Layher®

More Possibilities. The Scaffolding System.

LAYHER ACCESS SOLUTIONS
CATALOGUE 2022/2023

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Quality management certified according to DIN EN ISO 9001

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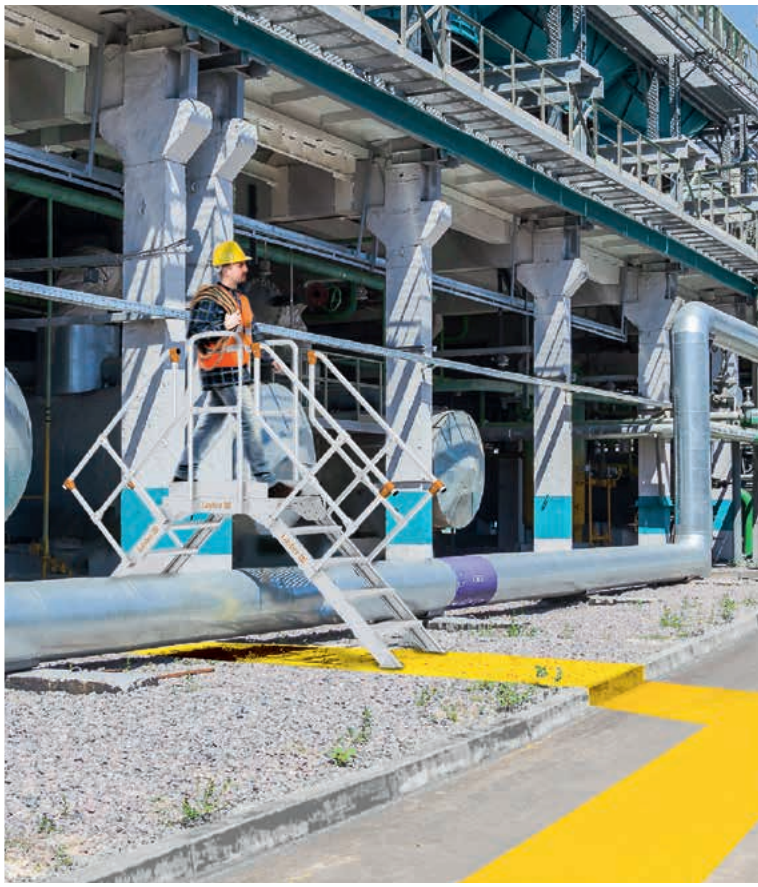

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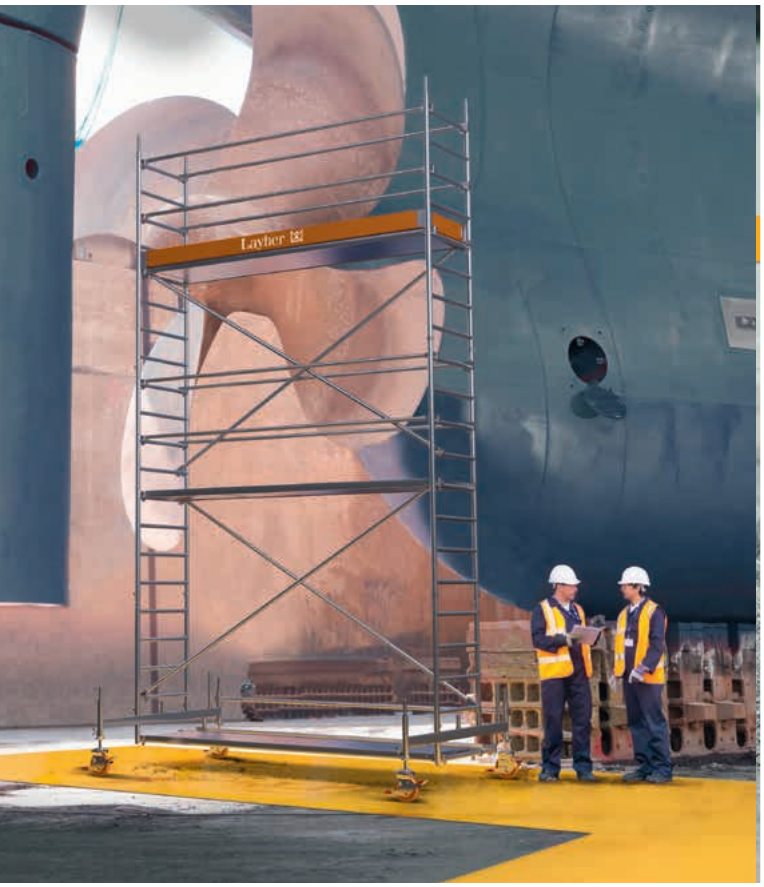

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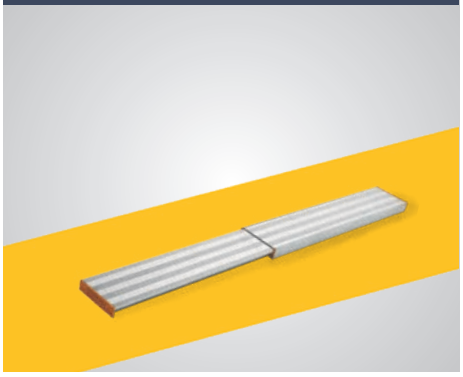


Telescopic Stages	21 or 106
Alu bridging beam	106

NOTICE

All dimensions and weights are guideline values.
Component weights are subject to fluctuations due to tolerances and may therefore diverge from what is specified. Subject to technical modification.

Our deliveries shall be made exclusively in accordance with our currently valid General Terms of Sale. These include the following provisions:

- The place of performance is Gueglingen-Eibensbach.
- Title to the delivered goods shall be retained until full payment has been made.

The fully GTC you can find here: **gtc.layher.com**

Steel components are hot-dip galvanized according to EN ISO 1461 and DASt guideline 022. Connection parts or other small pieces can be galvanized according to EN ISO 4042.

Please request the specific instructions for assembly and use when ordering. Protected by copyright. Not to be reproduced, either in whole or in part. Misprints and errors excepted.

Further information for assembly and use. Just scan the QR Code.

Further Information, you can find in the Layher Info. Just scan the QR Code.

Further information, you can find in the product film. Just scan the QR Code.

Further information, you can find in the software. Just scan the QR Code.

MADE IN GERMANY – MADE BY LAYHER

Headquarters in Eibensbach

Plant 2 in Gueglingen

QUALITY MADE IN GERMANY.

Quality made by Layher comes from Gueglingen-Eibensbach. Our company has set down deep local roots since it was established. Right up until today, development, production, logistics and management are all in one place. Proximity to development, logistics and administration creates benefits to our customers around the world: short ways, short response times, controlled quality and manufacturing. The production can be adapted to the requirements at short notice and to the needs of the customers.

SIMPLY SAFE. THE ACCESS SOLUTIONS.

This brand promise made by Layher is the expression of a brand philosophy that we've been living by for over 75 years. Quality assurance, future-proofing, delivery-securing, operational safety and long-lasting partnership are advantages that can be used to extend or increase your business opportunities and success in the long term. With comprehensive services, a permanent range of training courses and an ethos of customer focus, more than 1,900 dedicated Layher employees are creating more possibilities for our customers every single day. In 42 countries all over the world.

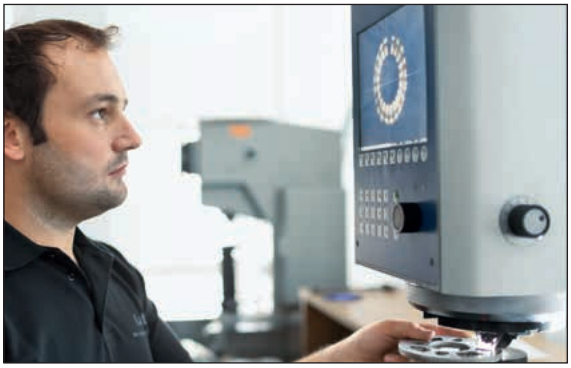
SUSTAINABILITY AT LAYHER.

We've long been acting with a clear focus, with a view to both economic and ecological sustainability in all our process steps. Social responsibility towards employees, clients and society as a whole are at the very centre of this. We're a dependable employer, active in protecting our resources. The sparing use of work materials as a feature of our sustainable approach is fundamental to how we see ourselves: we already take care to ensure sustainable building methods when planning a new production facility, for example by greening the roofs or using photovoltaic systems. We also value locations that are close by, avoiding unnecessary CO_2 emissions due to long traffic routes. The topic of sustainability is firmly embedded in Layher's organisational structure thanks to its energy management team. Their work has paid off in particular in the form of DIN EN ISO 50001 certification.

Discover the world of Layher in its company film at:
yt-image-en.layher.com

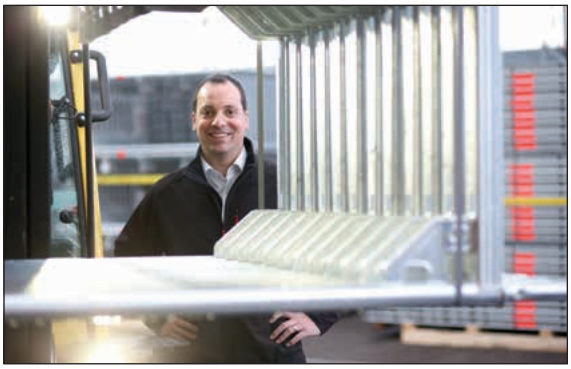
MORE SPEED

High level of material availability, effective delivery service and quick assembly and dismantling of the scaffolding systems thanks to 100% fitting accuracy.



MORE SAFETY

Outstanding quality and precision coupled with a long service life – confirmed internationally through independent certifications, inspections and approvals. Continuity and long-term partnership.



MORE PROXIMITY

Comprehensive personal consultation and close-knit delivery network. Global presence through our own subsidiaries. Family-owned company that works closely with its customers.

MORE SIMPLICITY

Economical scaffolding systems that have been proven in practice, available with an extensive product range. Cross-system combinations for versatile use. Rapid decision making thanks to efficient structures and processes.

MORE FUTURE

Thanks to permanent product innovations and the improvement of existing parts. By opening up new areas of business. With an integrated system to ensure high profitability and retention of investment value. Through an extensive range of training opportunities and seminars to ensure that customers are always right up-to-date with the latest technical and commercial developments.

Layher Lightweight: Through the use of high-tensile steel, a new production process, and an improved design, we have succeeded in minimising the weight of the core components of our systems – while maintaining or raising load-bearing capacity.

REQUIREMENTS OF THE DIN EN 131

DIN EN 131-1

With effect from 1 January 2018, extensive amendments to the standard will come into force for ladders used in the commercial field as simple ladders and will require a cross-piece for simple ladders with a length of 3 metres and above. This also includes multi-function ladders usable as simple ladders. The width of the cross-piece is proportionate to the ladder length and to the external width of the ladder, widening as the ladder length increases.

What does that mean for dealers? As a general principle your warehouse stocks are protected. You can still sell the ladders you purchased prior to 1 January 2018 without cross-pieces.

- Layher recommends however that simple ladders be immediately modified to comply with the current standard in accordance with DIN EN 131-1.
- Even multifunctional ladders such as the Layher telescopic ladder *TOPIC* 1058 must have a base widening in the lean-to position.

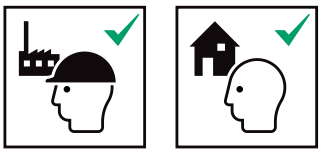
What does that mean for end users? Commercial users can use their simple ladders without cross-pieces until the next scheduled ladder inspection. After that, the ladders must be upgraded to conform to the new standard (i.e. with cross-pieces).

- Layher ladders are, thanks to the Combigrip ladder foot, simple to equip with cross-pieces so that they conform to the valid standard.

DIN EN 131-2

All ladders will be categorised as commercial-use or private-use-only ladders. This categorisation is based on a differing basic load during individual tests on the ladders (2250 N to 2700 N). Furthermore, 'durability test for double ladders', 'slip resistance test on floors for simple ladders', 'stability test of simple ladders with lateral stabilisation devices' and 'twisting test for simple ladders' have been added. The purpose of these additional tests is to improve the stability and safety of the products when in use. Ladders approved for commercial use may be used in private households too.

What does that mean for dealers? When selling the ladders, the intended use (private or commercial purposes) must be borne in mind. The approved application is identified by the following pictograms.



- All Layher ladders meet, without exception, the requirements for commercial use and hence also for private use.

What does that mean for end users? In the commercial field, only ladders approved for that purpose and identified by appropriate pictograms may be used.

- All Layher ladders meet, without exception, the requirements for commercial use and hence also for private use.

DIN EN 131-3

Since September 1, 2018 user information (instructions for assembly and use) must be supplied in printed form with every ladder. The label must now show the precisely specified DIN pictograms.

What does that mean for dealers? Since September 1, 2018 instructions for assembly and use must be supplied with every ladder sold. This must be forwarded by the dealer to the customer.

- Layher will implement this requirement starting on the date specified to do so. Instructions for assembly and use will then be enclosed ex works in the ladder packaging. Alternatively, they can be downloaded for printout in the 'Mediathek' at **downloads.layher.com** free of charge.

What does that mean for end users? The instructions for assembly and use must be kept to hand during use of the ladder.

DIN EN 131-4

Since September 2020 the amendments to standard DIN EN 131-4 apply. This means that multi-purpose ladders like the Layher car boot ladder *TOPIC* 1057.112 with 4 x 3 rungs, which can be used as a work platform, must be delivered by the manufacturer including matching platforms.

- Layher Steigtechnik is offering with immediate effect a simple, high-quality and economical solution: the car boot ladder 4 x 3 including platform with reference number 1057.043 as a KIT – consisting of car boot ladder *TOPIC* 1057 and platform.
- The telescopic ladder *TOPIC* 1058 with base widening, Ref. no. 1016.175 corresponds to latest version of the DIN EN 131-4.

What does that mean for customers and end users?

- After the new DIN EN 131-4 has come into effect, dealers may continue to sell ladders in stock that were produced in accordance with the previous standard.
- After the new DIN EN 131-4 has come into effect, customers may also continue to use already purchased ladders that were produced in accordance with the previous standard until the next scheduled ladder inspection.

LADDER EXAMINATION

- Every Layher ladder will be examined before leaving the plant.
- Please note the date the next examination on the ladder label (depending on the quantity of uses).
- Layher recommends an annual examination.
- The examination must be documented and archived and must be performed by a qualified person.

SAFER WORKING IN ACCORDANCE WITH TRBS 2121-2

FOR MORE SAFETY AT THE WORKPLACE

TRBS 2121-2 are technical rules for operating safety that govern the commercial use of ladders. They are not separate legal regulations. They specify, within the scope of their application, the requirements of the German Ordinance on Industrial Safety and Health. By compliance with these Technical Rules, contractors / commercial users can work on the assumption that the appropriate requirements of the Ordinance are met and that they are thus acting in conformity with the law.

