight and an optimum price/performance ratio ensure great value for money in a stepladder suitable for flexible requirements.

- Z 500 tread with ZARGES Safer Step Technology, 80 mm deep.
- Stiles and treads made from natural aluminium.
- Hinges of diecast aluminium.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping and at the same time provide firm seating in the stile.
- High-strength anti-splay straps.

Optional special equipment (see also page 210/211)









Ladder length m	Vertical ladder height approx. m	Working height, approx. m	Lower, outside width m	Stile height mm	No. of treads	Weight kg	Order No.
0.83	0.76	2.25	0.44	68	2 × 3	5.0	41583
1.11	1.02	2.50	0.47	68	2 × 4	6.5	41584
1.39	1.29	2.80	0.50	68	2 × 5	8.0	41585
1.67	1.55	3.05	0.53	68	2 × 6	8.6	41586
1.95	1.81	3.30	0.56	68	2 × 7	9.1	41587
2.23	2.07	3.55	0.59	68	2 × 8	10.3	41588
2.79	2.60	4.10	0.65	68	2 × 10	14.0	41590
3.35	3.12	4.60	0.71	68	2 × 12	16.8	41592

#### Stepladder with treads with padded front edges, double-sided access



Shin protection during ascent and descent and attractive design ensure high comfort when working and a flexible range of applications.

- Step areas of treads are 80 mm deep.
- Wear-resistant, anodised stiles.
- Shin-protecting padding on front tread edges.
- Treads with plastic caps on the front edges.
- Non-slip plastic end caps.
- High-strength Perlon belts prevent splay.
- Treads and stiles made from extruded aluminium sections.
- Bolted connection between treads and stiles

Optional special equipment (see also page 210/211)







**ZARGES** tip

padded treads.



length m	height approx. m	height, approx. m	width m	mm			
0.74	0.66	2.25	0.43	42	2 × 3	4.2	41432
0.98	0.88	2.45	0.46	42	2 × 4	5.5	41433
1.22	1.10	2.70	0.48	42	2 × 5	5.9	41434
1.45	1.32	2.90	0.51	42	2 × 6	8.3	41435
1.69	1.54	3.15	0.53	42	2 × 7	9.8	41436
1.93	1.76	3.35	0.56	42	2 × 8	11.7	41437
2.40	2.20	3.80	0.61	48	2 × 10	16.1	41438
2.88	2.64	4.25	0.66	48	2 × 12	20.7	41439

Ladder Vertical ladder Working Lower, outside Stile height No. of treads Weight kg



### Seventec 302 stepladder with treads, double-sided access

Stable and comfortable: deep treads for safe standing, smooth stiles that are comfortable to hold.

- Treads 85 mm deep for safe standing.
- 7-point connection between tread and stile with reinforcing in the centre of the
- Sturdy hinged connection integrated in the treads.
- High stability thanks to fold-down locking bar on both sides.
- Treads and stiles made from extruded aluminium sections.
- Non-slip plastic end caps.



Ladder length m	Vertical ladder height approx. m	Working height, approx. m	Lower, outside width m	Stile height mm	No. of treads	Weight kg	Order No.
0.74	0.66	2.25	0.41	87	2 × 3	4.5	40353
0.97	0.88	2.45	0.43	87	2 × 4	6.0	40354
1.20	1.10	2.65	0.45	87	2 × 5	7.5	40355
1.43	1.31	2.85	0.47	87	2 × 6	9.0	40356
1.66	1.53	3.10	0.50	87	2 × 7	10.5	40357
1.90	1.74	3.35	0.52	87	2 × 8	12.0	40358
2.35	2.18	3.75	0.56	87	2 × 10	15.5	40360





#### Stepladder with riveted treads, double-sided access, anodised





Low weight and optimum price/performance ratio without compromising on comfort or equipment.

- Wear-resistant, anodised stiles.
- Stand without fatigue on 80 mm deep treads.
- Triple-riveted connection between rung and stile.
- High-strength anti-splay straps.
- Treads and stiles made from extruded aluminium sections.

Optional special equipment (see also page 210/211)







Ladder length m	Vertical ladder height approx. m	Working height, approx. m	Lower, outside width m	Stile height mm	No. of treads	Weight kg	Order No.
0.72	0.66	2.20	0.43	42	2 × 3	3.2	41263
0.96	0.88	2.45	0.45	42	2 × 4	4.1	41264
1.20	1.10	2.65	0.48	42	2 × 5	5.1	41265
1.44	1.32	2.90	0.50	42	2 × 6	6.1	41266
1.68	1.54	3.10	0.53	42	2 × 7	7.2	41267
1.92	1.76	3.35	0.55	48	2 × 8	9.0	41268
2.39	2.19	3.80	0.60	48	2 × 10	12.4	41270

### Stepladder with riveted treads, double-sided access



The standard version for flexible use: value for money and low weight.

- Stiles and treads made from natural aluminium.
- Stand without fatigue on 80 mm deep treads.
- Triple-riveted connection between rung and stile.
- High-strength anti-splay straps.
- Treads and stiles made from extruded aluminium sections.
- Non-slip plastic end caps.

Optional special equipment (see also page 210/211)







Ladder length m	Vertical ladder height approx. m	Working height, approx. m	Lower, outside width m	Stile height mm	No. of treads	Weight kg	Order No.
0.72	0.66	2.20	0.43	42	2 × 3	3.2	41663
0.96	0.88	2.45	0.45	42	2 × 4	4.1	41664
1.20	1.10	2.65	0.48	42	2 × 5	5.1	41665
1.44	1.32	2.90	0.50	42	2 × 6	6.1	41666

### Stepladder with rungs, double-sided access

Whenever you need access to great heights: flexibility with up to 20 rungs for working heights of up to 6.70 m.

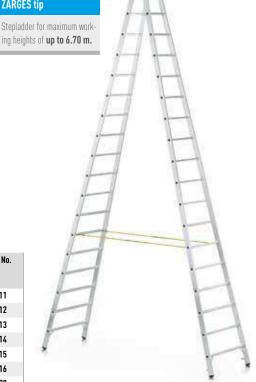
- Sturdy aluminium rungs (30 mm × 30 mm) with non-slip, ribbed step area.
- Strong ZARGES quality triple-formed joints connecting rung and stile.
- Sturdy, solidly screwed steel hinges.
- Two high-strength anti-splay straps, secured without twisting to the rung.
- Additional stabilisation by bracing on the bottom rung.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping and at the same time provide firm seating in the stile.

Optional special equipment (see also page 210/211)





Ladder length m	Vertical ladder height approx. m	Working height, approx. m	Lower, outside width m	Stile height mm	Number of rungs	Weight kg	Order No.
1.78	1.73	3.00	0.53	58	2 × 6	6.3	40311
2.34	2.30	3.55	0.59	58	2 × 8	8.4	40312
2.90	2.83	4.05	0.65	58	2 × 10	11.0	40313
3.46	3.37	4.60	0.71	58	2 × 12	13.9	40314
4.02	3.91	5.10	0.77	62	2 × 14	15.6	40315
4.58	4.45	5.65	0.83	68	2 × 16	18.1	40316
5.14	5.00	6.15	0.89	73	2 × 18	20.6	40320
5.70	5.54	6.70	0.95	73	2 × 20	22.5	40317



# Timber stepladder with rungs, double-sided access

The painter's ladder of choice: pleasant to grip, whatever the temperature.

- Stiles made from high-quality, selected coniferous wood, stained yellow-brown, beech rungs.
- Spacious toolbag.
- Glued and coated mortise and tenon joints between rungs and stiles.
- Side strap hinges with bucket hooks (galvanised steel).
- Two galvanised knotted-link chains provide protection against splay.
- Tensioning screws for additional safety and stability.
- Low thermal conductivity therefore always pleasant to grip, even when used outdoors in winter.

Ladder length m	Vertical ladder height approx. m	Working height, approx. m	Lower, outside width m	Stile height mm	Number of rungs	Weight kg	Order No.
1.25	1.21	2.50	0.45	56	2 × 4	7.5	40044
1.53	1.48	2.75	0.48	56	2 × 5	9.5	40045
1.81	1.75	3.05	0.51	56	2 × 6	11.5	40046
2.09	2.02	3.30	0.54	56	2 × 7	13.0	40047
2.37	2.29	3.50	0.57	56	2 × 8	15.0	40048
2.93	2.83	4.05	0.63	66	2 × 10	18.5	40050





#### All-GRP stepladder with rungs, double-sided access



For flexible applications in electrical or chemical environments.

- Stiles and rungs (30 mm × 30 mm) made from glass-fibre-reinforced plastic for particularly high chemical resistance.
- Complies with the high-voltage test for ladders of insulating material in accordance with DIN EN 61 478 or VDE 0682 Section 6.5 Category 1/30 KV.
- Resistance to ageing in accordance with DIN EN ISO 4892-2.
- Suitable for use in high-voltage environments (1,000 V AC, 1,500 V DC).
- High-strength anti-splay straps.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping and at the same time provide firm seating in the stile.



Ladder length m	Vertical ladder height approx. m	Working height, approx. m	Lower, outside width m	Stile height mm	Number of rungs	Weight kg	Order No.
1.32	1.27	2.60	0.48	58	2 × 4	7.5	41261
1.88	1.82	3.10	0.54	58	2 × 6	10.5	41256
2.44	2.35	3.65	0.60	58	2 × 8	13.8	41257
3.00	2.89	4.15	0.65	58	2 × 10	17.0	41258
4.12	3.95	5.20	0.77	58	2 × 14	24.6	41260

#### 7 400

#### Stepladder with wide rungs, GRP composite construction, double-sided access



The ideal, particularly lightweight solution for work in electrical environments.

- Stand safely on 60 mm deep, non-slip wide aluminium alloy rungs.
- High level of protection provided for working on electrical installations thanks to insulated stiles made from glass-fire-reinforced plastic.
- Complies with the high-voltage test for ladders of insulating material in accordance with DIN EN 61 478 or VDE 0682 Section 6.5 Category 1/30 KV.
- Strong ZARGES quality triple-formed joints connecting rung and stile.
- Strong steel hinge.
- High-strength anti-splay straps.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping and at the same time provide firm seating in the stile.



Ladder length m	Vertical ladder height approx. m	Working height, approx. m	Lower, outside width m	Stile height mm	Number of rungs	Weight kg	Order No.
1.34	1.29	2.60	0.47	58	2 × 4	7.8	41165
1.62	1.55	2.85	0.50	58	2 × 5	9.6	41166
1.90	1.82	3.10	0.53	58	2 × 6	11.4	41167
2.46	2.33	3.65	0.59	58	2 × 8	14.8	41168
3.02	2.86	4.15	0.65	58	2 × 10	18.8	41169
3.58	3.38	4.70	0.71	58	2 × 12	22.5	41170

ZARGES multi-function ladders are versatile and flexible to use. They can be quickly and easily adjusted to suit the individual on-site requirements. Within this range is the three-part multi-function ladder, which can be used as a free-standing ladder, a stepladder, a single ladder, a two- or three-part push-up ladder and a stepladder for use on stairs.

#### Basically, you can choose between three product variants:

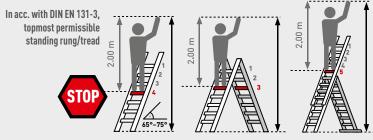
- Multi-function ladders
- Multipurpose ladders
- Telescopic multi-function ladders

Multipurpose ladders and telescopic ladders are characterised by the ease with which they can be reduced in size for storage and transport. Multipurpose ladders can also be used as handy work platforms at heights of up to 0.99 m.

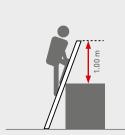
All ZARGES ladders comply with industrial standard DIN EN 131, the specifications of TRBS 2121 and guideline BGI 694. The maximum total permissible load is 150 kg.



#### Note:



Maximum working height in acc. with BGI 694: working height = height of topmost standing rung + 2 metres, for single ladders, leaning angle of 65° to 75°



Required ladder length = vertical height to be reached × 1.064

Observe prescribed ladder projection of

#### Multi-function ladder, 3-part



One ladder, many functions: the flexible solution for safe ascent and descent, plus extra-high stability.



#### **ZARGES** tip

Optimum stability due to extra-wide horizontal stabiliser bar and two rigid locking bars.

- Upper ladder with top wheel assembly (from size  $3 \times 8$ ).
- Can be used on steps/stairs (Order Nos. 41526-41522).
- Upper ladder can also be used separately as single ladders (Order Nos. 41526-41522).
- Optimum stability due to extra-wide horizontal stabiliser bar and two rigid locking bars.
- High-strength anti-splay straps.
- Optimum wrap-around stile guide that encompasses the whole stile.
- Rung hooks and stile guides are bolted in and can therefore be replaced.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping.

Optional special equipment (see also page 210/211)



Ladder length as 3-part single ladder m	Length as 2-part single ladder and as free-standing ladder m	Ladder length, retracted m	Max. working height as 3-part single ladder, approx. m	Stile height mm	Stabiliser bar m	Number of rungs	Weight kg	Order No.
4.15	3.00	1.90	4.90	68	0.80	3 × 6	13.9	41526
4.95	3.60	2.20	5.70	68	0.90	3 × 7	16.3	41527
5.80	4.10	2.45	6.55	73	1.00	3 × 8	18.6	41521
6.65	4.70	2.75	7.35	73	1.10	3 × 9	20.9	41529
6.90	4.95	3.00	7.65	73	1.10	3 × 10	24.4	41522
8.60	6.10	3.55	9.25	98	1.20	3 × 12	30.2	41523
9.70	6.95	4.15	10.35	98	1.20	3 × 14	38.5	41524

#### Z 500

#### Multi-function ladder, 3-part



The basic version offers high functionality and flexibility and an excellent price/performance ratio.

- Can be used on step/stairs (Order Nos. 41538–41540).
- One locking bar.
- Upper ladder can also be used separately as single ladder (Order Nos. 41538 –41540).
- High-strength anti-splay straps.
- Optimum wrap-around stile guide that encompasses the whole stile.
- Rung hooks and stile guides are bolted in and can therefore be replaced.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping.
- Rungs and stiles made from aluminium extrusions.

Optional special equipment (see also page 210/211)



Ladder length as 3-part single ladder m	Length as 2-part single ladder and as free-standing ladder m	Ladder length, retracted m	Max. working height as 3-part single ladder, approx. m	Stile height mm	Stabiliser bar m	Number of rungs	Weight kg	Order No.
5.80	4.10	2.45	6.55	73	1.00	3 × 8	17.5	41538
6.90	4.95	3.00	7.65	73	1.10	3 × 10	23.3	41540
8.60	6.10	3.55	9.25	98	1.20	3 × 12	28.8	41542
9.70	6.95	4.15	10.35	98	1.20	3 × 14	36.4	41544

#### Multi-function folding ladder, 2-part

Flexible dual-function ladder that can be used as a single ladder or stepladder.

- Can be used as a single ladder or a stepladder.
- Strong steel joint bolted to the stiles.
- Self-locking.
- One ladder section with broad horizontal stabiliser bar for stable positioning.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping.
- Strong ZARGES quality triple-formed joints connecting rung and stile.

Optional special equipment (see also page 210/211)







Length as single ladder m	Length as stepladder m	Working height as single ladder approx. m	Working height as stepladder approx. m	Stile height mm	Horizontal stabiliser bar m	Number of rungs	Weight kg	Order No.
2.50	1.30	3.35	2.55	58	0.75	2 × 4	6.0	41941
3.60	1.85	4.40	3.10	58	0.80	2 × 6	8.0	41942
4.70	2.40	5.45	3.60	58	0.90	2 × 8	12.0	41943



# Stepladder with rungs, height-adjustable

Multi-function ladder that can be used on steps/stairs, with pull-out function for safe standing at great heights.

**ZARGES** tip

sides.

- Ideal for working on stairs, in sports halls, halls, etc.
- Convenient and precise rung-by-rung height adjustment in increments of 280 mm.
- Locks safely by means of rung hooks and locking tab.
- 2 sturdy horizontal stabiliser bars for a wide standing base.
- Strong ZARGES quality triple-formed joints connecting rung and stile.
- Sturdy bolt-on fittings made from extrusions.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping.

Optional special equipment (see also page 210/211)



Ladder length, extended, m	Ladder length, retracted m	Working height, max. approx. m	Stile height mm	Stabiliser bar m	Overall span m	Number of rungs	Weight kg	Order No.
4.05	2.40	5.15	58	0.80	2.30	4 × 8	22.2	41322
4.95	3.01	6.00	73	0.90	2.70	4 × 10	27.3	41323
6.05	3.57	7.00	73	1.00	3.30	4 × 12	31.4	41324



#### Telescopic multi-function ladder, 4-part

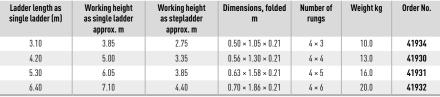


Multifunctional, telescopic ladder suitable for use on stairs, with compact transport dimensions and a sturdy, durable design.

- Easy-to-use, automatically engaging aluminium safety hinge.
- Safe height adjustment thanks to four pull handles of diecast aluminium.
- Single ladder, stepladder and stair ladder in one.
- Quickly and easily converts from one mode to another.
- Rung by rung height adjustment in increments of 280 mm.
- Strong ZARGES quality triple-formed joints connecting rung and stile.







Not according to EN131-1+2



#### Accessories

Designation	Order No.
Stile extension	41933

# Z 500 Telescopic multi-function ladder, 4-part



Flexible, telescopic ladder with compact dimensions and an excellent price/performance ratio.

- Functional, robust hinges, bolted and easy to replace.
- Automatic-locking, ergonomically designed turn and pull handles for easy handling.
- Single ladder, stepladder and stair ladder in one.
- Quickly and easily converts from one mode to another.
- Rung by rung height adjustment in increments of 280 mm.
- Strong ZARGES quality triple-formed joints connecting rung and stile.
- Folds down to a space-saving compact size for transport.





Ladder length as single ladder m	Working height as single ladder approx. m	Working height as stepladder approx.	Dimensions, folded m	Number of rungs	Weight kg	Order No.
4.20	5.00	3.35	0.56 × 1.30 × 0.21	4 × 4	13.0	41194
5.30	6.05	3.85	0.63 × 1.58 × 0.21	4 × 5	16.0	41195
6.40	7.10	4.40	0.70 × 1.86 × 0.21	4 × 6	20.0	41196

Not according to EN131-1+2



#### Accessories

Designation	Order No.
Stile extension	41197

#### Z 600 Multipurpose ladder

Versatile ladder with up to four functions which folds to extremely small dimensions for transport.

- Easy-to-use, automatically engaging aluminium safety hinge.
- Strong ZARGES quality triple-formed joints connecting rung and stile.
- Ladder width: 420 mm.
- Extra-wide horizontal stabiliser bar.
- Compact for transport, does not take up a lot of space when folded.

Length as

1.40

1.96

Optional special equipment (see also page 210/211)

Height as work

platform m

0.99

0.99





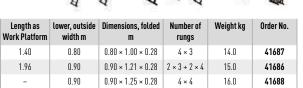


1.76

2.00

2.29

2.84



 $4 \times 5$ 

20.0

41689

 $1.10 \times 1.56 \times 0.28$ 

Not according to EN131-1+2

Length as single ladder m

3.65

4.16

4.75

5.85



Order No. 41688 and 41689 cannot be used as a work trestle and single ladder with wall support.

#### Multipurpose ladder Z 500

The compact version for a wide range of uses and with a good price/performance ratio.

1.10

- Strong ZARGES quality triple-formed joints connecting rung and stile.
- Ladder width: 420 mm.
- Extra-wide horizontal stabiliser bar.
- Compact for transport, does not take up a lot of space when folded.







Length as Single ladder m	Length as stepladder m	Height as work platform m	Length as Work platform m	Lower, outside width m	Dimensions, folded m	Number of rungs	Weight kg	Order No.	
3.65	1.76	0.99	1.40	0.80	0.80 × 1.00 × 0.27	4 × 3	14.0	41183	
4.75	2.29	-	-	0.90	0.90 × 1.25 × 0.27	4 × 4	16.0	41184	







#### Stepladder with extending stiles



Special ladder that ensures safe standing even when working on uneven ground, on steps and overhangs.

- Continuous adjustment to the millimetre. Each individual stile of the ladder locks securely by the turn of a handle.
- Stile dimensions: 60 mm × 24 mm.
- Rungs and stiles made from aluminium extrusions.
- Strong ZARGES quality triple-formed joints connecting rung and stile.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping and at the same time provide firm seating in the stile.

Optional special equipment (see also page 210/211)







Sturdy cast aluminium joints



Perlon belts prevent splay



Height adjustment via locking mechanism

Ladder length excluding extension m	Additional adjustable range on ladder section m	Additional adjustable range on support section m	Number of rungs	Weight kg	Order No.
1.80	0.40	1.30	2 × 6	12.5	41936
2.35	0.40	1.85	2 × 8	15.5	41938

# <u>04</u>

# ZARGES safety steps, step stools and work platforms – versatile, practical and compact.

When you need to compensate for small differences in height quickly and comfortably, ZARGES step stools and platforms are the right solution. They have deep treads for comfortable climbing and a large platform for safe and convenient standing. They are available in rigid and in folding versions for space-saving transport.

All ZARGES step stools and platforms comply with industrial standard DIN EN 14183 and DIN EN 131, the specifications of TRBS 2121 and guideline BGI 694. The maximum total permissible load is 150 kg.

Do you have any questions? The ZARGES platform steps with a maximum load of 300 kg can be found on page 202. You can also customise the platform steps by using our online configurator.



#### Safety steps, folding, with non-slip rubber surface



This tried and tested access solution is very compact when folded and has rubber coating for safe and comfortable standing.

- Large standing area: 230 mm × 360 mm.
- Large steps for safe and comfortable standing, with rubber surface.



**ZARGES** tip

**Folds to compact size** for transportation and storage

- Collapsible for extremely compact dimensions.
- Safety bar with practical storage tray, optional on the 3-step variant, attached as standard on the 4- or 5-step variant.
- Stile ends with plastic edge finish.
- Stiles made from extruded aluminium sections for maximum stability.

Platform height m	Working height approx. m	Lower, outside width m	Safety bar	Stile height mm	Number of treads incl. platform	Weight kg	Order No.
0.45	2.45	0.48	No	70	2	3.9	41927
0.70	2.70	0.56	No	70	3	6.6	41923
0.70	2.70	0.56	Yes	70	3	8.4	41928
0.90	2.90	0.57	Yes	70	4	10.6	41926
1.15	3.15	0.60	Yes	70	5	12.8	41925



#### Accessories

Designation	Order No.
Castor set (possible from 3 treads)	41929

# Z 600 Safety steps, folding, with ribbed-plate surface



Sturdy step solution with compact dimensions when folded and ribbed sheet metal for safe standing.

- Large standing area: 230 mm × 360 mm.
- Large steps for safe and comfortable standing, with ribbed sheet metal surface.
- Collapsible for extremely compact dimensions.
- Safety bar with practical storage tray, optional on the 3-step variant, attached as standard on the 4- or 5-step variant.
- Stile ends with plastic edge finish.
- Stiles made from extruded aluminium sections for maximum stability.



Platform height m	Working height approx. m	Lower, outside width m	Safety bar	Stile height mm	Number of treads incl. platform	Weight kg	Order No.
0.45	2.45	0.48	No	70	2	3.9	41920
0.70	2.70	0.56	No	70	3	6.6	41673
0.70	2.70	0.56	Yes	70	3	8.4	41683
0.90	2.90	0.57	Yes	70	4	10.6	41684
1.15	3.15	0.60	Yes	70	5	12.8	41685



#### Accessories

Designation	Order No.
Castor set (possible from 3 treads)	41929



### Z 600

#### Step stool, folding

The quick and flexible solution that can be folded to space-saving size for transport.

- Minimum space requirement for storage and transportation.
- Non-slip, serrated aluminium treads.
- Work comfortably and safely on a large standing surface (tread width 360 mm, tread depth 230 mm).
- Stiles made from extruded aluminium sections for maximum stability.
- Stile ends with plastic edge finish.







Platform height m	Working height approx. m	Lower, outside width m	Safety bar	Stile height mm	Number of treads incl. platform	Weight kg	Order No.
0.45	2.45	0.48	No	70	2	3.9	41920
0.67	2.67	0.48	No	70	3	6.6	41921





#### **Z 500** Safety steps, folding

The inexpensive and flexible alternative for safe standing.

- Collapsible for extremely compact dimensions.
- Aluminium alloy treads 205 mm × 360 mm for safe and comfortable standing.
- Safety bar with practical storage tray, optional on the 3-step model, attached as standard on the 4- or 5-step models.
- Stile ends with plastic edge finish.
- Order Nos. 41493 and 41494 with castors as standard, for easy movement of the steps.





Platform height m	Working height approx. m	Lower, outside width m	Safety bar	Stile height mm	Number of treads incl. platform	Weight kg	Order No.
0.44	2.45	0.55	No	68	2	4.7	41490
0.66	2.65	0.57	No	68	3	7.0	41491
0.66	2.65	0.57	Yes	68	3	8.5	41493
0.88	2.90	0.59	Yes	68	4	10.5	41494
1.10	3.10	0.60	Yes	68	5	13.0	41495



#### Work platform, folding





Folds to compact dimensions



Simple locking with spring locking pin



Castors for easy movement



- Extremely non-slip platform in accordance with the floor slip rating R13.
- Platform surface consists of extremely non-slip PVC granulate on a soft PVC substrate with joint-friendly cushioning effect.
- Increased safety even with oily substances or ice during outdoor applications.
- The platform surface is very easy to clean and to replace if necessary.
- Platform dimensions 1.70 m × 0.60 m.
- Total permissible load for the platform is 300 kg which means it can be used by two persons.
- Folds to extremely small dimensions for transport and storage.
- Comfortable access via 60 mm-deep aluminium alloy rungs.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping and at the same time provide firm seating in the stile.
- With castors for easy movement of the platform.
- Fully equipped work platform, comprising castors, guardrails and storage tray, available under a separate Order No.

Optional special equipment (see also page 210/211)

Equipment	Platform height m	Working height, approx. m	Base area m	Dimensions, folded m	Weight kg	Order No.
Platform incl. castors	0.70	2.70	2.21 × 0.74	1.77 × 0.74 × 0.17	21.0	40040
Platform incl. castors, guardrail and storage tray	0.70	2.70	2.21 × 0.74	1.77 × 0.74 × 0.17	28.0	40041





#### Accessories

Designation	Order No.
Landing	40042
Storage tray (can only be mounted in combination with guardrail)	41967
Stile extension	40922

#### AMA, aluminium modular work platform

The modular solution for mobile or stationary applications: extendible from a step stool to a complete work platform in various heights.

- Modular design for changing or expanding configurations at any time as mobile or stationary work platform.
- Lightweight for quick and convenient handling.
- Extremely robust, torsion-resistant, corrosion-proof aluminium alloy structure.
- Comfortable, safe steps (555 mm × 250 mm) made from serrated aluminium sheet.
- Two-step basic module with up to three add-on steps suitable for mobile applications.
- Wide range of accessories for stationary or mobile applications.
- Add-on modules in four different heights.

Optional special equipment (see also page 210/211)







Possible modular system configurations	Module A – single-step platform, no modular extension possible	Basic module B – double-step	Modules B + C	Modules B + D	Modules B + D + E	Modules B + D + E + F
Modules, individual	Module A	Module B	Module C	Module D	Module E	Module F
Weight kg	2.9	4.8	3.9	4.4	4.8	5.5
Order No.	40261	40260	40262	40263	40264	40265
Module combination	A	В	B + C	B + D	B + D + E	B + D + E + F
Working height approx. m	2.20	2.40	2.40	2.60	2.80	2.99
Height of top platform m	0.20	0.40	0.40	0.60	0.80	0.99
Overall platform depth m	0.30	0.55	0.80	0.80	1.05	1.30
Total weight kg	2.9	4.8	8.7	9.2	14.0	19.5

#### **Accessories**

Designation	Order No.
Guardrails 1)	40267
Castor set <sup>a</sup> , for frequent changes of location, optional accessory for retrofitting.	40268
Floor bracket <sup>2)</sup> , for permanent mounting, offers extra stability and prevents the work platform from skidding. When 5 or more AMA modules are used, floor brackets must be fitted for safety reasons.	40269

 $<sup>^{1)}</sup>$  Can only be fitted for module D and above  $^{2)}$  1 set = 2 pieces

### **AMA** bridging module

For connecting two AMA platforms to create a walkway that can be accessed from both sides.

Length m	Order No.
1.00	40273



#### Aluminium machine step stool, rigid



The basic step stool with low weight, high stability and a comfortable standing area.

- 200 mm deep steps made of non-slip ribbed aluminium sheet.
- 350 mm × 577 mm standing platform braced by a cross-strut.
- High-strength, welded tubular aluminium construction ensures stability and long service life.
- Maximum stability thanks to a wide standing surface.
- Stile ends with plastic edge finish.

Note: Self-locking sprung castors available as an accessory from two steps upwards. Handrail available as an accessory from three steps





Platform height m	Working height approx. m	Base area m	Number of treads	Weight kg	Order No.
0.20	2.20	0.40 × 0.60	1	3.0	40031
0.40	2.40	0.64 × 0.67	2	5.5	40032
0.60	2.60	0.87 × 0.69	3	7.8	40033
0.80	2.80	1.10 × 0.71	4	10.1	40034
0.99	3.00	1.35 × 0.73	5	13.5	40035





#### Accessories

Designation	Order No.
Self-locking sprung castors (1 pack = 4 pcs.)	40036
Footplates (1 set = 4 pcs.)	40037
Handrail	40038

#### Work platform, rigid



Stable steel construction for safe access, with sturdy step and large, comfortable standing area.

- 200 mm deep treads made from ribbed aluminium alloy profiles.
- Stiles made from round steel tubing ( $\varnothing$  25 mm), powder-coated surface finish.
- Welded connection between treads and round-tube stile for optimum stability.
- Stile ends with plastic edge finish.
- Shipped in sections for convenient assembly.

Platform height m	Working height approx. m	Base area m	Number of treads	Weight kg	Order No.
0.48	2.50	0.53 × 0.54	2	7.0	42951
0.72	2.70	0.80 × 0.57	3	10.0	42952
0.96	3.00	1.00 × 0.62	4	16.0	42953



#### **Accessories**

Designation	Order No.
Self-locking sprung castors (1 pack = 4 pcs.)	42954

#### Z 500 Seventec RC folding work platform

Can be folded for space-saving transport and storage, perfect for outdoor applications thanks to ribbed and perforated treads.

85 mm deep treads with perforations to allow liquids to drain quickly and ribbed surface to ensure stability.

■ Platform size approx. 600 mm × 300 mm.

Extra-wide treads and comfortable step area.

Reflective strips on the stiles to improve visibility in poor visual conditions.

Single-sided access.

Rigid locking bar on both sides.

 7-point connection between tread and stile with reinforcing in the centre of the tread.

Practical storage tray with plenty of space for tools and small parts.

Safety bar for comfortable and safe working.





For comfortable and safe standing.



Reflective strips on the stiles



Rigid locking bar



Storage tray

Platform height m	Working height, approx. m	Lower, outside width m	Number of treads incl. platform	Weight kg	Order No.
0.66	2.66	0.67	3	8.1	40233
0.86	2.86	0.69	4	10.3	40234
1.08	3.08	0.72	5	11.7	40235

#### Seventec RC folding work platform

Lightweight and comfortable platform with perforated treads and platform for use in outdoor areas and wet and dirty environments.

- 85 mm deep treads with perforations to allow liquids to drain quickly and ribbed surface to ensure stability.
- Platform size approx. 600 mm × 300 mm.
- Extra-wide treads and comfortable step area.
- Reflective strips on the stiles to improve visibility in poor visual conditions.
- Double-sided access.
- Platform with integrated hinged connection for maximum stability and rigidity.
- Rigid locking bar on both sides.
- 7-point connection between tread and stile with reinforcing in the centre of the tread.





#### ZARGES tip

Comfortable and safe standing through **600 mm × 300 mm** work platform.



For comfortable and safe standing.



Reflective strips on the stiles



Rigid locking bar

Platform height m	Working height, approx. m	Lower, outside width m	Number of treads incl. platform	Weight kg	Order No.
0.49	2.49	0.70	2 × 2	5.2	40392
0.74	2.74	0.75	2 × 3	7.3	40393
0.99	2.99	0.80	2 × 4	10.2	40394

# 04

#### Z 500 Seventec 501 folding work platform

Can be folded for space-saving transport and storage, with practical storage tray and comfortable standing area.

- Platform size approx. 600 mm × 300 mm.
- Extra-wide treads and comfortable step area.
- Treads 85 mm deep for safe standing.
- Single-sided access.
- Rigid locking bar on both sides.
- 7-point connection between tread and stile with reinforcing in the centre of the tread
- Practical storage tray with plenty of space for tools and small parts.
- Safety bar for comfortable and safe working.





Platform height m	Working height approx. m	Lower, outside width m	Number of treads incl. platform	Weight kg	Order No.
0.66	2.66	0.67	3	7.8	40363
0.86	2.86	0.69	4	9.0	40364
1.08	3.08	0.72	5	11.0	40365

### Z 500 Seventec 502 folding work platform

Lightweight and comfortable platform with large standing area for quick and flexible application.

- Platform size approx. 600 mm × 300 mm.
- Extra-wide treads and comfortable step area.
- Treads 85 mm deep for safe standing.
- Double-sided access.
- Platform with integrated hinged connection for maximum stability and rigidity.
- Rigid locking bar on both sides.
- 7-point connection between tread and stile with reinforcing in the centre of the tread.





Platform height m	Working height approx. m	Lower, outside width m	Number of treads incl. platform	Weight kg	Order No.
0.49	2.49	0.70	2 × 2	5.7	40372
0.74	2.74	0.75	2 × 3	7.9	40373
0.99	2.99	0.80	2 × 4	10.3	40374





### Z 600

#### Work platform, folding





Safe ascent and descent due to non-slip treads with Safer Step Technology.

- Large step surface (650 mm × 300 mm).
- 80 mm deep treads with ZARGES Safer Step Technology.
- Maximum stability thanks to rigid locking bars on both sides.
- Strong ZARGES quality triple-formed joints connecting rung and stile.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping and at the same time provide firm seating in the stile.
- Treads and stiles made from extruded aluminium sections

Optional special equipment (see also page 210/211)





Platform height m	Working height, approx. m	Base area m	Dimensions, folded m	No. of treads	Weight kg	Order No.
0.72	2.75	0.79 × 0.80	0.90 × 0.80 × 0.20	3	6.2	40907
0.96	3.00	0.95 × 0.83	1.12 × 0.80 × 0.20	4	8.2	40919

#### Z 600

#### Mobile step stool



This versatile and flexible all-round talent is extremely stable thanks to its patented automatic locking mechanism.

- Ribbed, non-slip standing surface.
- Mobile version with self-locking sprung castors.
- Extremely stable due to patented automatic locking mechanism and non-slip rubber lip.
- Platform diameter of 30 cm for safe standing.



Platform height m	Working height, approx. m	Diameter, top m	Diameter, centre m	Diameter, bottom m	Weight kg	Order No.
0.43	2.45	0.29	0.36	0.44	2.6	40918

# ZARGES special ladders for special requirements.

Safety is above all achieved through optimum adaptation of the access equipment to the specific requirements on site and the task in hand. For specific situations and applications, ZARGES offers special ladders which are equipped as standard with important additional elements which ensure maximum safety.

#### ZARGES also offers the following on request:

- Ladders for specific professional applications according to DIN EN 131.
- Ladders with higher load capacity.





#### Tanker ladder



Safe access for servicing, repairing, filling and cleaning road tankers.

- Areas of application: food industry, chemical and petrochemical industries, rail vehicles.
- Simple height adjustment in 280 mm increments by means of two-part push-up ladder and a cable winch.
- Ladder with rungs 30 mm deep made from aluminium extrusion.
- Strong ZARGES quality triple-formed joints connecting rung and stile.
- Possible platform heights from 2,770 mm to 4,100 mm.
- Double-sided handrail on the push-up ladder for maximum safety when climbing.
- Round or rectangular guardrail.
- Easily moved by hand via chassis with two fixed and swivel castors.
- Different chassis versions available depending on requirements.
- Optionally with 600 mm wide platform in three different lengths.
- Platform surface serrated aluminium.
- The maximum load for the ladder is 150 kg.

If you are unable to meet your requirements with the existing modular system, we design and produce special solutions on request (see also from p. 312).

# !

#### Note:

Example order (see figure on the right):

1 × 591000 Basic module ladder, heightadjustable from 2,770 mm to 4,100 mm

- 1 × 591004 Guardrail, round
- 1 × 591010 Standard chassis



Height adjustment via external cable winch



Height adjustment in increments of 280 mm



Double-sided handrail on the access steps



Entry platform with two swivel castors

#### Z 600 Tanker ladder

Overview of equipment options for the tanker ladder:

#### Basic module - ladder:

Ladder, height adjustable via cable winch, 2-part, with support section and doublesided handrail.

Vertical height energy mm	retracted / extended
Vertical height approx. mm	2770 / 4100
Order No.	591000

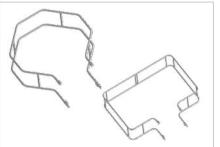


#### Mandatory module - guardrail:

Two versions available:

- Guardrail, round, Ø 1,500 mm.
- Guardrail rectangular, 1,300 mm × 2,250 mm.

Guardrail, round, approx. ∅ 1,500 mm	Order No.	591004
Guardrail rectangular, approx. 1,300 mm × 2,250 mm	Order No.	591005



#### Mandatory module - chassis:

Two versions available, with sliding handles:

- Standard chassis with rigid stabiliser. Mobile, mounted on 2 swivel and 2 fixed castors with brake.
- Chassis with extendible stabiliser suitable for fitting spindles (adjustable range 200 mm) for optimum stability and levelling out uneven floor/ground surfaces. Mobile, mounted on 2 swivel and 2 fixed castors with brake.

Standard chassis				
Dimensions approx. 2,370 mm × 2,333 mm	Order No.	591010		
Chassis with extendible stabiliser suitable for fitting spindles				
Dimensions, retracted, 1,270 mm × 2,311 mm, Dimensions, extended, 2,457 mm × 2,311 mm	Order No.	591011		



#### Optional modules:

- You can choose between three different platforms in lengths 300 mm, 600 mm and
- From a platform length of 600 mm onwards, a platform railing with double lifting barrier can be used.
- An antistatic version is available as an option.

Optional module, serrated aluminium platform					
For platform length in mm	300	600	800		
Order No.	591020	591021	591022		

Optional module platform railing with double lifting barrier				
Platform railing with double lifting barrier, Order No. 591006 Platform length × 600 mm				

Optional antistatic module	
Order No.	591030



#### Pole access ladder system



Safe and effective working on poles of various heights through quick assembly and reliable fall arrester.

- The highest degree of industrial safety through double-stile ladder construction and integrated fall arrester system.
- Advanced arrester system ensures continuous safety, even during set-up.
- Wide rungs, 30 mm deep, for optimum protection against slipping when climbing and descending.
- Strong ZARGES quality triple-formed joints connecting rung and stile.
- The double-stile construction allows easy transportation, stacking and storage of the modules.
- Low-wear attachment to the pole through the use of special fasteners (braided rope and stand-off bracket with plastic protection).

#### Technical details

- High flexibility with regard to height (max. 20.00 m) and mast diameter  $(\emptyset 140 \text{ mm to } 1,000 \text{ mm})$ .
- The set-up time for a pole with a length of 15.00 m is approx. 10 minutes.
- Maximum total load 150 kg per ladder system/set.
- The entire ladder system is tested to DIN EN 353 CE 0121, DIN 18799-1, DIN EN ISO 14122-4, DIN EN 131. Compliance with these standards is tested and certified by DEKRA.



#### Note:

Spare and single parts, e.g. attachment element, braided rope etc., are available on request.







Height-adjustable upper ladder

#### Complete set

•						
Ladder combinations	Ladder length m	Outside width mm	Stile height mm	Number of rungs	Weight kg	Order No.
3-part	8.80	505	58	32	40.0	55140
4-part	11.60	505	58	42	52.0	55141
5-part	14.40	505	58	52	64.0	55142
6-part	17.20	505	58	62	76.0	55143
7-part	20.00	505	58	72	88.0	55144

#### Single parts

Ladder combinations	Ladder length m	Outside width mm	Stile height mm	Number of rungs	Weight kg	Order No.
Bottom section	3.52	505	58	12	14.0	41916
Middle section	2.85	505	58	10	12.0	41917
Top section	2.80	505	58	10	12.0	41918

#### Pole access ladder system

Fall protection device for insertion and removal at any point in the system for flexible application.

- Advanced arrester system ensures continuous safety, even during set-up.
- Aluminium arrester rail with optimal weight.
- ZAST-OPTIFLEX safety slide mechanism with flexible application options, can be inserted and removed, observing the safety regulations, at any point in the fall arrester system - mandatory when using the ZARGES ladder system, not included in the scope of delivery of the ladder system. The ZAST-OPTIFLEX safety slide mechanism is available as an accessory, Order No. 47588.





#### ZARGES safety slide mechanism ZAST-OPTIFLEX-R4

Weight kg	Order No.
1.2	47588

#### ZARGES safety harness DIN EN 361 Shape A

Order No.	
47524	

#### ZARGES ladder adapter for continuous levelling

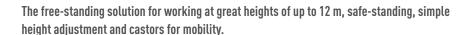
	For stile heights up to max. mm	For outside ladder width from/to mm	Outside width mm	Weight kg	Order No.
ĺ	98	300-500	680	5.0	41919

Recommended by ZARGES for use in combination with pole access ladders. Level compensation of up to approx. 210 mm. Integrated ground spikes for secure anchoring in the soil.



Height-adjustable ladder adapter

# Maintenance ladder



- Height of top ladder can be adjusted with a rope.
- Locks securely thanks to automatic spring loaded pawls.
- Stiles made from tubular box sections.
- Guide fittings with plastic runners.
- 400 x 400 mm platform made of embossed aluminium plate.
- Stable back hoop and spacious tool tray.
- $\blacksquare$  Two stabiliser bars supplied as standard, with polyamide swivel castors ( $\varnothing$  150 mm) and height adjusters (adjustable range 150 mm).
- Ladder and support section connected by two longitudinal braces.



Ladder length, extended, m	Ladder length, retracted m	Platform height m	Working height, approx. m	Base area m	Weight kg	Order No.
7.50	4.55	6.20	8.20	2.40 × 2.00	68.0	41342
9.45	5.65	8.10	10.10	2.95 × 2.00	86.0	41343
11.40	6.70	10.00	12.00	3.55 × 2.00	144.0	41346









# <u>05</u>

# ZAP ZARGES work platforms & mobile platforms – safe standing when working on longer jobs.



It is especially important that you are standing securely when you are performing jobs that take a long time or for which you need to use both hands. Ladders are often not the best solution in such cases, but on the other hand, setting up a mobile scaffold tower involves too much time and effort. This is where the platforms from ZARGES offer the ideal solution. They offer comfortable ascent and safe standing on a platform with a peripheral railing. You can also place tools or materials on the platform. Thanks to integrated castors, many work platforms can be quickly and easily moved from one location to another as you work.