Ladders as workplaces

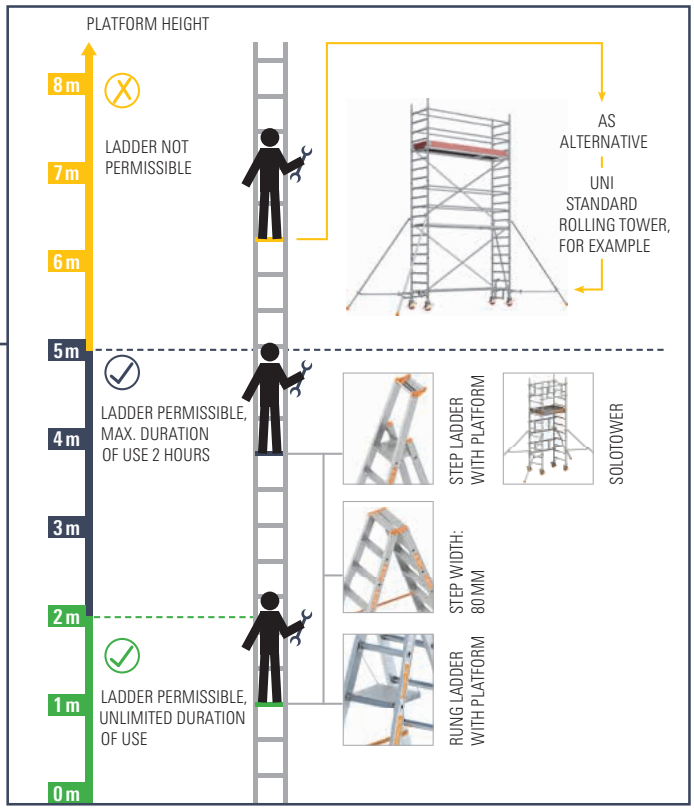
- The commercial user may use ladders as workplaces when standing with both feet on a step (min. 80 mm depth) or platform.
- The use of step ladders or platform ladders as high-level workplaces is permitted without restriction up to a platform height of 2 metres.
- For a platform height between 2 metres and 5 metres, ladders may be used for work in limited periods (up to 2 hours per work shift).
- Layher offers in its simple ladder and double ladder range various ladder models with steps and / or platform.
- Layher also offers a suspended platform (Ref. No. 1016.003) as a retrofit set, which can to used to upgrade existing rung ladders from Layher and allow them to remain in use as workplaces.

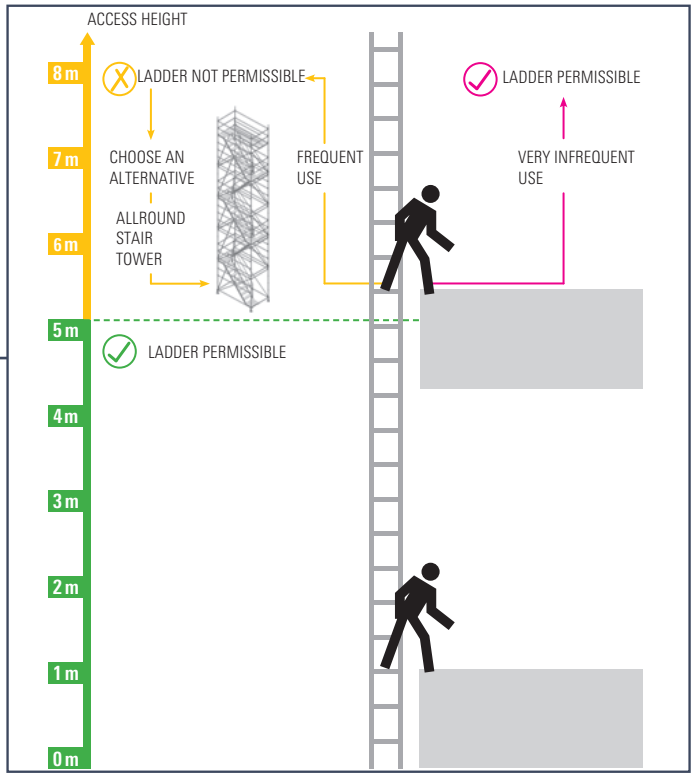
Use of rung ladders as workplaces in exceptional cases:

- In specifically justified exceptional cases (e.g. for work in narrow shafts, ergonomic reasons), working on portable ladders with rungs is permissible.
- The specific reasons must be documented by the contractor / commercial user in the risk assessment to be conducted for every activity / every site.

Ladders as accesses

- Up to a height of 5 metres, rung ladders and step ladders may remain in use as accesses (entry / exit) to high-level workplaces.
- Above 5 metres, ladders may only be used as accesses when this is only a very infrequent occurrence.
- Layher recommends, for alternative access to high-level workplaces above 5 metres, scaffolding stair towers made using Layher Allround Scaffolding.





LAYHER LADDERS

THE QUALITY IS IN THE DETAILS

Plastic-sheathed steel joints

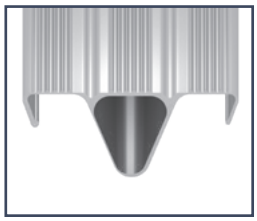
- Play-free screw connection for long life.

Stile section

- Torsion stiff stile section for high loads at low weight.
- Beading along the outer stile face prevents damage to the rung flanges, for example when they are slid over the edges of the truck loading area.

Quadruple folding

- Increased contact area by rung folding on the inner stile face.
- Higher forces can be transmitted.
- Optimal stile-rung-connection.

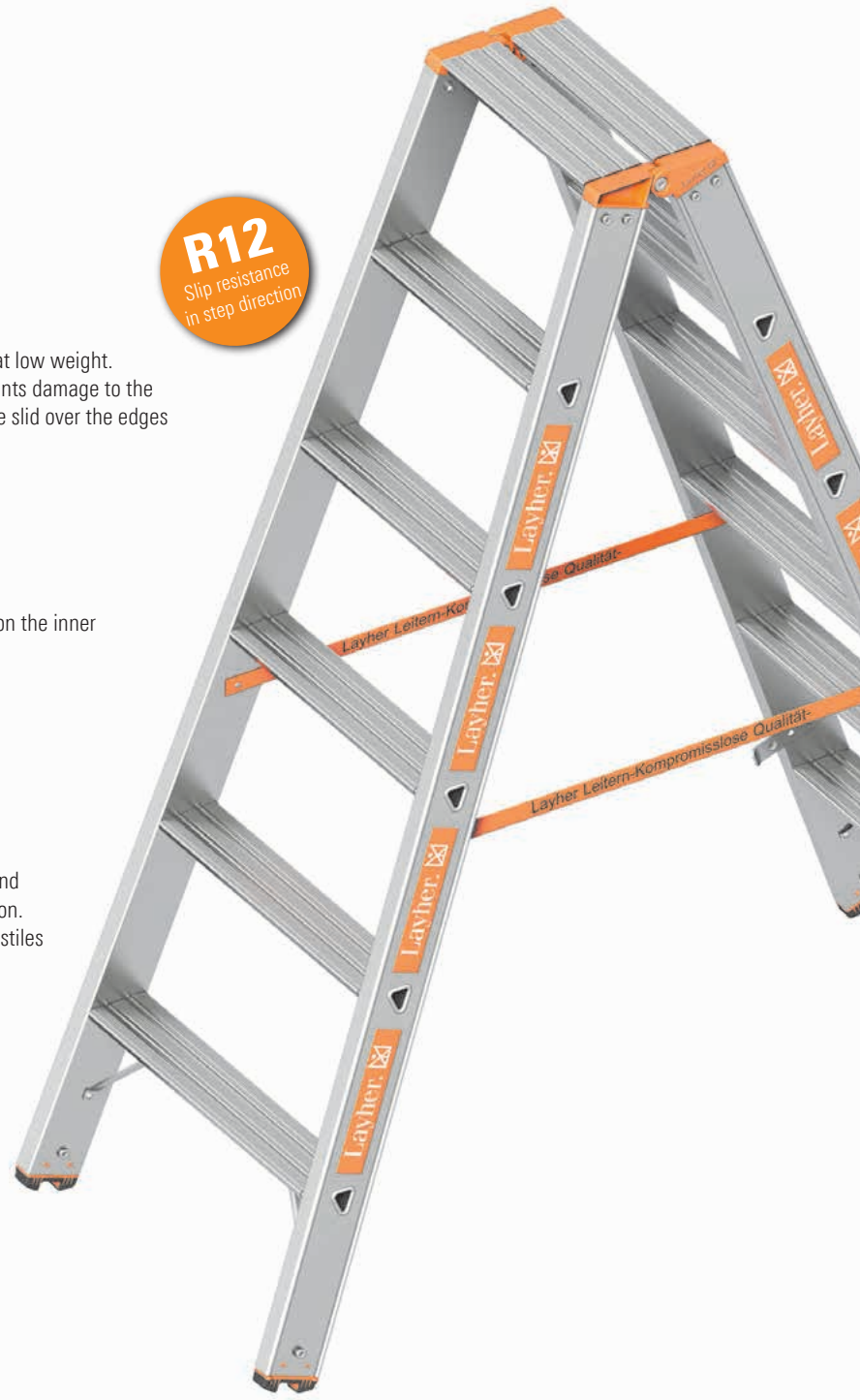


Triangular profile and grooving

- Sure footing by heavily grooved rungs and steps. R12 slip resistance in step direction.
- Increased turning protection within the stiles thanks to triangular rung shape.

Combigrip ladder foot

- Optimal hold in the stile with good slipping prevention.
- Easy and fast retrofitting of ladder cross-pieces for single ladders.



The load-bearing capacity of Layher Ladders is always 150 kg – if nothing different is mentioned.

With Layher ladders you don't just get the statutory warranty, but benefit from a 5-year Layher warranty. It covers material and workmanship flaws in all aluminium and steel parts. It starts from the purchase date of the product, as printed on your receipt.
The claims arising from this warranty will be processed at the location of one of our many branches or delivery warehouses in Germany or at our headquarters.

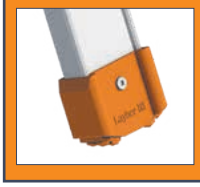
Documented safety: Layher products can be measured by these quality and safety standards:

Single ladder wide
TOPIC 1054

The wide single ladder for even more comfortable standing – increased stability and improved lateral stability. Slip-resistant plastic shoes for sure footing.

Clear width: **390 mm**
Outer width: **450 mm**
Rung spacing: **280 mm**
Cross-piece width (from 12 rungs): **1130 mm**

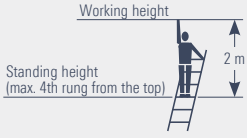
TIP:
With the Layher Combigrip ladder foot, you automatically comply with the new requirements of DIN EN 131-1, which will specify a cross-piece for simple ladders of 3 metres and more length. The Layher Combigrip ladder foot can be quickly and easily retrofitted in *TOPIC* ladders of earlier generations.
Retrofit kits see page 26.




TOPIC 1054

Length [m]	Number of rungs	Standing height [m]	Stile height [mm]	Weight approx. [kg]	Ref. No.	
1.75	6	0.70	64	4.0	**1054.006**	
2.30	8	1.25	64	5.0	**1054.008**	
2.85	10	1.80	64	6.0	**1054.010**	
3.50	12	2.40	64	9.5	**1054.012**	ⓘ
4.05	14	2.90	64	11.0	**1054.014**	ⓘ
4.65	16	3.45	64	12.5	**1054.016**	ⓘ
5.20	18	3.95	76	13.5	**1054.018**	ⓘ
5.75	20	4.50	76	15.5	**1054.020**	ⓘ
6.30	22	5.00	76	16.5	**1054.022**	ⓘ
6.85	24	5.55	100	18.0	**1054.024**	ⓘ

ⓘ Ladders, highlighted with ⓘ will be delivered ex works with cross-piece.



Suitable accessories


Suspended platform


Spike


Gutter holder


Suspension hook

Other accessories can be found on page 25.

Single step ladder
TOPIC 1042

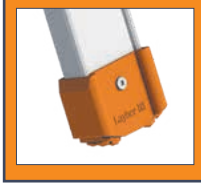
R12 Slip resistance in step direction

Single ladder with steps for a wider standing area. Easy to use, maximum safety thanks to slip-resistant plastic shoes.


up to 250 kg

Clear width: **390 mm**
Outer width: **450 mm**
Step spacing: **250 mm**
Step width: **80 mm**
Stile height: **76 mm**
Cross-piece width (from 12 rungs): **1130 mm**

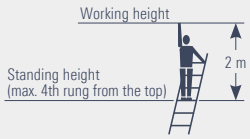
TIP:
With the Layher Combigrip ladder foot, you automatically comply with the new requirements of DIN EN 131-1, which will specify a cross-piece for simple ladders of 3 metres and more length. The Layher Combigrip ladder foot can be quickly and easily retrofitted in *TOPIC* ladders of earlier generations.
Retrofit kits see page 26.




TOPIC 1042

Length [m]	Number of rungs	Standing height [m]	Max. load [kg]	Weight approx. [kg]	Ref. No.	
1.65	6	0.65	**250**	5.0	**1042.006**	
1.90	7	0.90	**250**	5.6	**1042.007**	
2.15	8	1.10	**250**	6.2	**1042.008**	
2.40	9	1.35	**250**	7.0	**1042.009**	
2.65	10	1.60	**250**	7.6	**1042.010**	
3.25	12	2.15	**250**	12.4	**1042.012**	ⓘ
3.50	13	2.40	**250**	12.9	**1042.013**	ⓘ
3.70	14	2.60	**250**	13.4	**1042.014**	ⓘ
4.00	15	2.85	**250**	13.9	**1042.015**	ⓘ
4.20	16	3.10	**225**	14.3	**1042.016**	ⓘ
4.50	17	3.35	**225**	14.8	**1042.017**	ⓘ
4.75	18	3.60	**225**	15.3	**1042.018**	ⓘ

ⓘ Ladders, highlighted with ⓘ will be delivered ex works with cross-piece.



Suitable accessories


Spike


Gutter holder


Suspension hook


Cross-piece castors

Other accessories can be found on page 25.

PU = packaging unit = available ex works = delivery time on request = only available in this packaging unit

Truck ladder

1060

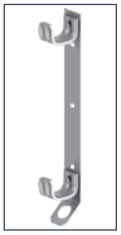
Ultra-light simple ladder made of aluminium. Ideal for accessing the truck loading surface.

Optimum stability and functionality from soft rubber shoes around the stile ends. This means that the ladder is suitable not only for access to the loading surface, but also for leaning up against the cab to clean its windscreen without damaging the vehicle paintwork.