#### Z 600 ZAP assembly platform, folding

Mobile and convenient: folding work platform with step access and central brake. **More on page 179.** 

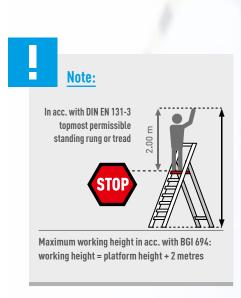


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and they meet the requirements of the EU directives for working at heights.

ZARGES work platforms comply either with the new standard DIN EN 131-7 or standard DIN EN 1004



### Z 600

#### ZAP telescopic platform ladder



Safe and flexible: height-adjustable platform with peripheral railing for safe standing, easy to move and folds to compact dimensions.

- Large standing surface, 665 mm × 440 mm, with guardrail and knee bar, ensures maximum work safety and comfortable standing.
- Simple height adjustment according to the push-up ladder principle, thus different heights can be obtained with only one platform ladder.
- Complies with new European standard DIN EN 131-7.
- Can be easily pushed thanks to integrated castors, even when erected.
- Very easy to erect handrails and guardrails are automatically unfolded during erection.
- Compact dimensions when folded, therefore easy to transport and store.
- Strong ZARGES quality triple-formed joints connecting rung and stile.
- Replaceable plastic end caps ensure positioning without risk of slipping.
- Can be used on steps/stairs.
- Order No. 41325 without stabiliser.







Integrated castors for easy movement



Generously dimensioned, sturdy platform



Folds to compact dimensions



Height adjustment

Platform height	Working	Height incl. guardrail,	Base area, stabiliser	Base area, stabiliser	Dimensions, folded m	No. of rungs incl.	Weight	Order
m	height, max.	max. m	extended, L × W m	retracted, L × W m		platform	kg	No.
	approx. m							
0.81 / 1.08 / 1.34	3.34	2.37	$1.45 \times 1.00$	1.45 × 1.00	2.16 × 1.02 × 0.40	5	28.0	41325
1.05 / 1.30 / 1.60 / 1.83	3.83	2.86	1.90 × 2.25	1.80 × 0.81	2.44 × 0.81 × 0.40	7	34.0	41326
1.31 / 1.60 / 1.80 / 2.10 / 2.35	4.35	3.38	2.20 × 2.55	2.20 × 0.81	2.72 × 0.81 × 0.40	9	38.5	41327
1.83 / 2.12 / 2.38 / 2.65 / 2.90 / 3.15	5.15	4.17	2.80 × 2.50	2.80 × 0.81	3.28 × 0.81 × 0.40	12	50.0	41328

#### **Accessories**

Designation	Order No.
Additional charge for conversion to antistatic version	217510
Additional charge for installation of security door	41329

#### **Ballast**

Designation	Order No.
Ballast weight 10 kg	41331



Required ballast (number of weights)

	Indoors	-	-
I	Outdoors		4

Required for Order No. 41328

#### ZAP stepladder with large platform



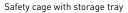




Safe ascent and descent due to non-slip treads and handrail, high degree of stability and compact transport dimensions.

- Large-area work platform (400 mm × 400 mm).
- Peripheral railing on three sides for maximum safety.Guardrail height 800 mm.
- Generously sized storage tray for tools and small parts.
- Optimum stability thanks to rigid locking bar on both sides.
- 80 mm deep treads with ZARGES Safer Step Technology.
- Compact dimensions when folded thanks to automatically retracting safety cage.
- Prepared for attaching the ZAP stabilisers.
- Replaceable 2-component plastic end caps ensure positioning without risk of slipping and at the same time provide firm seating in the stile.
- ZAP stabilisers, swing-out stabilisers for increased stability in accordance with EN 131-7 regulations, available as accessories from Order No. 41675 onwards.







Folds to compact dimensions



Stepladder, folded



ZARGES Safer Step Technology

Platform height m	Vert. Height m	Ladder length m	Working height, ap- prox. m	Lower, outside width approx. m	Stile height access/ support section mm	Number of treads incl. platform	Weight kg	Order No.
0.52	1.32	1.40	2.52	0.56	73 / 58	2	9.0	41672
0.78	1.57	1.68	2.78	0.59	73 / 58	3	10.0	41681
1.04	1.84	1.96	3.04	0.62	73 / 58	4	11.0	41674
1.32	2.10	2.21	3.35	0.65	73 / 58	5	13.0	41675
1.58	2.37	2.49	3.60	0.68	73 / 58	6	14.0	41676
1.84	2.63	2.77	3.85	0.71	73 / 58	7	16.0	41677
2.07	2.84	3.05	4.10	0.74	73 / 58	8	17.0	41678
2.34	3.15	3.33	4.34	0.77	73 / 58	9	19.0	41679

#### **Accessories**



ZAP stabilisers – for subsequent fitting, from Order No. 41675 onwards

Holli Oluel No. 410/3 oliwalus.			
Designation	Order No.		
ZAP stabiliser set*	41670		





#### ZAP castors for subsequent fitting

Designation	Order No.		
ZAP castor set*	41671		
*1 set = 2 ncs. For easy movement of the 7AP stepladder, for stile height			

\* 1 set = 2 pcs. For easy movement of the ZAP stepladder, for stile heigh 58 mm  $\,$ 



#### Horizontal stabiliser bar for retrofitting

Designation	Order No.
Horizontal stabiliser bar	40251

Stabiliser bar length 1000 mm

#### Z 600 ZAP assembly platform, folding



Mobile and convenient: folding work platform with step access and central brake.

- Swing-up steps with treads 200 mm deep for comfortable and safe ascent.
- Can be moved very quickly and easily, as it has four swivel castors on the access section and two fixed castors on the support section.
- Ready-for-use in no time thanks to central brake on the access
- Can pass through doors even when erected.
- Flexible applications due to three different platform heights with just one work platform.
- Handrail on both sides of the access steps and platform railing for maximum work safety.
- Folding frame and pivotable steps mean space-saving transport and storage.
- Large-area work platform, 1,800 mm × 600 mm.
- Tested to BGR 173 total platform load 200 kg/m².







#### **ZARGES** tip

Central brake is locked by stepping on the pedal instead of having to lock all four swivel castors individually.



One product - three different platform



Platform height 720 mm



Platform height 990 mm



Folds to compact size for transport and storage



Central brake locked by pedal operation



Central brake released by lifting the product



Comfortable access via 200 mm deep treads



Steps swing up into transport position

Platform height m	Max. working height approx. m	Height incl. guardrail, max. m	Base area incl. steps, L × W m	Dimensions, folded m	Weight kg	Order No.
0.42/0.72/0.99	3.00	1.93	2.71 × 0.75	$1.93 \times 0.75 \times 0.75$	54.0	53796

#### **ZAP** work platform





For quick use and safe standing: folds to compact size and is quick to set up.

- Large-area work platform, 0.50 x 1.95 m or 0.60 x 2.50 m.
- Peripheral railing for maximum work safety.
- Simple height adjustment according to the self-locking pushup ladder principle, allowing you to reach different heights with only one work platform.
- Operation of height adjustment by one person.
- Easily collapsible for transport and storage.
- Highly mobile and able to pass through doors when erected and collapsed thanks to castors (Order No. 53794).
- Chassis beam with sturdy height adjustable foot plates for stability and for levelling out on uneven ground.
- No ballast weights are required for indoor use.
- Two sizes with height adjustment from 1.25 m to 2.46 m or 1.81 m to 3.58 m platform height.
- Scaffolding category 3 (can be loaded up to 200 kg/m²) in accordance with DIN EN 1004.



Easily collapsible due to folding braces



Folds to compact dimensions



Chassis with height adjustable foot



Height adjustment

Platform height m	Working height, max. approx. m	Scaffolding height from/to m	Base area, stabiliser extended, L × W m	Base area, stabiliser retracted, L × W m	Weight kg	Order No.
1.25-2.46	4.50	2.31-3.52	1.90 × 2.30	0.80 × 2.30	92.0	53794
1.81-3.58	5.60	2.87-4.64	2.30 × 2.85	1.20 × 2.85	119.0	53795



#### Ballast

Designation	Order No.
Ballast weight	42915

#### Required ballast (number of weights)

Indoors	-
Outdoors	12

Required for Order Nos. 53794, 53795



#### Mobile platform, single-sided with aluminium alloy treads and platform





Safe and lightweight solution for flexibility when working: comfortable ascent, four sprung castors for stability and easy handling.

- Complies with new European standard DIN EN 131-7.
- Quick and easy assembly due to new connectors made from extruded aluminium.
- Maximum load 150 kg.
- Comfortable ascent thanks to 200 mm deep treads.
- Large platform, 600 mm × 800 mm.

Mobile and ready for operation in no time with four sprung swivel castors (two of which have brakes).

Maximum safety provided by platform railing at a height of 1.00 m on three sides.

Optional special equipment (see also page 210/211)



Note:

Double-sided handrail in accordance

with DIN EN 131-7 on access optional.





#### **Accessories**

Designation	Order No.
Handrail (treads 4–6)	41970
Handrail (treads 7-8)	41959
Storage tray	41967

Platform height m	Number of treads incl. platform	Base area m	Weight kg	Order No.
0.72	3	0.77 × 1.27	28.5	41971
0.96	4	0.82 × 1.45	31.8	41972
1.20	5	0.87 × 1.63	35.0	41973
1.44	6	0.93 × 1.81	38.4	41974
1.68	7	0.98 × 1.99	41.8	41975
1.92	8	1.03 × 2.17	45.6	41976

#### Mobile platform, single-sided with steel open grid treads and platform



Double-sided handrail in accordance

with DIN EN 131-7 on access optional.



The flexible access solution with open-grid treads for improved non-slip performance in wetroom applications.

- Complies with new European standard DIN EN 131-7.
- Quick and easy assembly due to new connectors made from extruded aluminium.
- Maximum load 150 kg.
- Comfortable ascent thanks to 200 mm deep treads.
- Large platform, 600 mm × 800 mm.
- Mobile and ready for operation in no time with four sprung swivel castors (two of which have brakes).
- Maximum safety provided by platform railing at a height of 1.00 m on three sides.

Optional special equipment (see also page 210/211)





#### **Accessories**

Designation	Order No.
Handrail (treads 4-6)	41970
Handrail (treads 7-8)	41959
Storage tray	41967

Platform height m	Number of treads incl. platform	Base area m	Weight kg	Order No.
0.72	3	0.77 × 1.27	41.5	41951
0.96	4	0.82 × 1.45	47.5	41952
1.20	5	0.87 × 1.63	53.6	41953
1.44	6	0.93 × 1.81	59.7	41954
1.68	7	0.98 × 1.99	66.0	41955
1.92	8	1.03 × 2.17	72.9	41956

#### Z 600

#### Mobile platform, double-sided with aluminium alloy treads and platform



Safe and secure thanks to extra-large treads and platform, with four sprung castors for a high degree of mobility and stability.

- Complies with new European standard DIN EN 131-7.
- Quick and easy assembly due to new connectors made from extruded aluminium.
- Maximum load 150 kg.
- Comfortable ascent thanks to 200 mm deep treads.
- Large platform, 600 mm × 800 mm.
- Mobile and ready for operation in no time with four sprung swivel castors (two of which have brakes).
- Maximum safety provided by platform railing on both sides at a height of 1.00 m.

Optional special equipment (see also page 210/211)



Double-sided handrail in accordance with DIN EN 131-7 on access optional



Platform height m	Number of treads incl. platform	Base area m	Weight kg	Order No.
0.72	3	0.77 × 1.51	31.2	41981
0.96	4	0.82 × 1.79	36.0	41982
1.20	5	0.87 × 2.06	41.0	41983
1.44	6	0.93 × 2.34	46.2	41984
1.68	7	0.98 × 2.62	51.7	41985
1.92	8	1.03 × 2.90	57.5	41986



Designation	Order No.
Handrail (treads 4-6)	41970
Handrail (treads 7-8)	41959
Storage tray	41967



#### Mobile platform, double-sided with steel open grid treads and platform



The flexible solution for wet-room applications, with open-grid treads for improved non-slip performance.

- Complies with new European standard DIN EN 131-7.
- Quick and easy assembly due to new connectors made from extruded aluminium.
- Maximum load 150 kg.
- Comfortable ascent thanks to 200 mm deep treads.
- Large platform, 600 mm × 800 mm.
- Mobile and ready for operation in no time with four sprung swivel castors (two of which have brakes).
- Maximum safety provided by platform railing on both sides at a height of 1.00 m.

Optional special equipment (see also page 210/211)





Double-sided handrail in accordance with DIN EN 131-7 on access optional



Platform height m	Number of treads incl. platform	Base area m	Weight kg	Order No.
0.96	4	0.82 × 1.79	59.2	41962
1.20	5	0.87 × 2.06	70.1	41963
1.44	6	0.93 × 2.34	80.7	41964
1.68	7	0.98 × 2.62	92.0	41965

#### **Accessories**

Designation	Order No.
Handrail (treads 4-6)	41970
Handrail (treads 7-8)	41959
Storage tray	41967





#### Z 600

#### Mobile platform ladder, folding



**ZARGES** tip

Safe standing thanks

to 600 mm × 630 mm

aluminium platform with guardrail.



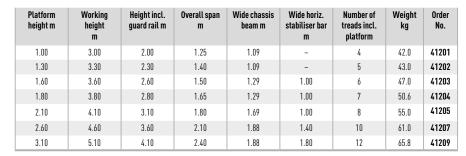


The flexible warehouse step with high mobility, a large storage tray with compact folded dimensions.

- Complies with new European standard DIN EN 131-7.
- Access section with horizontal stabiliser bar, support section with chassis beam, castors with locking mechanism ( $\varnothing$  160 mm).
- Narrow chassis with ballast on request.
- Easy folding of the ladder for space-saving storage due to hinges in both diagonal braces.

Optional special equipment (see also page 210/211) 🗳









#### Required ballast (number of weights)

Indoors	-
Outdoors	4

Required for Order Nos. 41207, 41209

#### **Accessories**

Designation	Order No.
Ballast weight	42912

#### Z 500

#### Mobile platform ladder, collapsible





Safe access to shelving, with high stability and low weight.

- Treads 85 mm deep for safe standing.
- 7-point connection between tread and stile with reinforcing in the centre of the tread.
- Aluminium work platform, approx. 510 mm × 600 mm, with safety guardrail on three
- Support section with horizontal stabiliser bar and wheels with locking mechanism (Ø 100 mm).
- Can be folded thanks to detachable diagonal braces.
- Handrails on both sides to ensure safe use of the ladder.
- Complies with new European standard DIN EN 131-7.





Platform height m	Working height m	Height incl. guard rail m	Overall span m	Chassis-beam width in m	Number of treads incl. platform	Weight kg	Order No.
1.75	3.75	2.75	1.53	1.14	8	32.3	40238
1.95	3.95	2.95	1.62	1.40	9	34.8	40239
2.40	4.40	3.40	1.80	1.40	11	41.3	40241

#### Z 600

#### Platform ladder, mobile, single-sided access





Safe ascent and descent thanks to treads with ZARGES Safer Step Technology.

- 2 fixed castors, Ø 125 mm, for easy movement.
- Large platform, 600 mm × 800 mm.
- Railing on three sides of the platform.
- Platform railing, height 1.10 m, with toeboard and knee bar.
- Complies with new European standard DIN EN 131-7.
- Maximum load 150 kg.

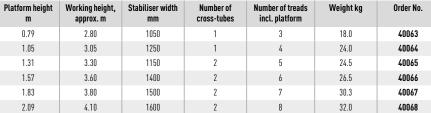
Optional special equipment (see also page 210/211)











#### **Accessories**

Designation	Order No.
Handrail (treads 3-5)	40060
Handrail (treads 6-8)	40061
Storage tray	41967





#### Z 600

#### Platform ladder, mobile, access from both sides

High degree of flexibility when ascending and descending and maximum working area with safe standing on the platform.

- 2 fixed castors, Ø 125 mm, for easy movement.
- Large platform, 600 mm × 800 mm.
- Platform railing on both sides, height 1.10 m, with toeboard and knee bar.
- Complies with new European standard DIN EN 131-7.
- Maximum load 150 kg.

Optional special equipment (see also page 210/211)



	Platform height m	Working height, approx. m	Stabiliser width mm	Number of cross-tubes	Number of treads incl. platform	Weight kg	Order No.
	0.79	2.80	1050	1	3	23.5	40073
ı	1.05	3.05	1250	1	4	26.5	40074
	1.31	3.30	1150	2	5	29.5	40075
ı	1.57	3.60	1400	2	6	32.5	40076
	1.83	3.80	1500	2	7	37.0	40077
١	2.09	4.10	1600	2	8	38.5	40078

#### Accessories

Designation	Order No.
Handrail (treads 3-5)	40060
Handrail (treads 6-8)	40061
Storage tray	41967



Double-sided handrail in accordance with DIN EN 131-7 on access optional.











# <u>06</u>

# Access technology made to measure – steps, platforms and bridging steps.



Standard sizes or individual solutions: steps, bridging steps and platforms from ZARGES can be tailored to the requirements on site and therefore offer the highest possible degree of safety for your working, assembly and maintenance areas.

At www.zargesconfigurator.com, ZARGES offers a flexible, online-based tool for designing bespoke access steps and platforms to suit the specific requirements on site. The offer you receive automatically includes all the latest developments. You also receive an instant quotation with drawings (and even a 3-D model when required)!

And it goes without saying that we will also be happy to advise you during an on-site visit or via the phone.

All steps, bridging steps and platforms comply with the standards DIN EN 14122, DIN EN 131-7 and DIN EN 1004.



	Contents Section 06	from page
	Access steps	<u>190</u>
	Access steps with platform	<u>192</u>
	Mobile access steps with platform	<u>194</u>
	Bridging steps, fixed and mobile	<u>200</u>
	Platform steps	<u>202</u>
A	Maintenance platforms and gangways	<u>204</u>
	Accessories	<u>205</u>

## 6 good reasons for steps and platforms from ZARGES:

01

#### Tried and tested – and safe!

Many well-known companies place their trust in ZARGES when work has to be performed at height. Our tried and tested online tool allows you to design your own specific access step or platform.



Platform steps for assembly work on machines and equipment



Bridging steps mobile platforms for the practical bridging obstacles

02

### Extremely short delivery times!

The whole process, from order and production right through to delivery is perfectly streamlined. Your product is delivered within just a couple of weeks (depending on location).

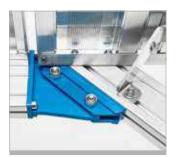


<u>06</u>

03

# Quick and easy assembly!

Assembly in record time: A minimum number of plug-in and screwed joints provide an extremely high level of pre-assembly as well as stability. You can assemble everything simply and quickly using just a few tools.



Stable connection of steps and platforms



Simple installation because of high degree of pre-assembly

04

## Top quality from the market leader!

You can rely on this:

ZARGES quality and design according to the DIN EN ISO 14122 standard. Tested by TÜV (technical inspection agency) and used by well-known companies.



05

# Optimum price/performance ratio!

Made-to-measure at no extra charge!



<u>06</u>

# Online configuration at

### www.zargesconfigurator.com

The ZARGES configurator guides you quickly and easily through the many design and configuration options.





# Made to measure at no extra charge!

ZARGES steps and platforms – adapted precisely to your requirements.



- Can be configured online at www.zargesconfigurator.com
- Automatic 2-D drawings.
- Instant quotation with drawings and 3-D model.
- Short delivery times.
- Standard: DIN FN ISO 14122

#### From the idea to the solution.

### **Consulting:**

Easy to plan:

- Define requirements
- Checklist as aid
- On-site measuring possible
- Support from specialist consultants

### **Configure:**

Simple configuration:

- Intuitive online configurator
  - Bespoke solution for your needs
- Instant quotation
- Drawings and 3D model
- Made to measure at no extra charge

### Assembly:

Simple assembly:

- Highly developed system
- High level of pre-assembly
- Few tools required
- Innovative assembly instructions
- Online assembly videos





Stationary access to buildings and machines.

#### Individually adaptable:

- Different angles of inclination: 45° for comfortable access, 60° for confined spaces.
- Selection of tread widths 600 mm, 800 mm or 1,000 mm.
- Serrated aluminium (R10) step and platform surfaces as standard. Also available as steel open grid (R12) and steel perforated plate (R13) for extra non-slip properties. For illustrations, see page 192.

#### **Exclusive advantages of ZARGES:**

- Maximum flexibility with optional guardrails that can be detached without tools.
- Stiles made from high-strength aluminium extrusions with screw channels for flexible assembly options.
- Quick and simple assembly with the ZARGES connection system with a high level of pre-assembly.













Floor bracket



Handrail and railing removable when required

#### Note:

Not approved to DIN 1055 and DIN 18 065 (steps in residential buildings).

#### **Further options:**

- Hook-on cantilevers, set of hooks and support bracket to integrate the product as detachable in a fixing.
- Plastic support plate for floor bracket for fast removal of product.



Technical data							
Angles of inclination	45° and 60°						
Vertical heights with 45° inclination	400 to 4,080 mm						
Vertical heights with 60° inclination	500 to 4,750 mm						
Tread covering	Aluminium, grooved (R 10) Steel open grid (R 12) Perforated plate steel (R13)						
Tread width	600 mm, 800 mm and 1,000 mm						
Total permissible load	300 kg						
Maximum step load	150 kg						



A choice of preconfigured steps with a  $45^{\circ}$  angle of inclination.

		45°	Steps with one handrail Single-sided handrail mandatory in accordance with DIN EN ISO 14 122. Optional two-sided handrail (mandatory for all distance > 200 mm)						
Vertical height mm		1,070	1,500	1,930	2,360	2,790	3,220	3,650	4,080
Projection in mm		1,111	1,541	1,971	2,401	2,831	3,261	3,691	4,121
Number of treads		5	7	9	11	13	15	17	19
Tread width 600 mm	Order No.	40055244	40055246	40055248	40055250	40055252	40055254	40055256	40055258
Tread width 800 mm	Order No.	40055264	40055266	40055268	40055270	40055272	40055274	40055276	40055278
Tread width 1,000 mm	Order No.	40055344	40055346	40055348	40055350	40055352	40055354	40055356	40055358
Second handrail Order No.  Clamping lever for detachable handrail*  Order No.		42355304	42355306	42355308	42355310	42355312	42355314	42355316	42355318
		42355279	42355279	42355278	42355278	42355278	42355277	42355276	42355276

 $<sup>\</sup>ensuremath{^*}\text{for 2-sided}$  handrails, double the order for clamping levers





A choice of preconfigured steps with a 60° angle of inclination.

		60°	Steps with one handrail Two-sided handrail mandatory in accordance with DIN EN ISO 14122.						
Vertical height mm		1,250	1,750	2,250	2,750	3,250	3,750	4,250	4,750
Projection in mm		772	1,061	1,349	1,638	1,927	2,215	2,504	2,793
Number of treads		5	7	9	11	13	15	17	19
Tread width 600 mm	Order No.	40055204	40055206	40055208	40055210	40055212	40055214	40055216	40055218
Tread width 800 mm	Order No.	40055224	40055226	40055228	40055230	40055232	40055234	40055236	40055238
Tread width 1,000 mm	Order No.	40055324	40055326	40055328	40055330	40055332	40055334	40055336	40055338
Second handrail	Order No.	42355284	42355286	42355288	42355290	42355292	42355294	42355296	42355298
Clamping lever for detachable handrail*	Order No.	42355279	42355279	42355279	42355278	42355278	42355278	42355277	42355276

<sup>\*</sup>for 2-sided handrails, double the order for clamping levers







Stationary access to buildings and machines with platforms.

#### Individually adaptable:

- Different angles of inclination: 45° for comfortable access, 60° for confined spaces.
- Selection of tread widths 600 mm, 800 mm or 1,000 mm.
- Serrated aluminium (R10) step and platform surfaces as standard. Also available as steel open grid (R12) and steel perforated plate (R13) for extra non-slip properties.
- Individually adjustable platform lengths.
- Support section mounting element for use as a free-standing work platform.
- Optional in electrical dissipative design to avoid electrostatic charge.

#### **Exclusive advantages of ZARGES:**

- Individual guardrail configuration on the platform, optionally with swing door or pole barrier.
- Maximum flexibility with optional hand and guard rails which can be removed without tools.
- Stiles made from high-strength aluminium extrusions with screw channels for flexible assembly options.
- Quick and simple assembly with the ZARGES connection system with a high level of pre-assembly.







Serrated aluminium with R10 anti-slip rating



Steel open grid with R12 anti-slip rating



Perforated steel with R13 anti-slip rating







#### Note:

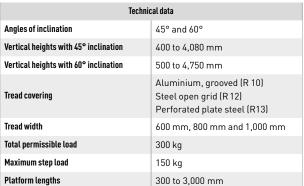
Not approved to DIN 1055 and DIN 18 065 (steps in residential buildings).



#### ZARGES tip

#### Not found the product you need?

Contact our specialist consultants! We have solutions even for complex requirements! Also see from page 320.



#### Access steps with platform



A selection of preconfigured platform steps with a 45° angle of inclination:

		45°	Platform steps with a handrail and side railings Single-sided handrail mandatory in accordance with DIN EN ISO 14 122. Optional two-sided handrail (mandatory for all distance > 200 mm) Platform length 600 mm						
Vertical height mm		1,070	1,500	1,930	2,360	2,790	3,220	3,650	4,080
Projection in mm	1,728	2,158	2,588	3,018	3,448	3,878	4,308	4,738	
Number of treads 5			7	9	11	13	15	17	19
Tread width 600 mm	Order No.	40155424	40155426	40155428	40155430	40155432	40155434	40155436	40155438
Tread width 800 mm	Order No.	40155444	40155446	40155448	40155450	40155452	40155454	40155456	40155458
Tread width 1,000 mm	Order No.	40155464	40155466	40155468	40155470	40155472	40155474	40155476	40155478
Second handrail Order No.		42355304	42355306	42355308	42355310	42355312	42355314	42355316	42355318
Clamping lever for detachable handrail*	Order No.	42355279	42355279	42355278	42355278	42355278	42355277	42355276	42355276

<sup>\*</sup>for 2-sided handrails, double the order for clamping levers



A selection of preconfigured platform steps with a 60° angle of inclination:

		60°		Two-sided handrai	and side railings EN ISO 14 122; platform length 600 mm				
Vertical height mm		1,250	1,750	2,250	2,750	3,250	3,750	4,250	4,750
Projection in mm		1,398	1,687	1,975	2,264	2,553	2,841	3,130	3,419
Number of treads		5	7	9	11	13	15	17	19
Tread width 600 mm	Order No.	40155364	40155366	40155368	40155370	40155372	40155374	40155376	40155378
Tread width 800 mm	Order No.	40155384	40155386	40155388	40155390	40155392	40155394	40155396	40155398
Tread width 1,000 mm	Order No.	40155404	40155406	40155408	40155410	40155412	40155414	40155416	40155418
Second handrail	Order No.	42355284	42355286	42355288	42355290	42355292	42355294	42355296	42355298
Clamping lever for detachable handrail/railings	Order No.	42355279	42355279	42355279	42355278	42355278	42355278	42355277	42355276

 $<sup>\</sup>ensuremath{^*} \text{for 2-sided handrails, double the order for clamping levers}$ 

#### Platform railing

Side platform railings	For platform length in mm	600
Side plation in railings	Order No.	42355844
Clamping lever for detachable handrail/ railings	Order No.	42355279

End facing	for platform width in mm	600	800	1,000
Platform railing	Order No.	42355882	42355884	42355886
Clamping lever for detachable handrail/ railings	Order No.	42355279	42355279	42355279





We recommend equipping the product in accordance with the German Equipment and Product Safety Act (ProdSG) with two-sided handrails and, for steps with platforms or maintenance platforms, all around fall protection (e.g. guard rails). If handrails or guardrails are not desired, the operator must ensure sufficient regulatory protection.



#### Mobile access steps with platform



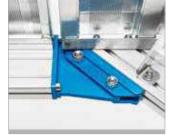
Ideal for work over long periods, even with tools and frequent changes of working position. Large-area platform with guardrail for safe and ergonomic working at heights.

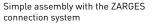
#### Individually adaptable:

- Different angles of inclination: 45° for comfortable access, 60° for confined spaces.
- Selection of tread widths 600 mm, 800 mm or 1,000 mm.
- Serrated aluminium (R10) step and platform surfaces as standard. Also available as steel open grid (R12) and steel perforated plate (R13) for extra non-slip properties. For illustrations, see page 192.
- Individually adjustable platform lengths.
- Cantilever platform available for bridging obstacles.
- Chassis available in a non-static version option.
- Narrow chassis. The chassis width is reduced to a minimum through additional ballasting.

#### **Exclusive advantages of ZARGES:**

- Individual guardrail configuration on the platform, with optional swing door or pole barrier.
- Maximum flexibility with optional hand and guard rails which can be removed without tools.
- Quick and simple assembly with the ZARGES connection system with a high level of pre-assembly.







Simple installation because of high degree of pre-assembly





Technical data								
Angles of inclination	45° and 60°							
Vertical heights with 45° inclination	600 to 4,510 mm							
Vertical heights with 60° inclination	600 to 5,250 mm							
Tread covering	Aluminium, grooved (R 10) Steel open grid (R 12) Perforated plate steel (R13)							
Tread width	600 mm, 800 mm and 1,000 mm							
Total permissible load	300 kg							
Maximum step load	150 kg							
Platform lengths	600 to 3,000 mm							



#### **ZARGES** tip

Configure your individual platform steps at **www.zargesconfigurator.com** 



#### **ZARGES** tip

#### Not found the product you need?

Contact our specialist consultants! We have solutions even for complex requirements! Also see from page 320.

# <u>06</u>

#### Mobile access steps with platform



A selection of preconfigured platform steps, mobile and with a  $45^{\circ}$  angle of inclination:

	Platform steps, mobile with 2-sided handrail and all round platform railing, platform length 600 mm									
Vertical height mm		1,070	1,500	1,930	2,360	2,790	3,220	3,650	4,080	4,510
Projection in mm		1,826	2,256	2,686	3,116	3,546	3,976	4,406	4,836	5,266
Number of treads		5	7	9	11	12	14	16	18	20
Tread width 600 mm	Chassis width	1,020	1,020	1,020	1,020	1,020	1,020	1,220	1,420	1,420
ireau wiutii ooo iiiiii	Order No.	40255764	40255766	40255768	40255770	40255772	40255774	40255776	40255778	40255780
Tread width 800 mm	Chassis width	1,220	1,220	1,220	1,220	1,220	1,220	1,420	1,420	1,620
ireau wiutii ooo iiiiii	Order No.	40255784	40255786	40255788	40255790	40255792	40255794	40255796	40255798	40255800
To a desidab 1 000 mm	Chassis width	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,620
Tread width 1,000 mm	Order No.	40255804	40255806	40255808	40255810	40255812	40255814	40255816	40255818	40255820
Clamping lever for detachable handrail*	Order No.	42355279	42355279	42355278	42355278	42355278	42355277	42355276	42355276	42355276

<sup>\*</sup>for 2-sided handrails, double the order for clamping levers



A selection of preconfigured platform steps, mobile and with a 60° angle of inclination:

		60°		Platform steps, mobile with 2-sided handrail and all round platform railing, platform length 600 mm						
Vertical height mm		1,250	1,750	2,250	2,750	3,250	3,750	4,250	4,750	5,250
Projection in mm		1,515	1,804	2,092	2,381	2,670	2,958	3,247	3,536	3,819
Number of treads		5	7	9	11	12	14	16	18	20
Tread width 600 mm	Chassis width	1,020	1,020	1,220	1,220	1,420	1,420	1,620	1,620	1,620
	Order No.	40255704	40255706	40255708	40255710	40255712	40255714	40255716	40255718	40255720
Tread width 800 mm	Chassis width	1,220	1,220	1,420	1,420	1,620	1,620	1,620	1,620	1,620
ireau wiutii ooo iiiiii	Order No.	40255724	40255726	40255728	40255730	40255732	40255734	40255736	40255738	40255740
Tread width 1.000 mm	Chassis width	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,620
ireau wiutii 1,000 iiiiii	Order No.	40255744	40255746	40255748	40255750	40255752	40255754	40255756	40255758	40255760
Clamping lever for detachable handrail*	Order No.	42355279	42355279	42355279	42355278	42355278	42355278	42355277	42355276	42355276

<sup>\*</sup>for 2-sided handrails, double the order for clamping levers

Clamping lever for detachable handrail/rail-	Platform width	600/800/1000
ings	Order No.	42355275





We recommend equipping the product in accordance with the German Equipment and Product Safety Act (ProdSG) with two-sided handrails and, for steps with platforms or maintenance platforms, all around fall protection (e.g. guard rails). If handrails or guardrails are not desired, the operator must ensure sufficient regulatory protection.



#### Mobile platform steps with ZARGES Ergo Stop



Ideal for work over long periods, even with tools and frequent changes of working position. Large-area platform with guardrail for safe and ergonomic work at heights.

#### Individually adaptable:

- Different angles of inclination: 45° for comfortable access, 60° for confined spaces.
- Selection of tread widths 600 mm, 800 mm or 1,000 mm.
- Serrated aluminium (R10) step and platform surfaces as standard. Also available as steel open grid (R12) and steel perforated plate (R13) for extra non-slip properties. For illustrations, see page 192.
- Individually adjustable platform lengths.
- Platform steps instantly ready for use due to an innovative brake system.
- Chassis available in a non-static version option.
- ZARGES Ergo Stop all four castors can be braked conveniently using the footpedal on the flight of steps.

#### **Exclusive advantages of ZARGES:**

- Individual guardrail configuration on the platform, with optional swing door or pole barrier.
- Maximum flexibility with optional hand and guard rails which can be removed without tools.
- Quick and simple assembly with the ZARGES connection system with a high level of pre-assembly.







Safe transition from handrail to railings

Techni	cal data
Angles of inclination	45° and 60°
Vertical heights with 45° inclination	600 to 4,510 mm
Vertical heights with 60° inclination	600 to 5,250 mm
Tread covering	Aluminium, grooved (R 10) Steel open grid (R 12) Perforated plate steel (R13)
Tread width	600 mm, 800 mm and 1,000 mm
Total permissible load	300 kg
Maximum step load	150 kg
Platform lengths	600 to 3,000 mm



#### **ZARGES** tip

Configure your individual platform steps at **www.zargesconfigurator.com** 



#### **ZARGES** tip

#### Not found the product you need?

Contact our specialist consultants! We have solutions even for complex requirements! Also see from page 320.

#### Platform steps, mobile, with Ergo Stop



A selection of preconfigured platform steps, mobile and with a 45° angle of inclination:

		45°	Platform steps, mobile with 2-sided handrail and all round platform railing, platform length 600 mm, ERGO-Stop BRAKING SYSTEM								
Vertical height mm		1,070	1,500	1,930	2,360	2,790	3,220	3,650	4,080	4,510	
Projection in mm		1,845	2,275	2,705	3,135	3,565	3,995	4,425	4,855	5,285	
Number of treads		5	7	9	11	12	14	16	18	20	
Tread width 600 mm	Chassis width	1,020	1,020	1,020	1,220	1,220	1,420	1,420	1,620	1,620	
ireau wiutii ooo iiiiii	Order No.	40255014	40255016	40255018	40255020	40255022	40255024	40255026	40255028	40255030	
Tread width 800 mm	Chassis width	1,220	1,220	1,220	1,220	1,220	1,220	1,420	1,420	1,620	
ireau wiutii ooo iiiiii	Order No.	40255034	40255036	40255038	40255040	40255042	40255044	40255046	40255048	40255050	
Treed width 1 000 mm	Chassis width	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,620	
Tread width 1,000 mm	Order No.	40255054	40255056	40255058	40255060	40255062	40255064	40255066	40255068	40255070	
Clamping lever for detachable handrail*	Order No.	42355279	42355279	42355278	42355278	42355278	42355277	42355276	42355276	42355276	

<sup>\*</sup>for 2-sided handrails, double the order for clamping levers



A selection of preconfigured platform steps, mobile and with a 60° angle of inclination:

		60°	Platform steps, mobile with 2-sided handrail and all round platform railing, platform length 600 mm, ERGO-Stop BRAKING SYST							AKING SYSTEM
Vertical height mm 1,250		1,250	1,750	2,250	2,750	3,250	3,750	4,250	4,750	5,250
Projection in mm		1,566	1,855	2,143	2,432	2,721	3,009	3,298	3,587	3,870
Number of treads		5	7	9	11	12	14	16	18	20
Tread width 600 mm	Chassis width	1,020	1,220	1,420	1,420	1,620	1,620	1,620	1,620	1,620
	Order No.	40255074	40255076	40255078	40255080	40255082	40255084	40255086	40255088	40255090
Tread width 800 mm	Chassis width	1,220	1,220	1,420	1,420	1,620	1,620	1,620	1,620	1,620
ireau wiutii ooo iiiiii	Order No.	40255094	40255096	40255098	40255100	40255102	40255104	40255106	40255108	40255110
Tread width 1.000 mm	Chassis width	1,420	1,420	1,420	1,420	1,620	1,620	1,620	1,620	1,620
ireau widui 1,000 iiiiii	Order No.	40255114	40255116	40255118	40255120	40255122	40255124	40255126	40255128	40255130
Clamping lever for detachable handrail*	Order No.	42355279	42355279	42355279	42355278	42355278	42355278	42355277	42355276	42355276

<sup>\*</sup>for 2-sided handrails, double the order for clamping levers

Clamping lever for detachable handrail/	Platform width	600/800/1000
railings	Order No.	42355275





We recommend equipping the product in accordance with the German Equipment and Product Safety Act (ProdSG) with two-sided handrails and, for steps with platforms or maintenance platforms, all around fall protection (e.g. guard rails). If handrails or guardrails are not desired, the operator must ensure sufficient regulatory protection.



#### Mobile platform steps with ZARGES Auto Stop





AUTO Stop central brake

Ideal for work over long periods, even with tools and frequent changes of working position. Large-area platform with guardrail for safe and ergonomic work at heights.

#### Individually adaptable:

- Different angles of inclination: 45° for comfortable access, 60° for confined spaces.
- Selection of tread widths 600 mm, 800 mm or 1,000 mm.
- Serrated aluminium (R10) step and platform surfaces as standard. Also available as steel open grid (R12) and steel perforated plate (R13) for extra non-slip properties. For illustrations, see page 192.
- Individually adjustable platform lengths.
- Platform steps instantly ready for use due to an innovative brake system.
- Chassis available in a non-static version option.
- ZARGES Auto Stop automatic brake on the swivel castors on the step side – the brake can be released in order to move the product by pressing a lever

#### **Exclusive advantages of ZARGES:**

- Individual guardrail configuration on the platform, with optional swing door or pole barrier.
- Maximum flexibility with optional hand and guard rails which can be removed without tools.
- Quick and simple assembly with the ZARGES connection system with a high level of pre-assembly.

Techni	cal data
Angles of inclination	45° and 60°
Vertical heights with 45° inclination	600 to 4,510 mm
Vertical heights with 60° inclination	600 to 5,250 mm
Tread covering	Aluminium, grooved (R 10) Steel open grid (R 12) Perforated plate steel (R13)
Tread width	600 mm, 800 mm and 1,000 mm
Total permissible load	300 kg
Maximum step load	150 kg
Platform lengths	600 to 3,000 mm



#### **ZARGES** tip

Configure your individual platform steps at **www.zargesconfigurator.com** 



#### **ZARGES** tip

#### Not found the product you need?

Contact our specialist consultants! We have solutions even for complex requirements! Also see from page 320.

#### Platform steps, mobile with Auto Stop



A selection of preconfigured platform steps, mobile and with a 45° angle of inclination:

		45°	Platform steps, mobile with 2-sided handrail and all round platform railing, platform length 600 mm, ERGO-Stop BRAKING SYSTEM								
Vertical height mm		1,070	1,500	1,930	2,360	2,790	3,220	3,650	4,080	4,510	
Projection in mm		1,826	2,256	2,686	3,116	3,546	3,976	4,406	4,836	5,266	
Number of treads		5	7	9	11	12	14	16	18	20	
Tread width 600 mm	Chassis width	1,020	1,020	1,020	1,220	1,220	1,420	1,420	1,620	1,620	
II eau wiutii ooo iiiiii	Order No.	40255314	40255316	40255318	40255320	40255322	40255324	40255326	40255328	40255330	
Tread width 800 mm	Chassis width	1,220	1,220	1,220	1,220	1,220	1,220	1,420	1,420	1,620	
ireau wiutii ooo iiiiii	Order No.	40255334	40255336	40255338	40255340	40255342	40255344	40255346	40255348	40255350	
Treed width 1 000 mm	Chassis width	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,620	
Tread width 1,000 mm	Order No.	40255354	40255356	40255358	40255360	40255362	40255364	40255366	40255368	40255370	
Clamping lever for detachable handrail*	Order No.	42355279	42355279	42355278	42355278	42355278	42355277	42355276	42355276	42355276	

<sup>\*</sup>for 2-sided handrails, double the order for clamping levers



A selection of preconfigured platform steps, mobile and with a 60° angle of inclination:

		60°	Platform steps, mobile with 2-sided handrail and all round platform railing, platform length 600 mm, ERGO-Stop BRAKING SYSTEM							AKING SYSTEM
Vertical height mm 1,3		1,250	1,750	2,250	2,750	3,250	3,750	4,250	4,750	5,250
Projection in mm		1,515	1,804	2,092	2,381	2,670	2,958	3,247	3,536	3,819
Number of treads		5	7	9	11	12	14	16	18	20
Tread width 600 mm	Chassis width	1,020	1,220	1,420	1,420	1,620	1,620	1,620	1,620	1,620
	Order No.	40255374	40255376	40255378	40255380	40255382	40255384	40255386	40255388	40255390
Tread width 800 mm	Chassis width	1,220	1,220	1,420	1,420	1,620	1,620	1,620	1,620	1,620
ireau wiutii ooo iiiiii	Order No.	40255394	40255396	40255398	40255400	40255402	40255404	40255406	40255408	40255410
Tread width 1.000 mm	Chassis width	1,420	1,420	1,420	1,420	1,620	1,620	1,620	1,620	1,620
ireau wiutii 1,000 iiiiii	Order No.	40255414	40255416	40255418	40255420	40255422	40255424	40255426	40255428	40255430
Clamping lever for detachable handrail*	Order No.	42355279	42355279	42355279	42355278	42355278	42355278	42355277	42355276	42355276

 $<sup>\</sup>ensuremath{^*}\text{for 2-sided}$  handrails, double the order for clamping levers

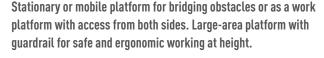
Clamping lever for detachable handrail/	Platform width	600/800/1,000
railings	Order No.	42355275





We recommend equipping the product in accordance with the German Equipment and Product Safety Act (ProdSG) with two-sided handrails and, for steps with platforms or maintenance platforms, all around fall protection (e.g. guard rails). If handrails or guardrails are not desired, the operator must ensure sufficient regulatory protection.