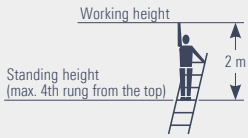
Clear width: **300 mm**
Outer width: **350 mm**
Rung spacing: **280 mm**

Truck ladder 1060

Length [m]	Number of rungs	Standing height [m]	Weight approx. [kg]	Ref. No.
2.10	7	1.05	3.3	**1060.007**



A matching holder is available for optimum attachment of truck ladder 1060 to the vehicle.
Ref. No. 1060.001



Wooden single ladder

1052

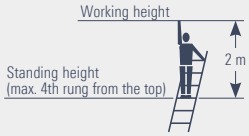
The wooden single ladder is a simple, sturdy yet high-quality ladder. The stiles are made of solid red pine. The rungs are made from sturdy beechwood.

Thanks to the special square-section studs and a special gluing process, a durable and permanent connection between stile and rung is achieved.

Clear width: **350 mm**
Outer width: **400 mm**
Rung spacing: **280 mm**

Wooden single ladder 1052

Length [m]	Number of rungs	Standing height [m]	Stile height [mm]	Weight approx. [kg]	Ref. No.
1.90	6	0.80	65	5.5	**1052.206**
2.45	8	1.35	65	7.5	**1052.208**
2.99	10	1.85	65	9.5	**1052.210**



Suitable accessories


Ladder shoe for wooden ladder


Suspended platform


Wood stile extension set EasyFix

Other accessories can be found on page 25.

Wooden single ladder for builders
1036

The classic wooden single ladder is ideal for many applications, e.g. rugged use on construction sites.

Stiles and rungs made of narrow-ringed spruce.

Clear width: min. **305 mm,** max. **375 mm**
Outer width at top: **375 mm**
Rung spacing: **280 mm**

Due to its conical design with pointed bar ends, the builder's ladder 1036 corresponds to the DIN 4567-3 and is therefore not subject to cross-piece obligation according to DIN EN 131.

Combination single ladder
1029

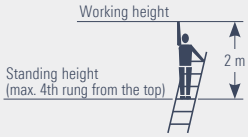
The classic single ladder has remarkable weight advantages thanks to the aluminium rungs which are suitable for regular and continuous use. Ideal for electricians and craftsmen as the ladder is electrically non-conductive. Information on the insulation resistance, in accordance with **VDE 0100,** is available.

Clear width: **300 mm**
Outer width: **350 mm**
Rung spacing: **280 mm**

From a length of 3 m the ladder 1029 does not correspond to the newest version of the DIN EN 131.

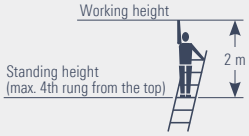
Wooden single ladder for builders 1036

Length [m]	Number of rungs	Standing height [m]	Stile height [mm]	Outer width at bottom [mm]	Weight approx. [kg]	Ref. No.
3.00	10	1.85	85	430	11.9	**1036.010**
4.00	14	2.90	90	450	16.6	**1036.014**
5.00	17	3.70	95	470	20.2	**1036.017**
6.00	21	4.75	100	490	25.0	**1036.021**



Combination single ladder 1029

Length [m]	Number of rungs	Standing height [m]	Stile height [mm]	Weight approx. [kg]	Ref. No.
2.40	8	1.30	75	5.8	**1029.008**
2.95	10	1.85	75	6.8	**1029.010**
3.50	12	2.40	75	8.6	**1029.012**
4.05	14	2.90	75	9.6	**1029.014**
4.35	15	3.15	75	10.2	**1029.015**
4.90	17	3.70	75	11.8	**1029.017**



Suitable accessories

Suspended platform

Ladder wall mounting

Other accessories can be found on page 25.

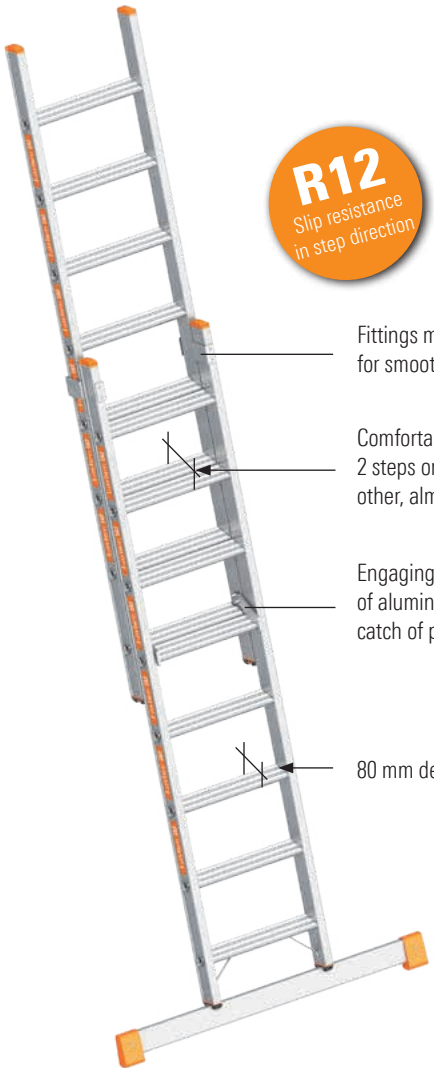
PU = packaging unit = available ex works = delivery time on request = only available in this packaging unit

Extension step ladder

TOPIC 1032

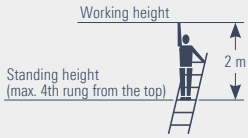
The Extension Step Ladder *TOPIC* 1032 has the proven torsionstiff stile sections for high loads with a low weight. It also has, in accordance with DIN EN 131-1, a 1130 mm wide cross-piece to widen the base.
The extending ladder (top section) is behind the bottom section, enabling smooth ascents and descents while reducing the risk of stumbling.

Clear width: **390 mm**
Outer width: **450 mm**
Rung spacing: **250 mm**
Cross-piece width: **1130 mm**



Extension step ladder *TOPIC* 1032

Length contr. [m]	Length extend. [m]	Standing height [m]	Number of rungs	Stile height [mm]	Outer width at bottom [mm]	Weight approx. [kg]	Ref. No.
2.30	3.25	2.10	8	76	450	15.0	**1032.008**
2.80	4.25	3.10	10	76	450	17.8	**1032.010**
3.30	5.25	4.00	12	76	450	20.5	**1032.012**
3.80	6.25	4.95	14	76	450	23.3	**1032.014**



Suitable accessories


Insert hook


Cross-piece castors


Suspension hook


Wall bracket

THE BENEFITS FOR YOU

- Steps made of aluminium, grooved for better anti-slip resistance
- 80 mm deep steps, conforming to TRBS 2121-2 guidelines
- Comfortable stance with two steps one behind the other (like a platform)
- Comfortable width of 390 mm
- Sturdy aluminium fittings and engaging hooks
- Step spacing of 250 mm
- Maximum load of 150 kg
- Cross-piece for all four ladder sizes

Other accessories can be found on page 25.

Extension ladder

TOPIC 1035

Two-part extension ladder for greater heights, with short transport and storage dimensions. Manual length adjustment rung by rung using engaging hook, secured against lifting out and sliding out of position on transport and use.

Clear width: **300 / 375 mm**
Outer width: **355 / 435 mm**
Rung spacing: **280 mm**
Cross-piece width: **890 mm** (to 10 rungs)
1360 mm (from 12 rungs)

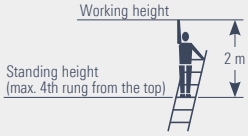
The *TOPIC* 1035 can optionally be equipped with rollers.
See page 24+25.

TIP:
With the Layher Combigrip ladder foot, you automatically comply with the new requirements of DIN EN 131-1, which will specify a cross-piece for simple ladders of 3 metres and more length. The Layher Combigrip ladder foot can be quickly and easily retrofitted in *TOPIC* ladders of earlier generations.
Retrofit kits see page 26.


***TOPIC* 1035**

Length extend. [m]	Length contr. [m]	Number of rungs	Standing height [m]	Stile height [mm]	Weight approx. [kg]	Ref. No.	
2.85	1.75	2 x 6	1.80	64	7.6	**1035.006**	
3.80	2.30	2 x 8	2.65	64	12.5	**1035.008**	ⓘ
4.80	2.85	2 x 10	3.70	76	14.6	**1035.010**	ⓘ
5.95	3.40	2 x 12	4.75	76	18.4	**1035.012**	ⓘ
7.05	4.00	2 x 14	5.85	100v	22.2	**1035.014**	ⓘ
8.00	4.55	2 x 16	6.60	100v	24.6	**1035.016**	ⓘ
9.10	5.10	2 x 18	7.65	100v	28.8	**1035.018**	ⓘ

ⓘ Ladders, highlighted with ⓘ will be delivered ex works with cross-piece.




Step attachement

Suitable accessories


Suspended platform


Cross-piece castors


Suspension hook


Wall bracket

Other accessories can be found on page 25.

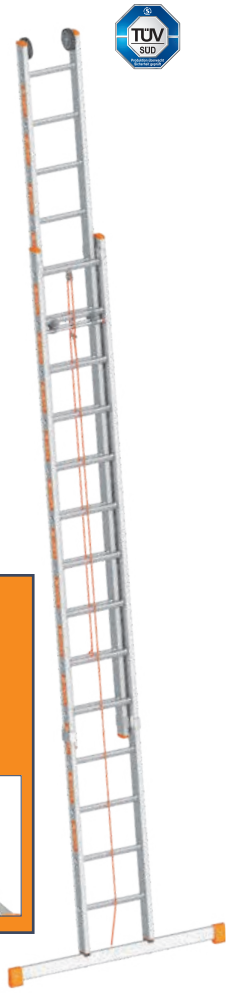
Rope extension ladder

TOPIC 1037

For great heights. Always achieve the right working height thanks to rung-by-rung extension. Easy to use rope control, long-life plastic rope, releasing, lowering and securing with automatic drop catch. Rollers with rubber tyre to prevent damage when running up and down walls.


Clear width: **300 / 375 mm**
Outer width: **355 / 435 mm**
Rung spacing: **280 mm**
Cross-piece width: **1360 mm**

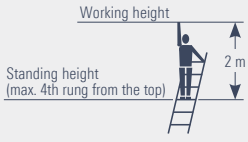
TIP:
With the Layher Combigrip ladder foot, you automatically comply with the new requirements of DIN EN 131-1, which will specify a cross-piece for simple ladders of 3 metres and more length. The Layher Combigrip ladder foot can be quickly and easily retrofitted in *TOPIC* ladders of earlier generations.
Retrofit kits see page 26.

***TOPIC* 1037**

Length extend. [m]	Length contr. [m]	Number of rungs	Standing height [m]	Stile height [mm]	Weight approx. [kg]	Ref. No.	
7.15	4.10	2 x 14	5.80	100v	23.6	**1037.014**	ⓘ
8.30	4.65	2 x 16	6.85	100v	26.2	**1037.016**	ⓘ
9.10	5.20	2 x 18	7.60	100v	31.0	**1037.018**	ⓘ
10.25	5.75	2 x 20	8.70	100v	34.4	**1037.020**	ⓘ
11.35	6.30	2 x 22	9.75	100v	37.6	**1037.022**	ⓘ

ⓘ Ladders, highlighted with ⓘ will be delivered ex works with cross-piece.




Step attachement

Suitable accessories


Suspended platform


Cross-piece castors


Suspension hook


Wall bracket

Other accessories can be found on page 25.

PU = packaging unit = available ex works = delivery time on request = only available in this packaging unit

Wooden double ladder with steps

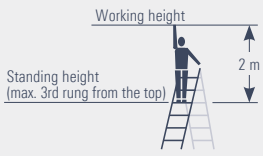
1020

The classic craftsman's ladder. With 80 mm wide steps, access from either side and complete with tool bag, over-spreading prevented by 2 polyester straps, adjustable clamping pins, sturdily designed and galvanized steel hinges with bucket hook, metal catch at bottom of ladder to secure it during transport. Stiles of solid red pine. Rungs made of sturdy beechwood. Thanks to the special square-section studs and a special gluing process, a durable and permanent connection between stile and rung is achieved.

Step spacing: **250 mm**
Step width: **80 mm**
Stile height: **76 mm**

Wooden double ladder with steps 1020

Length [m]	Standing height [m]	Number of steps	Stile height [mm]	Outer width at bottom [mm]	Weight approx. [kg]	Ref. No.
1.12	0.50	4	70	0.50	7.7	**1020.004**
1.37	0.74	5	70	0.53	9.6	**1020.005**
1.62	0.98	6	70	0.56	11.6	**1020.006**
1.87	1.22	7	70	0.58	13.6	**1020.007**
2.12	1.46	8	70	0.61	15.7	**1020.008**
2.38	1.70	9	70	0.64	17.8	**1020.009**
2.62	1.94	10	70	0.66	20.0	**1020.010**



Suitable accessories

Ladder shoe for wooden ladder

Wood stile extension set EasyFix

Other accessories can be found on page 25.

Wooden double ladder

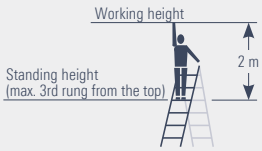
1038

The classic craftsman's ladder. Access from either side and complete with tool bag, over-spreading prevented by 2 polyester straps, adjustable clamping pins, sturdily designed and galvanized steel hinges with bucket hook, metal catch at bottom of ladder to secure it during transport. Stiles of solid red pine. Rungs made of sturdy beechwood. Thanks to the special square-section studs and a special gluing process, a durable and permanent connection between stile and rung is achieved.

Rung spacing: **280 mm**
Rung dimensions: **44 x 22 mm**

Wooden double ladder 1038

Length [m]	Standing height [m]	Number of rungs	Stile height [mm]	Outer width at bottom [mm]	Weight approx. [kg]	Ref. No.
1.00	0.30	3	65	0.47	5.7	**1038.203**
1.25	0.55	4	65	0.50	7.4	**1038.204**
1.50	0.80	5	65	0.53	8.9	**1038.205**
1.85	1.05	6	65	0.56	10.4	**1038.206**
2.10	1.30	7	65	0.59	12.5	**1038.207**
2.35	1.60	8	65	0.62	14.3	**1038.208**
2.65	1.85	9	65	0.65	15.7	**1038.209**
2.95	2.10	10	65	0.68	17.5	**1038.210**
3.50	2.65	12	70	0.74	25.5	**1038.212**
4.10	3.15	14	70	0.80	30.0	**1038.214**



Suitable accessories

Suspended platform

Ladder shoe for wooden ladder

Wood stile extension set EasyFix

Other accessories can be found on page 25.