#### Individually adaptable:

- Selection of tread widths 600 mm, 800 mm or 1,000 mm.
- Serrated aluminium (R10) step and platform surfaces as standard. Also available as steel open grid (R12) and steel perforated plate (R13) for extra non-slip properties. For illustrations, see page 192.
- Individually adjustable platform lengths.
- Optionally with chassis for mobile applications.
- Optional in electrical dissipative design to avoid electrostatic charge.

#### **Exclusive advantages of ZARGES:**

- Individual guardrail configuration on the platform, with optional swing door or pole barrier.
- Maximum flexibility with optional hand and guard rails which can be removed without tools.
- Quick and simple assembly with the ZARGES connection system with a high level of pre-assembly.



Stable construction



Chassis available as an option in the online configurator



#### ZARGES tip

Configure your individual bridging steps at **www.zargesconfigurator.com** 



#### ZARGES tip

#### Not found the product you need?

Contact our specialist consultants!
We have solutions even for complex
requirements! Also see from page 320.



Floor bracket



#### Note:

Not approved to DIN 1055 and DIN 18 065 (steps in residential buildings).

Techn	ical data
Angles of inclination	45° and 60°
Vertical heights with 45° inclination	280 to 2,240 mm
Vertical heights with 60° inclination	380 to 2,630 mm
Tread covering	Aluminium, grooved (R 10) Steel open grid (R 12) Perforated plate steel (R13)
Tread width	600 mm, 800 mm and 1,000 mm
Total permissible load	300 kg
Maximum step load	150 kg
Platform lengths	600 to 3,000 mm





#### **Stationary bridging steps**



A selection of preconfigured bridging steps, stationary and with a 45° angle of inclination:

		45°		Stationary bridging steps with one-sided handrail and side railings, platform length 600 mm							
Clear height mm 740			950	1,170	1,380	1,600	1,810	2,030	2,240		
Projection in mm		2,427	2,847	3,287	3,707	4,147	4,567	5,007	5,427		
Number of treads		4	5	6	7	8	9	10	11		
Tread width 600 mm	Order No.	40355933	40355934	40355935	40355936	40355937	40355938	40355939	40355940		
Tread width 800 mm	Order No.	40355943	40355944	40355945	40355946	40355947	40355948	40355949	40355950		
Tread width 1,000 mm	Order No.	40355953	40355954	40355955	40355956	40355957	40355958	40355959	40355960		
Handrail and platform railing	Order No.	42355974	42355975	42355976	42355977	42355978	42355979	42355980	42355981		
Clamping lever for detachable handrail*	Order No.	42355275	42355275	42355275	42355275	42355275	42355273	42355273	42355273		

<sup>\*</sup>for 2-sided handrails, double the order for clamping levers



A selection of preconfigured bridging steps, stationary and with a 60° angle of inclination:

		60°	Stationary bridging steps with one-sided handrail and side railings, platform length 600 mm						
Clear height mm		880	1,130	1,380	1,630	1,880	2,130	2,380	2,630
Projection in mm		1,895	2,184	2,472	2,761	3,050	3,338	3,627	3,916
Number of treads		4	5	6	7	8	9	10	11
Tread width 600 mm	Order No.	40355903	40355904	40355905	40355906	40355907	40355908	40355909	40355910
Tread width 800 mm	Order No.	40355913	40355914	40355915	40355916	40355917	40355918	40355919	40355920
Tread width 1,000 mm	Order No.	40355923	40355924	40355925	40355926	40355927	40355928	40355929	40355930
Handrail and platform railing	Order No.	42355964	42355965	42355966	42355967	42355968	42355969	42355970	42355971
Clamping lever for detachable handrail*	Order No.	42355275	42355275	42355275	42355275	42355275	42355275	42355273	42355273

<sup>\*</sup>for 2-sided handrails, double the order for clamping levers









Mobile through castors



Stability through plastic support plate



#### **ZARGES** tip

Configure your individual platform steps at **www.zargesconfigurator.com** 



Choice of stationary or mobile version (for moving quickly to another working position). Ideal for work over long periods, even with tools.

#### Individually adaptable:

- Selection of tread widths 600 mm, 800 mm or 1,000 mm.
- Serrated aluminium (R10) step and platform surfaces as standard. Also available as steel open grid (R12) and steel perforated plate (R13) for extra non-slip properties. For illustrations, see page 192.
- Individually adjustable platform lengths.
- Available in a non-static version to prevent the build-up of electrostatic charges.
- Configurable up to a vertical height of 1,500 mm (from 1,000 mm with horizontal stabiliser bar for safe standing).
- Assembly elements: Support section assembly elements selectable without wheel or as a stationary work platform with floor brackets.

#### **Exclusive advantages of ZARGES:**

- Individual guardrail configuration on the platform, with optional swing door or pole barrier.
- Maximum flexibility with optional hand and guard rails which can be removed without tools.
- Quick and simple assembly with the ZARGES connection system with a high level of pre-assembly.

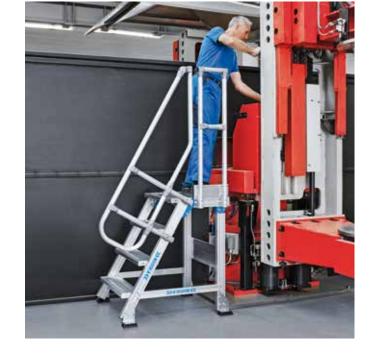


#### **ZARGES** tip

#### Not found the product you need?

Contact our specialist consultants! We have solutions even for complex requirements! Also see from page 320.

Technical data				
Angles of inclination	45° and 60°			
Vertical heights with 45° inclination	400 to 1,500 mm			
Vertical heights with 60° inclination	500 to 1,500 mm			
Tread covering	Aluminium, grooved (R 10) Steel open grid (R 12) Perforated plate steel (R13)			
Tread width	600 mm, 800 mm and 1,000 mm			
Total permissible load	300 kg			
Maximum step load	150 kg			
Platform lengths	400 to 2,000 mm			





#### **Platform steps**



A choice of preconfigured platform steps with a 45° angle of inclination.

		45°	Platform steps Single-sided handrail and platfor railings are mandatory in accordance with DIN EN I 14 122 from a vertical height of 500 onwards, doub sided handrail optional (for wall distance > 200 m mandatory).		
Vertical height mm		400	600	800	990
Projection in mm		943	1,143	1,343	1,533
Number of treads		2	3	4	5
Tread width 600 mm	Order No.	40855520	40855521	40855522	40855523
Tread width 800 mm	Order No.	40855524	40855525	40855526	40855527
Tread width 1,000 mm	Order No.	40855528	40855529	40855530	40855531
Single-sided handrail	Order No.	42355301	42355302	42355303	42355304
Clamping lever for detachable handrail*	Order No.	42355279	42355279	42355279	42355279

<sup>\*</sup>for 2-sided handrails, double the order for clamping levers



A choice of preconfigured platform steps with a 60° angle of inclination.

		60°	Platform steps Single-sided handrail ar platform railings are mandatory in accord with DIN EN ISO 14122 from a vertical heig 500 onwards, double-sided handrail option wall distance > 200 mm mandatory).	
Vertical height mm		500	750	990
Projection in mm		865	1,009	1,148
Number of treads		2	3	4
Tread width 600 mm	Order No.	40855540	40855541	40855542
Tread width 800 mm	Order No.	40855544	40855545	40855546
Tread width 1,000 mm	Order No.	40855548	40855549	40855550
Single-sided handrail	Order No.	42355281	42355282	42355283
Clamping lever for detachable handrail*	Order No.	42355279	42355279	42355279

<sup>\*</sup>for 2-sided handrails, double the order for clamping levers

#### Platform railing

•		
Side	For platform length in mm	400
Platform railing	Order No.	42355843
Clamping lever for detachable handrail/ railings	Order No.	42355279

End facing	for platform width in mm	600	800	1,000
Platform railing	Order No.	42355882	42355884	42355886
Clamping lever for detachable handrail/ railings	Order No.	42355279	42355279	42355279



We recommend equipping the product in accordance with the German Equipment and Product Safety Act (ProdSG) with two-sided handrails and, for steps with platforms or maintenance platforms, all around fall protection (e.g. guard rails). If handrails or guardrails are not desired, the operator must ensure sufficient regulatory protection.



#### Work platforms and gangways



Maintenance platform module with ladder access



Maintenance platform module with fixed ladder access and back protection



Maintenance platform module with stairway access

Fixed and mobile maintenance platforms and gangways for optimal and secure working on plant and machinery - to exactly match your requirements. Individually adaptable:

- Optional access as steps, ladder or fixed ladder.
- Brace-free design to provide space below the product.
- Braced design to enable extended lengths and heights.
- Serrated aluminium (R10) step and platform surfaces as standard. Also available as steel open grid (R12) and steel perforated plate (R13) for extra non-slip properties. For illustrations, see page 192.
- Fixed or with chassis for mobile applications.
- Wide range of accessories.

Flexible options for combining the modules by docking:













#### Information from your ZARGES specialist consultant:

E-Mail: vertrieb@zarges.de

or at www.zargesconfigurator.com

Technical data				
Platform module	Brace-free, stationary	Brace-free, mobile	Braced, stationary or mobile	
Vertical height	3,500 mm	3,500 mm	3,500 mm	
Platform length	Up to 4,000 mm	Up to 3,000 mm	Up to 5,000 mm	
Tread and platform width	600 mm; 800 mm; 1,000 mm	600 mm; 800 mm; 1,000 mm	600 mm; 800 mm; 1,000 mm	
Tread covering	Aluminium, grooved Steel open grid Perforated plate steel	Aluminium, grooved Steel open grid Perforated plate steel	Aluminium, grooved Steel open grid Perforated plate steel	
Total permissible load	300 kg	300 kg	300 kg	
Maximum step load	150 kg	150 kg	150 kg	
Step access	45°- or 60° inclination	45°- or 60° inclination	45°- or 60° inclination	
Fixed ladder access	90° inclination	90° inclination	90° inclination	
Ladder access	70° inclination	70° inclination	70° inclination	



#### **Accessories**

Order No.	
42355280	

#### Clamping lever

For conversion from fixed two detachable handrail and railings.



Order No.	
40189	

#### **Shock protection**

To protect machinery and equipment from damage.



Order No.	
41967	

#### Storage tray

As storage for tools and work materials. Attachment to railings with tube diameters 36–40 mm.



Order No.	
41968	

#### Storage and retrieval tray

Safely store your laptop or your documents here. Attachment to railings with tube diameters 36–40 mm. Maximum load 10 kg.



Order No.	
40301	

#### Tool bag

Tool bag with plastic base and reinforced back. Fix to railings using a snap fastener. Maximum load 15 kg.



Tread width	Order No.
600	42300055
800	42300056
1000	42300057

#### Swing door

Use a swing door to secure the access side to your product.



Tread width	Order No.
600	42300075
800	42300076
1000	42300077

#### Pole barrier

Use a pole barrier to secure the access side to your product.





# Online configurator for steps and platforms – customised solutions at no extra charge.







# Online configurator: ordering your product is easy and intuitive!

Whether for access, bridging or mobile working areas, the Online Configurator enables you to design your own product within minutes!





#### The advantages for you:

- Quick and easy assembly!
- Further information and help.
- Configuration-supported 3D model
- Instant quotation with drawings and 3D model.
- The best price/performance ratio.

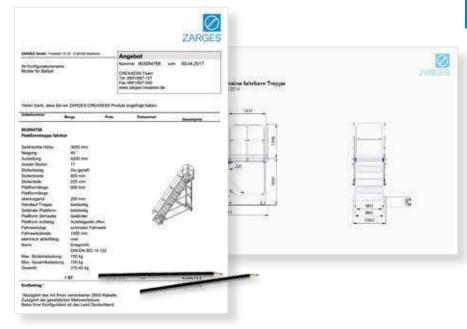




# No special product know-how required: Just follow the instructions on the screen!

The system will guide you and prompt you to enter all relevant information such as heights, platform lengths or guardrail versions.

Just a few steps are all it takes to get your quotation, including drawings – that's how easy it is.



#### We are there for you:

Personal advice from your ZARGES team.

Use the online configurator for steps and platforms.

More information available online:

www.zargesconfigurator.com

# Optional special equipment, accessories and spare parts for ladders.



# <u>07</u>

# Optional special equipment – do you need that little bit more?



It goes without saying that all basic functions and all equipment prescribed by law are included in the ZARGES products.

Sometimes, however, you need that little bit more – for more comfort, flexibility and safety. To meet these needs, ZARGES offers a comprehensive range of special equipment and accessories, for example for storing tools, to allow you to make adjustments for unfavourable spatial or floor conditions, to give you even better non-slip performance or storage and transport solutions.

A reliable supply of spare parts ensures that ZARGES products will have a long service life and retain their value and means users can rest assured that their access equipment is always in optimum condition.





Contents Section U7	from page
Optional special equipment	<u>210</u>
Ladder accessories	<u>212</u>
Spare parts for ladders	<u>218</u>

# Adapted to your specific requirements.

To meet your specific requirements, we offer a range of optional accessories which we professionally fit on your ladder during series production.



#### Optional special equipment for single ladders and stepladders

# Examples of stepladders with castor assembly.



Ladder equipped with 4 sprung fixed castors, for longitudinal movement or 4 sprung swivel castors, rotatable, plus 2 rigid locking bars.



Ladder equipped with 2 sprung fixed castors, non-rotatable, plus 2 rigid locking bars.

- Mobile versions for singleand double-sided stepladders
- Designation Order No. for mounting on inner side of outer side of Sprung fixed castors, 8100 8200 Ø 80 mm(1 set = 4 pieces) Sprung fixed castors, 8101 8201 Ø 80 mm(1 set = 2 pieces) Sprung swivel castors,

  Ø 80 mm(1 set = 4 pieces) 8102 8202 Sprung fixed and sprung
- Horizontal stabiliser attachment –
   more stability for your ladder

swivel castors, Ø 80 mm

Designation	Order No.
Horizontal stabiliser bar	8107

- 4 Antistatic ladders increased safety in dangerous areas
- Antistatic ladders are fitted with special end caps which are conductive due to the addition of graphite. This prevents electrostatic charges. Resistivity 10<sup>6</sup> ohms, including identification sticker Order No. 28281.

Antistatic version	Order No.
Stepladders and single ladders	8104
2-part ladders	8105
3-part ladders	8106
Access steps with platform	9120

# Single ladders



#### 5 Hook fitting

Various hooks can be attached to the stile ends, for example to hook your ladder into a shelving system. You will find a selection of hooks on page 201.

#### 6 Top wheel assembly

Suitable for single or push-up ladders.
 Ladders are equipped with wheels
 that will not damage the wall surface,
 allowing easy positioning and set-up.

Designation	Order No.
Top wheel assembly	8110

#### 7 Mast wheel assembly

■ Suitable for single ladders, push-up and rope-operated ladders. Ladders are equipped with rollers specially adjusted to poles, allowing easy positioning and set-up.
Suitable for poles of Ø 150 mm to Ø 400 mm.

Designation	Order No.
Mast wheel assembly for aluminium ladders	8505
Mast wheel assembly for GRP ladders	8506

#### 8 Anti-splay chain

 Fits stepladders with webbing straps as protection against splaying.
 The Perlon straps are replaced with stronger steel chains.

De	signation	Order No.
Fa	stening chain	9897

#### 9 Rigid locking bar

Suitable for stepladders.2 additional rigid locking bars ensure optimum stability.

Designation	Order No.
Rigid locking bar up to 5 treads	8831
Rigid locking bar for 6 to 12 treads	8832



#### Ladder accessories



#### Stile extension

To compensate for height differences on uneven ground, steps etc. Easy to fit. Adjustable range max. 375 mm. Compatible with ladders with stile height 48–73 mm.

Order No.	
40922	



#### Stile extension

For ladders with horizontal stabiliser bars.

Continuous adjustment up to a maximum of 375 mm.

Easy to fit on to horizontal stabiliser bars.

For box section stiles mm	Order No.
58	41987
73	41989



#### **Hanging hooks**

Retrofitting possible on all single ladders with square flanging.
Simple clamping mechanism for fast fitting.
Compatible with stile heights from 58-85 mm.
1 set = 2 pcs.

Stile hook for guide rails mm	Order No.
36	40058
50	40059



#### Tool bag

Mobile pouch for cordless screwdrivers with slots for accessories
Can be secured easily to ladder stiles with Velcro. Can also be worn on the belt.

Order No.
40300



#### Tool bag

Mobile tool pouch with different storage compartments.
With shoulder strap for easy carrying.

With shoulder strap for easy carrying. Highly flexible in terms of mounting options.

Order No.
40301



#### Folding bracket

Wear-resistant, anodised bracket. Compatible with step ladders with treads and double-sided access.



#### Note:

In series production mounted directly onto your ladder.

Version	Order No.
SaferStep ladders	8206
Riveted ladders	8207
Screwed ladders	8208
Seventec ladders	8209



#### Ladder accessories

Order No.	
8210	



#### Note:

Factory fitted

Please state the required tread/rung when placing your order.



Compatible with ladders with square flanging with maximum tread/rung lengths of 560 mm.

Includes three-digit combination lock.



For box section stiles mm	Order No.
56-85	40231
98-114	40371

#### Wall support

For protection against unwanted pressure on walls or facades with external wall insulation.

Larger support area with wall-friendly foam material.

Easy installation thanks to Velcro fastener.

1 set = 2 pcs.



Length mm	Order No.
890	40020
1085	40021
1185	40022
1000	40023
1200	40024

#### Horizontal stabiliser bar with castors

Ergonomic transport of ladders with horizontal stabiliser bars. Fits through doorways.

Easy installation because it replaces the existing rigid stabiliser.

Compatible with ladders with horizontal stabiliser bar and stile dimensions of 73 x 25 mm.



Order No.
40390

#### Light

Actively increases the visibility of ladders in poor weather conditions or in the dark. Compatible with ladders with steps/rungs with square flanging.

Battery life of up to 72 hours.

Replaceable batteries (button cells).



Version	Dimension mm	Order No.
Flanged ladders	500 × 52	40156
Riveted/screwed lad- ders	230 × 36	40157
Seventec work platform	230 × 52	40158
Seventec ladders	500 × 52	40159

#### Reflective labels

Increases visibility through reflection in poor weather conditions or in the dark. Can be retrospectively applied to a ladder.

1 set = 2 pcs.



Outside stile dimension mm	Order No.
42 × 25	40309
48 × 25	40310

#### Non-marking ladder end caps

Protects sensitive floors from scuff marks. Can be retrospectively installed on ladders with push-on end caps. 1 set = 2 pcs.





#### Storage tray

For attachment to guardrail with tube diameter 36 mm or 40 mm.

Order No.
41967



#### Ladder adapter

For continuous levelling. Levelling up to a max. of 110 mm. For outside ladder widths 300 mm–500 mm.

For stile heights up to max. mm	Ext. width approx. mm	Weight kg	Order No.
98	680	5.0	41919



#### ZAP stabiliser

Swing-out stabilisers for increasing stability in accordance with BGI 637 regulations.
For retrofitting.
It is only necessary to drill 2 holes for fitting

Order No.
41670



#### ZAP castors

Castors for retrofitting. For easy movement of the ZAP stepladder. For stile height 58 mm.

Order No.
41671



#### Wall support/base stabiliser

Bolts to the ladder with 2 brackets. Non-slip and stable end caps. Mounting on splayed leg ladders possible.

Spread mm	Overall span m	For box section stiles mm	Order No.
1200	0.54	58-114	40250



#### Stand-off bracket with tool tray

For rung ladders. Wall stand-off max. 68 cm, min. 50 cm, adjustable every 3 cm.

Order No.
40100



angled attachment here 40222



straight attachment here 40224

#### Retractable stile extension

Stile extension available in two different variants.

For angled and for straight attachment, depending on requirements.

- 1,300 mm with lift-off retainer.
- 1,100 mm pure stile length.

#### For one-piece ladders

Version	Order No.
right, angled attachment	40222
left, angled attachment	40223
right, straight attachment	40224
left, straight attachment	40225

#### For multi-section ladders

Version	Order No.
right, straight attachment	40254
left, straight attachment	40255

#### Ladder accessories

Version	Weight kg	Order No.
right	1.0	41998
left	1.0	41999

#### Handrail, foldable

Made of aluminium alloy tube (Ø 25 mm) for self-mounting with clamp in the top and pin for sitelong triple-formed joints. Suitable for box section stiles of 73 mm.





Handrail length mm	Height m	Suitable for single and shelf ladders m	Order No.
1270	0.20	3.00	41960
1990	0.20	4.70	41990

#### Handrail

Made of aluminium alloy tube ( $\varnothing$  25 mm) for self-mounting with clamp, suitable for box section stiles up to 73 mm.



Order No.	
40999	

#### **Gutter fastening**

For safe roof access.

For secure fastening of an access ladder (e.g. a 3-part multi-function ladder) to a roof gutter.

Can be used with stiles of up to 85 mm (1 set = 2 pcs.).





Orde	r No.
40	939

#### **Ground spikes**

Also suitable for stabiliser bars. Steel spikes with ground plate from stile height  $50 \text{ mm}-114 \text{ mm} \times 25 \text{ mm}$ . 1 set = 2 pcs. (right/left).



Order No.	
40226	

#### Pivot foot with rubber tread

From stile height 58 mm × 25 mm. Support surface 125 mm × 50 mm. Can be used folded up as a ground spike. Scope of delivery:

1 piece, with assembly material. Holes must be drilled for assembly.



Order No.
40997

#### Pivot foot with rubber tread

Support surface 100 mm × 55 mm. From stile height 42 mm × 25 mm. Scope of delivery:

1 piece, with assembly material. Holes must be drilled for assembly.



#### Ladder accessories



#### Horizontal stabiliser bar for retrofitting

Stabiliser bar length 1,000 mm From stile height 42 mm –98 mm × 25 mm. Mounting on tapered ladders possible. NOT a spare part for ladders equipped with horizontal stabiliser bar as standard.

Outside stile dimension mm	Order No.
58 × 25	40251



#### Hook-on tool box

Handy plastic box that hooks onto all ladders with treads and rungs.

Order No.	
40920	



#### **Bucket hook**

Galvanised steel. Suitable for all ladders with square flanging.

Order No.	
40115	







#### **Hook-on platform**

For comfortable and safe standing. Compatible with runged ladders with a rung spacing of 280 mm. Platform size 350 mm × 270 mm.

Order No.	
40900	



#### Ladder holder, lockable

Galvanised steel, incl. dowels and screws. Lock not included. [1 set = 2 pcs.].

Order No.	
A0998	



#### Storage tray for ladders with rungs

Paint, brushes, screwdrivers – everything you need fits into this practical storage tray.

Can be hooked onto the rungs at any height.

Order No.	
40270	

#### Ladder accessories

Order No.
40960



Length 2.60 m. To secure the ladder in use and during transport.



Stile hook for guide rails up to mm	Order No.
Ø 36	40242
Ø 50	40243
Ø 80	40244

Hooks for ladders with standard rungs, treads and wide rungs

Scope of delivery: 1 piece, with assembly material. Holes must be drilled for assembly.



Stile hook for guide rails mm	Order No.
50	821700
100	821701
150	821702
200	821703

Special hook for ladders with rungs, treads and wide rungs

Protefan-coated. Scope of delivery: 1 piece, without assembly material. Holes must be drilled for assembly.



Stile hook for guide rails mm	Order No.
Ø 50	821704
Ø 100	821705
Ø 150	821706
Ø 200	821707

Special hook for ladders with rungs, treads and wide rungs

Protefan-coated. Scope of delivery: 1 piece, without assembly material. Holes must be drilled for assembly.



Page	Order No.
left	40218
right	40219

**Sprung fixed castors** 

For lower end of ladder. Scope of delivery: 1 piece, with assembly material. Holes must be drilled for assembly.



Page	Order No.
left	40220
right	40221

Sprung swivel castors

For lower end of ladder. Scope of delivery: 1 piece, with assembly material. Holes must be drilled for assembly.



Length mm	Order No.
2000	40252

Fastening chain

For stepladders, instead of Perlon belts. Scope of delivery: 1 piece, with assembly material. Holes must be drilled for assembly.



#### Plug-in end caps

Note:

Due to design modifications, it is necessary to take into account not only the ladder type but also the outside dimension of the stiles.



#### Plug-in end caps

For multi-function ladder, 4-part, Order Nos. 40904–40906 and stepladder, Order Nos. 41935–41938.

Outside stile dimension mm	Order No.
60 × 25	800140



#### Plug-in end caps

For aluminium ladders with standard rungs and wide rungs.

Outside stile dimension mm	Order No.
50 × 20	827000
50 × 25	824347
58 × 25	824350
60.5 × 25	829687
62 × 25	824486
68 × 25	824302
73 × 25	824352
85 × 25	824353
98 × 25	824354
114 × 25	824355





#### Plug-in end caps

For folding safety steps, Order Nos. 41673, 41683–41685, 41923–41926 and 41928.

Outside stile dimension mm	Version	Order No.
34 × 20	front	800142
68 × 20	rear	800143



#### Plug-in end caps

For folding safety steps, Order Nos. 41920–41921 and 41927.

Outside stile di- mension mm	Version	Order No.
34 × 20	front	800242
68 × 20	rear	800243



#### Plug-in end caps

For rigid work platform, Order Nos. 42951–42953.

Diameter mm	Order No.
25	800144

Diameter mm	Order No.
30	800358

Plug-in end caps

For aluminium machine step stool, Order Nos. 40031–40035.



Outside stile dimension mm	Page	Order No.
40 × 20	left	800295
40 × 20	right	800296

Plug-in end caps

For AMA aluminium work platform.



Number	Diameter mm	Order No.
1	65	800497
1	71	800298
1	77	800363

Internal end caps

For telescopic single ladder.



#### Push-on end caps

Outside stile dimension mm	Order No.
58 × 25	824409
62 × 25	824425
68 × 25	824396
73 × 25	824427
85 × 25	824428
89 × 25	824399

Push-on end cap

For rung ladders.



	Outside stile dimension mm	Page	Order No.
	66 × 31	left	800131
	66 × 31	right	800132

Push-on end cap

For telescopic multi-function ladder, Order Nos. 41930–41934.



Outside stile dimension mm	Version	Order No.
58 × 25	Z 600/Z 500	824242
73 × 25	Z 600/Z 500	824243

Push-on end cap

For horizontal stabiliser bars.



#### **Push-on end caps**



Push-on end cap For alun

end cap	Outside stile dimension mm	Order No.
minium ladders.	33 × 22	824437
	42 × 25	824424
	48 × 25	824438
	58 × 25	824439



Push-on end cap

For stepladder with treads, Order Nos. 41050-41066.

Outside stile dimension mm	Order No.
75 × 25	800204



Push-on end cap

For plastic stepladders with safety platform, Order Nos. 40431-40435.

Outside stile dimension mm	Order No.
50 × 22	800378



Seventec push-on end cap

For Seventec stepladders.

Outside stile di- mension mm	Page	Order No.
87 × 18	left	800288
87 × 18	right	800289

#### Spare parts, antistatic



Anti-static ladders are fitted with special end caps which are conductive due to the addition of graphite. This prevents electrostatic charges. Virtually all top-selling ladder types made from aluminium can be fitted with antistatic end caps, resistivity 106 ohms, including identification sticker Order No. 28281.



Plug-in end cap, anti-static

Volume resistivity 10<sup>6</sup> ohms, incl. identification sticker Order No. 28281.

Outside stile dimension mm	Order No.
73 × 25	824321
85 × 25	824322
98 × 25	824323
114 × 25	824324



Push-on end cap, anti-static

Volume resistivity 10<sup>6</sup> ohms, incl. identification sticker Order No. 28281.

Outside stile dimension mm	Order No.
58 × 25	824475
62 × 25	824282
68 × 25	824283
73 × 25	824476
85 × 25	824477

#### Spare parts, antistatic

Outside stile dimension mm	Order No.
58 × 25	824502
73 × 25	824478

Push-on end cap for horizontal stabiliser bar, anti-static

Volume resistivity 10<sup>6</sup> ohms, incl. identification sticker Order No. 28281.



Outside stile dimension mm	Order No.
42 × 25	824473
48 × 25	824474

Push-on end cap for aluminium stepladders with treads, antistatic

Volume resistivity 10<sup>6</sup> ohms, incl. identification sticker Order No. 28281.



Outside stile dimension mm	Page	Order No.
40 × 20	left	800344
40 × 20	right	800343

Plug-in end cap for AMA aluminium work platform, anti-static

Volume resistivity 10<sup>6</sup> ohms, incl. identification sticker Order No. 28281.



Diameter mm	Order No.
125	803298

Castor, anti-static

Volume resistivity 10<sup>6</sup> ohms, for access steps with platform.



Diameter mm	Order No.
160	829590

Wheel, non-static

Volume resistivity  $10^6$  ohms, for platform ladders.



#### **End cap**

Outside stile dimension mm	Order No.
33 × 22	824017
48 × 25	824150
50 × 20	800359
50 × 25	824160
58 × 25	824152
60 × 25	800169
62 × 25	824165
68 × 25	824162
73 × 25	824153

**End cap** 

For the top end of aluminium rung ladders.



#### Rung cap



#### Rung cap

For Order Nos. 41930-41934.

Version	Colour	Order No.
with slot	grey	800133
without slot	grey	800134

#### Front edges of treads



#### Front edges of treads

For stepladder with treads, bolted tread.

Outside stile dimension mm	Page	Colour	Order No.
42	left	black	824115
42	right	black	824116
48	left	black	824117
48	right	black	824118
48	left	grey	824121
48	right	grey	824122





#### Front edges of treads

For single ladders with treads, bolted tread.

Outside stile dimension mm	Page	Order No.
48	left	824119
48	right	824120





#### Front edges of treads

For stepladders with treads, riveted tread Z 600/Z 500/Zaletta/Professional.

Outside stile dimension mm	Page	Order No.
42	left	824123
42	right	824124
48	left	824125
48	right	824126

#### **Storage trays**



#### Storage tray

For stepladders with treads and safety platform, riveted tread.

Outside stile dimension mm	Order No.
42 × 25	824131
48 × 25	824133



#### Storage tray

For stepladders with treads and safety bridges, screwed step

Outside stile dimension mm	Order No.
42 × 25	824135
48 × 25	824136



#### Storage tray

Made of aluminium, for stepladders.

Order No.	
829798	

## 07

#### **Storage trays**

Outside stile dimension mm	Order No.
50 × 22	800434

#### Storage tray

For GRP stepladders, Order Nos. 40431–40435.



Order No.	
800300	

#### Storage tray

For safety steps, Order Nos. 41925–41926, 41928 and 41683–41685.



#### **Fittings**

Version	Order No.
without lift-off retainer	826148
with lift-off retainer	826040

#### Rung hook

For push-up and multipurpose ladders.





Order No.	
821382	

#### Locking tab

For rung hook.



Order No.	
809499	

Stop bracket

Transportation lock for stepladders



Order No.	
820816	

**Bracing** 

For stepladders.



Version	Order No.
for aluminium ladder	808776
for GRP ladder	808778

Spring loaded pawl

For rope-operated ladders, 2-part, inside width 370 mm.



Order No.
823914

Spring

For spring loaded pawl.





#### Anti-splay, nylon strap

Due to design modifications, please always specify ladder Order No. and belt-strap length.





#### Wall pad

For single ladders, incl. attachment material.

Order No.	
809101	



#### Wall pad

For single ladders, incl. attachment material.

Order No.
808930



#### Horizontal stabiliser bar

Version Z 600/Z 500. Attachment with M8 screw. Further dimensions on request

Outside stile dimension mm	Length mm	Hole spacing mm	Order No.
58 × 25	745	325	823871
58 × 25	745	395	823872
58 × 25	745	465	823879
73 × 25	1000	465	823475
73 × 25	1185	465	823344
73 × 25	1085	395	823345
73 × 25	890	395	823877



#### Horizontal stabiliser bar

For platform ladders, Order Nos. 40063–40068 and 40073–40078. Hole spacing 625 mm.

Outside stile dimension mm	Length mm	Order No.
73 × 25	1050	807523
73 × 25	1150	807524
73 × 25	1250	807525
73 × 25	1400	807492
73 × 25	1500	807592
73 × 25	1600	807493



#### Hinge

For aluminium stepladders with rungs.

Order No.
809021



#### Hinae

For GRP stepladders with rungs.

Order No.
820418

Version	Order No.
Centre hinge	820684
Outside hinge 105° and 180° latching	820687
Outside hinge 180° latching	820688

#### Automatic steel hinge

For multi-function and multipurpose ladders.



Version	Order No.
Centre hinge	800122
Outside hinge 40906	800245
Outside hinge 40904/40905	800123

#### Automatic steel hinge

For multipurpose ladders, Order Nos. 40904-40906.



For stiles mm	Order No.
73 / 68	829761

#### Cast hinge

For stepladders with flanged treads, double-sided access.



Order No.	
800270	

#### **Brace retainer**

For rigid locking bar. Professional/Zaletta/Z600/Z500.



Order No.
800135

#### Rung lock, cast material

For telescopic multi-function ladder, Order Nos. 41930-41934, incl. rung сар.



Order No.
809808

Rope pulley for rope-operated ladder

For the Zaletta/Z 600/Z 500 range.



Version	Colour	Order No.
Rubber tyre	grey/black	826082

For top wheel assembly of push-up, rope-operated and multi-function ladders.







#### **Castors**

For Professional/Z 600.

Inside width mm	Order No.
300	823336
370	823256



#### **Castor set**

 $\varnothing$  160 mm for platform ladders, Order Nos. 41201–41209.

Order No.	
826782	



#### Brake

For castor for platform ladders, Order Nos. 41201–41209.

Order No.	
826815	



#### Sprung castor for platform ladder

 $\varnothing$  125 mm with screw-on clip, for stile attachment.

Page	Version	Order No.
right	with brake	826844
left	without brake	826845



Sprung castor for platform ladder
Replacement castor with spring.

Order No.
814125



 ${\bf Sprung\ castor\ for\ platform\ ladder}$ 

 $\varnothing$  125 mm, for brace attachment.

Load capacity kg	Version	Order No.
10.0	without brake	803751
15.0	without brake	803750
10.0	with brake	818029
15.0	with brake	818030



Replacement roller

For mobile step stool, Order No. 40918.



#### Order No. Please quote the ladder Order No.

#### Polypropylene rope

For rope-operated ladders.



Number	Order No.
1	829855

#### Label

For ladders and access steps, in accordance with accident prevention regulations. Minimum order quantity 30.



Number	Order No.
1	891209

#### Test sticker

In accordance with accident prevention regulations. Minimum order quantity 30.



Diameter mm	Order No.
25	828384
40	828385

#### Year plates

Minimum order quantity 30.



Number	Order No.
1	800145

#### Ladder inspection form

In accordance with accident prevention regulations.



Number	Order No.
1	800285

#### Fixed ladder inspection form

For fixed ladders in acc. with accidentprevention regulations.



Note:

There is a separate ZARGES spare parts brochure, and information is also available at www.zarges.com/spareparts



## ZARGES mobile scaffold towers – make light work of tough jobs.

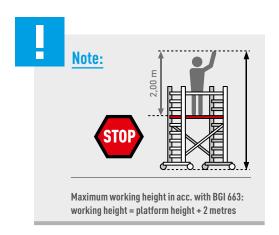
ZARGES mobile scaffold towers are the optimum solution whenever the work in hand takes longer and involves the transportation of a lot of tools and material, but the time and effort required to set up stationary scaffolding is too great. Mobile scaffold towers can be quickly erected, have integrated castors for ease of movement and offer a large, comfortable platform to work from - if required, for two people. Their modular design allows flexible adjustment to the desired working height, with the option to add additional heights if required.

# MOBILE SCAFFOLD TOWERS

#### Mobile scaffold towers are available in different versions:

- With stabilisers: especially practical for use in tight spaces.
- As folding scaffold units: especially practical for compact transportation and quick deployment.
- With chassis beams: especially practical for quick movement and flexible application.

All ZARGES mobile scaffold towers comply with the DIN EN 1004 standards for mobile work platform, scaffolding category 3 (= loads of up to  $200 \text{ kg/m}^2$ ), are TÜV-certified.





### Mobile scaffold towers Z 600 S-PLUS COMPACT:

- Safer
- Faster
- Retrofittable

More from page 246.



Contents Section <u>08</u>	from page
Mobile scaffold towers with stabilisers	<u>230</u>
COMPACT folding scaffold units	<u>242</u>
Mobile scaffold towers with chassis beams	<u>252</u>
Spare parts and accessories	<u>258</u>
Special scaffolding	272

# **ZARGES mobile scaffold towers with stabilisers –** they stand their ground even where space is tight.

Mobile scaffold towers with stabilisers are always your best choice in confined spaces. Stabilisers can be folded in to move the equipment, and this is often necessary at bottlenecks or between machines. While work is in progress, the stabilisers give the scaffold tower the required firm standing, which is particularly high due to the fact that they reach further outwards and support the scaffolding higher up.

Especially when performing work at great heights, this gives you a perceptible increase in safety.

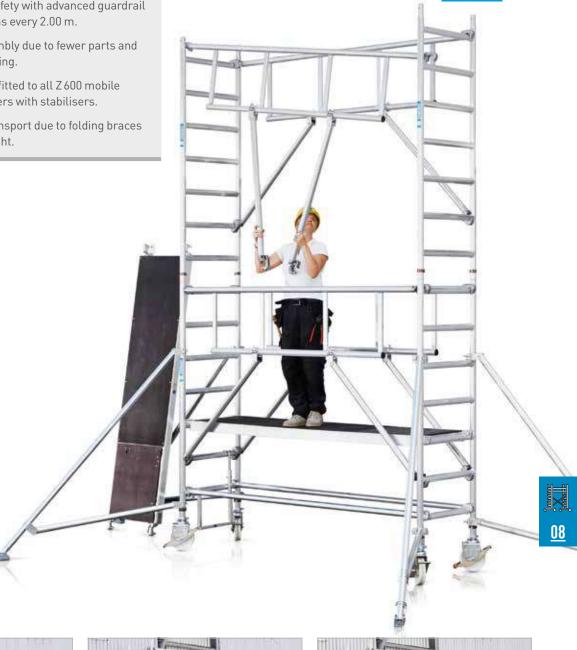






#### Safer, faster, retrofittable – the Z 600 **S-PLUS:**

- Increased safety with advanced guardrail and platforms every 2.00 m.
- Faster assembly due to fewer parts and easier handling.
- Can be retrofitted to all Z 600 mobile scaffold towers with stabilisers.
- Easier to transport due to folding braces and low weight.









2. Attach guardrail to rungs



3. Hook in platform from a secured position

#### S-PLUS mobile scaffold tower with stabilisers, single platform width

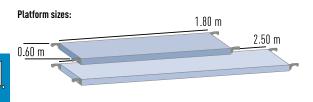


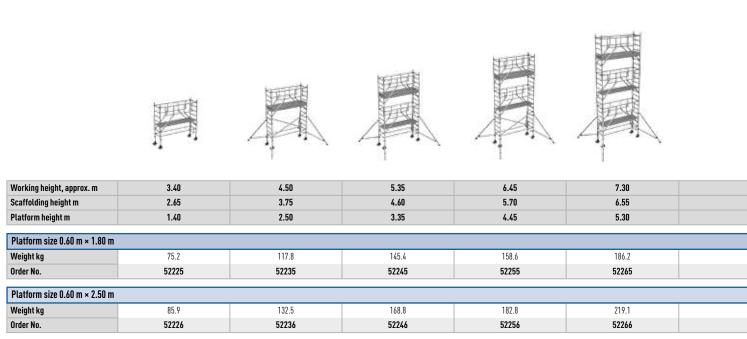
The mobile scaffolding solution for quick and safe erection due to advanced guardrails, two-metre platform spacing and fewer individual parts.

- Scaffolding width: 0.75 m; scaffolding length: 1.80 m × 2.50 m.
- Safe and quick assembly and dismantling due to advanced guardrail (instead of guardrails and diagonal braces) and platforms at intervals of 2 m.
- Working heights from 3.35 m to a maximum of 13.20 m can be achieved with standard parts from the Z 600 range.
- Scaffolding category 3 (can be loaded up to 200 kg/m²) according to DIN EN 1004, i.e. depending on platform length from 202 kg to max. 346 kg.
- Standard castors: height-adjustable 200-mm swivel castors (Order No. 42917) for millimetre-perfect level adjustment.

#### Note

Standard Z 600 mobile scaffold towers with stabilisers can also be retrofitted for stable set-up by adding the relevant S-PLUS single parts.





Jaman			
	0	8	

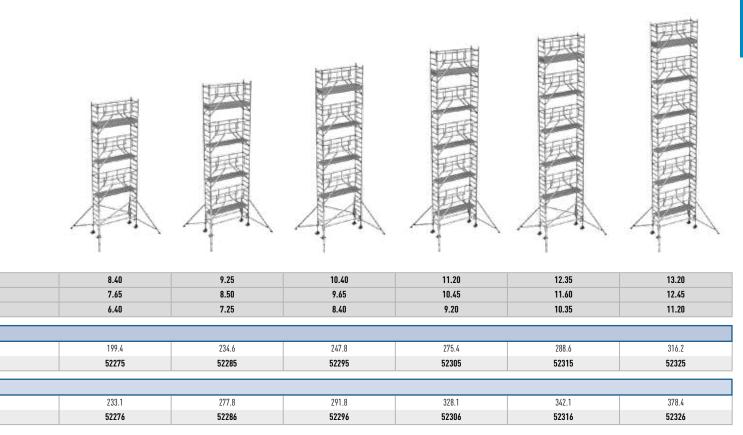
Platform size						0.60	m × <b>1</b> .	.80 m						0.60 m × <b>2.50 m</b>											
Working height <sup>1)</sup>	approx. m	3.40	4.50	5.35	6.45	7.30	8.40	9.25	10.40	11.20	12.35	13.20	approx. m	3.40	4.50	5.35	6.45	7.30	8.40	9.25	10.40	11.20	12.35	13.20	
Parts list	Order No.	52225	52235	52245	52255	52265	52275	52285	52295	52305	52315	52325	Order No.	52226	52236	52246	52256	52266	52276	52286	52296	52306	52316	52326	
Push-on end frame, 1.00 m	42905	-	2	-	2	-	2	-	2	-	2	-	42905	-	2	-	2	-	2	-	2	-	2	-	
Push-on end frame, 2.00 m	42904	2	2	4	4	6	6	8	8	10	10	12	42904	2	2	4	4	6	6	8	8	10	10	12	
Advanced guardrail	42837	2	2	4	4	6	6	8	8	10	10	12	42838	2	2	4	4	6	6	8	8	10	10	12	
Trapdoor platform	42931	1	1	2	2	3	3	4	4	5	5	6	42910	1	1	2	2	3	3	4	4	5	5	6	
End toeboard	42913	-	2	2	2	2	2	2	2	2	2	2	42913	-	2	2	2	2	2	2	2	2	2	2	
Side toeboard	42943	-	2	2	2	2	2	2	2	2	2	2	42914	-	2	2	2	2	2	2	2	2	2	2	
Diagonal brace	42937	-	2	-	2	-	2	-	2	-	2	-	42908	-	2	-	2	-	2	-	2	-	2	-	
Horizontal brace	42935	2	2	2	2	2	2	-	-	-	-	-	42907	2	2	2	2	2	2	-	-	-	-	-	
Basic brace	42886	-	-	-	-	-	-	2	2	2	2	2	42887	-	-	-	-	-	-	2	2	2	2	2	
Triangular stabiliser	42850	-	4	4	4	4	4	4	4	4	4	4	42850	-	4	4	4	4	4	4	4	4	4	4	
Swivel castors, ∅ 200 mm	42917	4	4	4	4	4	4	4	4	4	4	4	42917	4	4	4	4	4	4	4	4	4	4	4	
Stirrup step	42940	1	1	1	1	1	1	1	1	1	1	1	42940	1	1	1	1	1	1	1	1	1	1	1	
Ballast weights									Per	swive	l cast	or; fa	stening of	stabi	lisers	3									
Indoor use	42912	0	0	0	0	0	0	0	0	0	0	0	42912	0	0	0	0	0	0	0	0	0	0	0	
Outdoor use	42912	0	0	0	0	0	2	Х	Х	Х	Х	Х	42912	0	0	0	0	1	3	Х	Х	Х	Х	Х	

x: not permissible!