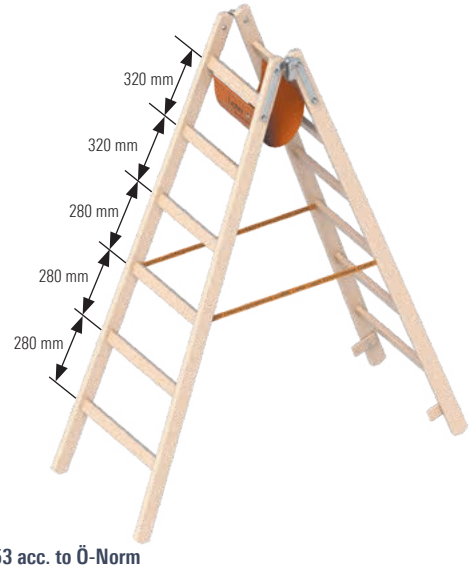
Wooden double ladder acc. to Ö-Norm Z1501

1053

The both side accessible wooden ladder for special professional use.
It contains ergonomic needs of painters, wallpaperers while long standing on the rungs. The ladders according to the additional Austrian standard Z1501 are made accordingly to EN 131-1 and -2, excepting the two top rung spacings. They are 320 mm for comfortable standing on the ladder.

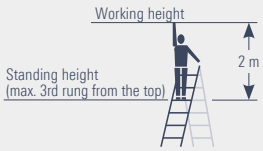
The configuration is the same as the wooden double ladder 1038
Rung spacing: **280 and 320 mm**

AUVA approved



Wooden double ladder 1053 acc. to Ö-Norm

Length [m]	Standing height [m]	Number of rungs	Stile height [mm]	Outer width at bottom [mm]	Weight approx. [kg]	Ref. No.
1.30	0.55	4	65	0.53	7.4	**1053.204**
1.60	0.80	5	65	0.56	9.2	**1053.205**
1.90	1.05	6	65	0.58	10.7	**1053.206**
2.15	1.30	7	65	0.61	12.8	**1053.207**
2.45	1.60	8	65	0.64	14.6	**1053.208**
2.70	1.85	9	65	0.67	16.0	**1053.209**
3.00	2.10	10	65	0.70	17.8	**1053.210**
3.55	2.65	12	70	0.76	25.8	**1053.212**



Suitable accessories

Ladder shoe for wooden ladder

Other accessories can be found on page 25.

Combination double ladder

1028

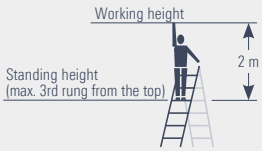
The wood / aluminium ladder, tried, tested and praised by craftsmen.
Ideal for electricians and craftsmen, as it is not electrically conductive.
Information on the insulation resistance, in accordance with **VDE 0100** is available.

Sturdy and torsion-stiff design. Extra-strong steel hinges, tear-proof polyester straps to prevent over-spreading.

Rung spacing: **280 mm**

Combination double ladder 1028

Length [m]	Standing height [m]	Number of rungs	Stile height [mm]	Outer width at bottom [mm]	Weight approx. [kg]	Ref. No.
1.55	0.80	5	75	0.50	7.6	**1028.005**
1.80	1.05	6	75	0.53	9.0	**1028.006**
2.10	1.30	7	75	0.56	11.0	**1028.007**
2.40	1.60	8	75	0.59	12.6	**1028.008**
2.95	2.10	10	75	0.65	16.0	**1028.010**
3.50	2.65	12	75	0.71	19.2	**1028.012**



Suitable accessories

Suspended platform

Insert hook

TOPIC Box

Other accessories can be found on page 25.

Double step ladder
TOPIC 1043

R12 Slip resistance in step direction

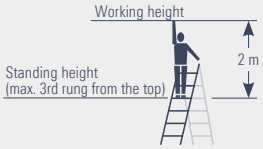
The classic double ladder design with comfortable and wide steps. **Plastic-sheathed steel hinges,** angle reinforcements and tear-proof polyester straps are quality features. The two top steps make up a platform.

The *TOPIC* 1043 is also available with chain as protection against over-spreading.

Step spacing: **250 mm**
Step width: **80 mm**
Stile height: **76 mm**
Maximum load: **150 kg**

TOPIC 1043

Length [m]	Standing height [m]	Number of steps	Max. load [kg]	Outer width at bottom [mm]	Weight approx. [kg]	Ref. No.
0.75	0.25	3	**250**	0.46	5.6	**1043.003**
1.00	0.50	4	**250**	0.48	6.8	**1043.004**
1.25	0.70	5	**250**	0.51	8.4	**1043.005**
1.50	0.95	6	**200**	0.53	9.8	**1043.006**
1.75	1.20	7	**200**	0.57	11.4	**1043.007**
2.00	1.40	8	**200**	0.60	13.4	**1043.008**
2.50	1.90	10	**150**	0.66	16.2	**1043.010**
3.00	2.40	12	**150**	0.72	19.8	**1043.012**



Suitable accessories


Insert hook


TOPIC Box

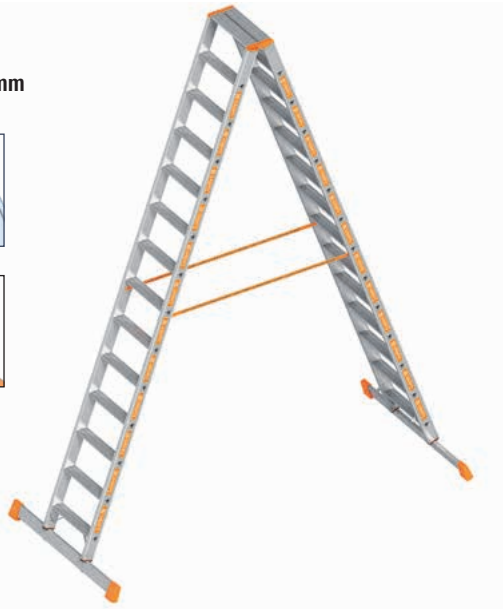
Other accessories can be found on page 25.

Double step ladder
TOPIC 1043.1

R12 Slip resistance in step direction

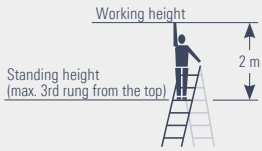
An extension of the classic step ladder with comfortable and wide steps, **plastic-sheathed steel hinges**, angle reinforcements and tear-proof polyester straps are quality features. Parallel stiles with a stile height of 76 mm, aclear width of 390 mm and cross-pieces on both sides guarantee a high level of safety plus convenient access.

Step spacing: **250 mm**
Step width: **80 mm**
Stile height: **76 mm**
Maximum load: **150 kg**
Cross-piece width: **1130 mm**



TOPIC 1043.1

Length [m]	Standing height [m]	Number of steps	Max. load [kg]	Outer width at bottom [mm]	Weight approx. [kg]	Ref. No.
3.25	2.60	13	**150**	0.45	25.6	**1043.113**
3.50	2.85	14	**150**	0.45	26.6	**1043.114**
3.75	3.05	15	**150**	0.45	27.6	**1043.115**
4.00	3.30	16	**150**	0.45	28.6	**1043.116**



Suitable accessories


Insert hook


TOPIC Box

Other accessories can be found on page 25.

R12 Slip resistance in step direction

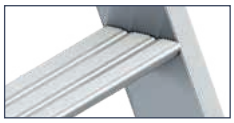
Double step ladder with access on one side

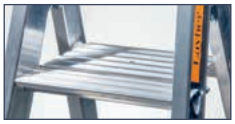
TOPIC 1064

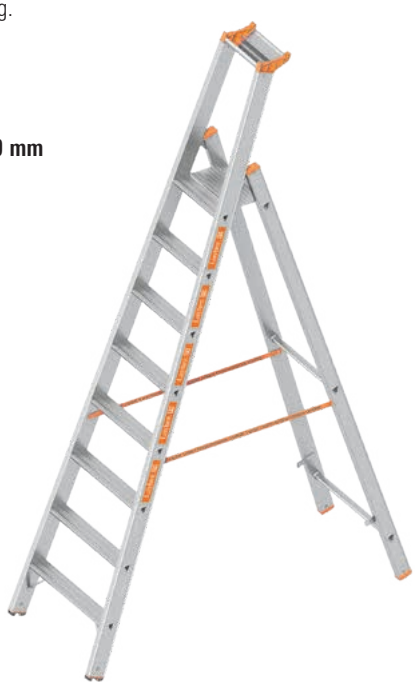
A safer stance at all times from the platform, extended stiles and knee bar shaped as a storage tray. The amply dimensioned platform folds up for transport. Tear-proof polyester straps to prevent over-spreading.

The *TOPIC* 1064 is also available with chain as protection against over-spreading.

Step spacing: **250 mm**
Step width: **80 mm**
Platform dimensions: **248 x 300 mm**

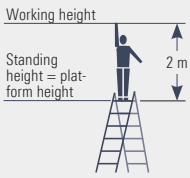






***TOPIC* 1064**

Length [m]	Standing height [m]	Number of steps	Stile height [mm]	Outer width at bottom [mm]	Weight approx. [kg]	Ref. No.
1.45	0.70	3	76	0.46	6.2	**1064.003**
1.70	0.95	4	76	0.48	7.0	**1064.004**
1.95	1.20	5	76	0.51	8.0	**1064.005**
2.20	1.40	6	76	0.53	9.2	**1064.006**
2.45	1.65	7	76	0.57	10.4	**1064.007**
2.70	1.90	8	76	0.60	11.6	**1064.008**
2.95	2.10	9	76	0.64	13.2	**1064.009**
3.20	2.35	10	76	0.66	14.0	**1064.010**
3.70	2.80	12	76	0.72	16.4	**1064.012**



Suitable accessories

Spike

Other accessories can be found on page 25.

R12 Slip resistance in step direction

Platform ladder

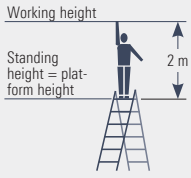
TOPIC 1074

The *TOPIC* 1074 platform ladder for access from one side is a comfortable aid to doing lengthy work on the ladder. The large 480 x 420 mm platform using a non-slip grooved metal plate ensures a sure footing particularly for lengthy work on the ladder. Handrails fitted to the stile on both sides permit a safer grip when climbing up and down the ladder.

Step spacing: **250 mm**
Step width: **80 mm**
Platform dimensions: **480 x 420 mm**
Cross-piece width: **890 mm**

***TOPIC* 1074**

Length [m]	Standing height [m]	Stile height [mm]	Number of steps	Projection [m]	Weight approx. [kg]	Ref. No.
2.10	0.90	76	4	0.99	12.0	**1074.004**
2.40	1.20	76	5	1.14	13.2	**1074.005**
2.60	1.40	76	6	1.27	14.7	**1074.006**
2.80	1.60	76	7	1.41	15.6	**1074.007**
3.10	1.90	76	8	1.55	16.3	**1074.008**



Suitable accessories

Cross-piece castors

Insert hook

Ladder wall mounting

Other accessories can be found on page 25.

PU = packaging unit = available ex works = delivery time on request = only available in this packaging unit

Double rung ladder
TOPIC 1039

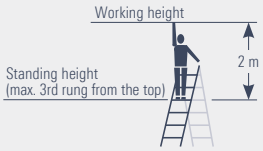
The traditional double ladder with a wide range of safety features:
Plastic-sheathed steel hinges, tear-proof polyester straps to prevent over-spreading, slip-resistant plastic shoes.
Additional stiffeners at the end of the stile ensure that the values specified in DIN EN 131 are bettered.

The *TOPIC* 1039 is also available with chain as protection against over-spreading.

Rung spacing: **280 mm**
Stile height: **64 mm** (to 14 rungs)
76 mm (to 16 rungs)

***TOPIC* 1039**

Length [m]	Standing height [m]	Number of rungs	Outer width at bottom [mm]	Projection [m]	Weight approx. [kg]	Ref. No.
1.30	0.55	4	0.48	1.00	6.0	**1039.004**
1.55	0.80	5	0.51	1.20	6.8	**1039.005**
1.85	1.05	6	0.54	1.40	8.0	**1039.006**
2.10	1.30	7	0.57	1.60	9.2	**1039.007**
2.40	1.60	8	0.60	1.75	10.4	**1039.008**
2.70	1.85	9	0.62	1.95	12.0	**1039.009**
2.95	2.10	10	0.66	2.15	13.2	**1039.010**
3.50	2.65	12	0.72	2.55	16.0	**1039.012**
4.10	3.15	14	0.78	2.90	18.8	**1039.014**
4.65	3.70	16	0.84	3.30	24.9	**1039.016**
5.20	4.20	18	0.90	3.70	30.1	**1039.018**



Suitable accessories


Suspended platform


Spike


Suspended bag with hook


TOPIC Box

Other accessories can be found on page 25.

Stair Double Ladder With Steps
TOPIC 1062

The professional solution not just for stairways. With the stairway double ladder, level equalization on uneven surfaces or stairways is no problem. The sturdy design and well thought-out details ensure optimum handling.

The stile extensions permanently attached to the ladder are quick to lock and easy to use thanks to rotary knobs fitted on the inside of the stile.

Step spacing: **250 mm**
80 mm wide grooved steps
Slip resistance R12
Adjustment range of stile extensions on the one side of 40 cm and on the other side of 80 cm.
Sturdy, plastic-sheathed steel hinges.
Tear-proof polyester straps.
Maximum load: **150 kg**

***TOPIC* 1062**

Length [m]	Standing height [m]	Number of rungs	Outer width of ladder stiles at bottom [m]	Weight approx. [kg]	Ref. No.
1.25	0.70	5	0.58	14.3	**1062.005**
1.50	0.95	6	0.61	15.2	**1062.006**
1.75	1.20	7	0.65	17.3	**1062.007**
2.00	1.40	8	0.68	19.3	**1062.008**

Stairway double ladder
TOPIC 1061

The stile extensions have an adjustment range of 40 cm on one side and of 102 cm on the other side.

Rung spacing: **280 mm**
Stile height: **64 mm**

***TOPIC* 1061**

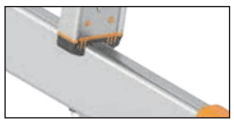
Length [m]	Standing height [m]	Number of rungs	Outer width at bottom [mm]	Projection [m]	Weight approx. [kg]	Ref. No.
1.55	0.80	5	0.51	1.20	12.3	**1061.005**
1.85	1.05	6	0.54	1.40	13.5	**1061.006**
2.10	1.30	7	0.57	1.60	14.7	**1061.007**
2.40	1.60	8	0.60	1.75	15.9	**1061.008**

Folding ladder

TOPIC 1056

The Layher folding Ladder *TOPIC* 1056 is the perfect choice if you're using a double ladder that can be turned quickly and easily into a simple ladder. Strong and securely engaging steel joints ensure the required working position. For optimum stability, the Layher folding Ladder is fitted on one side with an 890 mm wide cross-piece.

All-round grooved triangular rungs, quadruple-folded with the stile, ensure comfortable and sure footing at all times.

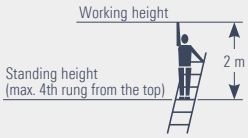


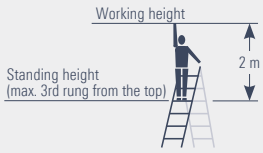
Rung spacing: **280 mm**
Outer width: **395 mm**
Stile height: **64 mm**
Cross-piece width: **890 mm**

Assembly variants

TOPIC 1056

Max. length [m]	Min. length [m]	Standing height double ladders [m]	Standing height single ladders [m]	Number of rungs	Weight approx. [kg]	Ref. No.
2.45	1.25	0.55	1.30	2 x 4	7.8	**1056.008**
3.60	1.80	1.10	2.35	2 x 6	9.5	**1056.012**
4.70	2.40	1.60	3.40	2 x 8	11.6	**1056.016**





Suitable accessories

Suspended platform

Insert hook

Other accessories can be found on page 25.

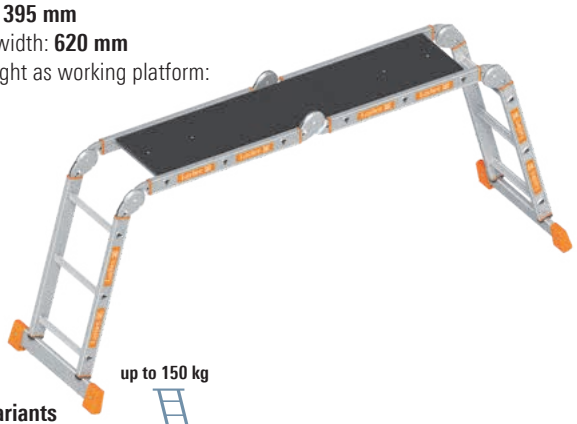
Car boot ladder

TOPIC 1057

With the changes of the standard DIN EN 131 Part 4, multi-purpose ladders, like the Layher car boot ladder *TOPIC* 1057.112 with 4 x 3 rungs, which can be used as work platform, have to be equipped with suitable platform kits.

1057.043
Stile height: **64 mm**
Rung spacing: **280 mm**
Outer width: **395 mm**
Cross-piece width: **620 mm**
Standing height as working platform: **890 mm**

Transport / packaging dimensions:
1057.043 0.91 x 0.63 x 0.29 m



Assembly variants

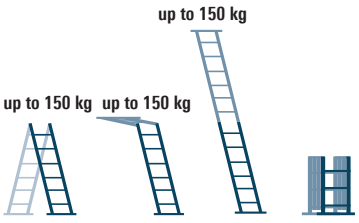
TOPIC 1057.043

Max. length [m]	Standing height single ladder [m]	Standing height single ladder with wall clearance [m]	Standing height double ladder [m]	Number of rungs	Weight approx. [kg]	Ref. No.
3.45	2.30	1.50	1.00	4 x 3	18	**1057.043**

1057.116
Stile height: **64 mm**
Rung spacing: **280 mm**
Outer width: **395 mm**
Cross-piece width: **890 mm**
Note: The 1057.116 cannot be used as a working platform.

Transport / packaging dimensions:
1057.116 1.20 x 0.89 x 0.29 m

Assembly variants



TOPIC 1057.116

Max. length [m]	Standing height single ladder [m]	Standing height single ladder with wall clearance [m]	Standing height double ladder [m]	Number of rungs	Weight approx. [kg]	Ref. No.
4.60	3.35	2.55	1.55	4 x 4	16.5	**1057.116**

PU = packaging unit = available ex works = delivery time on request = only available in this packaging unit

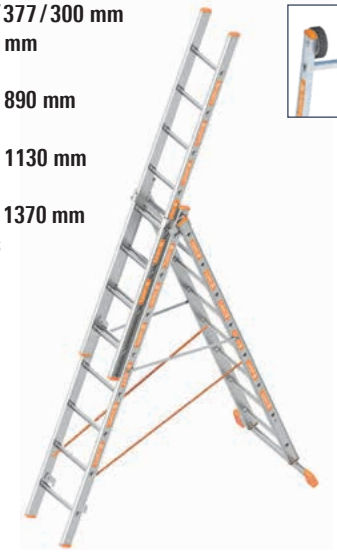
All-purpose ladder 3-part

TOPIC 1040

Options to use as an extension ladder, single ladder, double ladder or extendable double ladder – all possible thanks to special joints. Safer free standing of ladder thanks to cross-piece. Aluminium stiffener with pushbutton locking. Also the assembly is done within only a few second. Manual length adjustment rung by rung using engaging hook. Secured against lifting out and sliding out of position. Easy handling in all variants. Securing flaps prevent a lateral movement of the ladder pieces while carrying. The *TOPIC* 1040 can optionally be equipped with rollers. See page 24+25.

Clear width: **454 / 377 / 300 mm**
Rung spacing: **280 mm**

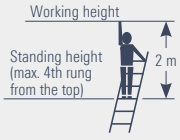
Cross-piece width: **890 mm**
with 6 – 8 rungs
Cross-piece width: **1130 mm**
with 10 rungs
Cross-piece width: **1370 mm**
with 12 – 14 rungs

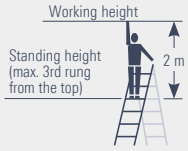


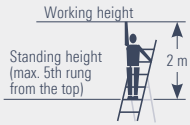
Assembly variants

TOPIC 1040

Max. length [m]	Min. length [m]	Standing heigth double ladder [m]	Standing height top section extended [m]	Standing height extension ladder [m]	Number of rungs	Stile height [mm]	Weight approx. [kg]	Ref. No.
4.15	1.95	1.05	1.60	2.85	3 x 6	76	15.6	**1040.006**
5.30	2.50	1.55	2.10	3.90	3 x 8	76	19.5	**1040.008**
6.95	3.05	2.05	3.15	5.20	3 x 10	76	23.2	**1040.010**
8.10	3.60	2.55	4.20	6.80	3 x 12	100	31.7	**1040.012**
9.80	4.15	3.05	5.25	8.35	3 x 14	100	35.5	**1040.014**







Step attachement

Suitable accessories

Suspended platform

Top rollers

Suspension hook

Wall bracket

Other accessories can be found on page 25.

Telescopic ladder

TOPIC 1058

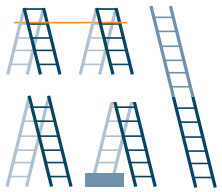
Very versatile in use: as double ladder with variable height adjustment on one side. As a classic single ladder. And as two separate work trestles. Manual length adjustment rung by rung. Sturdy pin joints secure the ladder in the appropriate setting for use.

The standing width of the *TOPIC* 1058 with base widening corresponds to the latest version of the DIN EN 131-4.

Rung spacing: **280 mm**
Stile height: **64 mm**

Corresponds to the DIN EN 131-4

Assembly variants



TOPIC 1058

Max. length [m]	Standing height double ladder [m]	Standing height single ladder [m]	Number of rungs	Weight approx. [kg]	Ref. No.
4.15	1.35	3.00	4 x 4	14.0	**1058.016**
5.25	1.90	4.10	4 x 5	16.7	**1058.020**
6.40	2.45	5.15	4 x 6	20.5	**1058.024**

Transport / packaging dimensions:
1058.016: 1.34 x 0.60 x 0.23 m
1058.020: 1.61 x 0.67 x 0.23 m
1058.024: 1.85 x 0.72 x 0.23 m

Stile extension
Usable as stile extension and as a cross-piece.
Max. permissible stile extension: 450 mm

Weight approx. [kg]	Ref. No.
1.6	**1058.001**

Base widening

Alu telescopic stage

1351

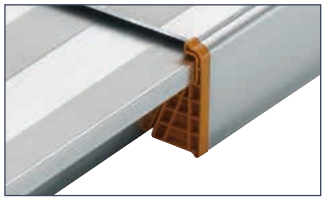
The Alu telescopic stage offers a wide and variable range of possible applications. For transport, the telescopic stage can be simply pushed together, resulting in low transport dimensions. Since the Alu telescopic stage is extendable, it can be pulled out or pushed together to provide any required length.

The automatic locking mechanism ensures that the inner extending element cannot slide out by mistake. The supporting structure is made of specially developed and torsion-stiff extruded aluminium sections.

All section ends are provided with plastic caps. They act as sliding elements and provide protection from injury. Thanks to these plastic sliding elements, the effort required to slide the telescopic stage in and out is very low.

Alu telescopic stage 1351

Max. length [m]	Min. length [m]	Width [m]	Height [m]	Weight approx. [kg]	Ref. No.
2.90	1.64	0.31	0.08	13.0	**1351.290**
3.50	1.92	0.31	0.08	16.0	**1351.350**
4.00	2.27	0.31	0.08	18.0	**1351.400**
4.40	2.49	0.31	0.08	20.0	**1351.440**

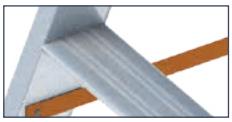


Alu heavy-duty step

TOPIC 1043.3

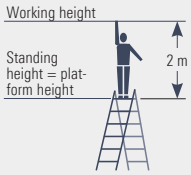
The classic step design with comfortable and wide steps.
Plastic-sheathed steel hinges, angle reinforcements and tear-proof polyester straps are quality features. The platform at the top can be footed.

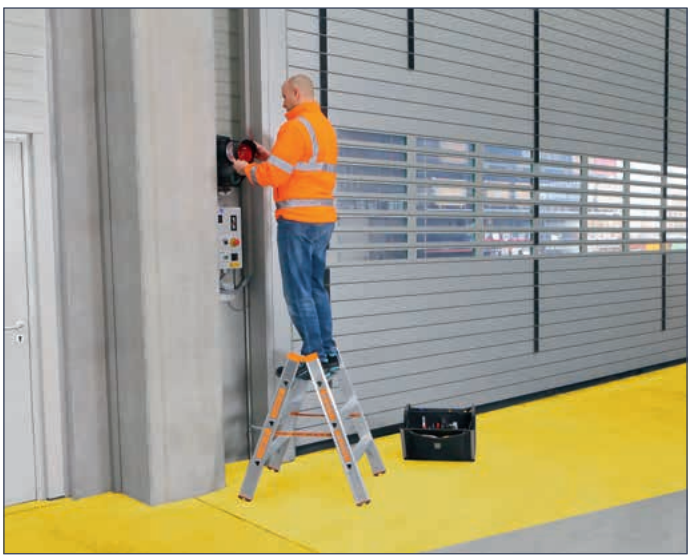
Step spacing: **250 mm**
Step width: **80 mm**
Stile height: **76 mm**
Platform dimensions: **480 mm x 285 mm**



***TOPIC* 1043.3**

Length [m]	Standing height [m]	Number of rungs	Outer width at bottom [mm]	Weight approx. [kg]	Ref. No.
0.90	0.70	3	0.65	8.4	**1043.303**
1.15	0.95	4	0.65	9.6	**1043.304**





PU = packaging unit = available ex works = delivery time on request = only available in this packaging unit

Work trestle
TOPIC 1047

R12 Slip resistance in step direction

Aluminium work trestle. Safe access on one side thanks to wide steps. Ideal as a lightweight, simple and small scaffolding for construction work. Folds together for transport.

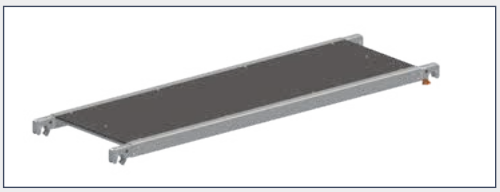
Step spacing: **250 mm**
Step width: **80 mm**
Width when folded out: **950 mm**

One side with round tubes for suspension of rolling tower deck sections (0.68 m wide) or 2 Alu telescopic stages as working platform.

***TOPIC* 1047**

Length [m]	Standing height [m]	Number of rungs	Width when unfolded [m]	Outer width [m]	Weight approx. [kg]	Ref. No.
1.10	0.98	4	0.76	0.75	9.6	**1047.704**

More information about the deck section, see page 116 / 117.



Machine step
1075

The machine step made of aluminium is a safer and more convenient aid to assembly and maintenance work on machinery, and for access to high shelves in warehouse logistics. The sturdy welded tube design with a large platform to stand on (540 x 310 mm) ensures a safer footing in particular during work over lengthy periods. Wide steps (580 x 225 mm) ensure safer ascents and descents. The platform and the steps are made from a grooved aluminium plate to makethem non-slip. The machine step 1075 conforms to European Standard DIN EN 14183-C.

Machine step 1075

Working height [m]	Standing height [m]	Number of rungs	Weight approx. [kg]	Ref. No.
2.40	0.40	2	6.8	**1075.002**
2.60	0.60	3	10.0	**1075.003**
2.80	0.80	4	13.5	**1075.004**
2.99	0.99	5	17.2	**1075.005**

Castors for machine step

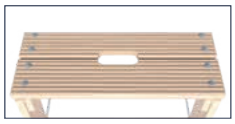
Thanks to the optional castors, the machine step 1075 can be moved horizontally from place to place both quickly and ergonomically. The castors can be fitted in a quick operation by the user to all length versions.

Weight approx. [kg]	PU	Ref. No.
0.5	2	**1016.751**

Folding wooden steps
1055

Steps with access on one side for fitting and servicing work. Ideal for plasterers, drywall installers and painters. Amply sized standing surface and wide steps for safer and comfortable working. For ease of transport, a practical grip hole has been cut out from the standing surface. Protection against over-spreading made of galvanized steel. Stiles made of narrow-ringed yellow pine. Grooved steps made of sturdy beechwood.

Step spacing: **250 mm**
Step width: **110 mm**
Platform dimension: **215 x 565 mm**
Outer width: **565 mm**



Folding wooden steps 1055

Length [m]	Standing height [m]	Number of rungs	Width when unfolded [m]	Outer width [m]	Weight approx. [kg]	Ref. No.
0.75	0.65	3	0.70	0.65	6.8	**1055.003**
1.00	0.85	4	0.85	0.65	8.5	**1055.004**

Wallpaperer's trestle
1045

The sturdy structure for the professional user. Sturdy, galvanized steel hinges. Stiles made of pine wood and rungs made of solid beechwood.
The wallpaperer's trestle may not be used as a ladder and stepping on the rungs is not allowed.

Support strip: **650 mm**

Wallpaperer's trestle 1045

Length [m]	Number of rungs	Width when unfolded [m]	Outer width [m]	Support height [m]	Weight approx. [kg]	Ref. No.
0.85	2	0.75	0.60	0.80	4.4	**1045.202**
1.00	3	0.80	0.60	0.95	5.2	**1045.203**

Suitable accessories

Ladder shoe
for wooden ladder

Other accessories can be found on page 25.