"I With swivel castors (Order No. 42917) fully height-adjusted. Adjustable range: 30 cm.

Mobile scaffold towers with a working height of 3.40 m are not equipped with stabilisers. Please use appropriate ballast.

Observe ballasting regulations in the assembly and usage instructions!



#### S-PLUS mobile scaffold tower with stabilisers, double platform width

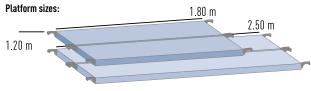


Maximum working area, safe and quick erection through advanced guardrail, low platform spacing and fewer single parts.

- Scaffolding width: 1.35 m; scaffolding length: 1.80 m × 2.50 m.
- Safe and quick assembly and dismantling due to advanced guardrail (instead of guardrails and diagonal braces) and platforms at intervals of 2 m.
- Working heights from 3.35 m to a maximum of 13.20 m can be achieved with standard parts from the Z 600 range.
- Scaffolding category 3 (can be loaded up to 200 kg/m²) according to DIN EN 1004, i.e. depending on platform length from 404 kg to max. 692 kg.
- Standard castors: height-adjustable 200-mm swivel castors (Order No. 42917) for millimetre-perfect level adjustment.

#### Note

Standard Z 600 mobile scaffold towers with stabilisers can also be retrofitted for stable set-up by adding the relevant S-PLUS single parts.







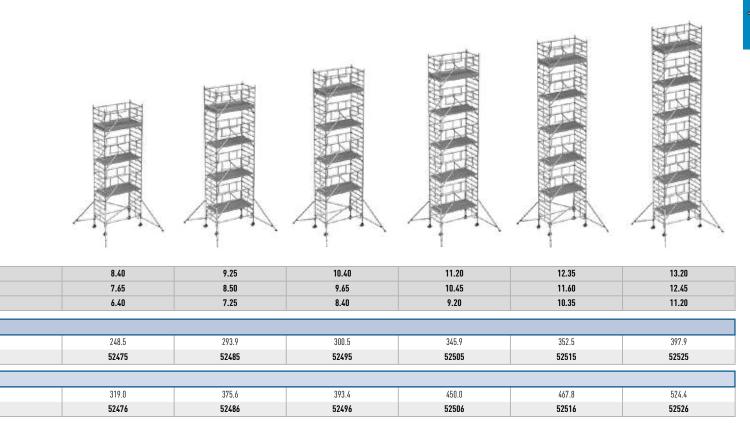
Platform size					1.	20 m >	< 1.80	m						1.20 m × <b>2.50 m</b>										
Working height <sup>1)</sup>	approx. m	3.40	4.50	5.35	6.45	7.30	8.40	9.25	10.40	11.20	12.35	13.20	approx. m	3.40	4.50	5.35	6.45	7.30	8.40	9.25	10.40	11.20	12.35	13.20
Parts list	Order No.	52425	52435	52445	52455	52465	52475	52485	52495	52505	52515	52525	Order No.	52426	52436	52446	52456	52466	52476	52486	52496	52506	52516	52526
Push-on end frame, 1.00 m	42902	-	2	-	2	-	2	-	2	-	2	-	42902	-	2	-	2	-	2	-	2	-	2	-
Push-on end frame, 2.00 m	42901	2	2	4	4	6	6	8	8	10	10	12	42901	2	2	4	4	6	6	8	8	10	10	12
Advanced guardrail	42837	2	2	4	4	6	6	8	8	10	10	12	42838	2	2	4	4	6	6	8	8	10	10	12
Trapdoor platform	42931	1	1	2	2	3	3	4	4	5	5	6	42910	1	1	2	2	3	3	4	4	5	5	6
Platform without trapdoor	42932	1	1	2	2	3	3	4	4	5	5	6	42930	1	1	2	2	3	3	4	4	5	5	6
End toeboard	42911	-	2	2	2	2	2	2	2	2	2	2	42911	-	2	2	2	2	2	2	2	2	2	2
Side toeboard	42943	-	2	2	2	2	2	2	2	2	2	2	42914	-	2	2	2	2	2	2	2	2	2	2
Diagonal brace	42937	-	2	-	2	-	2	-	2	-	2	-	42908	-	2	-	2	-	2	-	2	-	2	-
Horizontal brace	42935	2	2	2	2	2	-	-	-	-	-	-	42907	2	2	2	2	2	-	-	-	-	-	-
Basic brace	42886	-	-	-	-	-	2	2	2	2	2	2	42887	-	-	-	-	-	2	2	2	2	2	2
Triangular stabiliser	42850	-	-	4	4	4	4	4	4	4	4	4	42850	-	-	4	4	4	4	4	4	4	4	4
Swivel castors, ∅ 200 mm	42917	4	4	4	4	4	4	4	4	4	4	4	42917	4	4	4	4	4	4	4	4	4	4	4
Stirrup step	42940	1	1	1	1	1	1	1	1	1	1	1	42940	1	1	1	1	1	1	1	1	1	1	1
Ballast weights	Per swivel castor; fastening of stabilisers																							
Indoor use	42912	0	0	0	0	0	0	0	0	0	0	0	42912	0	0	0	0	0	0	0	0	0	0	0
Outdoor use	42912	0	0	0	0	0	2	3	0	χ	χ	Х	42712	0	0	0	0	0	0	χ	Х	Х	Х	Х

x: not permissible!

<sup>1)</sup> With swivel castors (Order No. 42917) fully height-adjusted. Adjustable range: 30 cm.

Mobile scaffold towers with working heights of 3.40 m and 4.50 m are not equipped with stabilisers. Please use appropriate ballast.

Observe ballasting regulations in the assembly and usage instructions!

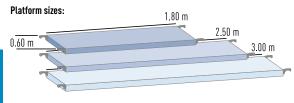


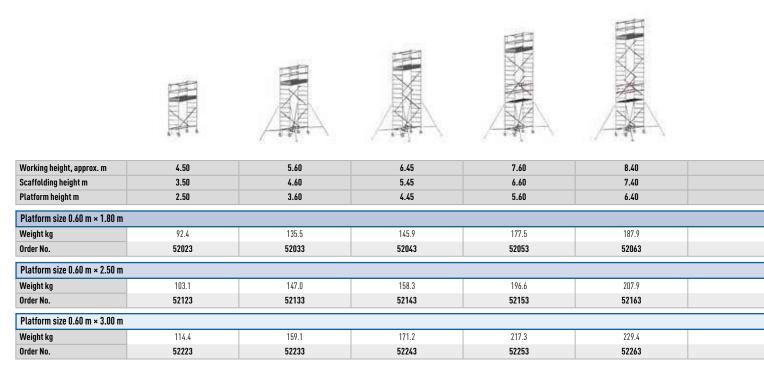
#### Z 600 Mobile scaffold tower with stabilisers, single platform width



High degree of stability at great heights with space-saving stabilisers which can be folded in for transport.

- Scaffolding width: 0.75 m; scaffolding length: 1.80 m; 2.50 m;
- Working heights can be extended from 4.50 m to max. 13.45 m with standard parts.
- Scaffolding category 3 (can be loaded up to 200 kg/m²) according to DIN EN 1004, i.e. depending on platform size from 202 kg to max. 346 kg.
- Standard castors: height-adjustable 200-mm swivel castors (Order No. 42917) for millimetre-perfect level adjustment.
- Can be replaced as required with smaller, more inexpensive castors up to a specific scaffolding height.





Platform size					0.6	0 m >	< 1.80	) m								0.6	0 m	× 2.51	) m								0.0	60 m :	< 3.0	0 m			
Working height <sup>1)</sup>	approx. m	4.50	9.60	6.45	7.60	8.40	9.55	10.40	11.50	12.35	13.45	approx. m	4.50	2.60	6.45	7.60	8.40	9.55	10.40	11.50	12.35	13.45	approx. m	4.50	9.60	6.45	7.60	8.40	9.55	10.40	11.50	12.35	13.45
Parts list	Order No.	52023	52033	52043	52053	52063	52073	52083	52093	52003	52013	Order No.	52123	52133	52143	52153	52163	52173	52183	52193	52103	52113	Order No.	52223	52233	52243	52253	52263	52273	52283	52293	52203	52213
Push-on end frame, 1.00 m	42905	-	2	-	2	-	2	-	2	-	2	42905	-	2	-	2	-	2	-	2	-	2	42905	-	2	-	2	-	2	-	2	-	2
Push-on end frame, 2.00 m	42904	2	2	4	4	6	6	8	8	10	10	42904	2	2	4	4	6	6	8	8	10	10	42904	2	2	4	4	6	6	8	8	10	10
Guard-rail frame, 1.00 m	42906	2	2	2	2	2	2	2	2	2	2	42906	2	2	2	2	2	2	2	2	2	2	42906	2	2	2	2	2	2	2	2	2	2
Guardrails	42955	2	2	2	4	4	4	4	6	6	6	42956	2	2	2	4	4	4	4	6	6	6	42957	2	2	2	4	4	4	4	6	6	6
Trapdoor platform	42931	1	1	1	2	2	2	2	3	3	3	42910	1	1	1	2	2	2	2	3	3	3	42933	1	1	1	2	2	2	2	3	3	3
End toeboard	42913	2	2	2	2	2	2	2	2	2	2	42913	2	2	2	2	2	2	2	2	2	2	42913	2	2	2	2	2	2	2	2	2	2
Side toeboard	42943	2	2	2	2	2	2	2	2	2	2	42914	2	2	2	2	2	2	2	2	2	2	42944	2	2	2	2	2	2	2	2	2	2
Diagonal brace	42937	2	4	6	6	8	10	10	12	12	14	42908	2	4	6	6	8	10	10	12	12	14	42938	2	4	6	6	8	10	10	12	12	14
Horizontal brace	42935	2	2	2	2	2	-	-	-	-	-	42907	2	2	2	2	2	-	-	-	-	-	42936	2	2	2	2	2	-	-	-	-	-
Basic brace	42886	-	-	-	-	-	2	2	2	2	2	42887	-	-	-	-	-	2	2	2	2	2	42888	-	-	-	-	-	2	2	2	2	2
Triangular stabiliser	42926	-	4	4	4	4	4	4	4	4	4	42926	-	4	4	4	4	4	4	4	4	4	42926	-	4	4	4	4	4	4	4	4	4
Swivel castors, $\varnothing$ 200 mm	42917	4	4	4	4	4	4	4	4	4	4	42917	4	4	4	4	4	4	4	4	4	4	42917	4	4	4	4	4	4	4	4	4	4
Stirrup step	42940	1	1	1	1	1	1	1	1	1	1	42940	1	1	1	1	1	1	1	1	1	1	42940	1	1	1	1	1	1	1	1	1	1
Ballast weights		Per swivel castor; fastening of stabilisers																															
Indoor use	/2012	5	0	0	0	0	1	1	3	6	9	/2012	6	0	0	0	0	0	1	2	5	8	/2012	5	0	0	0	0	0	0	1	4	6
Outdoor use	42912	5	0	0	0	2	7	Х	Х	Х	Х	42912	6	0	0	1	5	Х	Х	Х	Х	Х	42912	7	0	0	1	8	Х	Х	Х	χ	Х
v. not pormiscible!																																	

x: not permissible!

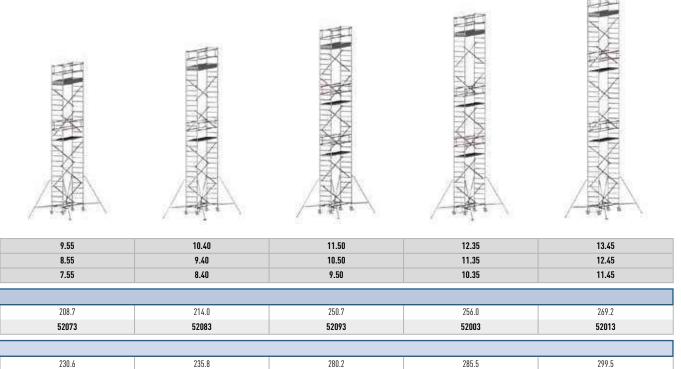
"I With swivel castors (Order No. 42917) fully height-adjusted. Adjustable range: 30 cm.

Mobile scaffold towers with a working height of 4.50 m are not equipped with stabilisers. Please use appropriate ballast.

Observe ballasting regulations in the assembly and usage instructions!

253.5

258.7



311.7

316.9



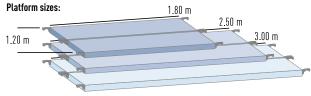
331.8

#### Z 600 Mobile scaffold tower with stabilisers, double platform width

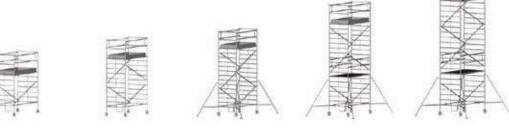


Maximum working area allows you to work safely, while stabilisers ensure high stability and can be folded in for transport.

- Scaffolding width: 1.35 m; scaffolding length: 1.80 m; 2.50 m;  $3.00 \, \text{m}$
- Working heights can be extended from 4.50 m to max. 13.45 m with standard parts.
- Scaffolding category 3 (can be loaded up to 200 kg/m²) according to DIN EN 1004, i.e. depending on platform length from 404 kg to max. 692 kg.
- Standard castors: height-adjustable 200-mm swivel castors (Order No. 42917) for millimetre-perfect level adjustment.
- Can be replaced as required with smaller, more inexpensive castors up to a specific scaffolding height.







Working height, approx. m	4.50	5.60	6.45	7.60	8.40	
Scaffolding height m	3.50	4.60	5.45	6.60	7.40	
Platform height m	2.50	3.60	4.45	5.60	6.40	
Platform size 1.20 m × 1.80 m						
Weight kg	152.0	169.0	212.2	260.1	273.5	
Order No.	52323	52333	52343	52353	52363	
Platform size 1.20 m × 2.50 m						
						ı
Weight kg	167.6	185.5	229.6	289.1	303.3	
Order No.	52423	52433	52443	52453	52463	
Platform size 1.20 m × 3.00 m						
Weight kg	182.6	201.2	246.1	317.0	332.1	
Order No.	52523	52533	52543	52553	52563	

m

Order

52403 52413

10 12 12 14

4 4 4 4

4 4 4 4 4

1.20 m × **2.50 m** 

8.40

1 1 1 1 1 1 1 1 1 1

0 0 0 2 x

Per swivel castor; fastening of stabilisers 2 3 0 0 0 0 0 0 0 0

5.60 6.45

4 4 

1.20 m × **3.00 m** 

9.55

Outdoor use
x: not permissible

Platform size

Parts list

Guardrails

End toeboard

Side toeboard

Diagonal brace

Basic brace

Stirrup step

Indoor use

Ballast weights

Horizontal brace

Triangular stabiliser

Swivel castors,  $\varnothing$  200 mm

Trapdoor platform

Working height<sup>1)</sup>

Push-on end frame, 1.00 m

Push-on end frame, 2.00 m

Platform without trapdoor

Guard-rail frame, 1.00 m

approx.

Order

No.

Mobile scaffold towers with a working height of 4.50 m and 5.60 m are not equipped with stabilisers. Please use appropriate ballast.

337.9

368 1

1.20 m × **1.80 m** 

2 3 0 0 0 0 0 0 1 1

3 x

1 1

1 2

6.45 7.60 8.40 9.55

12.35

4 4 4

4 4 4 4

10 10 12

m

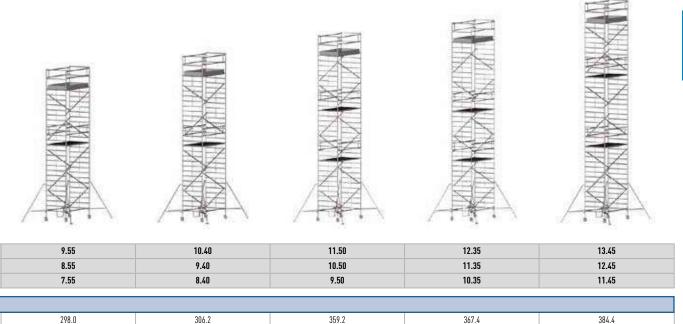
Order

No.

Observe ballasting regulations in the assembly and usage instructions!

329.7

359.9



403.5

445 8

411.7

454 N



429.5

477 7

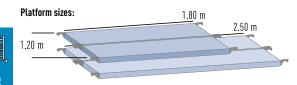
<sup>&</sup>lt;sup>11</sup> With swivel castors (Order No. 42917) fully height-adjusted. Adjustable range: 30 cm.

#### **Z 600** Mobile scaffold tower with stabilisers and stairway



Spacious steps for comfortable ascent and descent, safe standing even when working at great heights.

- Scaffolding width: 1.35 m; scaffolding length: 1.80 m × 2.50 m.
- Working heights can be extended from 4.50 m to max. 12.35 m with standard parts.
- Comfortable entry into the scaffolding from outside through the wide entry frame.
- Stairways (steps) with non-slip step areas, depth 100 mm, and entry platform.
- Scaffolding category 3 (can be loaded up to 200 kg/m²) according to DIN EN 1004, i.e. depending on platform size from 404 kg to max. 572 kg.
- Standard castors: height-adjustable 200-mm swivel castors (Order No. 42917) for millimetre-perfect level adjustment.
- Can be replaced as required with smaller, more inexpensive castors up to a specific scaffolding height.







Working height, approx. m	4.50	6.45							
Scaffolding height m	3.50	5.45							
Platform height m	2.50	4.45							
Platform size 1.20 m × 1.80 m									
Weight kg	123.7	206.2							
Order No.         53023         53043									
Platform size 1.20 m × 2.50 m									

Platform size 1.20 m × 2.50 m											
Weight kg	143.4	236.9									
Order No.	53024	53044									

Platform size			1	1.20 m × <b>1.80</b> r	n				1	1.20 m × <b>2.50</b> ı	n	
Working height <sup>1)</sup>	approx. m	4.50	6.45	8.40	10.40	12.35	approx. m	4.50	6.45	8.40	10.40	12.35
Parts list	Order No.	53023	53043	53063	53083	53003	Order No.	53024	53044	53064	53084	53004
Entry frame	42928	1	1	1	1	1	42928	1	1	1	1	1
Push-on end frame, 2.00 m	42901	1	3	5	7	9	42901	1	3	5	7	9
Guard-rail frame, 1.00 m	42903	2	2	2	2	2	42903	2	2	2	2	2
Guardrails	42955	2	3	4	5	6	42956	2	3	4	5	6
Trapdoor platform	42970	1	1	1	1	1	42860	1	1	1	1	1
Platform without trapdoor	42932	1	2	3	4	5	42930	1	2	3	4	5
End toeboard	42911	2	2	2	2	2	42911	2	2	2	2	2
Side toeboard	42943	2	2	2	2	2	42914	2	2	2	2	2
Stairway	42961	1	2	3	4	5	42861	1	2	3	4	5
Handrail	42929	-	1	2	3	4	42862	-	1	2	3	4
Handrail, top	42939	1	1	1	1	1	42863	1	1	1	1	1
Diagonal brace	42937	1	2	3	4	5	42908	1	2	3	4	5
Horizontal brace	42935	2	2	2	2	2	42907	2	2	2	2	2
Triangular stabiliser	42926	-	4	4	4	4	42926	-	4	4	4	4
Swivel castors, Ø 200 mm	42917	4	4	4	4	4	42917	4	4	4	4	4
Stirrup step	42940	1	1	1	1	1	42940	1	1	1	1	1
Ballast weights		Per swivel castor; fastening of stabilisers										
Indoor use	42912	2	0	0	0	1	42912	2	0	0	0	0
Outdoor use	42712	2	0	2	Х	Х	44714	2	0	0	Х	X

300.4

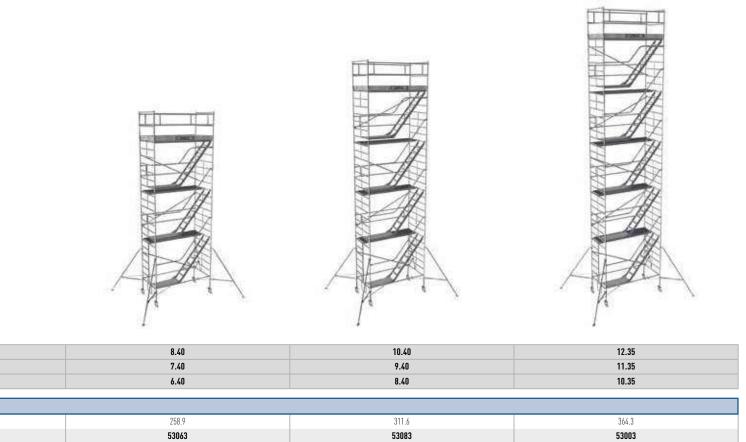
53064

x: not permissible!

11 With swivel castors [Order No. 42917] fully height-adjusted. Adjustable range: 30 cm.

Mobile scaffold towers with a working height of 4.50 m are not equipped with stabilisers. Please use appropriate ballast.

Observe ballasting regulations in the assembly and usage instructions!



363.9

53084

427.4

53004

The ideal solution for quick applications: folding scaffold units. Folded, they are small enough to fit into the boot of almost any car. On-site, simply unfold them, and the basic scaffolding is ready for use in just a few seconds. All you need to do is hook in the work platform. Our folding scaffold units offer safe standing and can be expanded with the help of additional modules to allow working heights of up to 13.65 m. Unbeatably practical, especially where short set-up times are of the essence.

The folding scaffold unit are now also available in the S-PLUS configurations for secure erection and dismantling with advanced guardrail and platforms every 2 m.











Hook the advanced guard rail from the lower platform



2. Hook on the platform



3. Toeboard bridging

#### Z 600

#### COMPACT folding scaffold unit, single and double platform



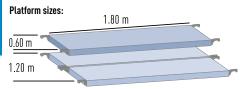
The scaffolding top-seller: compact transport dimensions, rapid erection and dismantling, modular expandable design – ideal for quick application.

- Scaffolding width: 0.85 m or 1.45 m (to outside edge of folding unit hinge); scaffolding length: 1.80 m.
- Can be expanded up to a working height of 13.65 m, and the basic module therefore already includes a platform with trapdoor.
- Practical compact scaffolding unit, easy to handle, for working indoors and outdoors at low heights.
- Collapsible for rapid erection and dismantling.
- Minimum space requirement during transportation and storage (dimensions when folded only 0.25 m × 0.75 m × 1.50 m).
- Scaffolding category 3 (can be loaded up to 200 kg/m²) according to DIN EN 1004, i.e. here with 202 kg.
- Other sizes on p. 246 ff.

Platform size		0.60 m >	< 1.80 m		1.20 m >	1.80 m
Working height	approx. m	2.95	3.50	approx. m	2.95	3.50
Parts list	Order No.	53300	53600	Order No.	53400	53700
Folding frame unit	42947	1	1	42948	1	1
Trapdoor platform	42931	1	1	42931	1	1
Platform without trapdoor	42932	-	-	42932	1	1
Horizontal brace	42935	-	3	42935	-	3
Guard-rail frame, 1.00 m	42906	-	2	42903	-	2
Swivel Store, $\varnothing$ 125 mm with brake	42959	4	4	42959	4	4
Ballast weights			per swiv	el castor		
Indoor use	/2010	0	1	/2012	0	0
Outdoor use	42912	0	1	42912	0	0

Observe ballasting regulations in the assembly and usage instructions!









Working height, approx. m	2.95	3.50
Scaffolding height m	1.65	2.55
Platform height m	0.95	1.50

Platform size 0.60 m × 1.80 m										
Weight kg	35.8	48.2								
Order No.	53300	53600								





Working height, approx. m	2.95	3.50
Scaffolding height m	1.65	2.55
Platform height m	0.95	1.50

Platform size 1.20 m × 1.80 m									
Weight kg	52.8	67.2							
Order No.	53400	53700							

#### **Expansion unit**

Fits	Weight approx. kg	Order No.
Order No. 53300	12.3	53601
Order No. 53400	14.4	53701

#### Z 500

#### **COMPACT folding scaffold unit, single platform**

The economical version for safety when working and rapid erection and dismantling.

- Scaffolding width: 0.68 m; scaffolding length: 1.80 m.
- Size 1 optionally without (Order No. 53760) or with (Order No. 53761) trapdoor in the platform.
- Basic module for folding for rapid erection and dismantling.
- Minimum space requirement during transportation and storage (dimensions when folded only  $1.75 \text{ m} \times 0.95 \text{ m} \times 0.20 \text{ m}$ ).
- Scaffolding category 3 (can be loaded up to 200 kg/m²) in accordance with DIN EN 1004, i.e. here 202 kg.
- Standard castors: 125 mm with pin (non height-adjustable) with rubber coating.
- Other sizes on p. 250 ff.



Platform size			0.60 m × <b>1.80 m</b>	
Working height <sup>1)</sup>	approx. m	2.90	2.90	3.70
Parts list	Order No.	53760 (w/o trapdoor)	53761 (w. trapdoor)	53762
Folding frame unit	42734	1	1	1
Guard-rail frame, 1.00 m	42740	-	-	2
Trapdoor platform	42725	-	1	1
Platform without trapdoor	42720	1	-	-
Horizontal brace	42742	-	-	3
Swivel castor, ∅125 mm, with pin	42743	4	4	4
Ballast weights			vivel castor; ting on the stile	
Indoor use	42912	0	0	1
Outdoor use	42912	0	0	1

For 53760: Platform has no trapdoor and therefore cannot be extended.

For 53761: Platform is equipped with an access hatch and can therefore be extended. For 53762: Ballasting is not required if 4 stabilisers (Order No. 42756) are used. Observe ballasting regulations in the assembly and usage instructions!



#### Platform sizes: 1.80 m 0.60 m







v	vith	lou'	t tı	an	da	or

with	tra	ndon	r

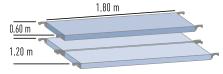
Working height, approx. m	2.90	2.90	3.70
Scaffolding height m	1.90	1.90	2.75
Platform height m	0.90	0.90	1.70

Platform size 0.60 m × 1.80 m			
Weight kg	33.3	33.8	45.3
Order No.	53760	53761	53762

#### Z 600 S-PLUS COMPACT folding scaffold unit, single and double platform



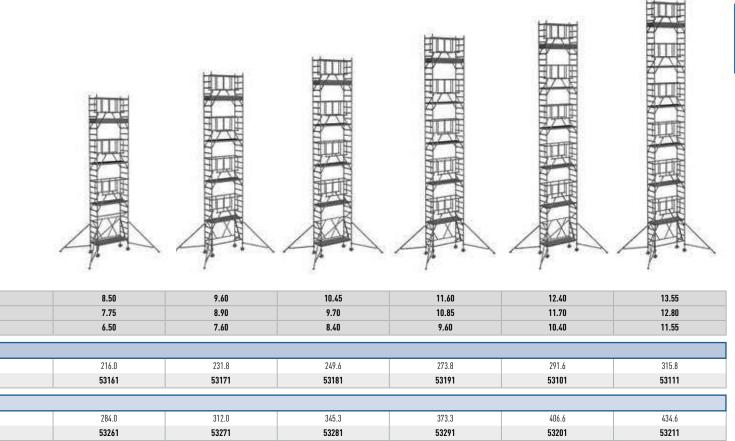






Working height, approx. m	3.75	4.60	5.70	6.55	7.65	
Scaffolding height m	3.00	3.85	4.95	5.80	6.90	
Platform height m	1.75	2.60	3.70	4.55	5.65	
Platform size 0.60 m × 1.80 m						
Weight kg	76.4	123.6	147.8	165.6	189.8	
Order No.	53099	53121	53131	53141	53151	
Platform size 1.20 m × 1.80 m						
Weight kg	97.3	161.4	189.4	225.0	250.7	
Order No.	53199	53221	53231	53241	53251	
				Rallast weint	nts not included in the scope of delivery	

Platform size		0.60 m × <b>1.80 m</b>																						
Working height <sup>1)</sup>	approx. m	3.75	7.60	5.70	6.55	7.65	8.50	9.60	10.45	11.60	12.40	13.55	approx. m	3.75	09"7	5.70	6.55	7.65	8.50	09.6	10.45	11.60	12.40	13.55
Parts list	Order No.	53099	53121	53131	53141	53151	53161	53171	53181	53191	53101	53111	Order No.	53199	53221	53231	53241	53251	53261	53271	53281	53291	53201	53211
Folding frame unit	42947	1	1	1	1	1	1	1	1	1	1	1	42948	1	1	1	1	1	1	1	1	1	1	1
Push-on end frame, 1.00 m	42905	2	-	2	-	2	-	2	-	2	-	2	42902	2	-	2	-	2	-	2	-	2	-	2
Push-on end frame, 2.00 m	42904	-	2	2	4	4	6	6	8	8	10	10	42901	-	2	2	4	4	6	6	8	8	10	10
Advanced guardrail	42837	2	2	4	4	6	6	8	8	10	10	12	42837	2	2	4	4	6	6	8	8	10	10	12
Trapdoor platform	42931	1	1	2	2	3	3	4	4	5	5	6	42931	1	1	2	2	3	3	4	4	5	5	6
Platform without trapdoor	42932	-	1	-	1	-	1	-	1	-	1	-	42932	1	3	2	4	3	5	4	6	5	7	6
End toeboard	42913	-	2	2	2	2	2	2	2	2	2	2	42911	-	2	2	2	2	2	2	2	2	2	2
Side toeboard	42943	-	2	2	2	2	2	2	2	2	2	2	42943	-	2	2	2	2	2	2	2	2	2	2
Diagonal brace	42937	-	1	-	1	-	1	-	1	-	1	-	42937	-	1	-	1	-	1	-	1	-	1	-
Horizontal brace	42935	1	-	1	-	1	1	1	-	1	-	1	42935	1	-	1	1	1	-	1	-	1	-	1
Basic brace	42886	-	-	-	-	-	1	-	-	-	-	-	42886	-	-	-	-	-	-	-	-	-	-	-
Triangular stabiliser	42850	-	4	4	4	4	4	4	4	4	4	4	42850	-	4	4	4	4	4	4	4	4	4	4
Swivel castor, ∅ 150 mm with height adjuster	42759	4	4	4	4	4	4	4	4	4	4	4	42759	4	4	4	4	4	4	4	4	4	4	4
Stirrup step	42940	1	-	1	-	1	-	1	-	1	-	1	42940	1	-	1	-	1	-	1	-	1	-	1
Ballast weights		per swivel castor; attachment to stabiliser																						
Indoor use	42912	0	0	0	0	0	0	0	0	0	0	0	42912	0	0	0	0	0	0	0	0	0	0	0
Outdoor use	42912	4	0	0	1	3	8	Х	Х	Х	Х	Х	42712	1	0	0	0	0	Х	χ	Х	Х	Х	Х
x: not permissible!																								



x: not permissible!

1) With swivel castors (Order No. 42759) fully height-adjusted. Adjustable range: 15 cm.

Observe ballasting regulations in the assembly and usage instructions!

#### Z 600 COMPACT folding scaffold unit, single and double platform width

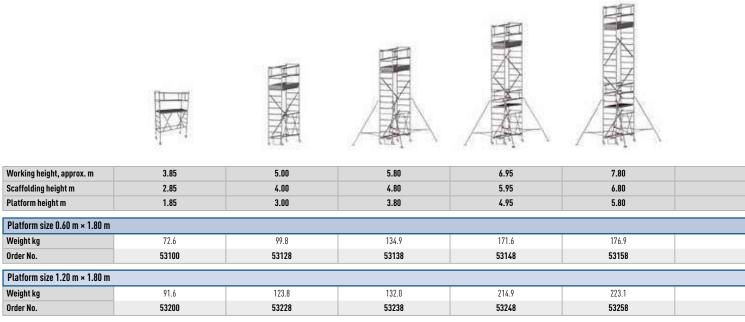


Reach greater heights quickly and safely: extendable folding scaffold unit which folds to compact size for transport and is quickly erected and dismantled.

- Scaffolding width: 0.75 m or 1.35 m; scaffolding length: 1.80 m.
- Working heights can be extended from 3.85 m to max. 13.65 m with standard parts.
- Basic module for folding for rapid erection and dismantling.
- Minimum space requirement during transportation and storage (dimensions when folded only  $0.25 \text{ m} \times 0.75 \text{ m}$ ).
- Scaffolding category 3 (can be loaded up to 200 kg/m²) according to DIN EN 1004, i.e. at width 0.75 m = 202 kg and at width 1.35 m = 404 kg.
- Standard castors: height-adjustable 125 mm swivel castors (Order No. 42973) for millimetre-perfect level adjustment; can be replaced with height-adjustable 200 mm castors (42917) for an additional charge.



0.60 m 1.20 m



Platform size		0.60 m × <b>1.80 m</b>																						
Working height <sup>1)</sup>	approx. m	3.85	5.00	5.80	6.95	7.80	8.90	9.75	10.85	11.70	12.80	13.65	approx. m	3.85	5.00	5.80	6.95	7.80	8.90	9.75	10.85	11.70	12.80	13.65
Parts list	Order No.	53100	53128	53138	53148	53158	53168	53178	53188	53198	53108	53118	Order No.	53200	53228	53238	53248	53258	53268	53278	53288	53298	53208	53218
Folding frame unit	42947	1	1	1	1	1	1	1	1	1	1	1	42948	1	1	1	1	1	1	1	1	1	1	1
Push-on end frame, 1.00 m	42905	-	2	-	2	-	2	-	2	-	2	-	42902	-	2	-	2	-	2	-	2	-	2	-
Push-on end frame, 2.00 m	42904	-	-	2	2	4	4	6	6	8	8	10	42901	-	-	2	2	4	4	6	6	8	8	10
Guard-rail frame, 1.00 m	42906	2	2	2	2	2	2	2	2	2	2	2	42903	2	2	2	2	2	2	2	2	2	2	2
Guardrails	42955	2	2	2	4	4	4	4	6	6	6	6	42955	2	2	2	4	4	4	4	6	6	6	6
Trapdoor platform	42931	1	1	1	2	2	2	2	3	3	3	3	42931	1	1	1	2	2	2	2	3	3	3	3
Platform without trapdoor	42932	-	-	-	-	-	-	-	-	-	-	-	42932	1	1	1	2	2	2	2	3	3	3	3
End toeboard	42913	-	2	2	2	2	2	2	2	2	2	2	42911	-	2	2	2	2	2	2	2	2	2	2
Side toeboard	42943	-	2	2	2	2	2	2	2	2	2	2	42943	-	2	2	2	2	2	2	2	2	2	2
Diagonal brace	42937	-	3	3	5	5	7	9	9	11	11	13	42937	-	3	3	5	5	7	9	9	11	11	13
Horizontal brace	42935	1	1	1	1	1	1	-	-	-	-	-	42935	1	1	1	1	1	1	-	-	-	-	-
Basic brace	42886	-	-	-	-	-	-	1	1	1	1	1	42886	-	-	-	-	-	-	1	1	1	1	1
Triangular stabiliser	42926	-	-	4	4	4	4	4	4	4	4	4	42926	-	-	-	4	4	4	4	4	4	4	4
Swivel castors,∅ 125 mm	42973	4	4	4	4	4	4	4	4	4	4	4	42973	4	4	4	4	4	4	4	4	4	4	4
Stirrup step	42940	-	1	1	1	1	1	1	1	1	1	1	42940	-	1	1	1	1	1	1	1	1	1	1
Ballast weights	per swivel castor; attachment to stabiliser																							
Indoor use	/2012	6	6	0	0	0	0	1	3	3	6	9	/2012	0	2	3	0	0	0	0	0	0	1	1
Outdoor use	42912	6	6	0	0	0	2	7	Х	Х	Х	Х	42912	0	2	4	0	1	2	3	Х	Х	Х	Х

x: not permissible!

"I With swivel castors (Order No. 42973) fully height-adjusted. Adjustable range: 30 cm.

Folding scaffold units up to a working height of 5.80 m may be without stabilisers as standard. See parts list. Please use appropriate ballast. For Order Nos. 53100 and 53128: Ballasting is not required if 4 stabilisers (Order No. 42926) are used.

Observe ballasting regulations in the assembly and usage instructions!

8.90     9.75     10.85     11.70     12.80     13.65       7.90     8.75     9.85     10.70     11.80     12.65       6.90     7.75     8.85     9.70     10.80     11.65						
6.90         7.75         8.85         9.70         10.80         11.65           190.1         210.5         242.0         252.5         261.0         271.0						
190.1 210.5 242.0 252.5 261.0 271.0						
	6.90	7.75	8.85	9.70	10.80	11.65
53168 53178 53188 53198 53108 53118	190.1	210.5	242.0	252.5	261.0	271.0
	53168	53178	53188	53198	53108	53118
240.1 263.3 311.1 324.5 336.3 349.7			*** *	227.5	22/ 2	2/0.7
53268         53278         53288         53298         53208         53218	240.1	263.3	311.1	324.5	330.3	349./

#### **Z 500**

#### S-PLUS COMPACT folding scaffold unit, single platform



The economical folding scaffold unit with advanced guardrail and two metre platform distance.

- Scaffolding width: 0.68 m; scaffolding length: 1.80 m.
- Safer and quicker assembly and dismantling due to advanced guardrail (instead of guardrails and diagonal braces) and platforms at intervals of 2 m.
- Working heights can be extended from 4.55 m to max. 9.85 m with standard parts.
- Basic module for folding for rapid erection and dismantling.
- Scaffolding category 3 (can be loaded up to 200 kg/m²) in accordance with DIN EN 1004, i.e. here 202 kg.
- Standard castors:  $\emptyset$  125 mm with pin (non height-adjustable) with rubber coating.

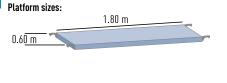
Platform size	annrov			0.60 m >	× 1.80 m						
Working height <sup>1)</sup>	approx. m	4.55	5.70	6.55	7.85	8.70	9.85				
Parts list	Order No.	53743	53744	53745	53746	53747	53748				
Folding frame unit	42734	1	1	1	1	1	1				
Push-on end frame, 1.00 m	42733	-	2	-	2	-	2				
Push-on end frame, 2.00 m	42750	2	2	4	4	6	6				
Advanced guardrail	42837	2	4	4	6	6	8				
Trapdoor platform	42725	1	2	2	3	3	4				
End toeboard	42731	2	2	2	2	2	2				
Side toeboard	42943	2	2	2	2	2	2				
Diagonal brace	42741	1	1	1	1	1	1				
Horizontal brace	42742	1	1	1	1	2	1				
Triangular stabiliser	42756	4	4	4	4	4	4				
Swivel castor, ∅ 125 mm, with pin	42743	4	4	4	-	-	-				
Swivel castor, $\varnothing$ 150 mm, with pin	42759	-	-	-	4	4	4				
Stirrup step	42940	-	-	-	1	1	1				
Ballast weights	Per swivel castor; fastening of stabilisers										
Indoor use	42912	0	0	0	0	0	0				
Outdoor use	42912	0	0	1	4	5	Х				

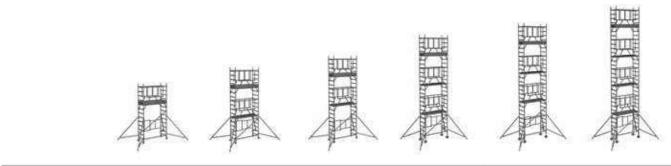


<sup>1)</sup> With swivel castors (Order No. 42759) fully height-adjusted. Adjustable range: 15 cm.

Observe ballasting regulations in the assembly and usage instructions!







Working height, approx. m	4.55	5.70	6.55	7.85	8.70	9.85
Scaffolding height m	3.90	5.00	5.85	7.15	8.05	8.90
Platform height m	2.55	3.70	4.55	5.85	6.70	7.85

Platform size 0.60 m × 1.80 m								
Weight kg	75.9	127.7	132.3	183.1	190.0	223.9		
Order No.	53743	53744	53745	53746	53747	53748		

08

#### Z 500

#### **COMPACT folding scaffold unit, single platform**

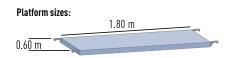


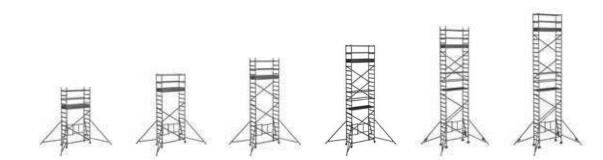
Modular extendable design, economical folding scaffold unit for safe standing.

- Scaffolding width: 0.68 m; scaffolding length: 1.80 m.
- Working heights can be extended from 4.55 m to max. 9.65 m with standard parts.
- Minimum space requirement during transportation and storage (dimensions when folded only  $1.75 \text{ m} \times 0.95 \text{ m} \times 0.20 \text{ m}$ ).
- Scaffolding category 3 (can be loaded up to 200 kg/m²) in accordance with DIN EN 1004, i.e. here 202 kg.
- Standard castors: 125 mm with pin (non height-adjustable) with rubber coating.

Platform size	approx. m	0.60 m × <b>1.80 m</b>					
Working height <sup>1)</sup>		4.55	5.70	6.50	7.65	8.70	9.85
Parts list	Order No.	53763	53764	53765	53766	53767	53768
Folding frame unit	42734	1	1	1	1	1	1
Push-on end frame, 2.00 m	42750	2	2	4	4	6	6
Guard-rail frame, 1.00 m	42740	-	2	-	2	-	2
Trapdoor platform	42725	1	1	1	2	2	2
Platform without trapdoor	42720	-	-	-	-	-	-
End toeboard	42731	2	2	2	2	2	2
Side toeboard	42943	2	2	2	2	2	2
Diagonal brace	42741	2	3	5	7	8	8
Horizontal brace	42742	5	5	5	9	9	9
Triangular stabiliser	42756	4	4	4	4	4	4
Swivel castor, $\varnothing$ 125 mm, with pin	42743	4	4	4	4	-	-
Swivel castor, $\varnothing$ 150 mm	42759	-	-	-	-	4	4
Ballast weights	Per swivel castor; fastening of stabilisers						
Indoor use	/2012	0	0	0	0	1	1
Outdoor use	42912	0	0	0	2	3	5

<sup>1)</sup> With swivel castors (Order No. 42759) fully height-adjusted. Adjustable range: 15 cm. Observe ballasting regulations in the assembly and usage instructions!