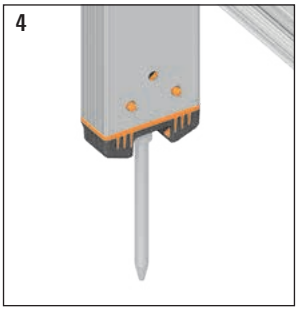
Accessories

1

2

3

4



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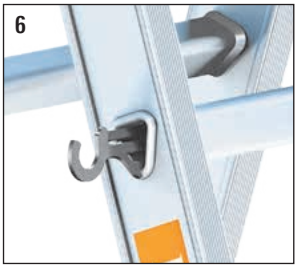

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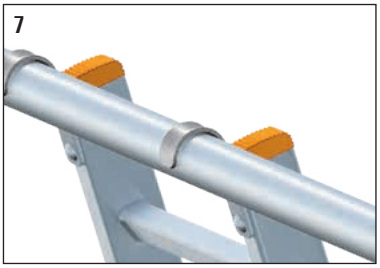

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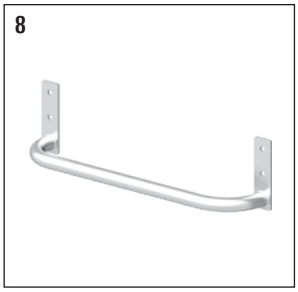

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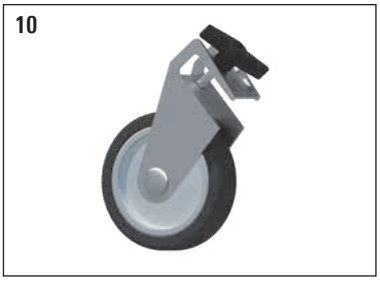

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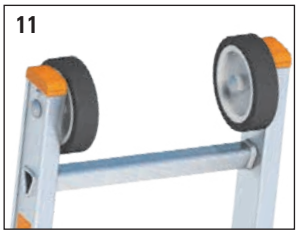

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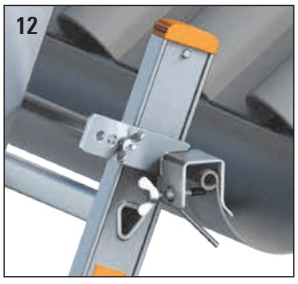

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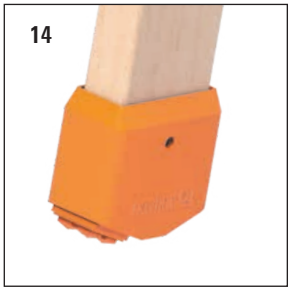

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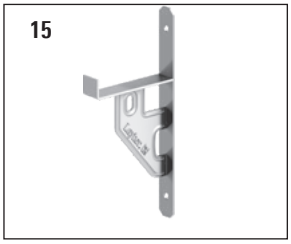


Pos.	Description	Dimensions [m]	Weight approx. [kg]	PU	Ref. No.	1054	1042	1060	1053	1036	1029	1035	1037	1039	1061	1020	1038	1028	1043	1064	1074	1056	1057	1040	1058	1043.3	1055	1045	1032	1043.1
1	***TOPIC* Box** for use on all *TOPIC* rung or double step ladders; easy fitting over the rungs or steps		0.8		**1016.021**									▸	▸			▸	▸											▸
2	**Suspended platform** for use on all *TOPIC* rung ladders; easy fitting over the rungs		0.8		**1016.003**	▸					▸	▸	▸	▸	▸		▸	▸			▸	▸	▸	▸						
3	***TOPIC* Stile Extension** for stile extension on stairways or podia; adjustment area up to 400 mm; easy fitting by 2 large dimensioned wing bolts	64 mm	1.5		**1016.108**	▸					▸		▸	▸																
		76 mm	1.7		**1016.109**	▸	▸				▸		▸						▸	▸										
		84 mm	1.9		**1016.110**	▸	▸				▸		▸							▸										
		100 mm	2.1		**1016.111**	▸					▸																			
4	**Spike** For better stability on grass or soil; easy fitting without drilling or riveting. Usable on all *TOPIC* ladders with Combigrip ladder foot.		0.2	2 ▦	**1016.101**	▸	▸				▸	▸	▸	▸				▸	▸						▸			▸	▸
5	**Suspended bag with hook** as tool box for all *TOPIC* rung double ladders		0.5		**1016.014**									▸	▸			▸												
6	**Insert hook** self-securing, usable on all Layher *TOPIC* ladders		0.1		**1016.100**	▸	▸					▸	▸	▸	▸			▸	▸	▸	▸	▸		▸		▸			▸	▸
7	**Suspension hook** (1 piece) DIY-assembly, usable on tubes up to dia. 50 mm		0.1		**1016.050**	▸	▸					▸	▸											▸					▸	
8	**Wall bracket** for easy supspension of ladders with suspension hooks, Axial dim. = 640 mm, Wall spacing = 123 mm		2.5		**1016.090**	▸	▸					▸	▸											▸					▸	
9	**Wood stile extension set EasyFix** (1 piece) for wooden double ladders 1020 and 1038 (up to 10 rungs) and the wallpaperer's trestle 1045, fixation material with wing bolts included	1.25	1.9		**1016.022**			▸								▸	▸													
		1.65	2.2		**1016.023**			▸								▸	▸													
10	**Cross-piece castors** for easy movement of large ladders; easy fitting by large dimensioned wing bolts		1.4	2 ▦	**1016.072**	usable for all ladders with cross-piece																								
11	**Top rollers** with rubber tyres to protect the wall surface when extending / retracting ladder, usable on the *TOPIC* ladders 1035, 1037 and 1040		3.0	2 ▦	**1016.027**						▸	▸	▸										▸					▸	
12	**Gutter holder** Secure attachment for all ladders		0.5		**1016.006**	▸	▸				▸	▸	▸										▸					▸	
13	**Step attachment** can be used with stile height 100 mm of ladders 1037, 1035, 1040		3.3		**1016.103**						▸	▸											▸						
	Step attachment can be used with stile height 76 mm of ladders 1035 and 1040		3.0		**1016.763**						▸												▸						
14	**Ladder shoe for wooden ladder** DIY-assembly, fits onto ladders 1052 and 1038 / 1059 up to 10 rungs and onto wallpaperer's trestles 1045		0.4	2 ▦	**1016.052**			▸									▸										▸		
	DIY-assembly, fits onto ladder 1020 and onto ladder 1038 up to 10 rungs		0.5	2 ▦	**1016.053** ◷											▸	▸													
15	**Ladder wall mounting** for an ideal storage of ladders on the wall		1.8		**1016.092**	▸	▸				▸	▸	▸						▸	▸	▸									

PU = packaging unit ▸ = available ex works ◷ = delivery time on request ▦ = only available in this packaging unit

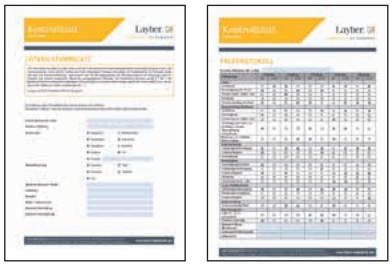
Spare parts

1

2

3

4



The Layher Combigrip ladder foot is made of a 2-component plastic: a hard inner section (orange) for secure mounting inside the stile, and a soft outer covering (black), non-slip on every floor surface.
That ensures:

- play-free mounting in ladder stile
- high slipping resistance, for maximum stability of ladders
- long service life – no cutting or reshaping of the foot

5

The Layher Combigrip ladder foot ensures easy retro-fitting of a ladder cross-piece.

The cross-piece is simply inserted into the cutout provided for it in the foot, and then firmly screwed to the stile ends using hexagonal-head screws.

TIP: With the Layher Combigrip ladder foot, you automatically comply with the new requirements of DIN EN 131-1, which will specify a cross-piece for simple ladders of 3 metres and more length.

6

7

Image can differ from original.

8

Pictogram description

Labels acc. to new DIN EN 131-3 – label see pos. 7

Pay attention to the user manual

Check ladder upon delivery. Visually check the ladder for absence of damage and for safe use prior to every use. Do not use damaged ladders.

Remain below the maximum useful load.

Only use the ladders with the included cross-pieces.

Use simple ladders with rungs at the correct angle.

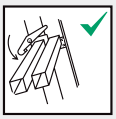
Do not exceed the maximum number of users.

Do not use the ladder for bridging purposes.

Ladders for access to greater heights must be extended at least 1 metre above the contact point and secured as necessary.

Do not climb the ladder with unsuitable shoes.

Do not use the ladder on an uneven, unstable or fouled surface.



Open the ladder completely before use. Locking devices must be fully activated before the ladder is used, if this is not done automatically.

Avoid any work exerting a lateral load on the ladder, for example drilling sideways through solid materials.
When using a ladder, do not carry equipment which is heavy and awkward.

Only ascend and descend the ladder when facing towards it. Grip the ladder tightly during ascent, descent and working.

Do not use the top three steps/rungs of a simple ladder to stand on.
Do not use the top two steps/rungs of a double ladder to stand on without a platform and a holding device for the hand/knee

Ladders with this marking are designed for private use only.

Ladders with this marking are designed for both private and professional use.

Pos.	Description		Dimensions [m]	Weight approx. [kg]	PU	Ref. No.
1	**Combigrip ladder foot** of 2-component plastic for secure mounting inside the stile and non-slip on every floor surface.		64-mm-stile	0.2	2	**6492.810**
			76-mm-stile	0.2	2	**6492.811**
			84-mm-stile	0.2	2	**6492.812**
			100-mm-stile	0.2	2	**6492.813**
2	***TOPIC* ladder foot** for ladder heads and inner ladders of multi-purpose ladders		64-mm-stile	0.3	2	**6492.011**
			76-mm-stile	0.3	2	**6492.012**
			84-mm-stile	0.3	2	**6492.013**
			100-mm-stile	0.4	2	**6492.014**
3	**Ladder cross-piece** for even more safety, easy fitting with the Combigrip ladder foot	1032.008 – 1032.014 1054.006 – 1054.024 1042.006 – 1042.018 1043.113 – 1043.116	1.13	3.0		**1016.081**
		1035.006 – 1035.010	0.89	3.0		**1016.082**
		1035.012 – 1035.018 1037.014 – 1037.024	1.36	3.0		**1016.084**
		1040.006 – 1040.008	0.89	3.0		**6492.114**
		1040.010	1.13	3.0		**6492.115**
		1040.012 – 1040.014	1.36	3.0		**6492.116**
4	**Ladder control sheet** acc. to UVV "Ladders and steps" DGUV Information 208-016 § 29, ladders and steps must be checked to their proper condition. By the ladder control sheet you have a check list for controlling and protocolling.		downloads.layher.com			
5	**Foot for cross-piece** for all ladder cross-pieces			1.1	2	**6492.015**
6	**Universal- and check plaquette** German operating safety regulations require that ladders are inspected.			0.2	10	**6493.002**
7	**Pictogram labels as replacement** Manual for label replacement is added to the label!	For platform ladder *TOPIC* 1074		0.01	10	**6493.007**
		For multifunction ladders 1040, 1056, 1057, 1058		0.01	10	**6493.008**
		For double ladders 1039, 1043, 1061, 1064, 1043.1		0.01	10	**6493.010**
		For single ladders 1035, 1037, 1042, 1054, 1060, 1032		0.01	10	**6493.011**
		For wooden double ladders 1028, 1038, 1053, 1020		0.01	10	**6493.012**
		For wooden single ladders 1029, 1052		0.01	10	**6493.013**
8	**Base widening, kit**	For telescopic ladder 1058		0.9		**1016.175**

PU = packaging unit = available ex works = delivery time on request = only available in this packaging unit

Wooden roofer's ladder

1046

Special ladder in craftsman's quality, curved rungs with recesses for roof hooks.

Double-screwed to stiles. In conformity with the regulations of German professional builders' associations.

The roofer's ladder 1046 permit a variable operating range up to a roof pitch of 75° and hung in roof hooks.

The roofer's ladder 1046 ist equipped with tear-proof polyester straps as breaking cut-out.

Outer width: **365 mm**
Rung spacing: **280 mm**

Roofer's ladder 1046

Stile height [mm]	Number of rungs	Weight approx. [kg]	Ref. No.
2.30	8	4.8	**1046.108**
2.85	10	5.5	**1046.110**
3.40	12	6.3	**1046.112**
3.95	14	7.0	**1046.114**
4.50	16	7.8	**1046.116**
5.05	18	9.2	**1046.118**

Roof ladder as per DIN 4567-4

1051

Layher roof ladders are laid on house roofs for temporary maintenance and inspection work, for example on chimneys or satellite dishes.

High-grade roofs are protected from scratching during assembly and use by the unique and EPDM protective section of Layher roof ladders.
Layher roof ladders permit a variable operating range up to a roof pitch of 73°.

The Layher roof ladders are available in 4 colour variants:
- Natural aluminium
- RAL 7016 (Anthracite grey)
- RAL 8004 (Copper brown)
- RAL 8011 (Nut brown)

Clear width: **300 mm**
Rung spacing: **280 mm**
Stile height: **95 mm**

1051

Length [m]	Width [m]	Number of rungs	Colour	Weight approx. [kg]	Ref. No.
1.96	0.34	7	Aluminium nat.	3.8	**1051.007**
2.80	0.34	10	Aluminium nat.	5.5	**1051.010**
4.20	0.34	15	Aluminium nat.	8.3	**1051.015**
1.96	0.34	7	RAL 8004	3.8	**1051.107**
2.80	0.34	10	RAL 8004	5.5	**1051.110**
4.20	0.34	15	RAL 8004	8.3	**1051.115**
1.96	0.34	7	RAL 8011	3.8	**1051.207**
2.80	0.34	10	RAL 8011	5.5	**1051.210**
4.20	0.34	15	RAL 8011	8.3	**1051.215**
1.96	0.34	7	RAL 7016	3.8	**1051.307**
2.80	0.34	10	RAL 7016	5.5	**1051.310**
4.20	0.34	15	RAL 7016	8.3	**1051.315**

Connect the roof ladders using the connecting straps, Ref. No. 1049.x03. The bolts, washers and locking nuts are included. Use four bolts per strap. At least two safety hooks must be used. Up to three ladders can be joined without an additional roof hook and fastening bracket being needed.