Working height, approx. m	4.55	5.70	6.50	7.65	8.70	9.85
Scaffolding height m	3.90	4.75	5.85	6.70	8.05	8.90
Platform height m	2.55	3.70	4.50	5.65	6.70	7.85

Platform size 0.60 m × 1.80 m								
Weight kg	88.9	96.1	108.9	140.9	157.5	162.1		
Order No.	53763	53764	53765	53766	53767	53768		











Insert the push-on end frames onto the chassis beams  $\dots$ 



... and secure with spring clips



By moving the adapter, the complete mobile scaffold tower can be moved towards the wall

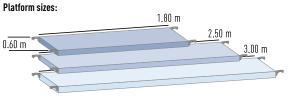
# Z 600 Mobile scaffold towers with chassis beams, single platform width

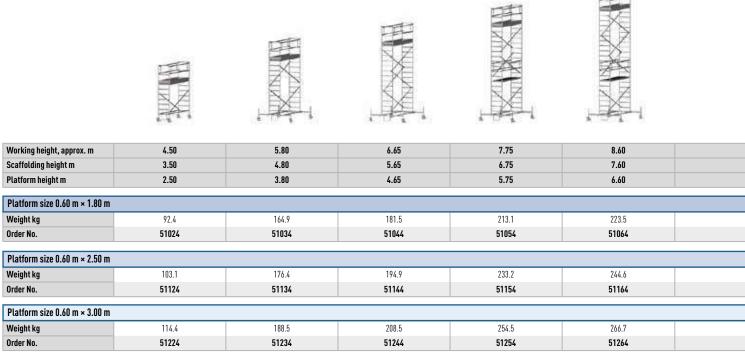


The standard solution for optimum mobility and safe standing.

- Scaffolding width: 0.75 m; scaffolding length: 1.80 m; 2.50 m;
- Working heights can be extended from 4.50 m to max. 13.65 m with standard parts.
- Scaffolding category 3 (can be loaded up to 200 kg/m²) according to DIN EN 1004, i.e. depending on platform size from 202 kg to max. 346 kg.
- Standard castors: height-adjustable 200-mm swivel castors (Order No. 42917) for millimetre-perfect level adjustment.
- Can be replaced as required with smaller, more inexpensive castors up to a specific scaffolding height.



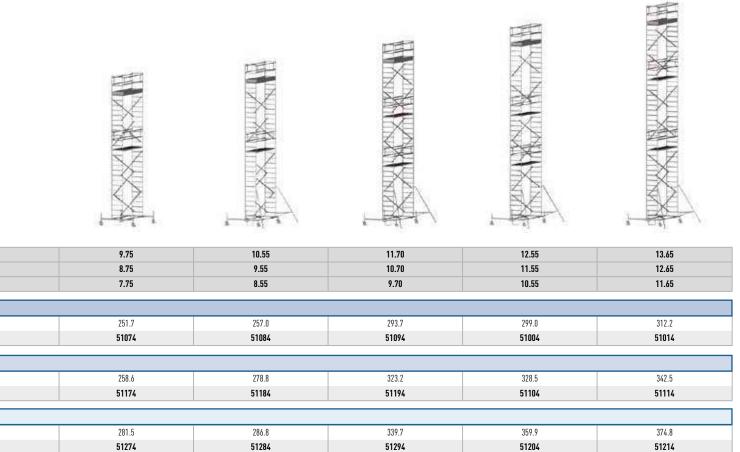




Platform size					0.6	0 m >	1.80	) m								0.6	0 m :	× 2.50	) m								0.6	50 m >	< 3.0	) m			
Working height <sup>1)</sup>	approx. m	4.50	5.80	9.65	7.75	8.60	9.75	10.55	11.70	12.55	13.65	approx. m	4.50	5.80	9.99	7.75	8.60	9.75	10.55	11.70	12.55	13.65	approx. m	4.50	5.80	9.99	7.75	8.60	9.75	10.55	11.70	12.55	13.65
Parts list	Order No.	51024	51034	51044	51054	51064	51074	51084	51094	51004	51014	Order No.	51124	51134	51144	51154	51164	51174	51184	51194	51104	51114	Order No.	51224	51234	51244	51254	51264	51274	51284	51294	51204	51214
Push-on end frame, 1.00 m	42905	-	2	-	2	-	2	-	2	-	2	42905	-	2	-	2	-	2	-	2	-	2	42905	-	2	-	2	-	2	-	2	-	2
Push-on end frame, 2.00 m	42904	2	2	4	4	6	6	8	8	10	10	42904	2	2	4	4	6	6	8	8	10	10	42904	2	2	4	4	6	6	8	8	10	10
Guard-rail frame, 1.00 m	42906	2	2	2	2	2	2	2	2	2	2	42906	2	2	2	2	2	2	2	2	2	2	42906	2	2	2	2	2	2	2	2	2	2
Guardrails	42955	2	2	2	4	4	4	4	6	6	6	42956	2	2	2	4	4	4	4	6	6	6	42957	2	2	2	4	4	4	4	6	6	6
Trapdoor platform	42931	1	1	1	2	2	2	2	3	3	3	42910	1	1	1	2	2	2	2	3	3	3	42933	1	1	1	2	2	2	2	3	3	3
End toeboard	42913	2	2	2	2	2	2	2	2	2	2	42913	2	2	2	2	2	2	2	2	2	2	42913	2	2	2	2	2	2	2	2	2	2
Side toeboard	42943	2	2	2	2	2	2	2	2	2	2	42914	2	2	2	2	2	2	2	2	2	2	42944	2	2	2	2	2	2	2	2	2	2
Diagonal brace	42937	2	4	6	6	8	10	10	12	12	14	42908	2	4	6	6	8	10	10	12	12	14	42938	2	4	6	6	8	10	10	12	12	14
Horizontal brace	42935	2	2	-	-	-	-	-	-	-	-	42907	2	2	-	-	-	-	-	-	-	-	42936	2	2	-	-	-	-	-	-	-	-
Basic brace	42810	-	-	2	2	2	2	2	2	2	2	42885	-	-	2	2	2	2	2	2	2	2	42811	-	-	2	2	2	2	2	2	2	2
Chassis beam, 2.00 m	42923	-	2	2	2	2	2	2	2	2	2	42923	-	2	2	2	2	2	2	2	2	2	42923	-	2	2	2	2	2	2	2	2	2
Swivel castors, ∅ 200 mm	42917	4	4	4	4	4	4	4	4	4	4	42917	4	4	4	4	4	4	4	4	4	4	42917	4	4	4	4	4	4	4	4	4	4
Stirrup step	42940	1	1	1	1	1	1	1	1	1	1	42940	1	1	1	1	1	1	1	1	1	1	42940	1	1	1	1	1	1	1	1	1	1
Triangular stabiliser	42926	-	-	-	-	-	2	2	2	2	2	42926	-	-	-	-	-	-	2	2	2	2	42926	-	-	-	-	-	-	-	-	2	2
Ballast weights															per	swiv	el ca	stor															
Indoor use																																	
set up centrally		5	1	2	3	4	5	6	7	8	9		6	0	0	1	1	2	3	4	5	5		5	0	0	0	1	2	2	3	4	5
set up at side <sup>2)</sup>	42915	Δ	1/1	2/2	3/3	4/4	Х	Х	Х	Х	Х	42915	Δ	0/1	0/2	1/3	1/4	2/5	Х	Х	Х	Х	42915	Δ	0/1	0/2	0/3	0/4	0/5	1/5	1/6	1/7	2/8
set up at side with 2 stabilisers 3)		Δ	Δ	Δ	Δ	Δ	0	1/1	1/1	2/2	2/2		Δ	Δ	Δ	Δ	Δ	Δ	0	0	0	1/1		Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	0	0
Outdoor use																																	
set up centrally		5	1	2	3	5	Х	Х	Х	Х	Х		6	0	1	3	5	7	Х	Х	Х	Х		7	0	1	3	6	8	Х	Х	Х	χ
set up at side <sup>2)</sup>	42915	Δ	1/1	2/2	3/4	5/6	Х	Х	Х	Х	Х	42915	Δ	0/1	0/3	1/5	2/7	5/10	Х	Х	Х	Х	42915	Δ	0/2	0/4	1/6	3/8	Х	Х	Х	Х	χ
set up at side with 2 stabilisers <sup>3)</sup>		Δ	Δ	Δ	Δ	Δ	1/1	Х	Х	Х	Х		Δ	Δ	Δ	Δ	Δ	Δ	Х	Х	Х	Х		Δ	Δ	Δ	Δ	Δ	Δ	Х	Х	Х	χ

Mobile scaffold towers with a working height of 4.50 m are not equipped with chassis beams. Please use appropriate ballast.

Observe ballasting regulations in the assembly and usage instructions!



x: not permissible! \( \Delta\): technically not feasible

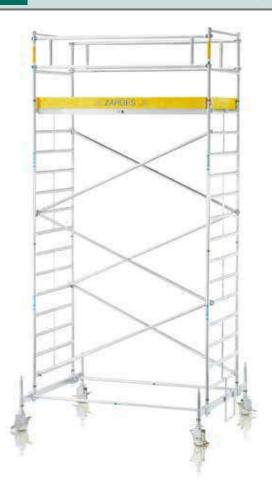
\( \Prec{1}\) With for the height-adjusted swivel castors (Order No. 42917). Adjustable range: 30 cm.

\( \Prec{2}\) In the case of side set-up without stabilisers, the lower ballasting is on the side of the chassis beam to which the scaffolding has been moved.

\( \Prec{3}\) In the case of side set-up with stabilisers, the higher ballasting is on the side of the stabilisers.

Push-on tubes (Order No. 42919) must be used in addition where there are more than 4 ballast weights for each swivel castor.

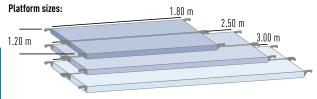
# Z 600 Mobile scaffold towers with chassis beams, double platform width



High degree of stability and mobility, plus a wide platform for more space for working and for tools.

- Scaffolding width: 1.35 m; scaffolding length: 1.80 m; 2.50 m;
- Working heights can be extended from 4.50 m to max. 13.65 m with standard parts.
- Scaffolding category 3 (can be loaded up to 200 kg/m²) according to DIN EN 1004, i.e. depending on platform size from 404 kg to max. 692 kg.
- Standard castors: height-adjustable 200-mm swivel castors (Order No. 42917) for millimetre-perfect level adjustment.
- Can be replaced as required with smaller, more inexpensive castors up to a specific scaffolding height.















	70 8000 100	DATE: 20	DO HANDY CHIC	AT THE SECOND	THE STOLET THE	
Working height, approx. m	4.50	5.60	6.65	7.75	8.60	
Scaffolding height m	3.50	4.60	5.65	6.75	7.60	
Platform height m	2.50	3.60	4.65	5.75	6.60	
Platform size 1.20 m × 1.80 m						
Weight kg	114.9	131.9	210.8	258.6	272.0	
Order No.	51324	51334	51344	51354	51364	
Platform size 1.20 m × 2.50 m						
Weight kg	129.5	147.3	229.1	288.6	302.9	
Order No.	51424	51434	51444	51454	51464	
Platform size 1.20 m × 3.00 m						
Weight kg	145.5	164.1	246.2	317.2	332.2	
Order No.	51524	51534	51544	51554	51564	

Platform size	onnrov				1.2	20 m :	× 1.8	0 m				onnro				1.2	:0 m >	× 2.50	0 m				onnro"				1.2	:0 m >	< 3.00	) m			
Working height <sup>1)</sup>	approx. m	4.50	2.60	9.99	7.75	8.60	9.75	10.55	11.70	12.55	13.65	approx. m	4.50	9.60	9.9	7.75	8.60	9.75	10.55	11.70	12.55	13.65	approx. m	4.50	2.60	9.99	7.75	8.60	9.75	10.55	11.70	12.55	13.65
Parts list	Order No.	51324	51334	51344	51354	51364	51374	51384	51394	51304	51314	Order No.	51424	51434	51444	51454	51464	51474	51484	51494	51404	51414	Order No.	51524	51534	51544	51554	51564	51574	51584	51594	51504	51514
Push-on end frame, 1.00 m	42902	-	2	-	2	-	2	-	2	-	2	42902	-	2	-	2	-	2	-	2	-	2	42902	-	2	-	2	-	2	-	2	-	2
Push-on end frame, 2.00 m	42901	2	2	4	4	6	6	8	8	10	10	42901	2	2	4	4	6	6	8	8	10	10	42901	2	2	4	4	6	6	8	8	10	10
Guard-rail frame, 1.00 m	42903	2	2	2	2	2	2	2	2	2	2	42903	2	2	2	2	2	2	2	2	2	2	42903	2	2	2	2	2	2	2	2	2	2
Guardrails	42955	2	2	2	4	4	4	4	6	6	6	42956	2	2	2	4	4	4	4	6	6	6	42957	2	2	2	4	4	4	4	6	6	6
Trapdoor platform	42931	1	1	1	2	2	2	2	3	3	3	42910	1	1	1	2	2	2	2	3	3	3	42933	1	1	1	2	2	2	2	3	3	3
Platform without trapdoor	42932	1	1	1	2	2	2	2	3	3	3	42930	1	1	1	2	2	2	2	3	3	3	42934	1	1	1	2	2	2	2	3	3	3
End toeboard	42911	2	2	2	2	2	2	2	2	2	2	42911	2	2	2	2	2	2	2	2	2	2	42911	2	2	2	2	2	2	2	2	2	2
Side toeboard	42943	2	2	2	2	2	2	2	2	2	2	42914	2	2	2	2	2	2	2	2	2	2	42944	2	2	2	2	2	2	2	2	2	2
Diagonal brace	42937	2	4	6	6	8	10	10	12	12	14	42908	2	4	6	6	8	10	10	12	12	14	42938	2	4	6	6	8	10	10	12	12	14
Horizontal brace	42935	2	2	-	-	-	-	-	-	-	-	42907	2	2	-	-	-	-	-	-	-	-	42936	2	2	-	-	-	-	-	-	-	-
Basic brace	42810	-	-	2	2	2	2	2	2	2	2	42885	-	-	2	2	2	2	2	2	2	2	42811	-	-	2	2	2	2	2	2	2	2
Chassis beam, 2.00 m	42923	-	-	2	2	2	2	2	2	2	2	42923	-	-	2	2	2	2	2	2	2	2	42923	-	-	2	2	2	2	2	2	2	2
Swivel castors, Ø 200 mm	42917	4	4	4	4	4	4	4	4	4	4	42917	4	4	4	4	4	4	4	4	4	4	42917	4	4	4	4	4	4	4	4	4	4
Stirrup step	42940	1	1	1	1	1	1	1	1	1	1	42940	1	1	1	1	1	1	1	1	1	1	42940	1	1	1	1	1	1	1	1	1	1
Triangular stabiliser	42926	-	-	-	-	-	-	-	2	2	2	42926	-	-	-	-	-	-	-	-	-	2	42926	-	-	-	-	-	-	-	-	-	-
Ballast weights															per	swiv	el ca	stor														Π	
Indoor use																																	
set up centrally		2	3	1	2	3	4	4	5	6	7		2	3	0	0	1	1	2	3	3	4		1	3	0	0	0	1	1	2	3	3
set up at side <sup>2)</sup>	42915	Δ	Δ	1/1	2/2	3/3	4/4	4/4	Х	Х	Х	42915	Δ	Δ	0	0/1	0/2	0/2	1/3	1/4	2/5	2/6	42915	Δ	Δ	0	0/1	0/1	0/2	0/3	0/3	1/4	1/
set up at side with 2 stabilisers <sup>3]</sup>		Δ	Δ	Δ	Δ	Δ	Δ	Δ	1/0	1/0	2/1		Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	1/0		Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
Outdoor use																																	
set up centrally	42915	2	4	2	5	7	Х	Х	Х	Х	Х	42915	2	4	1	3	5	7	Х	Х	Х	Х	42915	2	5	1	3	5	8	Х	Х	Х	Х
set up at side <sup>2)</sup>	42915	Δ	Δ	2/2	5/5	7/7	Х	Х	Х	Х	Х	42915	Δ	Δ	0/2	1/4	3/6	5/8	Х	Х	Х	Х	42915	Δ	Δ	0/2	2/4	4/7	6/9	Х	Х	Х	Х
c: not permissible! A: technically not feasible  With for the height-adjusted swivel castors (Order No. 42917). Adjustable range: 30 cm.  In the case of side set-up without stabilisers, the lower ballasting is on the side of the chassis beam to which the scaffolding has been moved.  In the case of side set-up with stabilisers, the higher ballasting is on the side of the stabilisers.  Push-on tubes (Order No. 42919) must be used in addition where there are more than 4 ballast weights for each swivel castor.  Adobite scaffold towers with a working height of 4.50 m and 5.60 m are not equipped with chassis beams. Please use appropriate ballast.  Observe ballasting regulations in the assembly and usage instructions!																																	

9.75	10.55	11.70	12.55	13.65
8.75	9.55	10.70	11.55	12.65
7.75	8.55	9.70	10.55	11.65
 289.0	297.2	365.1	373.3	390.3
51374	51384	51394	51304	51314
· · · · · · · · · · · · · · · · · · ·	<u> </u>			
320.7	328.9	394.5	402.7	435.5
51474	51484	51494	51404	51414
· · · · · · · · · · · · · · · · · · ·	<u>'</u>			
350.9	359.1	436.8	445.0	463.7
51574	51584	51594	51504	51514

# **Push-on end frame**



Push-on end frame made from aluminium tube, ⊠ 50 mm; rungs with non-slip ribbing; rung-stile connection welded all-round, incl. two stop springs (on the scaffolding –



#### Push-on end frame, 0.75 m

For all mobile scaffold towers in width 0.75 m, for safe platform access.

For scaffolding lengths m	Height m	Number of rungs	Weight kg	Order No.
0.75	1.12	4	4.0	42905
0.75	1.96	7	6.7	42904



### Push-on end frame, 1.35 m

With central brace made from  $25 \times 5$  flat aluminium.

For all mobile scaffold towers in width 1.35 m, for safe platform access.

For scaffolding widths m	Height m	Number of rungs	Weight kg	Order No.
1.35	1.12	4	5.9	42902
1.35	1.96	7	10.0	42901

# Z 600

# Folding frame unit



Folding frame unit comprising one folding unit and two side parts; folding unit made from 40 × 20 mm aluminium sections incl. hinge with automatically locking joints. For side parts, see push-on end frame.





# **Folding frame**

As base unit for folding scaffold unit in length 1.80 m and width 0.85 m or 1.45 m (to the outside edge of the folding unit hinge).

For scaffolding widths m	Height m	Number of rungs	Weight kg	Order No.
0.85	1.50	5	16.9	42947
1.45	1.50	5	21.3	42948

# Z 600

# Guardrail/guard-rail frame



Guardrail/guardrail frame made from 50 mm  $\varnothing$  aluminium tubes, joints welded all round. Guardrail: with self-locking claws (grey) of diecast aluminium. Guard-rail frame: incl. 2 stop springs (on the scaffolding – not loose!) for mounting on the push-on end frame.



# Guardrails

For providing longitudinal protection. Attachment: from inside to outside.

For scaffolding lengths m	Height m	Weight kg	Order No.
1.80	0.55	5.3	42955
2.50	0.55	6.4	42956
3.00	0.55	7.2	42957

# Z 600 Guardrail/guard-rail frame

For scaffolding lengths m	Height m	Weight kg	Order No.
1.80	0.55	7.2	42837
2.50	0.55	9.7	42838

#### Advanced guardrail

For providing longitudinal protection. For Z 600 S-PLUS mobile scaffold towers or for retrofitting of Z 600 mobile scaffold towers with stabilisers and COMPACT folding scaffold units.



For scaffolding widths m	Height m	Weight kg	Order No.
0.75	1.00	2.7	42906
1.35	1.00	3.7	42903

#### **Guardrail frames**

For upper protection of the end face.



# Z 600 Braces (horizontal and diagonal)

Note: Braces (horizontal and diagonal),  $\varnothing$  50 mm, with self-locking claws made from diecast aluminium.

For scaffolding lengths m	Weight kg	Order No.
1.80	2.3	42935
2.50	2.9	42907
3.00	3.3	42936

#### **Horizontal brace**

For bracing the lower scaffolding section.
Colour of claws: Grey.



For scaffolding lengths m	Length m	Weight kg	Order No.
1.80	2.12	2.6	42937
2.50	2.75	3.0	42908
3.00	3.20	3.4	42938

# Diagonal brace

For bracing the push-on end frames. Colour of claws: Blue.



For scaffolding lengths m	Weight kg	Order No.
1.80	2.3	42978
2.50	2.7	42979
3.00	3.1	42980

# Platform diagonal brace

For bracing the push-on end frames instead of diagonal braces if a platform is to be installed at the height of the diagonal braces.

Colour of claws: Blue.



For scaffolding lengths m	Weight kg	Order No.
1.80	6.1	42886
2.50	7.1	42887
3.00	7.9	42888

Basic braces for scaffold towers with stabilisers

Made from aluminium tubes  $\varnothing$  48 mm, with couplings for torsion-free mounting on the stile.



For scaffolding lengths m	Weight kg	Order No.
1.80	5.4	42810
2.50	6.4	42885
3.00	7.2	42811

Basic braces for scaffold towers with chassis heams

Made from aluminium tubes,  $\emptyset$  48 mm, with adapters for torsion-free mounting on the chassis beams.





# **Platform size**



Platforms made from an all-round welded, torsion-resistant aluminium frame with boil- and waterproof, 9-ply adhesive-bonded plywood board; with slip-resistant surface and 4 self-locking claws (grey) of diecast aluminium.



#### **Platform**

For secure standing on rest and work platforms. Application: for mobile scaffold towers in width 1.35 m.

For scaffolding lengths m	Width m	Weight kg	Order No.
1.80	0.60	12.7	42932
2.50	0.60	17.5	42930
3.00	0.60	21.1	42934



# Platform with trapdoor

With locking mechanism for secure standing on rest and work platforms.

For scaffolding lengths m	Width m	Weight kg	Order No.
1.80	0.60	13.0	42931
2.50	0.60	17.5	42910
3.00	0.60	23.7	42933

# Z 600

# **Toeboards**

Moto

Toeboards made from wood, approx. 2.5 cm thick, with guide rails at end toeboard for high operating comfort.



#### Side toeboard

For providing longitudinal protection on the work platform.

Colour: Yellow with ZARGES lettering.

For scaffolding lengths m	Height m	Weight kg	Order No.
1.80	0.15	3.3	42943
2.50	0.15	4.9	42914
3.00	0.15	5.6	42944





# **End toeboard**

For providing longitudinal protection on the work platform. incl. metal fittings.

Colour: Yellow.

For scaffolding widths m	Height m	Weight kg	Order No.
0.75	0.15	1.4	42913
1.35	0.15	2.1	42911

# Z 600

### **Chassis beams**



# Chassis beams

80 mm × 50 mm steel box section, hot-dip galvanised, with insert tubes for swivel castors and various push-on gudgeons for push-on end frame incl. 2 stop springs (on the scaffolding – not loose!).

Length approx. m	Height m	Weight kg	Order No.
2.00	0.40	19.9	42923

# Stabiliser

Length approx. m	Weight kg	Order No.
2.25-2.45	7.5	42926

#### Triangular stabiliser

Made from  $\emptyset$  50 mm aluminium tubes, telescopic with pivot foot for levelling out uneven surfaces.

With clamps for fastening to the stile, incl. anti-twist device.



Length approx. m	Weight kg	Order No.
2.20	5.0	42850

# Triangular stabiliser S-PLUS

Made from  $\varnothing$  50 mm aluminium tubes, telescopic with pivot foot for levelling out uneven surfaces.

With clamps for fastening to the stile.



Length approx. m	Weight kg	Order No.
0.75	1.9	42865

# Turning lock for stabilisers

Separate turning lock for mounting on Z 600 stabilisers.

Holds the stabilisers securely in the  $45^{\circ}$ position to the mobile scaffold tower (prescribed in acc. with EN 1004).



# For mobile scaffold towers with stairways

For scaffolding widths m	Height m	Number of rungs	Weight kg	Order No.
1.35	1.96	7 (single- sided)	9.0	42928

Push-on end frame, 1.35 m with opening

With central brace made from aluminium tube,  $\emptyset$  50 mm, for front-end access to mobile scaffold towers with stairways.



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For scaffolding length m	Length approx. m	Weight kg	Order No.
1.80	2.15	8.8	42961
2.50	2.15	12.5	42861

#### Stairway

Stairway structure made from aluminium sections for comfortable climbing and descent, particularly with bulky or heavy loads. Tread depth 0.10 m. Outside width, stairway 0.43 m.



For scaffolding lengths m	Length approx. m	Weight kg	Order No.
1.80	2.65	3.8	42929
2.50	2.80	4.1	42862

# Handrail

Made from aluminium tubes, . $\varnothing$  50 mm, to provide side protection on the stairway



# For mobile scaffold towers with stairways



#### Handrail, angled (top)

Made from aluminium tubes,  $\varnothing$  50 mm, to provide side protection on the stairway.

Application: only under the work platform.

For scaffolding lengths m	Weight kg	Order No.
1.80	3.2	42939
2.50	3.7	42863



# Platform, can be opened

Opens over its entire length. Trapdoor with locking mechanism for secure standing on rest and work platforms.

For scaffolding lengths m	Width m	Weight kg	Order No.
1.80	0.60	13.3	42970
2.50	0.60	18.1	42860

# Z 600

# Swivel castors and foot height adjusters (spindles)



# Swivel castor with height adjuster

Plastic wheel,  $\varnothing$  200 mm or  $\varnothing$  125 mm, with height adjuster of galvanised steel, with separate levers for braking and release function; with load centring when braked.

Suitable for all chassis beams and push-on end frames for Z 600 mobile scaffold towers.

Adjustable range: 30 cm. Delivery size: 1 piece.

Wheel diameter in mm	Weight kg	Load capacity/ castor kg	Order No.
125	6.1	500	42973
200	7.3	600	42917





# Swivel castor with journal (non-height-adjustable)

Plastic wheel,  $\varnothing$  125 mm, with pin made from galvanised steel, with brake. Suitable for all chassis beams and push-on end frames for Z 600 mobile scaffold towers.

Delivery size: 1 piece.

Wheel diameter in mm	Weight kg	Load capacity/ castor kg	Order No.
125	1.5	300	42959



# Cast-aluminium swivel castor

For electrostatic discharge (in place of grounding strap).

Cast aluminium wheel, Ø 125 mm, with height adjuster of galvanised steel, with separate levers for braking and release function; with load centring when braked

Adjustable range: 30 cm. Delivery size: 1 piece.

Wheel diameter in mm	Weight kg	Load capacity/ castor kg	Order No.
125	6.2	500	42873

# Z 600 Swivel castors and foot height adjusters (spindles)

Wheel diameter in mm	Weight kg	Load capacity/ castor kg	Order No.
200	7.3	600	42875

Rubber swivel castor with height adjuster

Plastic wheel,  $\varnothing$  200 mm, with height adjuster made from galvanised steel, with separate levers for braking and release function, with load centring when braked.

Oil-, petrol/gasoline- and acid-resistant. Suitable for all chassis beams and pushon end frames for Z 600 mobile scaffold towers.

Adjustable range: 30 cm. Delivery size: 1 piece.



# Wheel diameter in mm 200 7.3 1000 42874

Swivel castor 1,000 kg

Plastic wheel,  $\emptyset$  200 mm, with height adjuster made from galvanised steel, with separate levers for braking and release function;

with load centring when braked.

Suitable for all chassis beams and pushon end frames for Z 600 mobile scaffold towers.

Suitable for work platforms. Adjustable range: 6.5 cm. Delivery size: 1 piece.



Weight kg	Load capacity kg	Order No.
4.5	600	41904

Foot height adjuster

Galvanised steel, height-adjustable in an adjustment range of 30 cm; with bolt holes for bolting to the ground.

Delivery size: 1 piece.





# Z 600 Stirrup step

Weight kg	Width approx. m	Order No.
0.6	0.40	42940

Stirrup step

Adjustable, with screws for mounting on chassis beam or rung for shortening access to the first rung.



# **Extension accessories**



These extension accessories turn standard mobile scaffold towers into customised mobile scaffold towers for special applications. Structural analyses may be required!



### **Guardrail** post

For lengthways linking of scaffolding; to link guard rails to each other at the top; in place of the guard-rail frame.

Weight kg	Order No.
2.0	42986

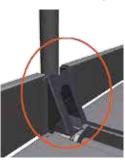


Side toeboard clamps, 1 pair

For linking side toeboards in series.

Weight kg	Order No.
1.0	42869





Aluminium couplings, rigid 90° or rotatable

For linking accessories to other scaffolding parts.

Suitable for tube diameter  $\varnothing$  44 to 50 mm.





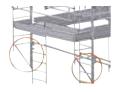
# **Extension accessories**

Width approx. m	Height m	Weight kg	Order No.
0.75	0.95	5.0	42962

# **Aluminium mounting brackets**

For one-sided or two-sided widening of the work platform, incl. couplings.





For scaffolding length m	Length approx. m	Weight kg	Order No.
1.80	1.70	7.5	42963
2.50	2.40	9.0	42964
3.00	2.90	10.5	42965

### Intermediate lining

Application: for bridging the gap when mounting a bracket kit on a mobile scaffold tower.

Platform, approx. 12 cm wide, with aluminium frame on the underside.



Weight kg	Order No.
0.2	42966

# End toeboard clamp

For linking two end toeboards in series.



For scaffolding length m	Height m	Weight kg	Order No.
2.50	0.58	12.2	42975

# Support frame

Application: mounted longitudinally on mobile scaffold towers in order to accommodate bridging (e.g. on work platforms).



	ng ı m	Length approx. m	Wei	ght kg	Order No.	
3		3.20	8	3.1	42866	
3		3.90	9	9.7	42867	
4		4.40	1	0.8	42868	

# Side toeboard for bridging

For providing longitudinal protection on the bridging of work platforms. With hinge.





# **Extension accessories**



Variable corner for round scaffolding

For the creation of polygonal round scaffolding.

Corner variable from 35 to 60°. For scaffold towers with double platform width.

Weight kg	Order No.
12.0	42877



#### Telescoping brace

For round scaffolding in combination with the variable corner (Order No. 42877).

Length approx. m	Weight kg	Order No.
1.10-1.55	2.0	42854

Z 600

Z 500

**Ballast weights and accessories** 

Note:

Please always refer to the assembly and usage instructions for the correct ballasting. Ballasting depends on the installation location (outdoors or indoors).



### Ballast weight (disk)

Steel, painted. For pushing onto the tube of the chassis beam.

Colour: Yellow.

Weight kg	Diameter mm	Order No.
10.0	215	42915



#### Push-on tube

Aluminium tube,Ø 50 mm, for ballast disc (Order No. 42915). Application: from > 4 ballast weights. Maximum number fitted:

6 ballast weights.

Length approx. m	Weight kg	Order No.
0.70	0.9	42919



#### Ballast weight (cuboid)

Steel, painted. With clamps for attachment to the triangular stabilisers. Colour: Yellow.

Weight kg	Order No.
10.0	42912



#### Wall anchor

Made of galvanised steel. For anchoring in the masonry in the case of assembly alongside a wall.

Recommendation:

Platform height 3.00 m-6.60 m: 2 pieces Platform height 6.60 m-10.50 m: 4 pieces Platform height 10.50 m-12.00 m: 6 pieces

Length approx. m	Weight kg	Order No.
0.90	2.0	42920



#### Shock protection for mobile scaffolding

To protect objects when they are in contact with the mobile scaffold.

For tubes of  $\emptyset$  50 mm.

Length: 220 mm. Colour: blue.

Weight kg	Order No.
0.2	42847

Z 500

**Ballast weights and accessories** 

Weight kg	Order No.
0.5	40301

Tool bag

Mobile tool pouch with different storage compartments.

With shoulder strap for easy carrying. Highly flexible in terms of mounting options.

Dimensions:  $30 \times 15 \times 30$  cm (W × D × H).



Z 500

**Push-on end frame** 

Note:

Push-on end frame made from aluminium tube, Ø 50 mm; rungs with non-slip ribbing; rung-stile connection welded all-round, incl. two stop springs (on the scaffolding – not lonse!).

For scaffolding widths m	Height m	Number of rungs	Weight kg	Order No.
0.68	1.96	7	6.1	42750
0.68	1.12	4	3.8	42733

Push-on end frame, 0.68 m

For safe platform access.



Z 500

Guardrail/guard-rail frame

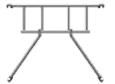
Note:

Guardrail/guardrail frame made from 50 mm  $\varnothing$  aluminium tubes, joints welded all round. Guardrail: with self-locking claws (grey) of diecast aluminium. Guard-rail frame: incl. 2 stop springs (on the scaffolding – not loose!) for mounting on the push-on end frame.

For scaffolding lengths m	Height m	Weight kg	Order No.
1.80	0.55	7.2	42837

Advanced guardrail

For providing longitudinal protection. For Z 500 S-PLUS COMPACT folding scaffold unit or for retrofitting of Z 500 COMPACT folding scaffold unit.





For scaffolding widths m	Height m	Weight kg	Order No.
0.68	1.00	2.3	42740

**Guardrail frames** 

For upper protection of the end face.



Z 500

Folding frame unit

Note:

Folding frame unit comprising one folding unit and two side parts; folding unit made from 40 × 20 mm aluminium sections incl. single hinge with securing pin. For side parts, see push-on end frame.

Height m	Number of rungs	Weight kg	Order No.
1.77	6	14.8	42734

Folding frame unit

As base unit for folding scaffold unit in length 1.80 m and width 0.68 m.



# Braces (horizontal and diagonal)

Note:

Braces (horizontal and diagonal) made from aluminium tubes,  $\varnothing$  50 mm, with self-locking claws in diecast aluminium.



#### Horizontal brace

For use as guardrails and to brace the lower scaffolding section.
Colour of claws: Grey.

For scaffolding lengths m	Weight kg	Order No.
1.80	2.3	42742



#### Diagonal brace

For bracing the push-on end frames. Colour of claws: Blue.

For scaffolding lengths m	Length m	Weight kg	Order No.
1.80	2.12	2.6	42741

# Z 500

# **Platforms**

Note:

Platforms made from an all-round welded, torsion-resistant aluminium frame with boil- and waterproof, 9-ply adhesive-bonded plywood board; with slip-resistant surface and 4 self-locking claws (grey) of diecast aluminium.



#### Platform

For use with mobile scaffold tower Order No. 53760 (without extension option).

For scaffolding lengths m	Width m	Weight kg	Order No.
1.80	0.60	12.7	42720



# Platform with trapdoor

With locking mechanism for secure standing on rest and work platforms.

For scaffolding lengths m	Width m	Weight kg	Order No.
1.80	0.60	13.0	42725



# Z 500 Toeboards

Note:

Toeboards made from wood, approx. 2.5 cm thick, with guide rails at end toeboard for high operating comfort.



# Side toeboard

For providing longitudinal protection on the work platform.

Colour: Yellow with ZARGES lettering.

For scaffolding lengths m	Height m	Weight kg	Order No.
1.80	0.15	3.3	42943



#### **End toeboard**

For providing front protection on the work platform, incl. metal fittings.

Colour: Yellow.

For scaffolding widths m	Height m	Weight kg	Order No.
0.68	0.15	1.4	42731

# Z 500 Stabiliser

 Length m
 Weight kg
 Order No.

 2.00
 3.9
 42756

Triangular stabiliser

Made from aluminium tubes,  $\varnothing$  50 mm, with robust plastic foot.

With clamps for fastening to the stile.



Length approx. m	Weight kg	Order No.
2.20	5.0	42850

Triangular stabiliser S-PLUS

Made from  $\varnothing$  50 mm aluminium tubes, telescopic with pivot foot for levelling out uneven surfaces.

With clamps for fastening to the stile.



Weight kg	Order No.
1.9	42865

Turning lock for stabiliser Z 500

Separate turning lock for mounting on Z 500 stabilisers.

Holds the stabilisers securely in the 45° position to the mobile scaffold tower (prescribed in acc. with EN 1004).



# **Z 500** Swivel castors

Load capacity/ castor kg	Weight kg	Order No.
300	1.5	42743

Swivel castors with journals

(non-height-adjustable)

Plastic wheel,  $\varnothing$  125 mm, with pin made from galvanised steel, with brake.

With rubber covering (brown) - does not leave marks on the floor.

Delivery size: 1 piece.



Wheel diameter in mm	Weight kg	Load capacity/ castor kg	Order No.
150	5.0	500	42759

Swivel castor with height adjuster

Plastic wheel,  $\emptyset$  150 mm, with height adjuster made from galvanised steel, with separate levers for braking and release function, with load centring when braked.

Adjustable range: 15 cm. Delivery size: 1 piece.



# Spare parts for mobile scaffold towers



End cap

For the top end of the Z 600 guard-rail frame

Diameter mm	Order No.
50	800175



# Spring clip

For push-on end frames and guard-rail frames in the Z 500 and Z 600 ranges.

Material	Order No.
galvanised steel	800172



# Adapter for chassis beams

Can be moved on the chassis beam.

Version	Order No.
Chassis beam 42141 Z 600	800253
Chassis beam 42923 Z 600	800345
Chassis beam 42830 Z 500	800379



Hammer-head bolt M 14 mm × 70 mm

For scaffolding couplings on triangular stabilisers.

Material	Order No.
galvanised steel	800347



# **Scaffolding coupling**

For triangular stabiliser Z 600/Z 500.

Material	Order No.
Aluminium	800348

# Spare parts for mobile scaffold towers

Material	Order No.
galvanised steel	860116

Hinged pipe connector

For triangular stabilisers. Fits all product ranges.



Version	Weight kg	Order No.
Outside hinge, 180° latching	1.0	820688

Hinge of folding scaffold unit

Fits Z 600 folding frame unit (Order Nos. 42947 and 42948).



Material	Weight kg	Order No.
Galvanised steel, yellow chromate coating	0.15	800456

Hinge for platforms with trapdoor

Fits all Z600 and Z500 platforms for mobile scaffold towers with trapdoor.





Material	Weight kg	Order No.
Galvanised steel, yellow chromate coating	0.1	800457

Fastener for trapdoor

Fits all Z600 and Z500 platforms for mobile scaffold towers with trapdoor.



Order No.
800540

Test report for mobile scaffolding

Comprised of one A4 block of 80 sheets as well as five A5 self-adhesive PVC folders.



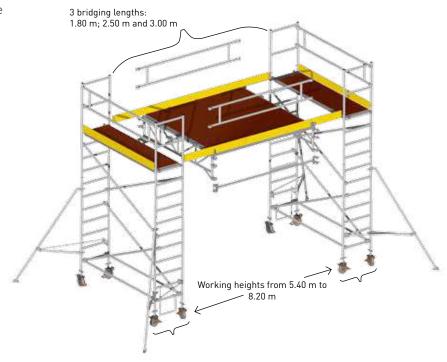


ZARGES special scaffolding is the answer wherever standard scaffolding will not suffice.

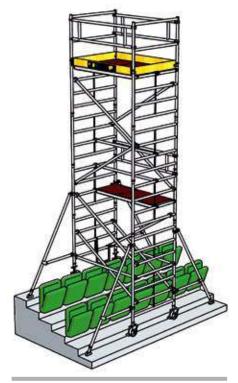
It can be adapted to the specific requirements of the task in hand with its numerous special add-on parts, attachments and a wide range of adjustment options. Both solutions suitable for use on stairs and mobile scaffold towers coupled end-to-end are possible. Based on tried and tested basic designs, they are a cheaper and simpler alternative to more expensive customised solutions, which usually have longer delivery times, while still allowing adaptation to suit the specific on-site conditions and meet customer requirements. The basic scaffolding design also allows quick and simple assembly on site and is particularly flexible in use.

The work platform consists of two mobile scaffold towers with a bridging section.

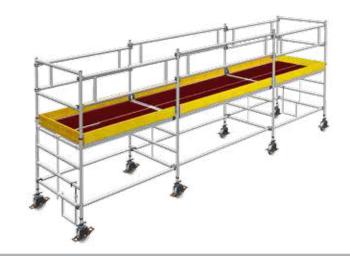
The bridging is available in three lengths  $\{1.80 \text{ m}; 2.50 \text{ m} \text{ and } 3.00 \text{ m}\}$  and in 4 heights up to a working height of 8.20 m.



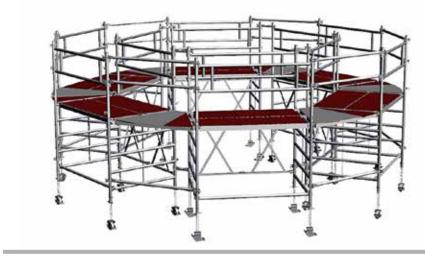
# **Product examples**



Mobile scaffold tower for a lecture hall



Mobile scaffold towers coupled end-to-end



Round scaffolding with flexible corner elements

All ZARGES special scaffolding models comply with the relevant industrial standards – based on DIN EN 1004 for mobile work platforms, scaffolding category 3 (= for loads of up to 200 kg/m²) or scaffolding category 2 (= for loads of up to 150 kg/m²). The single parts are  $T\ddot{U}V$ -certified and the complete scaffolding has been structurally tested.





Brace-free mobile scaffold towers are available in two widths (0.75 m and 1.35 m), and they can be extended to heights of up to 10.40 m. Brace-free up to 1.90 m (middle).



Mounting brackets in three lengths (1.80 m; 2.50 m and 3.00 m) can be attached to mobile scaffold towers with chassis beams up to a working height of 8.60 m.



# 09

# Fixed ladders – firmly installed safety.

ZARGES fixed ladders offer an inexpensive solution for emergency ladder systems, access to machinery and plants and other permanent means of access for building maintenance. All components are from a single source, are optimally matched and yet still allow individual adjustment to the specific application and the on-site requirements. Quick and easy assembly on site helps to make them so cost-effective!

The product range includes a wide selection of single parts which can be combined to create the optimum solution for your application. As regards materials, you can choose from galvanised steel, natural aluminium, anodised aluminium or V4A stainless steel.

A corresponding fall arrester system rounds off the system.

All components are tested to the current national and international standards (DIN 18 799-1, DIN 14 094-1, DIN EN ISO 14 122 and EN 353-1) and have a test certificate for all materials.

Moreover, ZARGES now provides verification that its fixed ladders are designed and fabricated in accordance with the specifications of DIN EN 1090, which came into force on 1 July 2014.

Our online-based planning system makes the planning of vertical ladder systems particularly easy. Here, you can enter all relevant information, and the optimum solution is drafted in accordance with all industrial standards and regulations. Visual representation is created via a 3D-view with real-time adjustment. And of course, the ZARGES team of experts are also available to answer any queries personally (see pages 276/277).