1

2

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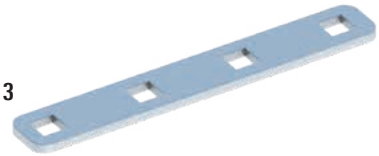
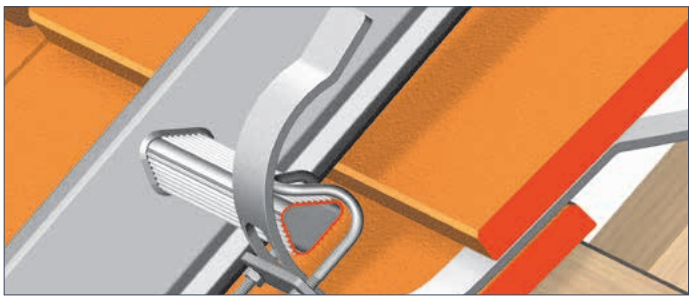


4

Exemplary application of the safety hook model Z (Pos. 1)



Pos.	Description		Dimensions [m]	Weight approx. [kg]	PU	Ref. No.
1	**Safety hook, model Z** according to DIN EN 517 For use on tiled roofs, incl. nails	galvanized	0.40 x 0.25 x 0.04	0.9		**1049.001**
		RAL 8004		0.9		**1049.101**
		RAL 8011		0.9		**1049.201**
		RAL 7016		0.9		**1049.301**
2	**Safety hook, model B** according to DIN EN 517-Type A For use on slate roofs, incl. nails	galvanized	0.40 x 0.25 x 0.04	0.8		**1049.002**
		RAL 8004		0.8		**1049.102**
		RAL 8011		0.8		**1049.202**
		RAL 7016		0.8		**1049.302**
3	**Connecting strap** Including bolts, washers and nuts of stainless steel	galvanized	0.20 x 0.02 x 0.005	1.0	**2**	**1049.003**
		RAL 8004		1.0	**2**	**1049.103**
		RAL 8011		1.0	**2**	**1049.203**
		RAL 7016		1.0	**2**	**1049.303**
4	**Fastening bracket** according to DIN 18160-5, galvanized			0.1		**1049.000**

Instructions for assembly and use can be found at mediathek.layher-steigtechnik.com

The roof ladder *TOPIC* 1051 plus the above accessory parts (apart from the fastening bracket) are available in 4 colour variants:

Alu natural or galvanized

RAL 8004 Copper brown

RAL 8011 Nut brown

RAL 7016 Anthracite grey

PU = packaging unit = available ex works = delivery time on request = only available in this packaging unit

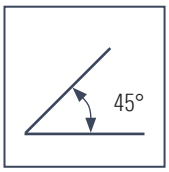
LAYHER ACCESSES

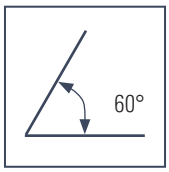
Stair guardrail

Platform guardrail

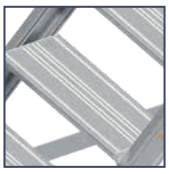
End guardrail

Different inclinations



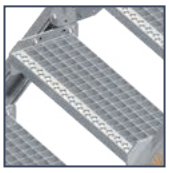


Different step types (see accessories)



Standard steps of aluminium with grooved surface
Slip resistance:
R12 in step direction

Alternative steps made of steel grating*
Slip resistance: R11



Alternative steps made of aluminium grating*
Slip resistance: R11

Alternative steps made of steel perforated plate*
Slip resistance: R11

Alternative steps made of aluminium perforated plate*
Slip resistance: R11

* Delivery time on request

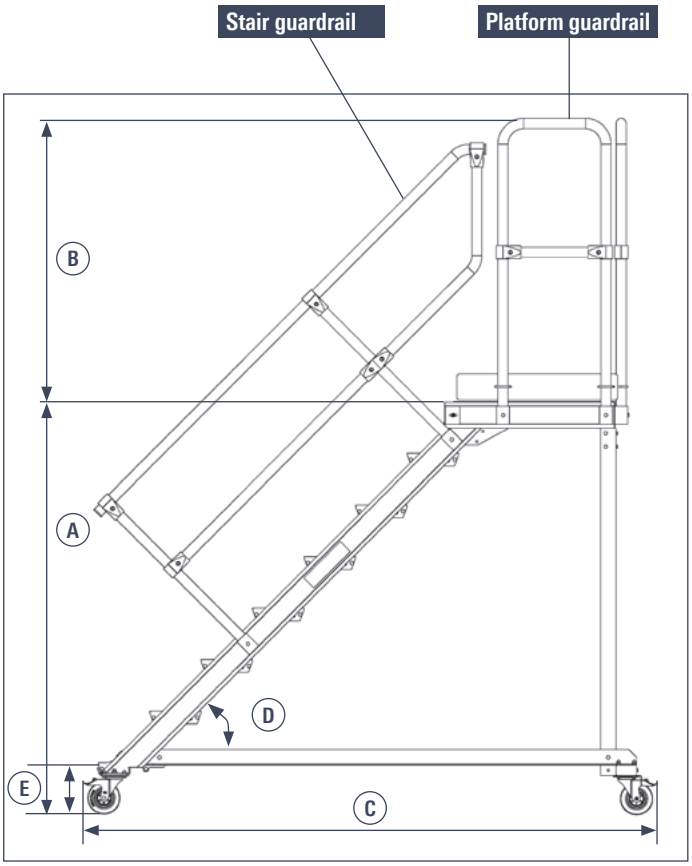
Different step widths

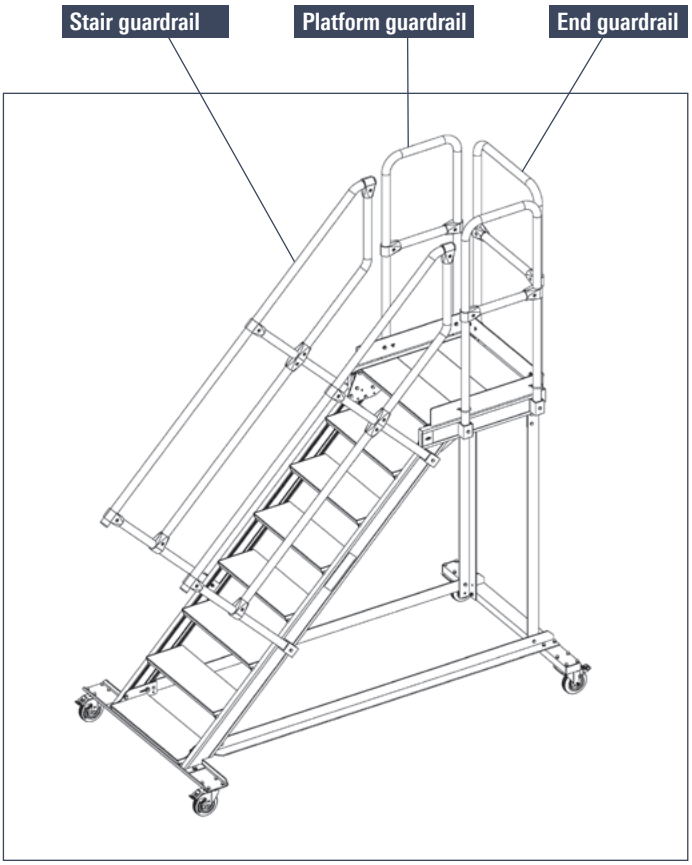
- 0.60 m and 0.80 m as standard
- 1.00 m on request

Standard accesses with inclination of 45° and 60° and step widths of 0.60 m and 0.80 m as listed in the catalogue are quickly available **(15 workdays after receipt of order).** Further sizes, designs and inclinations are possible on request.

Easy fixing of movement direction

Wheels with lock to immobilise the wheel and fork head can be fixed using a direction lock in the access direction or sideways direction.





(A) Platform height

(B) Guardrail height

(C) Base-to-base distance

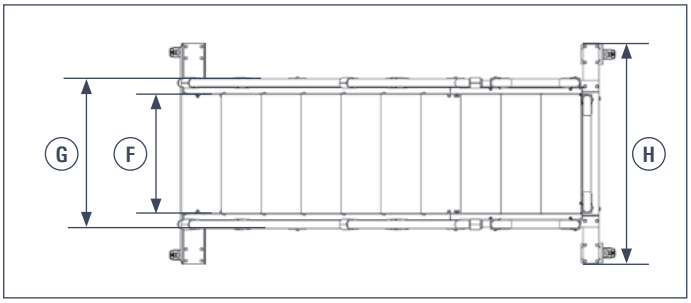
(D) Inclination

(E) Riser for 45° = 200 mm / for 60° = 240 mm

(F) Step width

(G) Width

(H) Wheel set width



TECHNICAL DATA:

- Step load 150 kg
- Total load 300 kg

THE BENEFITS FOR YOU:

- 200 mm deep steps with grooved aluminium surface with slip resistance R12 in the step direction (included in the price in the standard version).
- Handrails and guardrails of 40 mm round tube with cast aluminium connectors, orange, powder-coated.
- High flexibility for expansions, additions and adaptations thanks to the "new" modular principle.
- Separate ordering possible for handrails, platform guardrails, end guardrails and accessories.
- Quick and easy assembly and dismantling of stair guardrails and other guard rails or of additional stair guardrail or other guardrail as preassembled units at no extra charge.
- To aid decision-making, quick technical support in the form of sketches or drawings can be supplied.

Stair type		Alu start-stairway 110	Alu stairway 111	Alu stairway with platform 112	Alu maintenance platform 113	Alu bridging stairway 114
Description		Ideal for machinery access with a comfortable stance.	Fixed access to higher levels.	Fixed access to higher levels with large platform, e.g. for door openings.	Mobile access to higher-level shelves or for maintenance work at greater heights.	Machinery crossover with ample width.
Step width		0.60 m or 0.80 m	0.60 m or 0.80 m	0.60 m or 0.80 m	0.60 m or 0.80 m	0.60 m or 0.80 m
Width	**0.60 m**	0.68 m, 0.87 m*	0.73 m**	0.73 m**	see table 113	0.79 m**
	0.80 m	0.88 m, 1.07 m*	0.93 m**	0.93 m**		0.99 m**
Step length		200 mm	200 mm	200 mm	200 mm	200 mm
Inclination		45°	45° bzw. 60°	45° bzw. 60°	45° bzw. 60°	45° bzw. 60°
Platform length		0.40 m	0.20 m	0.60 m	0.60 m	0.80 m
Riser	**45°**	200 mm	200 mm	200 mm	200 mm	200 mm
	60°		240 mm	240 mm	240 mm	240 mm
Max. step load		150 kg	150 kg	150 kg	150 kg	150 kg
Max. total load		300 kg	300 kg	300 kg	300 kg	300 kg

All dimensions are guideline values. Subject to technical modification. Delivery exclusively in accordance with our currently valid General Terms of Sale. Delivery incl. assembly drawing. Cannot be returned.

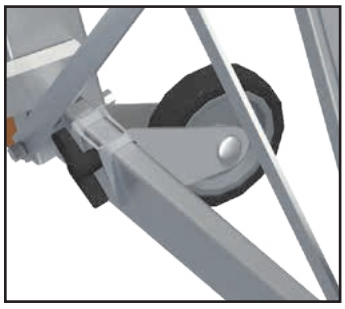
*** Dimensions including crosspiece**
**** Width with stair guardrail on one side**

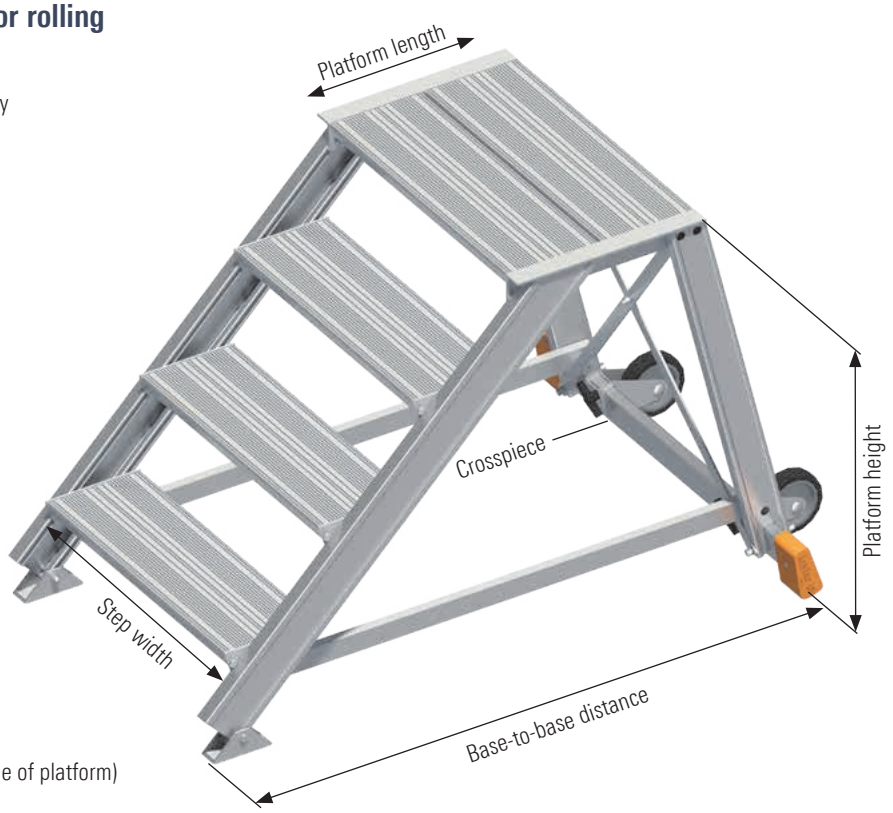
Aluminium access steps, fixed or rolling

110

For loading of containers, servicing machinery etc.

Special stile made of strong aluminium section.
Step profile grooved for sure footing.





Width:
Step width + 0.08 m
Platform height:
Max. 0.99 m (dimension from floor to top edge of platform)
Crosspiece:
For sure footing:
With step width 0.60 m = 0.87 m
With step width 0.80 m = 1.07 m
Crosspiece wheels (optional):
For moving the access steps like a wheelbarrow
Platform length:
0.40 m

Inclination	Step width [m]	Platform height [m]	0.40	0.60	0.80	1.00
		Number of steps	2	3	4	5
		Base-to-base distance [m]	0.76	1.00	1.30	1.50
	0.60	**Weight [kg]**	10.3	13.4	16.6	19.9
		Ref. No.	1106.702	1106.703	1106.704	1106.705
	0.80	**Weight [kg]**	11.9	15.4	18.9	22.6
		Ref. No.	1108.702	1108.703	1108.704	1108.705
	Extra charge for crosspiece wheels	**Weight [kg]**	0.7	0.7	0.7	0.7
		Ref. No.	1016.072	1016.072	1016.072	1016.072

Delivery exclusively in accordance with our currently valid General Terms of Sale. Delivery incl. assembly drawing. Cannot be returned.
Component weights are subject to fluctuations due to tolerances and may therefore diverge from what is specified.

Aluminium stair

111

A safe and permanently fitted access. Wherever material, equipment and machinery have to be stored or operated at a height. Rapid working is assured by convenient and effortless movement even with loads.

Width:
Step width + 0.13 m with stair guardrail on one side
Step width + 0.17 m with stair guardrail on both sides

Base-to-base distance:
Dimension from front edge of stair to wall

Platform height:
Max. 3.84 m (dimension from floor to top edge of top step)

Stair guardrail / guardrail:
The standard scope of delivery includes a stair guardrail (which can be optionally fitted either left or right). DIN EN ISO 14122-3 must be complied with. Accordingly, for a stairway with a 45° inclination a stair guardrail is specified for **at least** one side. For a 45° angle and a wall clearance > 200 mm, or for 60°, a handrail must be provided on both sides.