Vertical ladder planning system:

Easy - fast - standardised.



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	Single-section fixed ladder systems	<u>278</u>
	Multi-section fixed ladder systems	<u>279</u>
	Single parts, fixed ladders	<u>280</u>







# www.accessladder.zarges.com

Take advantage of our 24-hour online service. Maintenance or emergency ladders on buildings or machinery access ladders:

The new ZARGES planning system simplifies configuration of your fixed ladder system including all relevant standards.



# The advantages for you:

- Standardised online configuration including real-time 3D visualisation.
- Direct offer including 2D-drawing featuring all important dimensions.
- 3D models for importing into your plans (after approval by ZARGES).
- Downloads of static calculations, estimate and check lists, product images, presentations and much more.
- Tender documents for planners and architects.





You receive an offer and drawing immediately online.

No special product know-how required: Just follow the instructions on the screen!

The system will guide you and prompt you to enter all relevant information, such as the area of application, basic dimensions, material, arrangement of platforms etc. Just a few steps are all it takes to obtain your offer, including drawing – that's how easy it is.





# We are there for you:

Personal advice from your ZARGES expert.

Take advantage of our vertical ladder planning system!

www.accessladder.zarges.com

24-hour service in the internet:

www.accessladder.zarges.com

# Single-section fixed ladder systems up to a height of 10 m



Stationary access to buildings and machinery up to a height of 10 m, also suitable and approved for use as an escape route.

- For stationary mounting, on buildings either for maintenance in accordance with DIN 18 799-1 or as an emergency ladder system in accordance with DIN 14 094-1 or as machine access steps in accordance with DIN EN ISO 14 122-4.
- Safety cage as safety system, complies with any standard.
- Arrester rail as a safety system in accordance with DIN EN 353-1, DIN 18 799-1 and DIN EN ISO 14 122-4, can be supplied as a single-section fixed ladder even with climbing heights of over 10 m.
- Ladder width: 520 mm.
- Wall brackets with various wall stand-offs up to 600 mm can be selected.
- The max. distance between the individual wall brackets is 2.00 m. Each ladder section must be mounted with at least 2 wall brackets.
- Safety barriers, access protection and platforms can be selected to suit individual requirements.
- We can also produce fixed-ladder designs that differ from the standard specification on request.

Plugs and screws/bolts for wall mounting are not included in the scope of delivery.

The prices for single-section systems are calculated as follows: wall bracket in the form of a U-bar, 200 mm rigid, straight stile extensions on both sides, incl. safety cage in accordance with DIN 18 799-1.

In the case of other requirements, please use our vertical ladder planning system.

Further details at www.accessladder.zarges.com

Overview of single parts	Anodised aluminium	Natural aluminium	Galvanised steel	Stainless steel V4A (1.4571) <sup>2)</sup>
	Order No.	Order No.	Order No.	Order No.
Ladder section 1.96 m (without wall brackets)	41240	42240	43240	44240
Ladder section 2.80 m (without wall brackets)	41241	42241	43241	44241
Ladder section 3.64 m (without wall brackets)	41242	42242	43242	44242
Stile extension, one-side, straight	43243 1)	43243 1)	43243	44243
Back hoop Ø 700 mm	41244	42244	43244	44244
Back strap, length 1400 mm	41245	42245	43245	44245
Wall bracket, rigid, stand-off 200 mm	43257 1)	43257 <sup>1)</sup>	43257	44257

#### Standard lengths/equipment

Version		Anodised aluminium	Natural aluminium	Galvanised steel	Stainless steel V4A 23	Parts list						
Access heights up to m	Ladder length incl. stile extension, m	Order No.	Order No.	Order No.	Order No.	600 mm × 1.96 m	600 mm × 2.80 m	600 mm × 3.64 m	Extension rods	Wall anchor, rigid	Back hoop	Backstrap
4.80	5.90	58148	58248	58348	58448	1	1	-	2	4	-	-
5.60	6.70	58157	58257	58357	58457	-	2	-	2	4	4	15
6.50	7.60	58165	58265	58365	58465	-	1	1	2	4	5	20
7.40	8.50	58174	58274	58374	58474	-	-	2	2	4	5	20
8.50	9.60	58185	58285	58385	58485	-	3	-	2	6	6	25
9.60	10.70	58196	58296	58396	58496	2	2	-	2	8	7	30

<sup>1)</sup> Galvanised steel 2) Delivery time on request

# **Multi-section fixed ladder systems**

Multi-section access solution with crossover platform for buildings and machinery.

- For permanent mounting on buildings either for maintenance in accordance with DIN 18 799-1 or as an emergency ladder system in accordance with DIN 14 094-1 or as machine access steps in accordance with DIN EN ISO 14 122-4.
- With safety cage.
- Ladder width: 520 mm.
- Wall brackets with various wall stand-offs up to 600 mm can be selected.
- The max. distance between the individual wall brackets is 2.00 m. Each ladder section must be mounted with at least 2 wall brackets.
- Safety barriers, access protection and platforms can be selected to suit individual requirements.
- We can also produce fixed-ladder designs that differ from the standard specification on request.

Plugs and screws/bolts for wall mounting are not included in the scope of delivery.

The prices for double-section systems are calculated as follows: wall bracket in the form of a U-bar, 200 mm rigid, straight stile extensions on both sides, crossover platform, incl. safety cage in accordance with DIN 18 799-1.

In the case of other requirements, please use our vertical ladder planning system.

Further details at www.accessladder.zarges.com



Overview of single parts	Anodised aluminium	Natural aluminium	Galvanised steel	Stainless steel V4A (1.4571) <sup>2)</sup>
	Order No.	Order No.	Order No.	Order No.
Ladder section 1.96 m (without wall brackets)	41240	42240	43240	44240
Ladder section 2.80 m (without wall brackets)	41241	42241	43241	44241
Ladder section 3.64 m (without wall brackets)	41242	42242	43242	44242
Stile extension, one-side, straight	43243 <sup>3)</sup>	43243 <sup>3)</sup>	43243	44243
Back hoop ∅ 700 mm	41244	42244	43244	44244
Back strap, length 1400 mm	41245	42245	43245	44245
Back hoop for offset version	41247	42247	43247	44247
Wall bracket, rigid, stand-off 200 mm	43257 <sup>3)</sup>	432573)	43257	44257
Crossover platform	43266 <sup>3)</sup>	43266 <sup>3)</sup>	43266	44266

#### Standard lengths/equipment

Version		Anodised aluminium	Natural aluminium	Galvanised steel	Stainless steel V4A 2)					Parts list				
Access heights up to m	Ladder length incl. stile extension, m	Order No.	Order No.	Order No.	Order No.	Ladder section 1.96 m	Ladder section 2.80 m	Ladder section 3.64 m	Stile extension	Wall anchor, rigid	Backhoop	Backstrap	Back hoop 1)	Crossover platform
10.70	11.80	58507	58607	58707	58807	-	3	1	2	8	7	35	2	1
11.80	12.90	58518	58618	58718	58818	-	1	3	2	8	8	40	2	1
12.60	13.70	58526	58626	58726	58826	-	5	-	2	10	8	40	2	1
13.80	14.90	58538	58638	58738	58838	4	-	2	2	12	9	45	2	1
14.90	16.00	58549	58649	58749	58849	1	-	4	2	10	10	50	2	1
15.70	16.80	58557	58657	58757	58857	-	1	4	2	10	11	55	2	1
16.80	17.90	58568	58668	58768	58868	-	-	5	2	10	11	55	2	1
18.00	19.10	58580	58680	58780	58880	-	3	3	2	12	12	60	2	1
19.10	20.20	58591	58691	58791	58891	3	-	4	2	14	13	65	2	1

<sup>1)</sup> for offset version 2) Delivery time on request 3) Galvanised steel



# Fixed ladders, anodised and natural

#### aluminium

Ladder width: 520 mm.

Intervals between rungs: 280 mm. Dimensions of stile:  $60 \text{ mm} \times 25 \text{ mm}$ .

Dimensions of square rung:

 $30 \text{ mm} \times 30 \text{ mm}$ .

The scope of delivery includes: two plastic ladder connectors (Order No. 43239) for

each ladder.

Material	Length m	Number of rungs	Weight kg	Order No.
Anodised aluminium	1.12	4	2.5	41286
Anodised aluminium	1.96	7	4.2	41240
Anodised aluminium	2.80	10	6.2	41241
Anodised aluminium	3.64	13	8.0	41242
Natural aluminium	1.12	4	2.5	42286
Natural aluminium	1.96	7	4.2	42240
Natural aluminium	2.80	10	6.2	42241
Natural aluminium	3.64	13	8.0	42242



#### Fixed ladders, steel and stainless steel

Ladder width: 520 mm.

Intervals between rungs: 280 mm. Dimensions of stile: 60 mm × 25 mm. Dimensions of the perforated rung:

 $30 \text{ mm} \times 30 \text{ mm}$ .

Included in the scope of delivery: two plastic ladder connectors (Order No. 43239) for each steel ladder; two external stainless steel connectors (Order No. 44239) for each stainless steel ladder.

Material	Length m	Number of rungs	Weight kg	Order No.
galvanised steel	1.12	4	6.7	43286
galvanised steel	1.96	7	13.2	43240
galvanised steel	2.80	10	19.2	43241
galvanised steel	3.64	13	24.4	43242
stainless steel	1.12	4	6.7	44286
stainless steel	1.96	7	13.2	44240
stainless steel	2.80	10	19.2	44241
stainless steel	3.64	13	24.4	44242



### Ladder connector, plastic

Internally supported plastic ladder connector.

Fits fixed ladders made from aluminium and galvanised steel with stile dimensions  $60 \text{ mm} \times 25 \text{ mm}$ . 1 set = 2 pcs.

Material	Weight kg	Order No.
plastic	0.3	43239



# Ladder connector, stainless steel

Externally supported ladder connector made from stainless steel V4A. Fits stainless steel fixed ladders with stile dimensions  $60 \text{ mm} \times 25 \text{ mm}$ . 1 set = 2 pcs.

Material	Weight kg	Order No.
stainless steel	0.6	44239

# Wall bracket (U-shaped)



The distance between the wall brackets is max. 2.00 m. But each ladder section must be mounted with at least 2 wall brackets. Kit statics available. Larger wall stand-offs on request.



# Wall bracket, U-shaped, rigid

For 200 mm stand-off. Hole spacing: 332 mm. Overall width, bar: 532 mm.

Material	Weight kg	Order No.
galvanised steel	4.6	43257
stainless steel	4.6	44257

# Wall bracket (U-shaped)

Material	Weight kg	Order No.	
galvanised steel	5.9	43258	
stainless steel	5.9	44258	

Wall bracket, U-shaped, adjustable

Adjustable for stand-offs of 200 to 250 mm.

Hole spacing: 332 mm. Overall width, bar: 532 mm.



Material	Weight kg	Order No.
galvanised steel	6.6	43259
stainless steel	6.6	44259

Wall bracket, U-shaped, adjustable

Adjustable for stand-offs of 250 to

350 mm.

Hole spacing: 332 mm. Overall width, bar: 532 mm.



Material	Weight kg	Order No.
galvanised steel	13.8	43260
stainless steel	13.8	44260

Wall bracket, U-shaped, adjustable

Adjustable for stand-offs of 400 to 600 mm. Incl. transverse bracing and transverse

support.

Hole spacing, bar: 332 mm. Hole spacing, supports: 577 mm. Overall width, bar: 622 mm.



# Wall brackets, single

Note:

The distance between the wall brackets is max. 2.00 m. But each ladder section must be mounted with at least 4 wall brackets. A separate static calculation will be required.

Material	Weight kg	Order No.	
galvanised steel	1.2	43249	
stainless steel	1.2	44249	

Wall bracket, rigid

For 200 mm stand-off. Axle dimension, centre of drilled hole 625 mm.



Material	Weight kg	Order No.
galvanised steel	1.4	43250
stainless steel	1.4	44250

Wall bracket, adjustable

Adjustable from 150 to 200 mm. Axle dimension, centre of drilled hole 630 mm.



Material	Weight kg	Order No.
galvanised steel	1.5	43252
stainless steel	1.5	44252

Wall bracket, adjustable

Adjustable from 200 to 275 mm. Axle dimension, centre of drilled hole 630 mm.



# Wall brackets



# Wall bracket, adjustable

Adjustable from 275 to 375 mm. Axle dimension, centre of drilled hole 420 mm.

Material	Weight kg	Order No.
galvanised steel	1.3	43251
stainless steel	1.3	44251

# Floor mounting



# **Ground plate**

For attaching the fixed ladder to the floor.

Base plate: 120 mm × 120 mm.

Height: 200 mm.

Material	Weight kg	Order No.
galvanised steel	1.0	43253
stainless steel	1.0	44253

# Top entry/exit

Note:

Two stiles/guardrails are required per entrance/exit as standard. Prices per stile/guardrail.



# Stile extension, straight

Dimensions of stile: 60 mm  $\times$  25 mm. Total length:  $\emptyset$  1,700 mm. Utilisable length: 1,370 mm.

Material	Weight kg	Order No.
galvanised steel	4.7	43243
stainless steel	4.7	44243



# Stile extension, angled

Dimensions of stile:  $60 \text{ mm} \times 25 \text{ mm}$ .

Total length: Ø 1,700 mm. Projection: 500 mm. Utilisable length: 1,380 mm.

Material	Weight kg	Order No.	
galvanised steel	7.0	43049	
stainless steel	7.0	44049	



# Landing rail

Dimensions of stile: 60 mm × 25 mm. Length: approx. 1,380 mm with floor bracket

Only in combination with Order Nos. 43243 and 44243 (stile extension, straight).

Material	Weight kg	Order No.
galvanised steel	4.6	43248
stainless steel	4.6	44248

# Top entry/exit

Material	For stiles mm	Dimension mm	Weight kg	Order No.
stainless steel	60 × 25	Ø 44	5.1	47215

Access aid, retractable

For mounting to side of ladder stile. Can also be used on both sides. Length: 1,600 mm.



Material	Length mm	Weight kg	Order No.
Anodised aluminium	800	21.4	41181
Natural aluminium	800	22.0	42181
galvanised steel	800	46.0	43181
stainless steel	800	46.0	44181
galvanised steel	1000	53.0	43180
galvanised steel	1200	61.0	43179

# Landing with crossover

Galvanised open grid surface, 800 mm to 1,200 mm deep, 600 mm wide.

Double-sided railings.

Exit ladder 0.98 m long, to be cut exactly to length by the customer.

We recommend ground plates or adjustable wall brackets to fix the exit ladder.

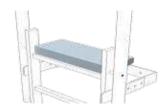
Order Nos. 43180 and 43179 only recommended for maintenance ladders.



Material	Weight kg	Depth mm	Order No.
Aluminium	1.4	150	40945
galvanised steel	2.8	150	43284
stainless steel	2.8	150	44254
galvanised steel	4.4	200	43285

# Exit step

For extending the area of the top rung. Tread width: 520 mm.



# Safety cage

Material	Weight kg	Order No.
Anodised aluminium	2.3	41244
Natural aluminium	2.3	42244
galvanised steel	4.0	43244
stainless steel	4.0	44244

Back hoop

 $\varnothing$  700 mm.

Hoop height: 80 mm.



Material	Weight kg	Order No.
Anodised aluminium	2.0	41287
Natural aluminium	2.0	42287
galvanised steel	3.0	43287
stainless steel	3.0	44287

3/4-back hoop for lateral exit

 $\emptyset$  700 mm.

Hoop height: 80 mm.





# Back hoop for offset version

Total width: 1,340 mm. Hoop height: 80 mm.

Material	Weight kg	Order No.
Anodised aluminium	1.8	41247
Natural aluminium	1.2	42247
galvanised steel	2.4	43247
stainless steel	2.4	44247



# Back strap

Length: 1,400 mm. Width: 66 mm.

Material	Weight kg	Order No.
Anodised aluminium	0.9	41245
Natural aluminium	0.9	42245
galvanised steel	2.2	43245
stainless steel	2.2	44245

# Safety barriers



Safety barriers with gravity lock, single-arm version

Self-closing by means of gravity lock. With red coating.

Material	Weight kg	Order No.
galvanised steel	2.2	43500
stainless steel	2.2	44520



Safety barriers with spring mechanism, single-arm version

Self-closing by means of concealed spring mechanism.
With red coating.

Material	Weight kg	Order No.
galvanised steel	3.0	43501
stainless steel	3.0	44521



# Double safety barrier

Self-closing by means of concealed spring mechanism in acc. with DIN EN ISO 14 122-4.

Height: 630 mm.

Material	Weight kg	Order No.
galvanised steel	5.6	43502
stainless steel	5.6	44522

# Access protection for maintenance ladders

Note:

Access only possible from below.

ĺ	Material	Weight kg	Order No.
	galvanised steel	21.0	43498

Security door for maintenance ladders

Concealed hinges, sheet metal planking.
Fastening plugs at top.
Lockable.



Material	Weight kg	Order No.
galvanised steel	17.0	43255
stainless steel	17.0	44255

#### Rest platform

Hinged platform, can be added later in any position.

Can be locked with a lock fitted on site.



Material	length m		Weight kg	Order No.
Aluminium	3.18	2.44	6.6	41445

### Base ladder

Can be suspended with integrated hook. Incl. cable lock.



# Access protection for escape ladders

Note:

Access only possible from above.

Material	Ladder length m	Utilisable length m	Weight kg	Order No.
Aluminium	3.20	2.50	8.6	42446

**Emergency exit ladder** 

Can be used from heights of 5.60 m With emergency operation via a red step bar.

Appropriate safety measures must be taken in the drop area of the ladder.



Material	Weight kg	Order No.
galvanised steel	15.0	43265

**Swing-out access protection** 

Operation via footpedal.

Opening to the side via concealed spring mechanism.

Emergency operation in accordance with DIN 14 094-1.



# **Access protection**



#### Security door

Operation via footpedal.
Concealed hinges, sheet metal planking.
Fastening plugs at top.
Emergancy operation in accordance with

. actorming prage at top.
Emergency operation in accordance with
DIN 14 094-1.

Material	Weight kg	Order No.
galvanised steel	24.0	43499



# Security door with fixed side parts

As access protection, can be opened from the inside with a handbolt. With emergency unlocking device for firefighters.

Material	Weight kg	Order No.	
galvanised steel	62.6	43497	

#### **Platforms**

Note:

For side entry to / exit from the fixed ladder. Can be used to the left or right of the fixed ladder.



#### **Exit platform**

Open grid surface and 2 wall brackets. Guardrail on one side and at one end. Distributed load 3.5 kN/m². Concentrated load 1.5 kN.

Material	Size W × D mm	Weight kg	Order No.
Galvanised steel	800 × 860	75.0	43270
Galvanised steel	940 × 1000	86.0	43275
stainless steel	800 × 860	75.0	44270
stainless steel	940 × 1000	86.0	44325



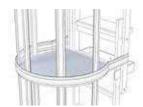
# **Extension platform**

Open grid surface and 1 wall bracket. Guardrail on longitudinal side incl. railing link.

Extension platforms can be bolted together as required.

Distributed load  $3.5 \text{ kN/m}^2$ . Concentrated load 1.5 kN.

Material	Size W × D mm	Weight kg	Order No.
Galvanised ste	el 500 × 860	50.0	43272
Galvanised ste	el 800 × 860	60.0	43271
Galvanised ste	el 500 × 1000	52.0	43277
Galvanised ste	el 940 × 1000	74.0	43276
stainless stee	el 500 × 860	50.0	44272
stainless stee	el 800 × 860	60.0	44271
stainless stee	el 500 × 1000	52.0	44327
stainless stee	el 940 × 1000	74.0	44326



#### **Rest platform**

Hinged platform, can be added later in any position.

Special permit can be obtained allowing use as an intermediate platform with single-section fixed ladders with safety cage over 10.0 m/6.0 m (on machines).

Material	Weight kg	Order No.
galvanised steel	17.0	43255
stainless steel	17.0	44255

# **Platforms**

Material	Depth mm	Weight kg	Order No.
Galvanised steel	140	8.0	43280
Galvanised steel	160	9.0	43281
stainless steel	140	8.0	44280
stainless steel	160	9.0	44281

#### Spacer segments

For basic and extension platforms, for bridging thermal insulation.
Fits platform plates of the standard platforms.



Material	Weight kg	Order No.
galvanised steel	1.0	43320
stainless steel	1.0	44320

#### Connecting brace

To minimise the gap between platform guardrail and safety cage. Length: 1,200 mm.



# **Crossovers**

Note:

For crossover between two ladder sections in accordance with standards.

Material	Weight kg	Order No.
galvanised steel	20.0	43266
stainless steel	20.0	44266

Crossover platform (octagonal)

Standard platform for crossover between two ladder sections.
Open grid surface, octagonal, dimensions L × W 700 mm × 700 mm.



Material	Size W × D mm	Weight kg	Order No.
galvanised steel	800 × 860	73.0	43310
stainless steel	800 × 860	73.0	44310
galvanised steel	940 × 1000	77.0	43315
stainless steel	940 × 1000	77.0	44315

# **Crossover landing**

Only in combination with the octagonal crossover platform (Order No. 43266 or 44266) if the crossover is to be larger than 700 mm. Open grid surface and 2 wall brackets.

Guardrail on longitudinal side incl. railing link.

Distributed load  $3.5 \, kN/m^2$ . Concentrated load  $1.5 \, kN$ .



# Fall arrester system for double-stile fixed ladders

Note:

On ZARGES fixed ladders in accordance with DIN 18 799-1 and DIN EN ISO 14 122-4.



Arrester rail with jointing piece
Top-hat profile, perforated.

Material	Length m	Weight kg	Order No.
galvanised steel	1.40	5.0	47530
galvanised steel	1.96	7.0	47531
galvanised steel	2.80	10.0	47532
stainless steel	1.40	5.0	47550
stainless steel	1.96	7.0	47551
stainless steel	2.80	10.0	47552



# Rung bracket

For mounting arrester rails in the centre of ladder rungs.

For inside ladder widths of at least 400 mm. Attachment at intervals of at least 1.68 m required.

Concentrated load 1.5 kN.

Material	Weight kg	Order No.
stainless steel	0.2	47556



# Double safety barrier with integrated arrester rail

Self-closing thanks to concealed spring mechanism, with preinstalled fall arrester rail.

Two self-locking entry and exit catches by means of gravity.

Necessary accessories:

Stile extensions, straight.

Recommendation: Exit step for extending

the area of the top rung.

Material	Weight kg	Order No.
galvanised steel	10.0	43504
stainless steel	10.0	44495



# Folding rest platform

Stipulated for ladders over 10.00 m high. For attachment to fixed ladders in combination with centre-mounted arrester rail.

Material	Weight kg	Order No.
galvanised steel	4.5	47539
stainless steel	3.7	47559

#### Personal protective equipment (PPE) for fall arrester systems

Note:

You can find out more about the inspection of safety slide mechanisms starting on page 294.

Material	Weight kg	Order No.
Stainless steel and aluminium	1.3	47562
stainless steel	1.6	47572

ZARGES safety slide mechanism

Safety-tested to DIN EN 353-1. With karabiner and shackle. Smooth-running, round shape.



Material	Weight kg	Order No.
Stainless steel and aluminium	1.2	47588

ZARGES safety slide mechanism ZAST-Optiflex-R4

Safety-tested to DIN EN 353-1, patented. Flexible application, as the safety slide mechanism can be fitted at and removed from any position on the fall arrester system.



Material	Weight kg	Order No.
plastic	1.5	47524

Safety harness

Conforms to DIN EN 361, Type A.



Material	Weight kg	Order No.
Ripstop nylon	0.6	47525

Rucksack with carrying handle

For optimum transport and protection of the PPE.





**ZARGES shaft equipment –** the high-quality range for civil and environmental engineering.

# Shaft equipment – quality all the way down and all the way up.

10
SHAFT EQUIPMENT

ZARGES offers high-quality ladder systems for civil and environmental engineering, especially developed to meet the high requirements in these applications. Both reliable and economical solutions, for example for access in sewage plants, shaft constructions or drainage shafts.

Depending on the specific requirements, the materials used are hot-dip galvanised steel, GRP or stainless steel V4A. All shaft ladders comply with standard DIN EN 14 396, while the shaft access aids fulfil the requirements in accordance with DIN 19 572.

Rounding off the programme, ZARGES offers a corresponding fall arrester system for all shaft ladders – both for double-stile shaft ladders and for single-stile ladders. Retrofitting to ladders not supplied by ZARGES is also possible. In addition to the corresponding rails, brackets and mounts, ZARGES also offers safety slide mechanisms as personal protective equipment.

In the field of civil engineering, the range also includes shaft and well covers in various designs for wells, spring enclosures, elevated tanks and other supply and disposal constructions.



#### Rotatable access aid:

Ergonomic and safe.

More on page 303.



	Contents Section 10	from page
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	Single parts, shaft equip- ment	<u>298</u>
	Shaft and well covers	<u>304</u>
	Inspection Fall arrester systems	<u>308</u>



A fall arrester device is mandatory in the case of possible falling heights in excess of 5.00 m. From an inside width of 300 mm upwards, the rail is attached to the ladder stile. From an inside width of 400 mm upwards, the rail is attached in centred position on the rungs. Assembly combinations for further lengths on request.



#### Shaft ladder, steel, internal width 300 mm

Internal ladder width: 300 mm.
Overall ladder width: 340 mm.
Intervals between rungs: 280 mm.
Dimensions of stile: 50 mm × 20 mm.

Dimensions of the perforated rung: 29 mm × 29 mm.

Material: Hot-dip galvanised steel.

Material		Galvanised steel, internal width 300 mm										
Length m	1.12	1.40	1.68	1.96	2.24	2.52	2.80	3.08	3.36	3.64	3.92	4.20
Number of rungs	4	5	6	7	8	9	10	11	12	13	14	15
Weight kg	5.2	6.6	8.0	9.4	10.8	12.2	13.6	15.0	16.4	17.8	19.2	20.6
Order No.	47321	47322	47323	47324	47325	47326	47327	47328	47329	47623	47624	47625

#### Shaft ladder, steel, internal width 400 mm

Internal ladder width: 400 mm.
Overall ladder width: 440 mm.
Intervals between rungs: 280 mm.
Dimensions of stile: 50 mm × 20 mm.

Dimensions of the perforated rung: 29 mm × 29 mm.

Material: Hot-dip galvanised steel.



Material		Galvanised steel, internal width 400 mm										
Length m	1.12	1.40	1.68	1.96	2.24	2.52	2.80	3.08	3.36	3.64	3.92	4.20
Number of rungs	4	5	6	7	8	9	10	11	12	13	14	15
Weight kg	5.7	7.3	8.9	10.5	12.1	13.7	15.3	16.9	18.5	20.1	21.7	23.3
Order No.	47331	47332	47333	47334	47335	47336	47337	47338	47339	47633	47634	47635



#### Ladder connector, plastic

Internally supported ladder connector. 1 set = 2 pcs.

Material	For stiles mm	Fits	Weight kg	Order No.
plastic	50 × 20	Steel ladder	0.3	47700



#### **ZARGES** tip

## Material overview: When do I use which material?

- Steel: Most inexpensive version; cannot be used where there is exposure to aggressive substances, e. g. chlorine, sewage.
- GRP: where there is electronic equipment (prevents sparking), resistant to a certain degree (to corrosion, acid, water).
- Stainless steel: always for drinkingwater applications, sewage plants and where there is seawater (not suitable for continuous use).

#### When do I use which width?

- Dependent on the size of the shaft.
- The wider the ladder, the more comfortable it is to use.

#### When do I use which attachment method?

- Rigid wall brackets are used for 90% of all applications (in rectangular shafts).
- Only adjustable if there is an offset in the shaft.
- Floor mounting is not mandatory.



#### Wall brackets for steel ladders

Note:

2 sets of wall brackets are required for ladders with 4-9 rungs, 3 sets of wall brackets for ladders with 10-15 rungs, 5 sets of wall brackets for ladders with 16-24 rungs. 1 set = 2 pcs. (right/left). Attachment materials (dowels etc.) are not included in the scope of delivery.

Material	For stiles mm	Fits	Weight kg	Order No.	
galvanised steel	50 × 20	Steel ladder	0.8	47301	

Wall bracket, rigid

For 150 mm stand-off. 1 set = 2 pcs.



	Material	For stiles mm	Fits	Weight kg	Order No.
9	galvanised steel	50 × 20	Steel ladder	1.6	47302

Wall bracket, adjustable

Adjustable for stand-offs of 150 mm to 300 mm.

1 set = 2 pcs.



Material	For stiles mm	Fits	Weight kg	Order No.
galvanised steel	50 × 20	Steel ladder	0.9	47314

Wall bracket, adjustable

Adjustable for stand-offs of 150 mm to 190 mm. 1 set = 2 pcs.



#### Floor mounting

Note:

Attachment materials (dowels etc.) are not included in the scope of delivery. 1 set = 2 pcs.

Material	For stiles mm	Fits	Weight kg	Order No.
galvanised steel	50 × 20	Steel ladder	0.9	47311

**Ground plate** 

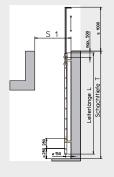
For attaching the shaft ladder to the floor.

1 set = 2 pcs.



Which ladder length does the customer need?

- Dependent on the depth of the shaft (see drawing of exact dimensions on the right).
- In general: inside depth > 5 m: use of arrester rail, e.g.: shaft depth: 2.50 m Ladder: 2.24 m shaft depth: 2.00 m Ladder: 1.68 m



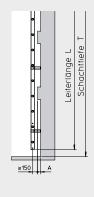
How many wall brackets are needed?

■ For 4–9 rungs: 2 sets

■ For 10-15 rungs: 3 sets

■ For 16-24 rungs: 5 sets

 The maximum distance of 1.68 m between the wall brackets must not be exceeded.



#### Shaft ladders, stainless steel

Note:

A fall arrester device is mandatory in the case of possible falling heights in excess of 5.00 m. From an inside width of 300 mm upwards, the rail is attached to the ladder stile. From an inside width of 400 mm upwards, the rail is attached in centred position on the rungs. Assembly combinations for further lengths on request.



#### Shaft ladder, stainless steel, internal width 300 mm

 $\begin{array}{lll} \text{Internal ladder width:} & 300 \text{ mm.} \\ \text{Overall ladder width:} & 340 \text{ mm.} \\ \text{Intervals between rungs:} & 280 \text{ mm.} \\ \text{Dimensions of stile:} 50 \text{ mm} \times 20 \text{ mm.} \end{array}$ 

Dimensions of the perforated rung: 29 mm × 29 mm.

Material: Stainless steel V4A (1.4571)

Material		Stainless steel, internal width 300 mm										
Length m	1.12	1.40	1.68	1.96	2.24	2.52	2.80	3.08	3.36	3.64	3.92	4.20
Number of rungs	4	5	6	7	8	9	10	11	12	13	14	15
Weight kg	5.2	6.6	8.0	9.4	10.8	12.2	13.6	15.0	16.4	17.8	19.2	20.6
Order No.	47341	47342	47343	47344	47345	47346	47347	47348	47349	47643	47644	47645

#### Shaft ladder, stainless steel, internal width 400 mm

 $\begin{array}{lll} \text{Internal ladder width:} & 400 \text{ mm.} \\ \text{Overall ladder width:} & 440 \text{ mm.} \\ \text{Intervals between rungs:} & 280 \text{ mm.} \\ \text{Dimensions of stile:} 50 \text{ mm} \times 20 \text{ mm.} \end{array}$ 

Dimensions of the perforated rung: 29 mm × 29 mm.

Material: Stainless steel V4A (1.4571)



Material		Stainless steel, internal width 400 mm										
Length m	1.12	1.40	1.68	1.96	2.24	2.52	2.80	3.08	3.36	3.64	3.92	4.20
Number of rungs	4	5	6	7	8	9	10	11	12	13	14	15
Weight kg	5.7	7.3	8.9	10.5	12.1	13.7	15.3	16.9	18.5	20.1	21.7	23.3
Order No.	47351	47352	47353	47354	47355	47356	47357	47358	47359	47653	47654	47655



#### Ladder connector, plastic

Internally supported ladder connector. 1 set = 2 pcs.

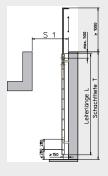
Material	For stiles mm	Fits	Weight kg	Order No.
plastic	50 × 20	V4A ladder	0.3	47700



#### **ZARGES** tip

Which ladder length does the customer need?

- Dependent on the depth of the shaft (see drawing of exact dimensions on the right).
- In general: inside depth > 5 m: use of arrester rail, e.g.: shaft depth: 2.50 m Ladder: 2.24 m shaft depth: 2.00 m Ladder: 1.68 m



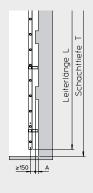
#### How many wall brackets are needed?

■ For 4–9 rungs: 2 sets

■ For 10-15 rungs: 3 sets

■ For 16-24 rungs: 5 sets

 The maximum spacing of 1.68 m must not be exceeded.



#### Wall brackets for stainless steel ladders

Note:

2 sets of wall brackets are required for ladders with 4–9 rungs, 3 sets of wall brackets for ladders with 10–15 rungs, 5 sets of wall brackets for ladders with 16–24 rungs. 1 set = 2 pcs. (right/left). Attachment materials (dowels etc.) are not included in the scope of delivery.

Material	For stiles mm	Fits	Weight kg	Order No.
stainless steel	50 × 20	V4A ladder	0.8	47304

Wall bracket, rigid

For 150 mm stand-off. 1 set = 2 pcs.



Material	For stiles mm	Fits	Weight kg	Order No.
stainless steel	50 × 20	V4A ladder	1.6	47305

Wall bracket, adjustable

Adjustable for stand-offs of 150 mm to 300 mm.

1 set = 2 pcs.



Material	For stiles mm	Fits	Weight kg	Order No.
stainless steel	50 × 20	V4A ladder	0.9	47315

Wall bracket, adjustable

Adjustable for stand-offs of 150 mm to 190 mm.

1 set = 2 pcs.



Material	For stiles mm	Fits	Weight kg	Order No.
stainless steel	50 × 20	V4A ladder	1.6	47610

Wall bracket, adjustable

Adjustable for stand-offs of 200 mm to 250 mm.

1 set = 2 pcs.



Material	For stiles mm	Fits	Weight kg	Order No.
stainless steel	50 × 20	V4A ladder	1.8	47612

Wall bracket, adjustable

Adjustable for stand-offs of 280 mm to 330 mm.

1 set = 2 pcs.



#### Floor mounting

Note:

Attachment materials (dowels etc.) are not included in the scope of delivery. 1 set = 2 pcs.

Material	For stiles mm	Fits	Weight kg	Order No.
stainless steel	50 × 20	V4A ladder	0.9	47312

**Ground plate** 

For attaching the shaft ladder to the floor. 1 set = 2 pcs.



#### Shaft ladders, GRP

Note:

A fall arrester device is mandatory in the case of possible falling heights in excess of 5.00 m. From an inside width of 300 mm upwards, the rail is attached to the ladder stile. From an inside width of 400 mm upwards, the rail is attached in centred position on the rungs. Assembly combinations for further lengths on request.



#### Shaft ladder, GRP, internal width 300 mm

Internal ladder width: 300 mm. Overall ladder width: 350 mm. Intervals between rungs: 280 mm. Dimensions of stile: 58 mm × 25 mm. Dimensions of non-slip GRP rung:

 $30 \text{ mm} \times 30 \text{ mm}$ .

Material: glass-fibre-reinforced plastic (GRP).

Material		GRP, internal width 300 mm										
Length m	1.12	1.40	1.68	1.96	2.24	2.52	2.80	3.08	3.36	3.64	3.92	4.20
Number of rungs	4	5	6	7	8	9	10	11	12	13	14	15
Weight kg	2.9	3.6	4.3	5.0	5.7	6.4	7.1	7.8	8.5	9.2	9.9	10.6
Order No.	47361	47362	47363	47364	47365	47366	47367	47368	47369	47663	47664	47665

#### Shaft ladder, GRP, internal width 400 mm

Internal ladder width: 400 mm. Overall ladder width: 450 mm. Intervals between rungs: 280 mm. Dimensions of stile: 58 mm × 25 mm. Dimensions of non-slip GRP rung:

 $30 \text{ mm} \times 30 \text{ mm}$ .

Material: glass-fibre-reinforced plastic (GRP).



Material					GRP	internal	width 40	10 mm				
Length m	1.12	1.40	1.68	1.96	2.24	2.52	2.80	3.08	3.36	3.64	3.92	4.20
Number of rungs	4	5	6	7	8	9	10	11	12	13	14	15
Weight kg	3.1	3.8	4.5	5.0	5.8	6.5	7.2	7.9	8.6	9.3	10.0	10.7
Order No.	47371	47372	47373	47374	47375	47376	47377	47378	47379	47673	47674	47675



#### Ladder connector, plastic

Internally supported ladder connector. 1 set = 2 pcs.

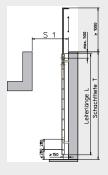
Material	For stiles mm	Fits	Weight kg	Order No.
plastic	58 × 25	GRP ladder	0.3	47706



#### **ZARGES** tip

Which ladder length does the customer

- Dependent on the depth of the shaft (see drawing of exact dimensions on the right).
- In general: inside depth > 5 m: use of arrester rail, e.g.: shaft depth: 2.50 m Ladder: 2.24 m shaft depth: 2.00 m Ladder: 1.68 m



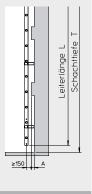
How many wall brackets are needed?

■ For 4–9 rungs: 2 sets

For 10-15 rungs: 3 sets

For 16-24 rungs: 5 sets

The maximum spacing of 1.68 m must not be exceeded.



#### Wall brackets for GRP ladders

Note:

2 sets of wall brackets are required for ladders with 4-9 rungs, 3 sets of wall brackets for ladders with 10-15 rungs, 5 sets of wall brackets for ladders with 16-24 rungs. 1 set = 2 pcs. (right/left). Attachment materials (dowels etc.) are not included in the scope of delivery.

Material	For stiles mm	Fits	Weight kg	Order No.
stainless steel	58 × 25	GRP ladder	0.8	47307

Wall bracket, rigid

For 150 mm stand-off. 1 set = 2 pcs.



Material	For stiles mm	Fits	Weight kg	Order No.
stainless steel	58 × 25	GRP ladder	1.6	47308

Wall bracket, adjustable

Adjustable for stand-offs of 150 mm to 300 mm.

1 set = 2 pcs.



Material	For stiles mm	Fits	Weight kg	Order No.
stainless steel	58 × 25	GRP ladder	0.9	47316

Wall bracket, adjustable

Adjustable for stand-offs of 150 mm to 190 mm.

1 set = 2 pcs.



Material	For stiles mm	Fits	Weight kg	Order No.
stainless steel	58 × 25	GRP ladder	1.6	47611

Wall bracket, adjustable

Adjustable for stand-offs of 200 mm to 250 mm.

1 set = 2 pcs.



Material	For stiles mm	Fits	Weight kg	Order No.
stainless steel	58 × 25	GRP ladder	1.8	47613

Wall bracket, adjustable

Adjustable for stand-offs of 280 mm to 330 mm.

1 set = 2 pcs.



#### Floor mounting

Note:

Attachment materials (dowels etc.) are not included in the scope of delivery. 1 set = 2 pcs.

Material	For stiles mm	Fits	Weight kg	Order No.
stainless steel	58 × 25	GRP ladder	0.9	47313

**Ground plate** 

For attaching the shaft ladder to the floor.

1 set = 2 pcs.



#### Access aids, transportable

Note:

Attachment materials (dowels etc.) are not included in the scope of delivery. BG test certificate.



#### Stay bar with T-shaped handle

Double-insulated handles. Lower auxiliary handles can be unscrewed. Only in combinations with sockets (see below).

Material	Length m	Weight kg	Order No.	
stainless steel	1.60	4.0	47205	



#### Stay bar with L-holder

Double-insulated handle.
Only in combinations with sockets (see below).

Material	Length m	Weight kg	Order No.
stainless steel	1.60	3.9	47267



#### Sockets

Only in combination with access aids, transportable (Order Nos. 47205 or 47267).

For wall mounting: spacing between drilled holes 320 mm.

Material	Material Assembly Wall stand-off type approx. mm		Weight kg	Order No.
Stainless steel	Wall	30	1.1	47206
galvanised steel	Wall	30	1.1	47260
Stainless steel	Wall	80	1.5	47261
Stainless steel	Wall	130	1.7	47262
Stainless steel	Rungs	-	1.1	47266





#### **Shaft entrance**

Peripheral push-in cage with entry rung and shut-off cable for shafts of Ø 600 mm-800 mm.
Integrated entry rung to bridge the gap to

the first step iron.

The cage also serves as a barrier railing preventing unauthorised access.

Material	Weight kg	Order No.
Aluminium	15.0	47232

#### Access aids, stationary

Note:

Attachment materials (dowels etc.) are not included in the scope of delivery.

Material	Length m	Dimension mm	Weight kg	Order No.
galvanised steel	1.60	45 × 45	1.1	47210
Stainless steel	1.60	Ø 44	1.1	47211

Access aid with safety handle

For attachment to masonry.
Can be lowered. With BG test certificate.
Scope of delivery:
1× stay bar and 1× socket.



Material	For ladder material	Stiles mm	Dimension mm	Weight kg	Order No.
galvanised steel	galvanised steel	50 × 20	45 × 45	5.8	47212
Stainless steel	Stainless steel	50 × 20	Ø 44	5.0	47213
Stainless steel	GFK	58 × 25	Ø 44	5.1	47214

#### Access aid with safety handle

For attachment to the ladder stile. Can be lowered. With BG test certificate. Scope of delivery:  $1 \times \text{stay}$  bar and  $1 \times \text{socket}$  incl. materials for attachment to the stile. Length approx. 1,600 mm.



Material	For ladder material	Inside width mm	Weight kg	Order No.
galvanised steel	galvanised steel	300	6.5	47233
galvanised steel	galvanised steel	400	6.8	47234
Stainless steel	stainless steel/GRP	300	6.7	47235
Stainless steel	stainless steel/GRP	400	6.9	47236

#### Access aid, double-stile

For attachment to the ladder. Can be lowered. Incl. attachment material. Length approx. 1,500 mm.



Material	Length mm	Weight kg	Order No.
galvanised steel	400	1.7	47216
galvanised steel	600	2.0	47218
stainless steel	400	1.7	47217
stainless steel	600	2.0	47219

#### Exit handle

Welded-on perforated plates at the ends.

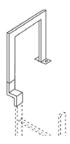


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Material	For ladder material	Depth mm	Weight kg	Order No.
galvanised steel	galvanised steel	250	3.0	47243
galvanised steel	galvanised steel	500	4.2	47226
stainless steel	stainless steel	250	3.0	47244
stainless steel	stainless steel	500	4.2	47227

#### Access rail

With offset connecting sleeve (1 x) and welded floor plate.
Height: approx. 1,100 mm
Clearance width is increased by 200 mm.



#### **Attachment**

Note:

Recommendation: For attachment of all access aids with wall mounting in concrete walls with a concrete quality of at least C25/30. Structural analysis must be performed on site.



Service Action to the Control of the

**Connecting anchor system** 

Consisting of: Anchor rod (incl. nuts and washer) and mortar cartridge

Material	Weight kg	Order No.
Stainless steel	0.2	47900



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#### Express anchor M12

Made from stainless steel, building-authority approved.

Material	Order No.
Stainless steel	47207

#### Single-stile ladders with fall arrester system in accordance with DIN EN 353-1

Note:

Recommendation: If the on-site space conditions do not permit the use of double-stile fixed ladders, it is also possible to use so-called single-stile ladders, on which the fall arrester system simultaneously forms the ladder stile (centrally located).



# Single-stile ladder with integrated arrester rail

Non-slip perforated rungs with end stops. Welded to the arrester rail. Jointing pieces between the individual parts of the ladder. Ladder width 370 mm.

Material	Length m	Weight kg	Order No.
galvanised steel	1.40	7.4	47533
galvanised steel	1.96	10.1	47534
galvanised steel	2.80	14.4	47535
Stainless steel	1.40	7.4	47553
Stainless steel	1.96	10.1	47554
Stainless steel	2.80	14.4	47555





#### Wall bracket, rigid

For 150 mm stand-off. Suitable for arrester rails and single-stile ladders.

Wall brackets are required at intervals of max. 1.12 m.

Material	Weight kg	Order No.
galvanised steel	1.2	47537
stainless steel	1.2	47557



#### Wall bracket, adjustable

Adjustable for stand-offs of 120 mm to 180 mm.

Suitable for arrester rails and single-stile ladders.

Wall brackets are required at intervals of max.  $1.12\ m.$ 

Material	Weight kg	Order No.
galvanised steel	1.6	47538
stainless steel	1.6	47558

#### Fall arrester systems in accordance with DIN EN 353-1 for double-stile ladders

Note:

A fall arrester device is mandatory in the case of possible falling heights in excess of 5.00 m. Attachment at intervals of at least 1.68 m required.

Material	Length m	Weight kg	Order No.
galvanised steel	1.40	5.0	47530
galvanised steel	1.96	7.0	47531
galvanised steel	2.80	10.0	47532
Stainless steel	1.40	5.0	47550
Stainless steel	1.96	7.0	47551
Stainless steel	2.80	10.0	47552

#### Arrester rail with jointing piece

To be mounted in the centre or at the side of the ladder.
Necessary accessories:
Rail mounting.



Material	Weight kg	Order No.
Stainless steel	0.2	47556

#### Rung bracket

For mounting arrester rails in the centre of ladder rungs.

For inside ladder widths of at least 400 mm.



Material	Stiles mm	Weight kg	Order No.
Stainless steel	50 × 20	0.4	47545
Stainless steel	58 × 25	0.4	47546

Rail mounting for ladder stile

For mounting arrester rails on the side of the ladder stile.





#### Personal protective equipment (PPE) for fall arrester systems

Note:

You can find out more about the inspection of safety slide mechanisms starting on page 309.



#### ZARGES safety slide mechanism

Safety-tested to DIN EN 353-1. With karabiner and shackle. Smooth-running, round shape.

Material	Weight kg	Order No.
Stainless steel and aluminium	1.3	47562
stainless steel	1.6	47572



# ZARGES safety slide mechanism ZAST Optiflex R4.

Safety-tested to DIN EN 353-1, patented. Flexible application, as the safety slide mechanism can be fitted at and removed from any position on the fall arrester system.

Material	Weight kg	Order No.
Stainless steel and aluminium	1.2	47588



#### Safety harness

Conforms to DIN EN 361, Type A.

Material	Weight kg	Order No.
Plastic	1.5	47524



#### Rucksack with carrying handle

For optimum transport and protection of the PPE.

Material	Weight kg	Order No.
Ripstop nylon	0.6	47525

#### Accessories for fall arrester systems in accordance with DIN EN 353-1

Material	Length m	Weight kg	Order No.
stainless steel	1.40	6.8	47561

#### Access aid

Plug-in and rotatable with safety handles and releasable catch at the top end.



Material	Weight kg	Order No.
stainless steel	1.1	47563

Pin for special handhold to fall arrester system

For push-on access aid, can be screwed onto arrester rail or single-stile ladder. Length: 25 cm.



Material	Weight kg	Order No.
galvanised steel	4.5	47539
stainless steel	3.7	47559

#### Folding rest platform

Stipulated for ladders over 10.00 m high. For attachment to single-stile and fixed ladders in combination with centremounted arrester rail.



Material	Version	Weight kg	Order No.
Stainless steel	Separable	0.25	47565
Stainless steel	Rigid	0.05	47564

Rail stop

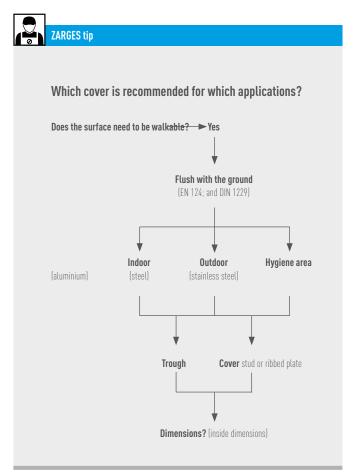
Releasable lock. Rigid stop. Applied above or below the arrester rail depending on use.







#### Aluminium shaft covers



Walkable or drivable shaft covers with choice of surface or cover plate for indoor and outdoor use.

Shaft covers with choice of surface are visually unobtrusive, as the customer fills in the cover trough on site with the same material as the remaining floor covering (slabs, tiles, carpet or paving stones).

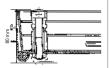
The shaft covers with cover plate are the ideal solution for lower loads of up to 1.5 t. The cover plate is made of ribbed, non-slip aluminium, steel stud plate, hot-dip galvanised or V2A (1.4301), pickled and passivated. The frame is made from hot-dip galvanised steel or V2A (1.4301) stainless steel section.

- Compliant with DIN EN 124 in conjunction with DIN 1229.
- Tapered profile-section construction with multiple bolted joints.
- Easy to open, no jamming.
- EPDM seal (petrol-resistant seal available on request).
- Odour-tight and impervious to surface water.
- Load with choice of surface: test force 125 kN (=12.5 t), only after cover trough has been filled by customer with B 45 concrete (grain 0-8).
- Load with cover plate: test force 15 kN (=1.5 t).
- Incl. lift-out handles (pair) made from stainless steel, comprising one self-lifting opening handle and one lift-out
- Hot-dip galvanised steel and V2A stainless steel covers also available for 400 kN (40.0 t) and deeper troughs on request.

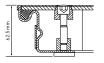
#### **Aluminium**

#### Installation flush with the ground in acc. with DIN EN 124 and DIN 1229









Material, cover	<b>Aluminium</b> recommen	ded for indoor applications*	Aluminium, ribbed reco	mmended for indoor applications*
Material, frame	<b>Aluminium</b> recommen	ded for indoor applications*	Galvanised steel recom	mended for indoor applications*
Type of cover	with trough <sup>1)</sup> fo	r choice of surface	with cov	er plate <sup>2)</sup>
Height in mm:	8	0	62	2.5
Trough depth in mm:	6	0		-
Inside shaft size mm × mm	Order No.	Outside dimensions mm	Order No.	Outside dimensions mm
300 × 300	47000	440 × 440	-	-
450 × 450	47001	590 × 590	-	-
500 × 500	47002	640 × 640	-	-
600 × 600	47004	740 × 740	47021	760 × 760
635 × 635	47005	775 × 775	-	-
800 × 800	47007	940 × 940	47023	960 × 960
1,000 × 1,000	47010	1,140 × 1,140	47024	1,160 × 1,160



<sup>\*</sup>Recommendation; other materials can also be used if requested by the customer. <sup>11</sup> Load class for attachment with B 45 concrete Class B 12.5 t. In the case of partial attachment, pedestrians only.



#### Spare parts

	Order No.	Order No.
Lift-out handles (pair)	800277	800277

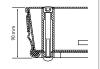
<sup>2)</sup> Load class A 1.5 t.

#### Shaft covers made from steel or stainless steel

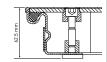
#### **Galvanised steel**

#### Installation flush with the ground in acc. with DIN EN 124 and DIN 1229









Material, cover	Galvanised steel recomm	mended for outdoor applications*	Stud plate, galvanised re	commended for outdoor applications*
Material, frame	Galvanised steel recomm	mended for outdoor applications*	Galvanised steel recom	mended for outdoor applications*
Type of cover	with trough <sup>1)</sup> fo	r choice of surface	with cov	er plate <sup>2)</sup>
Height in mm:	5	70	6:	2.5
Trough depth in mm:	8	30		-
Inside shaft size mm × mm	Order No.	Outside dimensions mm	Order No.	Outside dimensions mm
450 × 450	47030	570 × 570	-	-
500 × 500	47031	620 × 620	-	-
600 × 400	47032	720 × 520	47050	760 × 560
600 × 600	47033	720 × 720	47051	760 × 760
635 × 635	47034	755 × 755	-	-
800 × 600	47035	920 × 720	47052	960 × 760
800 × 800	47036	920 × 920	47053	960 × 960
1000 × 600	47037	1,120 × 720	-	-
1000 × 800	47038	1,120 × 920	-	-
1000 × 1000	47039	1,120 × 1,120	47054	1,160 × 1,160



#### Spare parts

	Order No.	Order No.
Lift-out handles (pair)	800276	800277

#### Stainless steel

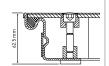
# Installation flush with the ground











Material, cover	Stainless steel, V2A	Stainless steel, V2A recommended for hygiene applications*		nended for hygiene applications*	
Material, frame	Stainless steel, V2A	Stainless steel, V2A recommended for hygiene applications*		Stainless steel V2A recommended for hygiene applications*	
Type of cover	with trough <sup>1</sup>	with trough <sup>1)</sup> for choice of surface		with cover plate <sup>2)</sup>	
Height in mm:		90		62.5	
Trough depth in mm:		80		-	
Inside shaft size mm × mm	Order No.	Outside dimensions mm	Order No.	Outside dimensions mm	
300 × 300	47060	420 × 420	-	-	
450 × 450	47061	570 × 570	-	-	
500 × 500	47062	620 × 620	-	-	
600 × 600	47064	720 × 720	47096	760 × 760	
635 × 635	47065	755 × 755	-	-	
800 × 800	47067	920 × 920	47098	960 × 960	
1 000 × 1 000	47070	1 120 × 1 120	47099	1 160 × 1 160	



<sup>\*</sup>Recommendation; other materials can also be used if requested by the customer.  $^{11}$  Load class for attachment with B 45 concrete Class B 12.5 t. In the case of partial attachment, pedestrians only.



#### Spare parts

	Order No.	Order No.
Lift-out handles (pair)	800276	800277

<sup>\*</sup>Recommendation; other materials can also be used if requested by the customer.

11 Load class for attachment with B 45 concrete Class B 12.5 t. In the case of partial attachment, pedestrians only.

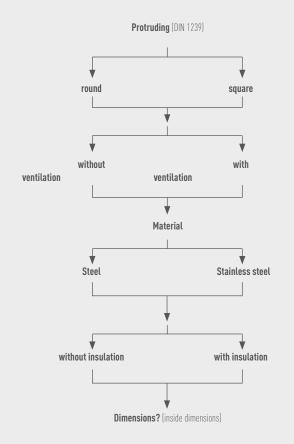
<sup>&</sup>lt;sup>2)</sup> Load class A 1.5 t.

<sup>&</sup>lt;sup>2]</sup> Load class A 1.5 t.



#### **ZARGES** tip

#### Which cover is recommended for which applications?



Shaft cover with overlapping cover as the economical solution for clean drinking water.

ZARGES well covers for outdoor applications are robust and hard-wearing and offer reliable protection for e. g. individual wells, spring enclosures, elevated tanks and other installations supplying drinking water.

They are also suitable for wastewater pumping stations, district heating stations, overflow basins for rainwater, water chambers etc.

- Compliant with DIN 1239.
- Lid made from sheet metal 2.5 mm thick, elevated in the centre, with internal transverse bracing.
- Material: hot-dip galvanised steel, V2A (1.4301) stainless steel or – on request – V4A (1.4571), pickled, passivated, glass-bead peened stainless steel finish.
- From 800 mm  $\times$  800 mm or  $\varnothing$  800 mm with gas pressure spring as standard.
- Self-closing fastener, hold-open device can only be released by hand.
- Sturdy, concealed hinges, can be replaced individually.
- EPDM seal on the underside of the lid provides reliable protection against amphibians, insects and vermin.
- Frame prepared for setting in concrete and attachment with dowels
- Insect screen in the ventilation chimney (can be removed for cleaning).
- Delivery includes stainless steel operating key.
- Optionally with panic lock released from below.



#### Accessories and single parts









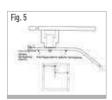
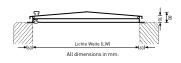


Fig.		Order No.
1	Steel profile cylinder lock as protection against unauthorised opening, incl. 3 keys	47109
2	Operating key, V2A (1.4301) stainless steel	47108
3	Brass cap for cover with lock	47106
4	Brass cap with securing pin	47107
5	Panic lock, V2A (1.4301) stainless steel	47105

#### **∦**₾ 10

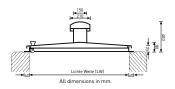
#### Well covers, round and square





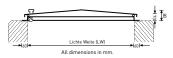
Shape		round shape without ventilation chimney			
Material		steel		Stainless steel, V2A	
Inside shaft size	Outside dimensions	without insulation	with insulation <sup>1)</sup>	without insulation	with insulation <sup>1)</sup>
mm	mm	Order No.	Order No.	Order No.	Order No.
Ø 625	Ø 745	47156	47162	47159	47165
Ø 800	Ø 920	47157	47163	47160	47166
Ø 1,000	Ø 1,120	47158	47164	47161	47167





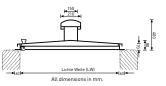
Shape		round shape with ventilation chimney			
Material		steel		Stainless steel, V2A	
Inside shaft size	Outside dimensions	without insulation	with insulation <sup>1)</sup>	without insulation	with insulation <sup>1)</sup>
mm	mm	Order No.	Order No.	Order No.	Order No.
Ø 625	Ø 745	47126	47132	47129	47135
Ø 800	Ø 920	47127	47133	47130	47136
Ø 1,000	Ø 1,120	47128	47134	47131	47137





Shape			square shape without ventilation chimney			
Material		st	steel		Stainless steel, V2A	
Inside shaft size	Outside dimensions	without insulation	with insulation <sup>1)</sup>	without insulation	with insulation <sup>1)</sup>	
mm × mm	mm × mm	Order No.	Order No.	Order No.	Order No.	
625 × 625	745 × 745	47140	47148	47144	47152	
800 × 800	920 × 920	47141	47149	47145	47153	
1,000 × 800	1,120 × 920	-	-	47181	47191	
1,000 × 1,000	1,120 × 1,120	47142	47150	47146	47154	
1,200 × 1,200	1,320 × 1,320	-	-	47147	47155	





Shape			square shape with ventilation chimney		
Material		Si	steel		steel, V2A
Inside shaft size	Outside dimensions	without insulation	with insulation <sup>1)</sup>	without insulation	with insulation <sup>1)</sup>
mm × mm	mm × mm	Order No.	Order No.	Order No.	Order No.
625 × 625	745 × 745	47110	47118	47114	47122
800 × 800	920 × 920	47111	47119	47115	47123
1,000 × 800	1,120 × 920	-	-	47180	47190
1,000 × 1,000	1,120 × 1,120	47112	47120	47116	47124
1,200 × 1,200	1,320 × 1,320	-	-	47117	47125



#### Safety slide mechanism testing

Annual inspection of ZARGES safety slide mechanisms.

Modification of your safety slide mechanisms is necessary if they were produced before Sept. 2012.

To ensure that these safety slide mechanisms are adjusted to conform with the new requirements of EN 353-1 and the new load class (Maximum load – person with equipment) of 136 kg, we offer modification including the annual inspection for each slide mechanism type.

#### The offer includes:

- 1. Modification to meet the new conformity requirements with all required parts.
- 2. Updating of the identification of the safety slide mechanism to show conformity with the new requirements and load class, incl. a copy of the new Declaration of Conformity.
- 3. Annual inspection.

It goes without saying that this work is performed by specially trained and correspondingly authorised ZARGES personnel.





Order No. 47588 Safety slide mechanism ZAST Optiflex



Order No. 47562, Order No. 47572 Safety slide mechanism ZAST aluminium-VA or VA



Order No. 47524 Safety harness in acc. with DIN EN 361

	For safety slide mechanism	Order No.
Annual inspection of safety slide mechanism (visual inspection and functional test)	all	910020
Replacement of shock-absorbing lanyard, karabiner and shackle <sup>1)</sup>	all	910021
Data sheets	all	290924
Modification of the safety slide mechanism to conform with the new requirements, incl. annual inspection Replacement of pawl, shock-absorbing lanyard, karabiner, shackle, stickers for left and right sides	47588	910022
Modification of the safety slide mechanism to conform with the new requirements, incl. annual inspection Replacement of pawl, shock-absorbing lanyard, karabiner, shackle, stickers for left and right sides	47562	910023
Modification of the safety slide mechanism to conform with the new requirements, incl. annual inspection Replacement of pawl, shock-absorbing lanyard, karabiner, shackle, stickers for left and right sides	47572	910024
Annual inspection of safety harness	47524	910025

<sup>1)</sup> Prescribed by law every 6 years.



# SPECIAL CONSTRUCTION

ZARGES is an experienced specialist when it comes to finding solutions for individual problems. Aluminium or steel, modular system or customer specific solution: we are your ideal partner for complex and challenging designs.



#### **Contents:**

11 Special solutions \_\_\_\_\_ from page 312



**ZARGES special construction –** tailor-made solutions for specific industries.

# Innovative ideas. Individual solutions. Maximum service.



ZARGES is an experienced specialist for a multitude of industrial sectors when it comes to finding solutions for individual problems. These solutions range from work platforms for plant and machinery, roof work scaffolding and maintenance platforms for rail vehicles, through to docking systems for the maintenance of aircraft. ZARGES also supplies complete internal fittings and service lifts to the wind power industry.

We are your ideal partner for complex and challenging designs.

# We can find the right solution for your needs, too!



For rail vehicles, buses and trucks



For industry and plant engineering



For aviation



For wind power





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# **ZARGES special solutions –** for containers and logistics.

Special containers made from aluminium are individual customer specific solutions designed and manufactured in close cooperation with the client to meet the requirements of the application in question.

From the K 470 in a special version right through to highly sophisticated special containers: no matter how exacting your requirements, ZARGES special containers rise to the challenge – with creative design and state-of-the-art production techniques.

The areas of application include the storage and transport of large equipment, components and other parts for air and space travel and industrial applications on land, by sea and air.



Special container with paint finish



#### Examples of our service and quality:

- Pressure-sealed construction.
- Waterproof design.
- Cargo protected against shocks and vibrations.
- Stackable containers.
- Recesses for fork lifts, lifting lugs.
- Paint and labelling to customer specifications.
- Customised options for built-in items, from one-offs to bulk materials.
- Environmental requirements to customer specifications.



Special container for aircraft components

**The right solution for any requirement** – from the K 470 in special sizes to large-scale special constructions right through to gastight special containers with integrated air-conditioning.



 ${\rm K\,470}$  in special version in special sizes



Stackable containers for large components



Tamper-proof special containers with electronic lock



Special container for the transport of satellite components. Gastight container for transportation in a nitrogen atmosphere. Equipped with active air-conditioning and insulation.



#### Water-vapour-proof bulk containers





Water-vapour-proof container being leak-tested with overpressure

Even the most versatile product range cannot meet all requirements. So our development and engineering department is on hand to create complex, customer- and application-specific solutions. With all our experience in aluminium processing, with the technological know-how of the market leader and the creativity of a supplier at home in almost every market sector, from chemicals to electronics to the automotive industry, we develop, manufacture and assemble state-of-the-art logistical innovations.

#### Details:

- Bulk containers and special containers for a wide variety of uses.
- Innovative details such as shock absorbers, mounts and handling aids for problemfree, ergonomic and safe handling.
- Tested and approved as hazardous goods packaging in accordance with UN requirements, i. e. can be transported on public roads.





Safety element rupture disc: protection in the event of a sudden pressure drop in the environment. Smaller pressure differences are compensated for by means of a pressure relief valve.



Mounting plate with anti-vibration suspension. Choose between rubber buffers and wire rope shock absorbers



#### **ZARGES** tip

We can also develop products for specific projects to your specifications.

Please contact us for further details: E-mail: special.systems@zarges.de

#### **Hood-type containers**



#### Details:

- Bottom section with flat mounting support for equipment.
- Fitted instruments can be operated with hood cover removed.
- Upper section of the hood can be optionally equipped with stacking corners or lifting equipment.
- Bottom section of the container can be fitted with a pallet as an option.
- Vibration damping via rubber buffers or wire rope elements.
- Additional protection via foam fittings.



Bottom section with ramp



Pallet substructure simplifies handling



Transportation lock in the bottom section



#### **ZARGES** tip

We can also develop products for specific projects to your specifications.

Please contact us for further details: E-mail: special.systems@zarges.de

#### **Shelf containers**





Special version with paint finish and Red Cross labelling. An additional locking device prevents the modular baskets sliding out when the lid is removed.



Two containers can be used as a desk, desktop section is stored in the lid for transport. Lid can be attached on the opposite side.

Leak-tight transportation container for the ZARGES modular system.

ZARGES shelf containers are transport and storage containers for first-aid equipment, tools, spares etc. used in military applications, emergency aid and ambulance and rescue services. They are designed to accommodate closed ISO standard modules/modular baskets. This means that you only need to order what you require, and empty containers can be easily replaced with full ones in the warehouse or at the scene of the emergency.

#### **Details:**

- High-strength, corrosion-resistant aluminium alloy.
- Profile-section frame with welded-on plates, protection class IP 65.
- Float-mounted locks.
- Separate lid, connection by means of 4 toggle locks.
- Stackable using stacking knobs and recesses.
- 2 recessed drop handles per end face.
- Peripheral seal to the front.
- Interior with 6 pairs of support rails for maximum 6 modular inserts.
- Outside dimensions (L × W × H, approx. mm) 685 × 465 × 775 incl. lid.
- Standard version without accessories.

#### **Accessories:**

Closed modules/modular baskets to ISO standard (L  $\times$  W: 600 mm  $\times$  400 mm, H: 50 mm, 100 mm, 200 mm).

Further details on the modular system starting on page 106.



#### **RFID** containers

Increased transparency and lower costs: using RFID systems from ZARGES.

During transport or stocktaking: ZARGES containers with Radio-Frequency Identification (RFID) provide more transparency and improved efficiency in logistics processes and make many things easier, quicker and more economical. And ZARGES containers can be equipped very flexibly and variably with RFID technology. The possibilities range from the simple storage of information to the global tracking of consignments via GPS or GSM.





### Profit from the advantages of ZARGES RFID.

#### **Concealed contactless reading**

Contents of pallets or enclosures can be read without optical contact with the read-out device.

#### Simultaneous reading of all codes

Any number of codes can be read simultaneously – for example, the entire content of a container.

#### Global data transfer in real time

Track the location and status of your consignment worldwide and with no time lag, thanks to the use of radio technology.













**Individual special solutions –** if you need more than the standard range, ZARGES offers individual special solutions for many industry sectors.

- Professional project planning together with our customers.
- Construction and calculation on the basis of your specific wishes and requirements.
- On-site assembly on request, including customer inspection prior to acceptance and training.



### Consulting:

- On-site consulting from ZARGES field service and project engineers.
- Online consulting via configurator.

### <u>Calculation and</u> <u>quotation:</u>

 Informative offer with all data and 3D CAD.

# Construction and approval:

 Models and drawings for approval.

### Assembly:

- On-site assembly by a ZARGES assembly team, including customer inspection prior to acceptance and training.
- Handover of technical documentation for use of the product.



# **ZARGES special solutions** for rail vehicles – your requirement is our challenge.

The path to your custom solution for accessing rail vehicles and buses:

#### Rail pit boards

- For all standard type of rail fastenings.
- Custom designed platform solutions.

#### **Access steps**

Custom versions for parallel or frontal access.

#### Front working platforms

- Access for working on the windscreen.
- Fits every type of vehicle due to adaptable contour and height adjustment.
- With optional two-way chassis for moving on workshop floors, rails or elevated tracks.

#### Side working platforms

- Access for working along the train, doors and windows.
- Different height and access versions.

#### **Roof working platforms**

- Single or two sided access for safe working on roofs.
- Choice of access version.

#### Portal roof working platform

- Connecting both sides including fall protection.
- Stationary or mobile.
- Access to the roof from both sides.
- Multiple working levels.
- Range of mobility options.

#### **Roof working stands**

For access to and work on the roof or in the roof area of complete rail vehicles or buses.

We supply customer-specific solutions – precisely geared to your vehicles and systems. Compliance with standards and regulations such as:

- DIN EN ISO 9001 Quality Management.
- DIN EN ISO 14122 Permanent means of access to machinery.
- DIN EN ISO 131-7 Platform ladders
- DIN EN 1090 Fabrication and assembly of steel and aluminium structures.
- Machinery directive 2006/42/EC



### Special solutions for rail vehicles

#### Rail pit boards and access steps



Mobile rail pit boards

- Range of platform surfaces.
- Landings.
- Pit access.
- Padding and optical markings.



#### ZARGES tip

**Questions on our special solutions** are answered at: rail@zarges.de



 $\label{lem:constraints} \mbox{Access solutions for diverse applications in maintenance as well as restoration}$ 



#### Stationary roof work scaffolding/assembly scaffolding



Roof work scaffolding for ICE



#### ZARGES tip

**Questions on our special solutions** are answered at: rail@zarges.de

- For access to and work on the roof or in the roof area of rail vehicles or buses.
- Reduces idle times due to short equipping times and maximum work safety.
- Optimum adaptation to contours with high variability.
- Depending on the hall layout, the scaffolding is divided into adapted individual segments (system modular kit).
- Assembly variants: raised on stands on the ground, suspended from the ceiling, using brackets or cantilever arm technology.



Roof work scaffolding, length approx. 1,300 m for 3 tracks



Roof work scaffolding, length approx. 920 m, for ICE maintenance  $\,$ 



Roof work scaffolding with approx. 600m length including material lifts, cranes and PPE



#### Mobile front, side and roof work platforms



Front working platforms with extension systems

- Mobile work platforms, adaptable to virtually all contours.
- With fixed platform height or height-adjustable.
- With or without struts for unhindered access to the vehicle.
- Special solutions for the front, side and roof area of rail vehicles or busses.



#### **ZARGES** tip

**Questions on our special solutions** are answered at: rail@zarges.de





Height-adjustable front work platform with rail-guided chassis



Modular working platform system for front and side access  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left($ 



Single sided roof work platform with foldable railing cage for the maintenance of an Abellio train





# **ZARGES special solutions** for aviation – your requirement is our challenge.



Compliance with standards and regulations such as:

- DIN EN ISO 131-7 Platform steps
- DIN EN 1915, Part 1 General requirements and Part 2 – Stability and strength
- DIN EN 12312, Part 5 Refuelling and Part 8 Maintenance stairs and platforms
- DIN EN ISO 9001 Quality Management
- DIN EN ISO 14122 Permanent means of access to machinery
- DIN EN 1090 Fabrication and assembly of steel and aluminium structures
- Machinery directive 2006/42/EC

### **Maintenance stairs**



Maintenance stairs with with intermediate platform for working on passenger door access

- With fixed height, height adjustable or folding.
- Universal usable or special adjusted for engine maintenance, access doors or similar.
- Flexible use for airplanes and helicopters.
- Special solutions on request.



### **ZARGES** tip

**Questions on our special solutions** are answered at: air@zarges.de





Secure access to passanger doors and cargo hatches



Engine stairs (UCAS). Narrow and brace-free designed for easier access



Efficient refuelling of airplanes. Standard build or custom-made

### **Docking systems**



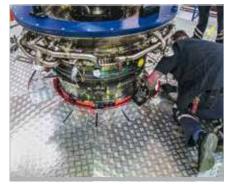
Docking system for Airbus A320



### **ZARGES** tip

**Questions on our special solutions** are answered at: air@zarges.de

- Access systems for maintenance work on planes or helicopters.
- Docking systems for work on the nose, fuselage, wings, engines, undercarriage or tail – individually adapted to the contours of the planes and respective tasks.
- The height of the individual maintenance and platform levels is adapted individually to the specific aircraft type.



Maintenance platform with extension system for turbine maintenance



Height adjustable Tail- and enginedock for CRJ900



Modular docking system for more savety and efficiency



### **Maintenance platforms**



Height adjustable maintenance platform for an EC 145

- Tailor-made working platforms for aircraft and helicopters.
- Height-adjustable, fixed in height, foldable or also stable and mobile.
- ZARGES working platforms are used for internal and outside applications.
- Individual equipment options.
- For civil, military or customer-specific applications.



### ZARGES tip

**Questions on our special solutions** are answered at: **air@zarges.de** 





Maintenance platform with electrical height adjustment



Complete docking system with height-adjustment for the S70



Complete docking solutions for A400M, C130 or similar



Every item of plant or machinery has its own specific contours and designs. This makes it difficult to find the right solution among standardised products.

Our special solutions for industry and plant engineering provide you with the necessary access systems for your machine as well as the appropriate work and maintenance platforms, fixed or mobile.





### Special solutions for industry and plant engineering

### Work and maintenance platforms



Working platform with step access.

- Mobile work platforms, adaptable to virtually all contours.
- With fixed platform height or height-adjustable.
- With or without struts for passing obstacles.
- Access via ladders or steps.
- Various platform and tread surfaces selectable, for example aluminium, serrated, steel open grid or wood covering.
- Can be equipped with various media such as electricity, water or compressed air.



### **ZARGES** tip

Questions on our special solutions are answered at:

special-solutions@zarges.de





Mobile work platform with adjustable height and quadruple-beam steps



Movable maintenance platform with electrical height-adjustment



Mobile test bench with sliding coffers and crane

### Access steps and stairs systems



Swivelling step solution with intermediate platform

- Selection of different step variants for fix or height-adjustable accesses.
- Swivelling and laterally movable steps.
- Steps with intermediate platforms.
- Ramps and level access.



### **ZARGES** tip

Questions on our special solutions are answered at: special-solutions@zarges.de



Special step with intermediate platform



Swivelling step with rope pull



Ramp access with flat incline





In addition to special constructions for the fields Packaging, Transportation and Access, we also offer innovative solutions for other industries. These range from complete wind-tower internals to special solutions for radar, navigation and radio link antennae or for carrying out repairs on cable cars. What all our solutions have in common – top quality, maximum customer benefit and premium service from the initial enquiry to final assembly.

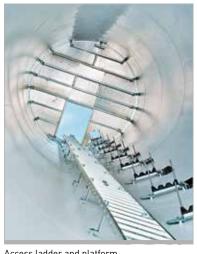
### Complete solutions for wind-tower internals.

The production of renewable energy from wind power is becoming increasingly important – which means that this future market is all the more dependent on innovation and continuous further development.

As a system supplier of complete wind-tower internals, including installation and commissioning, ZARGES is the market leader. Whether we are equipping one or one hundred wind towers, to your specifications or with products developed by ZARGES, you have found the right partner to supply the internals for your wind power plant.



Access steps



Access ladder and platform

### Wind-tower internals

### **Punctual**

Delivery times are increasingly important today. ZARGES sets itself and its global supply partners high standards when it comes to delivery quality and reliability. You, too, can benefit from these standards.

### Requirements

We meet your requirements while complying with all relevant safety regulations and standards.

### Everything from a single source

This philosophy is gaining in popularity worldwide. We implement your specifications or new developments in the form of ready-to-assemble extension elements – packaged by section and pre-assembled, with all connection elements on the component itself. This removes the need for cost-intensive procurement and saves you a considerable amount of time during installation.

### <u>Verification of customer</u> <u>requirements:</u>

- Revision status.
- Modifications
- Process changes
- Specific requirements
- New developments

# <u>Procurement and production:</u>

- Supplier identification
- Supplier development
- Quality assurance
- Schedule guarantee

### <u>Just-in-time delivery:</u>

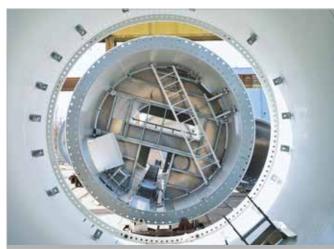
- Check for completeness
- Quality assurance
- Assembly-friendly packaging
- Transport management
- Export processing

# Supervising and assembly:

- Instruction of complete assembly team
- Installation
- Schedule guarantee
- Quality assurance

### Modular platform solutions











### **Expertise in wind-tower internals.**



Modular platforms

You receive not only complete wind-tower internals, but also assemblies and individual components supplied to the highest technical standards.

### Our competence in detail

- Fixed ladders including fall arresters, ladder holders and intermediate platforms.
- Cable tray, cable loop, cable brackets, covers etc.
- Service lift (NCV, CCV).
- Modular platform and guardrail systems.
- Access and bridging steps.
- Electro-technology equipment.
- Development and documentation.
- Logistics.



Logistics



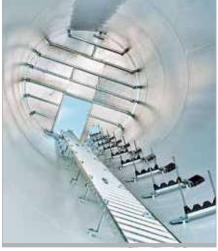
Access solutions



Service lift (NCV/CCV)



Modular guardrails



Fixed ladders

### Service for wind-tower internals.



Tower internals packaged by section and ready for installation

ZARGES guarantees a timely and efficient tower interior at the best price.

- Verification of requirements.
- Procurement and production.
- On-time delivery on the required date.
- Supervising.

Your wind-tower internals are delivered on time and in a prepared and packaged form.

### Commissioning and operator training:

Authorise your team as commissioners and maintenance experts for our service lifts by using our classroom training courses, or receive e-training instruction in the operating of our service lifts.





**ZARGES** tip

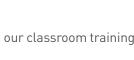
Questions on kit sets are answered at:

wind.systems@zarges.de

Supervising installation



Logistics centre





### Service lift TBA 6000-5



### Safety

- Certified according to Machinery Directives 2006-42-EU.
- Security requirements for suspended access equipment according to EN 1808.
- Risk assessment according to EN ISO 12100
- Redundant design of safety-related functions.
- Electrical monitoring of the rolling tambour doors.
- Highest level of fire protection.
- Control according to EN ISO 13849 -1:
- Automatic checking functions.
- Access in emergencies.
- Ladder guidance enables easier emergency rescue.
- Mechanical unlocking of guardrails.
- OSL gripper.
- Hammer-contacted special cabling.



### Climate version

### Normal climate version (NCV)

- Operational temperature: from -25° to +45° C.
- Storage temperature: from -25° to +55° C (with power supply) and 0° to 55° C (without power supply).
- Emergency light with battery life of up to 2 hours.

### Cold climate version (CCV)

- Operational temperature: from -35° to +40° C.
- Storage temperature: from -40° to +50° C (with power supply) and 0° to 55° C (without power supply).
- Emergency light with battery life of up to 2 hours.

### The advantages for you

- Lifting height of up to 170 m (project-based).
- Ergonomic operation.
- Highest safety standards.
- Rolling tambour door for easy access.
- Easily accessible hand-wheel and brake lever on hoist unit.
- Safety-based documentation.
- Mechanical unlocking of guardrails for tough environments.



**Dimensions:** 1,120 × 800 × 2,600 mm

### Fixed ladder systems

- Tested system with high safety and structural analysis (ladder holder, fixed ladder, fall arrester).
- Variable and economical through the combination of standard systems.
- The fixed ladders are made from aluminium and are therefore resistant to corrosion, easily installed and extremely strong.
- 4x crimp and low clearance make for a particularly long service life.
- Ready to install with wall brackets and attachment material.
- Different stile sizes (e.g. 60.5 mm × 25 mm and 73 mm × 25 mm).
- Fall arrester systems to customer specifications.
- Manufactured in compliance with the relevant standards and safety regulations.
- EU standards used: DIN EN 50 308, DIN EN ISO 14 122 Part 4 (fixed ladders as permanent means of access to machinery).





### Training in the commissioning, maintenance and operation of service lifts

- With the ZARGES classroom training course, we convey the detailed knowledge that you and your staff need to successfully commission, maintain and operate service lifts.
- Offer your customers the commissioning and maintenance of our service lifts and extend your areas of business activity!

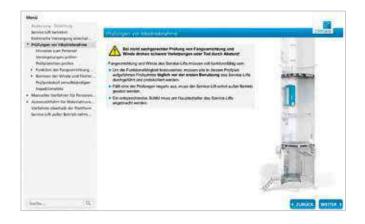


### **ZARGES** tip

Dates for lift training courses can be arranged at: wind.systems@zarges.de

### E-training in operating service lifts

- By using ZARGES e-training, You are able to instruct your staff conveniently from home or in the office in the operation of our service lifts. We instruct you on everything you need to know using interesting and interactive methods.
- As a certified operator of our service lifts, you are then permitted to use the wind power plant.







### ZARGES tip

Take part in our e-training for lifts now! www.zarges.com/lifttraining

### Special systems

### Radar and navigation



### Our service and quality:

- High-precision constructions with close-tolerance reflector surfaces and mountings for add-on and built-in electronic items.
- Drive system for continuous operation, including control system.
- Shock- and vibration-tested.
- Pressure-sealed construction.
- Removable radome.
- Metal-oxide-free paint.

Photo: Airbus, ASR antenna system

A wide diversity of highly accurate antenna systems are necessary to ensure the safety of air transport and these need to function reliably under all conditions. ZARGES delivers all necessary mechanical components to customer specifications.

Electronic navigation systems on ships, aircraft, civil and military ground stations must be capable of doing their job even under extreme conditions. ZARGES supplies the corresponding components, for example radar antennas, antenna cases and reflection geometry – accurate to size and able to withstand the most severe weather and environmental conditions.

### Radio link and satellite antennae



### Our service and quality:

- Dimensions Ø 0.6 m-4.0 m.
- Painted using a special aluminium alloy.
- Compressed, stretch-formed or moulded reflector surfaces.
- Precision ≤ ± 2 mm.
- rms value ≤ 0.8 mm.
- Wind loads up to max. 200 km/h.



In the design and manufacture of antenna for radio and satellite link systems, accuracy of measurement represents a crucial factor. We are able to draw on decades of experience in this sector based on a host of projects implemented. Application areas include radio, television, telecommunications and fixed and mobile networks (including UMTS).

### Repairs to cable cars





Dismantling the cable car



Partly restored car



Preparation for applying anti-corrosion protection



Painted car shortly before completion of work

### Our competence in detail:

- We will make an appointment to visit and appraise your railway in the near future, so that we can get an idea of the current status.
- In order to successfully remove corrosion and provide the best-possible surface for a new paint finish, all relevant assemblies will be blast-cleaned with granulate of varying sizes.
- Depending on the scope of the order, the cable cars will be dismantled to varying degrees. Stripping right down to the skeleton structure is possible.
- When selecting materials, we attach great importance to quality and fire-prevention value.
- Representatives from the technical inspection agency TÜV or other experts, and, of course, you yourself as our customer, are welcome to visit us to follow the progress of the work.

When it comes to aluminium systems and special solutions made from aluminium, ZARGES is the specialist you need. That's why we also handle the restoration and renovation of cable cars, and we can face the challenges of such a task with confidence.

We can rely on the know-how we have gained since the 1960s in the construction and manufacturing of aerial tramways, for example the cable railways at Eibsee or Alpspitz, the Nebelhorn and Fellhorn cable railways in Oberstdorf or that in the Schnalztal in South Tirol.

### Special design – individual solutions for complex requirements



Photo: MT Mechatronics GmbH, ALMA insulation

ZARGES is an experienced specialist when it comes to finding solutions for individual problems.

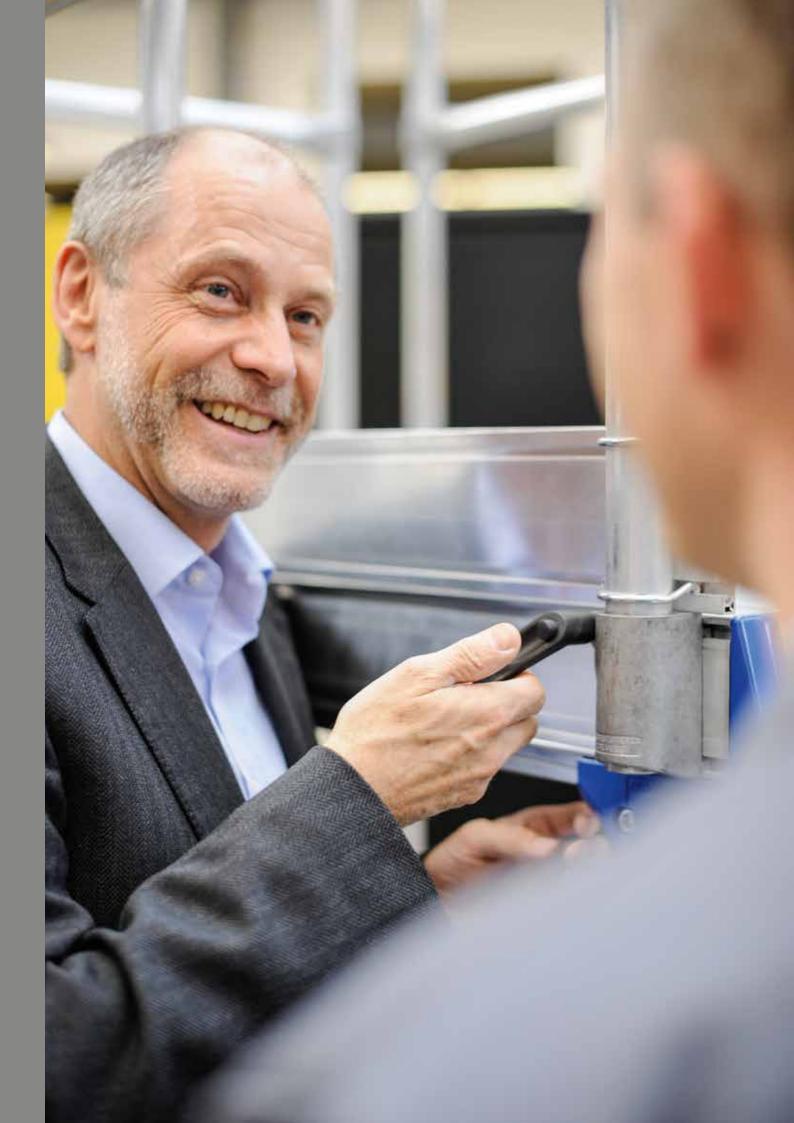
Aluminium or steel, modular system or customer specific solution: we are your ideal partner for complex and challenging designs. Modern production processes, highly qualified staff, comprehensive know-how and numerous quality and safety certificates attest to our expertise.