Hole for fastening strap:
9 mm

High flexibility thanks to modular principle

Quick and easy assembly thanks to delivery of preas-sembled units

Function for fitting and extending the guardrail included in the price

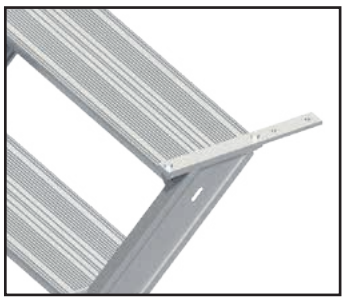
R12 grooved aluminium steps included in the price

Picture shows the standard scope of delivery

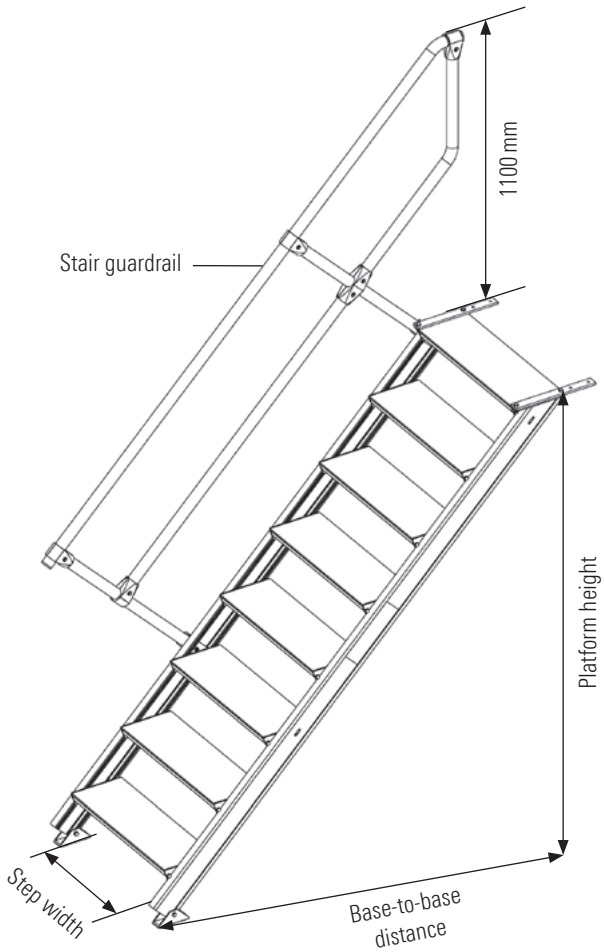
The safe transfer of the loads into the structure or the building ground must be approved by the customer.

Inclination	Step width [m]	Platform height [m]	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00	2.20
45°		Number of steps	3	4	5	6	7	8	9	10	11
		Base-to-base distance [m]	0.67	0.87	1.07	1.27	1.47	1.67	1.87	2.07	2.27
	0.60	Weight [kg]	14.5	17.0	19.7	22.6	25.5	28.7	33.3	34.6	39.3
		Ref. No.	1116.403	1116.404	1116.405	1116.406	1116.407	1116.408	1116.409	1116.410	1116.411
	0.80	Weight [kg]	15.7	18.7	21.8	25.1	28.4	32.0	37.1	40.4	44.0
		Ref. No.	1118.403	1118.404	1118.405	1118.406	1118.407	1118.408	1118.409	1118.410	1118.411
Extra charge for 2nd stair guardrail		Weight [kg]	6.0	6.1	6.3	6.7	7.1	7.8	10.0	10.4	11.0
		Ref. No.	1110.403	1110.404	1110.405	1110.406	1110.407	1110.408	1110.409	1110.410	1110.411
Inclination	**Step width [m]**	**Platform height [m]**	**0.72**	**0.96**	**1.20**	**1.44**	**1.68**	**1.92**	**2.16**	**2.40**	**2.64**
60°		Number of steps	3	4	5	6	7	8	9	10	11
		Base-to-base distance [m]	0.522	0.661	0.799	0.938	1.076	1.215	1.354	1.493	1.632
	0.60	Weight [kg]	14.3	16.9	19.6	22.2	25.0	28.1	32.4	35.4	38.3
		Ref. No.	1116.603	1116.604	1116.605	1116.606	1116.607	1116.608	1116.609	1116.610	1116.611
	0.80	Weight [kg]	15.5	18.6	21.7	24.8	28.0	31.4	36.2	39.6	43.0
		Ref. No.	1118.603	1118.604	1118.605	1118.606	1118.607	1118.608	1118.609	1118.610	1118.611
Extra charge for 2nd stair guardrail		Weight [kg]	5.8	6.0	6.2	6.4	6.7	7.3	9.2	9.7	10.2
		Ref. No.	1110.603	1110.604	1110.605	1110.606	1110.607	1110.608	1110.609	1110.610	1110.611

Intermediate heights are possible on request when the appropriate platform is specified. Quotation and Technical Data Sheet will follow within 72 hours of receipt of the enquiry. All dimensions are guideline values. Subject to technical modification. Delivery exclusively in accordance with our currently valid General Terms of Sale. Delivery incl. assembly drawing. Cannot be returned. Component weights are subject to fluctuations due to tolerances and may therefore diverge from what is sp-ecified.



Detailed view of fastening strap



Inclination	Step width [m]	Platform height [m]	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80
45°		Number of steps	12	13	14	15	16	17	18	19
		Base-to-base distance [m]	2.47	2.67	2.87	3.07	3.27	3.47	3.67	3.87
	0.60	Weight [kg]	42.4	47.0	64.8	69.0	74.6	78.8	82.9	87.0
		Ref. No.	1116.412	1116.413	1116.414	1116.415	1116.416	1116.417	1116.418	1116.419
	0.80	Weight [kg]	47.5	52.5	56.5	60.5	64.5	68.5	72.5	76.5
		Ref. No.	1118.412	1118.413	1118.414	1118.415	1118.416	1118.417	1118.418	1118.419
Extra charge for 2nd stair guardrail		Weight [kg]	11.6	13.7	14.2	14.8	16.9	17.5	18.0	18.5
		Ref. No.	1110.412	1110.413	1110.414	1110.415	1110.416	1110.417	1110.418	1110.419

Inclination	Step width [m]	Platform height [m]	2.88	3.12	3.36	3.60	3.84
60°		Number of steps	12	13	14	15	16
		Base-to-base distance [m]	1.771	1.910	2.049	2.188	2.327
	0.60	Weight [kg]	41.4	45.8	50.3	53.8	57.3
		Ref. No.	1116.612	1116.613	1116.614	1116.615	1116.616
	0.80	Weight [kg]	46.5	51.3	56.2	60.1	64.1
		Ref. No.	1118.612	1118.613	1118.614	1118.615	1118.616
Extra charge for 2nd stair guardrail		Weight [kg]	10.8	12.7	13.2	13.7	14.2
		Ref. No.	1110.612	1110.613	1110.614	1110.615	1110.616

PU = packaging unit = available ex works = delivery time on request = only available in this packaging unit

Alu stairway with platform

112

Can be fixed to buildings as an emergency exit, at machines, as a raised workplace, etc.

Width:

Step width + 0.13 m with stair guardrail on one side

Step width + 0.17 m with stair guardrail on both sides

Base-to-base distance:

Dimension from front edge of stair to wall

Platform height:

Max. 3.84 m (dimension from floor to top edge of platform)

Stair guardrail / platform guardrail:

The standard scope of delivery includes a stair guardrail and a platform guardrail (both of which can be optionally fitted either left or right). DIN EN ISO 14122-3 must be complied with. Accordingly, for a stairway with a 45° inclination a stair guardrail is specified for **at least** one side. For a 45° angle and a wall clearance > 200 mm, or for 60°, a handrail must be provided on both sides.

Platform length:

0.60 m

Hole for fastening strap:

9 mm

High flexibility thanks to modular principle

Quick and easy assembly thanks to delivery of preas-sembled units

Function for fitting and extending the guardrail included in the price

R12 grooved aluminium steps included in the price

Picture shows the standard scope of delivery

The safe transfer of the loads into the structure or the building ground must be approved by the customer.

Inclination	Step width [m]	Platform height [m]	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00	2.20
45°		Number of steps	3	4	5	6	7	8	9	10	11
		Base-to-base distance [m]	1.07	1.27	1.47	1.67	1.87	2.07	2.27	2.47	2.67
	0.60	Weight [kg]	25.0	27.7	30.4	33.0	36.0	39.1	43.7	46.7	49.9
		Ref. No.	1126.403	1126.404	1126.405	1126.406	1126.407	1126.408	1126.409	1126.410	1126.411
	0.80	Weight [kg]	27.1	27.7	33.3	36.4	39.8	43.3	48.3	51.7	55.4
		Ref. No.	1128.403	1128.404	1128.405	1128.406	1128.407	1128.408	1128.409	1128.410	1128.411
Extra charge for 2nd stair guardrail		Weight [kg]	5.7	5.9	6.1	6.3	6.8	7.4	9.5	10.0	10.8
		Ref. No.	1160.403	1160.404	1160.405	1160.406	1160.407	1160.408	1160.409	1160.410	1160.411
Inclination	**Step width [m]**	**Platform height [m]**	**0.72**	**0.96**	**1.20**	**1.44**	**1.68**	**1.92**	**2.16**	**2.40**	**2.64**
60°		Number of steps	3	4	5	6	7	8	9	10	11
		Base-to-base distance [m]	0.929	1.068	1.206	1.345	1.483	1.761	1.899	1.918	2.057
	0.60	Weight [kg]	24.8	27.3	30.1	32.6	35.4	38.5	42.8	45.8	48.7
		Ref. No.	1126.603	1126.604	1126.605	1126.606	1126.607	1126.608	1126.609	1126.610	1126.611
	0.80	Weight [kg]	26.9	29.9	33.0	36.0	39.2	42.7	47.5	50.9	54.2
		Ref. No.	1128.603	1128.604	1128.605	1128.606	1128.607	1128.608	1128.609	1128.610	1128.611
Extra charge for 2nd stair guardrail		Weight [kg]	5.4	5.5	5.8	5.9	6.2	6.8	8.7	9.2	9.7
		Ref. No.	1160.603	1160.604	1160.605	1160.606	1160.607	1160.608	1160.609	1160.610	1160.611

Intermediate heights are possible on request when the appropriate platform is specified. Quotation and Technical Data Sheet will follow within 72 hours of receipt of the enquiry. All dimensions are guideline values. Subject to technical modification. Delivery exclusively in accordance with our currently valid General Terms of Sale. Delivery incl. assembly drawing. Cannot be returned. Component weights are subject to fluctuations due to tolerances and may therefore diverge from what is specified.

EXTRA CHARGE FOR PLATFORM EXTENSION PER 200 MM PLATFORM EXPANDABLE TO MAX. 1.20 M

Step width 0.60 m
Ref. No. 1152.602

Step width 0.80 m
Ref. No. 1152.802

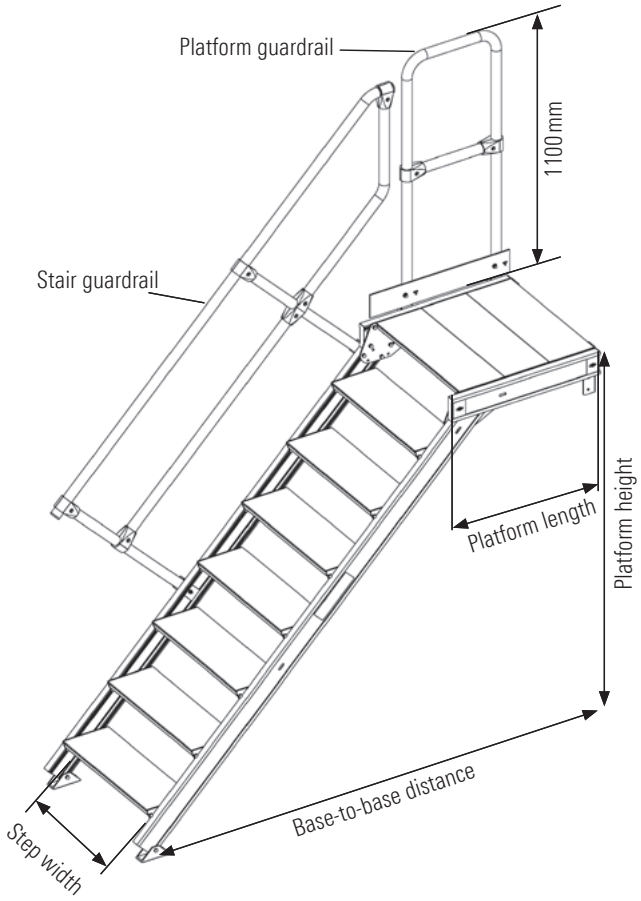
EXTRA CHARGE FOR PLATFORM GUARDRAIL (IN COMBINATION WITH THE ORDER FOR AN ALUMINIUM STAIR WITH PLATFORM 112)

Ref. No. 1161.000

EXTRA CHARGE FOR END GUARD RAIL (IN COMBINATION WITH THE ORDER FOR AN ALUMINIUM STAIR WITH PLATFORM 112)

Step width 0.60 m
Ref. No. 1162.000

Step width 0.80 m
Ref. No. 1163.000



Inclination	Step width [m]	Platform height [m]	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80
45°		Number of steps	12	13	14	15	16	17	18	19
		Base-to-base distance [m]	2.87	3.07	3.27	3.47	3.67	3.87	4.07	4.27
	0.60	Weight [kg]	52.7	57.4	74.7	78.8	83.0	88.6	92.8	96.9
		Ref. No.	1126.412	1126.413	1126.414	1126.415	1126.416	1126.417	1126.418	1126.419
	0.80	Weight [kg]	58.6	63.7	81.5	86.0	90.6	96.7	101.3	105.8
		Ref. No.	1128.412	1128.413	1128.414	1128.415	1128.416	1128.417	1128.418	1128.419
Extra charge for 2nd stair guardrail		Weight [kg]	11.1	13.3	13.8	14.3	14.9	17.0	17.6	18.1
		Ref. No.	1160.412	1160.413	1160.414	1160.415	1160.416	1160.417	1160.418	1160.419

Inclination	Step width [m]	Platform height [m]	2.88	3.12	3.36	3.60	3.84
60°		Number of steps	12	13	14	15	16
		Base-to-base distance [m]	2.196	2.335	2.474	2.613	2.752
	0.60	Weight [kg]	51.8	56.2	73.4	77.5	81.5
		Ref. No.	1126.612	1126.613	1126.614	1126.615	1126.616