### **ZARGES** tip

Questions on special systems are answered at: special.systems@zarges.de





# INFORMATION & SERVICE



The outstanding ZARGES quality doesn't stop with our products. Our customer service is also exceptional.

We offer you comprehensive advice and a full range of services based on our products, your questions and wishes.

Our ZARGES expert consultants are available to answer any queries you may have.

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TERMS AND CONDITIONS	General Terms and Conditions	<u>354</u>



# ZARGES is always here for you!

We offer you consultancy services, customer service, quality and safety.

### This is unique: perfect service in four modules.

O1 O2 O3 O4 Training

01

### Consultancy service:

### On-site consulting:

During an on-site visit, your ZARGES consultant can find out more about all your requirements, inform and advise you on possible solutions, take measurements and coordinate everything with you directly and personally.

### Consultancy services via the phone:

Our friendly and competent ZARGES team of consultants will be happy to answer any questions you may have, advise you on our products, submit offers or handle queries on the processing of your orders.



### Catalogues & guides:

From the full catalogue of our products to the different product guides we offer a range of informative brochures covering all aspects of access technology, packaging, transportation or special solutions.



### Online service:

At www.zargesconfigurator.com, you can take advantage of our free planning systems for steps, platforms and fixed ladders including price calculator and 3D-view. On request, we can supply a 3D-CAD model for your engineering department.



# **02** Inspection:

ZARGES products provide maximum safety during your everyday work. To ensure that they continue to do so, we offer regular inspection of your ladders, access steps and scaffolding on-site by a ZARGES specialist.

# Spare parts:

A quick and dependable supply of original ZARGES spare parts ensures that your products remain in perfect condition even after many years of use. Simply request the ZARGES spare parts brochure or find out more at www.zarges.com.



# **04** Training:

### **ZARGES ACADEMY:**

After attending an expert seminar for ladders, steps and scaffolding, you yourself can acquire expert status which authorises you to keep the logbook for your equipment yourself. ZARGES ACADEMY training courses will be held in many German cities in the course of this year.





### Inspection of ladders and mobile scaffold towers

Ladders, steps and mobile scaffold towers are technical work equipment and represent a potential source of danger.

Inspection is obligatory for companies using ladders in their operations: ladders, steps and scaffolding must be inspected regularly by a qualified person to ascertain if they are in proper working order.

For example, §4 of the German Ordinance on Industrial Safety and Health (BetrSichV) stipulates that: "An employer may make available and allow to be used only work equipment that is safe in respect of the intended usage."

§14 of the BetrSichV goes into greater detail on the testing of work equipment.

**According to the** German Social Accident Insurance (DGUV), a contractor must ensure that a person commissioned and qualified by him inspects ladders, steps and scaffolding regularly to ascertain if they are in proper working order. The German **Workplace Guidelines** (ASR) also prescribe mandatory inspection for firmly installed fixed ladders.

Safety is extremely important to us as a manufacturer of ladders, in the interests of our customers. For this reason, ZARGES offers regular inspection of your ladders, steps and scaffolding by a qualified person.

### **ZARGES ACADEMY**

# Certified seminars and training courses for your safety.



### Seminars & training course with certificate

Access equipment must be inspected at varying intervals depending on the conditions in the company, the load to which it is subjected and its frequency of use. This is not only recommended generally but also required by law in the Ordinance on Industrial Safety and Health.

Every contractor must have ladders and steps inspected regularly by a so-called "qualified person" to ascertain that they are in proper working order. The "Qualification for inspecting access equipment" can be obtained by attending an appropriate seminar. We recommend a refresher course every 5 years.

We are proud to refer to our range of seminars and training courses as the "ZARGES ACADEMY". These add the finishing touches to the requirements we set ourselves of manufacturing high-quality, professional products and ensuring that these products are handled safely.

# Expert seminars for ladders, steps & mobile scaffold towers

Every year, the **ZARGES ACADEMY** holds expert seminars for ladders, steps and mobile scaffold towers in almost all major German cities, during which the "Qualification for inspecting access equipment" can be obtained.

### Seminar objectives:

- Knowledge of the design features fundamental to ladders, steps and mobile scaffold towers.
- Overview of the relevant standards.
- Knowledge of the statutory provisions and the employer's liability insurance association guidelines.
- Legal certainty in the performance of the regular inspections of ladders, steps and mobile scaffold towers
- Help in drawing up the officially recognised inspection documentation.

On completion of the training course, the participant has acquired the relevant knowledge and is able to independently carry out testing.

### Our range of seminars:

- Expert seminar for ladders, steps & mobile scaffold towers.
- Seminar on site for ladders, steps & mobile scaffold towers.
- Seminar on site for ladders & steps.
- Seminars Service-Lift TBA6000-3.



Rainer Ohlwein, Seminar Manager

### Recognised by the VDSI e.V.

Our expert seminars are recognised by the German Federation for Safety, Health and Environmental Protection at Work (VDSI) and have been awarded 2 further education points. They are therefore suitable as advanced training for occupational safety specialists in accordance with §5, s. 3 ASiG (German Occupational Safety Act).





### What you can find at www.zarges.com:

clear, informative, user-friendly.

- Product search quickly find the products you need.
- Find a dealer ZARGES partners in your area.
- Product information dimensions, materials and functions at a glance.
- Product configuration adapted to your specific requirements.
- Seminars find expert seminars and register for them online.
- Special construction freely accessible database with ZARGES special constructions.
- News all news relating to ZARGES and our products.
- Resource Center download catalogues, brochures, assembly and check sheets, watch set-up videos and read application reports.



**Almost like a search engine:** At **www.zarges.com**, you can find out everything about our products and services.



**Structured depiction of products:** All product variants at a glance



**The ZARGES Resource Center:** information and downloads on many ZARGES products

# The advantages of aluminium as a material – economical, safe, ecologically sensible.

## Aluminium is lightweight, yet extremely stable:

The density of aluminium is only approx. 2.6 g to 2.8 g per cm<sup>3</sup>. That is approx. 1/3 the density of steel. In spite of its low weight, aluminium is extremely strong.



### Aluminium is vapour-impermeable:

Even when stored over very long periods of time, moisture will not diffuse through the material. An aluminium container can be welded to make it water-vapour-proof.



### Aluminium is impact-resistant and extremely strong:

Its surface dents on impact, but the force of the blow is absorbed by the deformation.



### Aluminium is magnetically neutral:

Aluminium is not ferromagnetic. This material characteristic can be of great significance for certain applications.



### Aluminium is also insensitive to extreme temperature fluctuations:

The material characteristics remain constant within a temperature range of -80 to +150 °C.



### Aluminium is fully recyclable:

Used aluminium can be melted down and re-used – an important contribution towards the reduction of waste and the protection of the environment.



### Aluminium is corrosion-resistant and protects itself:

When it comes into contact with oxygen, the surface of aluminium oxidises, and this layer of oxide immediately reforms when damaged.



# Aluminium is resistant to UV rays:

Long periods of storage and exposure to UV rays have no effect on this material.



### Aluminium is hygienic:

Its smooth surface is easy to clean and odourless. Aluminium containers are ideal for use in areas with high hygiene requirements.



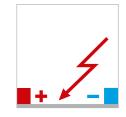
# Aluminium can be processed in a wide variety of ways:

All standard processing methods – welding, moulding, etc. – can be applied to aluminium, and in many cases their application is much easier than with other metals.



### **Aluminium is electrically conductive:**

Aluminium is a good conductor of electricity and heat, an advantage, for example, for housings for built-in electronic components.



### Aluminium is incombustible:

No sparks fly when you strike aluminium materials. Aluminium is non-flammable, and not even aluminium shavings burn.





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42740         267         43255         285,286         44310         287         46558-46559         104,105           42743         269         43257         278,779,280         44315         287         46560-46561         1104           42743         269         43258-43260         281         44315         287         46562-46563         104,105           42750         267         43265         285         44325-44327         286         4656-46566         105           42759         269         43270-43272         286         44520-44522         284         46789         20,34,35,60,61           42810-42811         259         43787-43277         286         45070         52         46789         20,34,35,60,61           42837         259,267         43280-43281         287         4507         33         47000-47002         304           42847         266         43286         280         45133         50         47000-47005         304           42850         261,269         43387         283         45135         50         47010         304           42860         262         43310         287         45138         50         47010		268						
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42756         269         43266         279,287         44495         288         46582         111           42759         269         43270-43272         286         44520-44522         284         46789         20,34,35,60,61           42810-42811         259         43275-43277         286         45070         52         46989         20,34,35,60,61           42837         259,267         43280-43281         287         45073         52         47000-47002         304           42847         266         43286         280         45133         50         47007         304           42850         261,269         43287         283         45135         50         47010         304           42860         266         43310         287         45138         50         47021         304           42861-42862         261         43320         287         45141         50         47021-47024         304           42863         262         43497         286         45145         50         47021-47024         304           42863         262         43497         286         45142         74         47050-47054         305								
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42837         259,267         43280-43281         287         45073         52         47000-47002         304           42838         259         43284-43285         283         45096-45097         33         47004-47005         304           42847         266         43286         280         45133         50         47007         304           42850         261,269         43287         283         45135         50         47010         304           42860         262         43310         287         45138         50         47021         304           42860         262         43315         287         45141         50         47023-47024         304           42863         262         43320         287         45145         50         47030-47039         305           42865         261         43497         286         45162         74         47050-47054         305           42866         265         261,269         43498         285         45172         74         47060-47062         305           42869         264         43500-43502         284         45182-2         74         47067         305								
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42850         261,269         43287         283         45135         50         47010         304           42864         266         43310         287         45138         50         47021         304           42860         262         43315         287         45141         50         47023-47024         304           42861-42862         261         43320         287         45145         50         47030-47039         305           42863         262         43497         286         45162         74         47050-47054         305           42865         261,269         43498         285         45172         74         47060-47062         305           42869         264         43500-43502         284         45182         74         47067-47065         305           42873         262         43815-43817         67         46000         101,108         47096         305           42877         266         43831         39         46001         101         47105-47109         306           4288-42888         259         43833         39         46004         101         47105-47109         306           42901-								
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42873         262         43504         288         45183-45185         75         47070         305           42874-42875         263         43815-43817         67         46000         101,108         47096         305           42877         266         43831         39         46001         101         47098-47099         305           42885-42888         259         43833         39         46004         101         47105-47109         306           42901-42902         258         43845-43847         67         46005         101,108         47110-47112         307           42903         259         43848         17         46010         101         47114-47120         307								305
42874-42875         263         43815-43817         67         46000         101,108         47096         305           42877         266         43831         39         46001         101         47098-47099         305           42885-42888         259         43833         39         46004         101         47105-47109         306           42901-42902         258         43845-43847         67         46005         101,108         47110-47112         307           42903         259         43848         17         46010         101         47114-47120         307								305
42877         266         43831         39         46001         101         47098-47099         305           42885-42888         259         43833         39         46004         101         47105-47109         306           42901-42902         258         43845-43847         67         46005         101, 108         47110-47112         307           42903         259         43848         17         46010         101         47114-47120         307								305
42885-42888     259     43833     39     46004     101     47105-47109     306       42901-42902     258     43845-43847     67     46005     101,108     47110-47112     307       42903     259     43848     17     46010     101     47114-47120     307		266		39		101		305
42901-42902         258         43845-43847         67         46005         101,108         47110-47112         307           42903         259         43848         17         46010         101         47114-47120         307				39				306
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<u>42904-42905</u> <u>258</u> <u>43850-43853</u> <u>17</u> <u>46011</u> <u>101, 108</u> <u>47122-47137</u> <u>307</u>								307
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77140-47142         307           77144-47150         307           77152-47167         307           77180-47191         307           77205-47206         298           7207         300           7210-47214         299           72215         283           7226-47227         299           7232         298           7233-47236         299           7243-47244         299           7266-47267         298           7266-47267         298           7301-47302         293 47304-           7301         295           7301-47308         297           7311         293           7312         295           7311         293           7314         293           7315         295           7314         293           7315         295           7314         293           7315         295           7314         293           7314         293           7321-47329         292           7331-47339         292           7352-47359         294	Od N	
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77180-47181       307         77190-47191       307         77205-47206       298         77207       300         77210-47214       299         77215       293         77226-47227       299         77232       298         77233-47236       299         77243-47244       299         77260-47262       298         77266-47267       298         77301-47302       293 47304-         7305       295         7307-47308       297         7311       293         7312       295         7313       297         7314       293         7315       295         7316       297         7317-47308       297         7311       293         7312       293         7313       297         7314       293         7321-47329       292         7331-47339       292         7331-47339       292         7351-47359       294         7352-47359       294         7352-4739       296         7353-47538       300 <td>47144-47150</td> <td></td>	47144-47150	
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.7232         298           .7233-47236         299           .7243-47244         299           .7260-47262         298           .7301-47302         293 47304-           .7305         295           .7307-47308         297           .7311         293           .7312         295           .7313         297           .7314         293           .7315         295           .7316         297           .7317-47329         292           .7331-47339         292           .7331-47339         292           .7351-47359         294           .7351-47359         294           .7351-47369         296           .7371-47379         296           .7524         173, 289, 302           .7525         289, 302           .7533-47535         300           .7533-47535         300           .7539         288, 303           .7545-47546         301           .7555-4755         288, 301           .7557-4755         300           .7557-4755         300           .7557-4758         300	47216-47219	299
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.7301-47302         293 47304-           .7305         295           .7307-47308         297           .7311         293           .7312         295           .7313         297           .7314         293           .7315         295           .7316         297           .7321-47329         292           .7331-47339         292           .7331-47349         294           .7351-47359         294           .7351-47369         296           .7371-47379         296           .7524         173,289,302           .7525         289,302           .7530-47532         288,301           .7533-47535         300           .7537-47538         300           .7550-47553         303           .7555-47554         301           .7555-47555         300           .7555-47555         300           .7555-47555         300           .7555-47558         300           .7557-47558         300           .7557-2758         303           .7563-47565         303           .77612         295	47260-47262	298
.7305       295         .7307-47308       297         .7311       293         .7312       295         .7313       297         .7314       293         .7315       295         .7316       297         .7321-47329       292         .7331-47339       292         .7331-47349       294         .7351-47359       294         .7351-47369       296         .7371-47379       296         .7524       173, 289, 302         .7525       288, 301         .7533-47535       300         .7533-47535       300         .7537-47538       300         .7553-47554       301         .7555-47554       301         .7555-47555       300         .7555-47556       288, 301         .7555-47558       300         .75559       288, 303         .7561       303         .7562       289, 302         .7563-47565       303         .75772       289, 302         .7663-47565       303         .7671       295         .7663       296 <tr< td=""><td>47266-47267</td><td>298</td></tr<>	47266-47267	298
.7307-47308         297           .7311         293           .7312         295           .7313         297           .7314         293           .7315         295           .7316         297           .7321-47329         292           .7331-47339         292           .7351-47359         294           .7351-47369         294           .7351-47379         296           .7371-47379         296           .7524         173, 289, 302           .7525         289, 302           .7530-47532         288, 301           .7537-47538         300           .7537-47538         300           .7539         288, 303           .7550-47552         288, 301           .7555-47555         300           .7555-47556         288, 301           .7557-47558         300           .7557-47558         300           .7557-47558         300           .7557-2         289, 302           .7568         303           .75672         289, 302           .75688         173, 289, 302           .76611         297 <td>47301-47302</td> <td>293 47304-</td>	47301-47302	293 47304-
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77313         297           77314         293           77315         295           77316         297           77321-47329         292           77331-47339         292           77341-47349         294           77351-47359         294           77361-47369         296           77524         173,289,302           77524         173,289,302           77525         289,302           77530-47532         288,301           77537-47538         300           77539         288,303           77544-74546         301           77550-47552         288,301           77553-47555         300           77557-47558         300           77557-47558         300           77557-47558         300           77557-2758         303           77561         303           77572         289,302           77611         297           77612         295           77611         297           77612         295           77613         297           77623-47625         292           7763-476	47311	293
.7314         293           .7315         295           .7316         297           .7321-47329         292           .7331-47339         292           .7341-47349         294           .7351-47359         294           .7361-47369         296           .7371-47379         296           .7524         173, 289, 302           .7525         289, 302           .7533-47532         288, 301           .7533-47535         300           .7537-47538         300           .7545-47546         301           .7550-47552         288, 301           .7553-47555         300           .7555-47556         288, 301           .7557-47558         300           .7557-47558         300           .7557-27559         288, 303           .7561         303           .7562         289, 302           .7563-47565         303           .75762         289, 302           .7563-47565         303           .75762         289, 302           .7611         297           .7612         295           .7613         297	47312	295
.7315         295           .7316         297           .7321-47329         292           .7331-47339         292           .7341-47349         294           .7351-47359         294           .7351-47379         296           .7371-47379         296           .7352         288, 302           .75530-47532         288, 301           .7533-47535         300           .7553-47538         300           .7553-47538         303           .7554-47546         301           .7555-47555         300           .7555-47555         300           .7555-47555         300           .7555-47556         288, 301           .7557-47558         300           .75559         288, 303           .7561         303           .7562         289, 302           .7563-47565         303           .75762         289, 302           .7563-47565         303           .75762         289, 302           .7563-47565         303           .7661         295           .7611         297           .7612         295	47313	297
.7315         295           .7316         297           .7321-47329         292           .7331-47339         292           .7341-47349         294           .7351-47359         294           .7351-47379         296           .7371-47379         296           .7352         288, 302           .75530-47532         288, 301           .7533-47535         300           .7553-47538         300           .7553-47538         303           .7554-47546         301           .7555-47555         300           .7555-47555         300           .7555-47555         300           .7555-47556         288, 301           .7557-47558         300           .75559         288, 303           .7561         303           .7562         289, 302           .7563-47565         303           .75762         289, 302           .7563-47565         303           .75762         289, 302           .7563-47565         303           .7661         295           .7611         297           .7612         295	47314	293
77321-47329         292           77331-47339         292           77341-47349         294           77361-47359         294           77361-47379         296           77524         173, 289, 302           77525         289, 302           77530-47532         288, 301           77537-47538         300           77539         288, 303           77545-47546         301           77550-47552         288, 301           77553-47555         300           77556-47556         288, 301           77557-47558         300           77557-47558         300           77557         288, 303           77561         303           77557         289, 302           77561         303           77562         289, 302           77563         47565           303         305           77561         293           77610         295           77611         297           77612         295           7633-47625         292           77633-47625         292           77633-47625         292	47315	295
.7331-47339         292           .7341-47349         294           .7351-47359         294           .7361-47369         296           .7371-47379         296           .7524         173, 289, 302           .7525         288, 301           .7533-47535         300           .7537-47538         30           .7537-47538         30           .7553-47555         300           .7555-47552         288, 301           .7555-47555         300           .7555-47555         300           .7557-47558         300           .7557-47558         30           .7556         288, 301           .7557-47558         30           .75561         303           .7557-2758         30           .7563-47565         303           .75762         289, 302           .7568         173, 289, 302           .7610         295           .7611         297           .7612         295           .7633-47625         292           .7633-47635         292           .7643-47645         294           .7653-47655         296	47316	
.7341-47349         294           .7351-47359         294           .7361-47369         296           .7371-47379         296           .7524         173, 289, 302           .7525         288, 301           .7533-47532         288, 301           .7537-47538         300           .7559         288, 301           .7550-47552         288, 301           .7555-47555         300           .7555-47555         300           .7555-47558         300           .75559         288, 303           .75559         288, 303           .75561         303           .75559         289, 302           .75562         289, 302           .75563-47565         303           .7557-2         289, 302           .7610         295           .7611         297           .7612         295           .7633-47625         292           .7633-47625         292           .7633-47635         292           .7633-47655         294           .7653-47655         294           .7663-47655         294           .7663-47655         29	47321-47329	292
.7341-47349         294           .7351-47359         294           .7361-47369         296           .7371-47379         296           .7524         173, 289, 302           .7525         288, 301           .7533-47535         300           .7537-47538         30           .7553-47554         301           .7555-47546         301           .7555-47555         300           .7555-47555         300           .7555-47558         300           .75559         288, 303           .75561         303           .75559         288, 303           .75561         303           .75562         289, 302           .75563-47565         303           .7557-2         289, 302           .7661         295           .7661         295           .7661         295           .7661         295           .7658         173, 289, 302           .7610         295           .7611         297           .7612         295           .7633-47625         292           .7643-47645         294           <	47331-47339	292
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17524         173, 289, 302           17525         289, 302           17530-47532         288, 301           17533-47535         300           17537-47538         30           17539         288, 303           17550-47554         301           17550-47555         288, 301           17556         288, 301           17557-47558         300           17559         288, 303           17561         303           17562         289, 302           17563-47565         303           17564         303           17561         303           17562         289, 302           17563-47565         303           17572         289, 302           17610         295           17611         297           17612         295           17633-47625         292           17633-47635         292           17643-47645         294           17653-47655         294           17663-47665         296           17700         292, 294           17706         296           17900         300	47361-47369	296
.7525         289, 302           .7530-47532         288, 301           .7533-47535         300           .7537-47538         300           .75539         288, 303           .7550-47552         288, 301           .7555-47555         300           .7555-47558         300           .75559         288, 303           .7561         303           .75562         289, 302           .7563-47555         303           .7557-47558         300           .7551         303           .7552         289, 302           .7563         303           .7561         303           .7562         289, 302           .7563-47565         303           .7572         289, 302           .7611         297           .7612         295           .7611         297           .7612         295           .7633-47625         292           .7643-47645         294           .7653-47655         294           .7663-47655         294           .7663-47665         296           .7673-47675         296	47371-47379	296
.7530 – 47532         288, 301           .7533 – 47535         300           .7537 – 47538         300           .7539         288, 303           .7554 – 47546         301           .7550 – 47552         288, 301           .7555 – 47555         30           .7557 – 47558         300           .7557 – 47558         30           .7559         288, 303           .7561         303           .7562         289, 302           .7563 – 47565         303           .7572         289, 302           .7610         295           .7611         297           .7612         295           .7613         297           .7623 – 47625         292           .7633 – 47635         292           .7643 – 47645         294           .7653 – 47655         294           .7663 – 47655         294           .7663 – 47655         294           .7663 – 47655         294           .7663 – 47655         294           .7663 – 47655         294           .7663 – 47655         294           .7663 – 47655         294           .7663 –	47524	173, 289, 302
.7533-47535     300       .7537-47538     300       .7539     288, 303       .7545-47546     301       .7550-47552     288, 301       .75553-47555     300       .75556     288, 301       .75557-47558     300       .75561     303       .75559     288, 303       .7561     303       .7562     289, 302       .7563-47565     303       .7572     289, 302       .7588     173, 289, 302       .7610     295       .7611     297       .7612     295       .7613     297       .7623-47625     292       .7633-47635     292       .7643-47645     294       .7653-47655     296       .7653-47655     296       .7653-47655     296       .7663-47665     296       .7670     292, 294       .7706     296       .7900     300       .11004     255       .11014     255       .11024     254       .11034     254	47525	289, 302
.7537 - 47538     300       .7539     288, 303       .7545 - 47546     301       .7550 - 47552     288, 301       .7553 - 47555     300       .7556 - 288, 301     305       .7557 - 47558     300       .7559     288, 303       .7561     303       .7562     289, 302       .7563 - 47565     303       .7572     289, 302       .7588     173, 289, 302       .7610     295       .7611     297       .7612     295       .7633 - 47625     292       .7633 - 47635     292       .7633 - 47635     292       .7643 - 47645     294       .7653 - 47655     294       .7663 - 47665     296       .7670 - 292, 294       .7706 - 296     296       .7700 - 300     300       .11004 - 255       .11014 - 255       .11024 - 254       .11034 - 254	47530-47532	288, 301
.7537 - 47538     300       .7539     288, 303       .7545 - 47546     301       .7550 - 47552     288, 301       .7553 - 47555     300       .7556 - 288, 301     305       .7557 - 47558     300       .7559     288, 303       .7561     303       .7562     289, 302       .7563 - 47565     303       .7572     289, 302       .7588     173, 289, 302       .7610     295       .7611     297       .7612     295       .7633 - 47625     292       .7633 - 47635     292       .7633 - 47635     292       .7643 - 47645     294       .7653 - 47655     294       .7663 - 47665     296       .7670 - 292, 294       .7706 - 296     296       .7700 - 300     300       .11004 - 255       .11014 - 255       .11024 - 254       .11034 - 254	47533-47535	300
.7545-47546       301         .7550-47552       288, 301         .75553-47555       300         .75566       288, 301         .7557-47558       300         .7559       288, 303         .7561       303         .7562       289, 302         .7563-47565       303         .7572       289, 302         .7588       173, 289, 302         .7610       295         .7611       297         .7612       295         .7633-47625       292         .7633-47635       292         .7643-47645       294         .7653-47655       294         .7663-47665       296         .7670-47675       296         .7700       292, 294         .7706       296         .7900       300         .11014       255         .11024       254         .11034       254	47537-47538	300
.7550-47552         288, 301           .7553-47555         300           .7556         288, 301           .7557-47558         300           .7559         288, 303           .7561         303           .7562         289, 302           .7572         289, 302           .7588         173, 289, 302           .7610         295           .7611         297           .7612         295           .7613         297           .7623-47625         292           .7633-47635         292           .7643-47645         294           .7653-47655         294           .7663-47665         296           .7670-4765         296           .7673-47675         296           .7670-47675         296           .7706         296           .7900         300           .11014         255           .11014         255           .11034         254	47539	288, 303
.7553-47555     300       .7556     288, 301       .7557-47558     300       .7559     288, 303       .7561     303       .7562     289, 302       .7563-47565     303       .7572     289, 302       .7588     173, 289, 302       .7610     295       .7611     297       .7612     295       .7613     297       .7643-47625     292       .7633-47635     292       .7643-47645     294       .7663-47655     294       .7663-47665     296       .7700     292, 294       .7706     296       .7900     300       .11004     255       .11014     255       .11024     254       .11034     254	47545-47546	301
.7553-47555     300       .7556     288, 301       .7557-47558     300       .7559     288, 303       .7561     303       .7562     289, 302       .7563-47565     303       .7572     289, 302       .7588     173, 289, 302       .7610     295       .7611     297       .7612     295       .7613     297       .7643-47625     292       .7633-47635     292       .7643-47645     294       .7663-47655     294       .7663-47665     296       .7700     292, 294       .7706     296       .7900     300       .11004     255       .11014     255       .11024     254       .11034     254	47550-47552	288, 301
.7557-47558     300       .7559     288, 303       .7561     303       .7562     289, 302       .7563-47565     303       .7572     289, 302       .7588     173, 289, 302       .7610     295       .7611     297       .7612     295       .7613     297       .7633-47625     292       .7633-47635     292       .7653-47655     294       .7663-47655     294       .7663-47655     296       .7700     292, 294       .7706     296       .7900     300       .11004     255       .11014     255       .11024     254       .11034     254	47553-47555	300
.7559         288, 303           .7561         303           .7562         289, 302           .7563-47565         303           .7572         289, 302           .7588         173, 289, 302           .7610         295           .7611         297           .7612         295           .7613         297           .7623-47625         292           .7643-47635         292           .7643-47645         294           .7663-47655         294           .7663-47665         296           .7670         292, 294           .7706         296           .7900         300           .1004         255           .11014         255           .11014         255           .11034         254	47556	288, 301
.7561     303       .7562     289, 302       .7563-47565     303       .7572     289, 302       .7588     173, 289, 302       .7610     295       .7611     297       .7612     295       .7613     297       .7623-47625     292       .7633-47635     292       .7643-47645     294       .7653-47655     294       .7663-47665     296       .7670     292, 294       .7706     296       .7900     300       .1004     255       .1014     255       .1024     254       .1034     254	47557-47558	300
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.7563-47565     303       .75772     289, 302       .7588     173, 289, 302       .7610     295       .7611     297       .7612     295       .7613     297       .7623-47625     292       .7633-47635     292       .7643-47645     294       .7663-47655     294       .7663-47665     296       .7670     292, 294       .7706     296       .7900     300       .1004     255       .1014     255       .1024     254       .1034     254	47561	303
.7563-47565     303       .75772     289, 302       .7588     173, 289, 302       .7610     295       .7611     297       .7612     295       .7613     297       .7623-47625     292       .7633-47635     292       .7643-47645     294       .7663-47655     294       .7663-47665     296       .7670     292, 294       .7706     296       .7900     300       .1004     255       .1014     255       .1024     254       .1034     254	47562	
.7572         289, 302           .7588         173, 289, 302           .7610         295           .7611         297           .7612         295           .7613         297           .7623-47625         292           .7633-47635         292           .7643-47645         294           .7653-47655         294           .7663-47665         296           .7670         292, 294           .7706         296           .7900         300           .11014         255           .11014         255           .11024         254           .11034         254	47563-47565	
.7588     173, 289, 302       .7610     295       .7611     297       .7612     295       .7613     297       .7623-47625     292       .7633-47635     292       .7643-47645     294       .7653-47655     294       .7663-47665     296       .7700     292, 294       .7706     296       .7900     300       .1004     255       .1014     255       .1024     254       .1034     254	47572	289, 302
.7610     295       .7611     297       .7612     295       .7613     297       .7623-47625     292       .7633-47635     292       .7643-47645     294       .7653-47655     294       .7663-47665     296       .7673-47675     296       .7700     292, 294       .7706     296       .7900     300       .1004     255       .1014     255       .1024     254       .1034     254	47588	173, 289, 302
.7611     297       .7612     295       .7613     297       .7623-47625     292       .7633-47635     292       .7643-47645     294       .7653-47655     294       .7663-47665     296       .7673-47675     296       .7700     292, 294       .7706     296       .7900     300       .1004     255       .1014     255       .1024     254       .1034     254	7610	295
.7612     295       .7613     297       .7623-47625     292       .7633-47635     292       .7643-47645     294       .7653-47655     294       .7663-47665     296       .7673-47675     296       .7700     292, 294       .7706     296       .7900     300       .1004     255       .1014     255       .1024     254       .1034     254	47611	297
.7613     297       .7623-47625     292       .7633-47635     292       .7643-47645     294       .7653-47655     294       .7663-47665     296       .7673-47675     296       .7700     292, 294       .7706     296       .7900     300       .1004     255       .1014     255       .1024     254       .1034     254	47612	
.7623-47625     292       .7633-47635     292       .7643-47645     294       .7653-47655     294       .7663-47665     296       .7673-47675     296       .7700     292, 294       .7706     296       .7900     300       .1004     255       .1014     255       .1024     254       .1034     254	47613	
.7633-47635     292       .7643-47645     294       .7653-47655     294       .7663-47665     296       .7673-47675     296       .7700     292, 294       .77900     300       .1004     255       .1014     255       .1024     254       .1034     254       .1034     254		
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### **General Terms and Conditions of ZARGES GmbH**

### As at: October 2017

### 1. Scope

- 1.1 Our sales terms only apply to companies within the context of paragraph 1 of §310 of the BGB.
- 1.2 Our sales terms apply exclusively. Conflicting conditions or customer conditions that deviate from our sales terms shall not be recognised if we do not consent to them explicitly in writing. Our sales terms shall also apply without reservation in cases where we complete the delivery to the customer, despite being aware that the customer has contradictory or deviating conditions.

#### 2. Formation of the contract

- 2.1 Our product offering on the Internet, in brochures and other printed media shall remain subject to change. We reserve the rights to all illustrations, drawings, calculations and other documents, including designs provided within the context of an offer. This shall also apply to written documents that are indicated as being confidential. Upon request or in the event that the contract is not awarded to the customer, these documents must be returned immediately. The customer may only pass these on to third parties with our explicit written permission.
- 2.2 Orders are offers from our customers. They may be accepted by us in writing with an order confirmation within two weeks of receipt.
- 2.3 No oral side agreements shall be made.

### 3. Content of contracts that govern the production of parts according to plans or drawings from the customer

Special tools for completing the contracts shall be invoiced to our customers at cost price. These tools shall remain our property. Upon completion of the contract, the tools will be stored by us for one year. On expiry of this period, the tools will be destroyed.

#### 4. Price

Our prices are net prices in EURO. Prices do not include packaging. Packaging will be invoiced separately. VAT shall be indicated on the invoice separately according to the legal amount on the day the invoice is submitted.

### 5. Delayed payment

Unless otherwise stipulated in the order confirmation, the purchase price will fall due without deductions within 30 days from date of invoice.

If the delivery is deficient, any counterclaims of the customer arising from this contract, in particular rights of retention, remain unaffected.

### 6. Delivery times

- 6.1 The beginning of an agreed to or indicated delivery time requires clarification of all technical questions in advance.
- 6.2 Adherence to our obligation to deliver also requires timely and correct fulfilment of the customer's own obligations. The right of exemption on the grounds of failure to fulfil contractual conditions remains reserved.
- 6.3 If the customer delays acceptance of the delivery or if other cooperative obligations are violated, then we shall be entitled to demand remuneration for additional costs and possible damage incurred. We reserve the right to subsequent claims.
- 6.4 In the case of item 6.3, the risk of accidental destruction of or accidental damage caused to the purchased goods shall be transferred to the customer when acceptance of the delivery or payment (arrears) is delayed.
- 6.5 We shall be liable in accordance with the legal provisions in as far as the sales contract in question represents a forward transaction within the scope of point 4 of paragraph 2 of §286 of the B68 or §376 of the HBG. We shall also be liable in accordance with the legal provisions in cases where the customer is entitled to claim that the interest in fulfilment is void as a result of a delivery delay caused by us.
- 6.6 Furthermore, we shall also be liable in accordance with the legal provisions in the event that a delayed delivery results from a wilful or grossly negligent breach of contract on our part. Responsibility on behalf of our representatives or vicarious agents is to be attributed to us.
- 6.7 We shall also be liable according to legal provisions if the delivery delay for which we are responsible involves a culpable violation of an important contractual obligation. In the event of a simple negligent violation of a contractual obligation whose fulfilment is required to enable the proper execution of the contract and whose adherence the customer generally relies on and may rely on (material contractual obligation), our liability is limited to the foreseeable damage that may typically occur.
- 6.8 Otherwise, in cases of delayed delivery, we shall be liable to pay compensation for each complete week of delay within the scope of a flat-rate delay penalty amounting to 0.5 % of the delivery value per week, but with maximum liability of 2 % of the delivery value.
- 6.9 Other statutory claims of the customer remain unaffected.

### 7. Transfer of risk

Unless otherwise stipulated in the order confirmation, the transfer of risk with regard to the delivery shall be agreed to as "ex works."

### 8. Liability for defects

- 8.1 The customer's rights regarding defects are subject to the customer successfully fulfilling his obligation to examine the goods and report defects in accordance with §377 of the HGB.
- 8.2 Provided a defect is present in the purchased item, the customer is entitled to claim supplementary performance. Provided a claim to supplementary performance is submitted, we may choose to correct the defects or deliver a new, defect-free item. In the case of supplementary performance, we shall be obligated to cover all costs involved in correcting the defects, provided that these do not increase as the result of the purchased item being at a location other than the place of fulfilment.
- 8.3 If supplementary performance is unsuccessful, the customer may choose to withdraw or demand a price reduction.
- 8.4 In wilful and gross negligence on the part of us or our legal representatives or vicarious agents, we shall be liable in accordance with legal provisions.
- 8.5 We shall be liable in accordance with the legal provisions in cases where we culpably violate an important contractual obligation. In the event of a simple negligent violation of a contractual obligation whose fulfilment is required to enable the proper execution of the contract and whose adherence the customer generally relies on and may rely on (material contractual obligation), our liability is limited to the foreseeable damage that may typically occur.
- 8.6 The statutory liability on account of culpable negligence to life, limb or health shall not be affected; this applies also if we have maliciously concealed the defect or if we have assumed a warranty for the properties of the item, or for liability strictly prescribed according to the Product Liability Act.
- 3.7 Unless otherwise specified above, our liability shall be excluded.
- 8.8 The limitation period for claims involving defects shall be set at 12 months beginning with the transfer of risk. This shall not apply to cases involving the sale of an item that would normally be used for a given structure and that in turn resulted in the damage in question.
- 8.9 The limitation period in the case of a delivery recourse according to §§478 and 479 of the BGB shall remain unaffected. This period is 5 years, beginning with delivery of the defective item.

### 9. Joint liability

- 9.1 Further liability for damage claims other than indicated in item 8 is excluded, regardless of the legal nature of the claim being asserted. This shall apply especially to damage compensation claims resulting from default upon formation of the contract, due to other violations of obligation, or due to criminal claims to compensation for damage to property according to §823 of the BGB.
- 9.2 The limitation according to item 9.1 also applies in cases where the customer demands reimbursement for wasted expenditures instead of claiming compensation for damage in place of performance.
- 9.3 Insofar as our liability for compensation of damages is excluded or limited, this shall also apply with regard to liability for personal damage compensation vis-à-vis our employees, workers, colleagues, representatives and vicarious agents.

### 10. Retention of title of ownership

- 10.1 We shall retain the title of ownership to goods delivered by us until all payment obligations resulting from the delivery contract have been fulfilled
- 10.2 In the event of conduct by the customer which is in breach of the contract, in particular non-payment of the due purchase price, we are entitled to cancel the contract according to the statutory regulations and to request that that the goods are handed on the grounds of the retention of title of ownership. If the customer fails to pay the purchase price as owed, we may only assert these rights if we have set the customer an appropriate payment deadline which has not been met, or if such a deadline as provided by law has become legally superfluous.
- 10.3 The customer is under obligation to handle the purchased item with due care. In particular, the customer is under obligation to insure the purchased item against damage from fire and water as well as theft up to the amount of its initial value. If maintenance and inspection work is required, the customer shall complete this in a timely fashion at own cost.
- 10.4 In the case of seizure or other intervention on behalf of third parties, the customer must inform us immediately in writing so that we may dispute this according to §771 of the ZPO. If the third party is not in a position to provide remuneration for the legal and extra-legal costs connected with this dispute according to §771 of the ZPO, the customer shall be held liable for the resulting loss incurred by us.
- 10.5 The customer is under obligation to store and label the purchased item separately for as long as the retention of title remains. However, the customer shall be entitled to sell the purchased item via regular business proceedings. In spite of this, the customer shall herewith relinquish all claims against the purchaser or third parties resulting from a resale in the amount of the final invoiced sum, including sales tax on our payments receivable, and in particular, regardless of whether the purchased item has been resold without or after processing.

The customer shall remain entitled to collect our claims, even after relinquishment. The ordering party must account for incoming amounts that are offset against relinquished claims separately. Our authority to collect claims ourselves shall remain unaffected by this. However, we undertake not to collect these claims, provided the customer fulfils the obligation to pay us with the revenues col-

- lected and is not in arrears, and especially if no application for the opening of composition or insolvency proceedings has been filed and payment has not been suspended. If this is the case, however, the customer must at our request inform us of relinquished claims and debtors, provide us with all information required for collection, all associated documents and inform debtors regarding the relinquishment of the claims to us.
- 10.6 The customer shall also be entitled to process or convert the purchased item within the scope of regular business proceedings. However, this will always be carried out on our behalf. Where the purchased item is processed using objects that do not originate from us, we shall acquire joint ownership of the new item in the ratio of the value of the purchased item our final invoiced sum plus sales tax shall be authoritative in this case against that of the processed objects at the time of processing. Furthermore, the item resulting from the processing shall be subject to the same retention of title as the delivered purchased item.
- 10.7 Where the purchased item is inseparably integrated with objects that do not belong to us, we shall acquire joint ownership of the new item in the ratio of the value of the purchased item our final invoiced sum plus sales tax shall be authoritative in this case against that of the integrated objects at the time of integration. Where integration takes place in such a manner that the customer's item may be considered to be the main item, it is agreed that the customer will transfer proportionate joint ownership to us. The customer shall hold the sole title or joint title thus arising on our hehalf.
- 10.8 The customer shall also relinquish to us claims against third parties that result from integration of the purchase item with real estate as a security on our own claims against the customer.
- 10.9 We are under obligation, on request by the customer, to release our securities insofar as the value of our securities exceeds the secured claim by more than 10%. The selection of securities to be released shall be determined by us.

#### 11. Claims

We are entitled to assign our claims against the customer to third parties.

#### 12. Court of jurisdiction

The court of jurisdiction shall be the company's location in 82362 Weilheim, Germany. Nevertheless, we reserve the right to bring suit against the customer at the customer's court of jurisdiction.

### 13. Place of fulfilment

Unless otherwise stipulated by the order confirmation, the place of fulfilment is the company's location in 82362 Weilheim, Germany.

### 14. Applicable law

The law of the Federal Republic of Germany shall apply with the exception of the UN international trade law.

### Mailbox address:

PO Box 16 30 D-82360 Weilheim

### Address:

Zargesstraße 7 D-82362 Weilheim

### Court of register:

Munich HRB 169642

### Directors

Tom Kaiser, Maximilian Treptow

### **ZARGES** guarantee

For many decades, the name of ZARGES has stood for top quality. The ZARGES quality system was examined within the framework of a certification audit and complies with the latest standard DIN EN ISO 9001:2015. We see continuous further development of our production and quality processes as our obligation towards our customers and partners.



We also guarantee that our aluminium series ladders and serial scaffolding are free from design, processing and material defects.

This guarantee applies worldwide for above-named ZARGES products purchased after 01.01.2002. Claims under this guarantee can be filed within ten years from date of purchase. The sales receipt must be presented as proof of purchase.

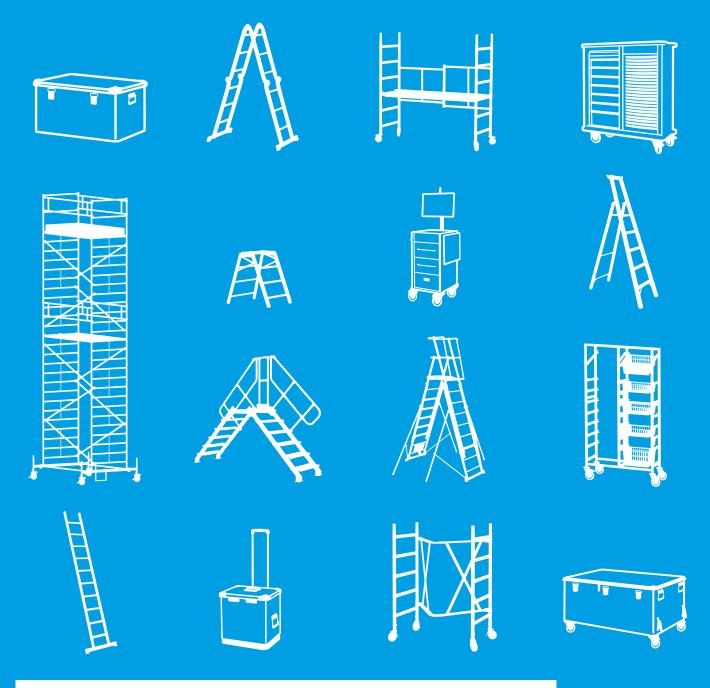
In the event of a claim under guarantee, the defect will be corrected or the product replaced after being sent to your nearest ZARGES company. Any further claims are excluded.

This guarantee does not restrict the existing legal rights of the customer









Further information is available online or from your specialist dealer: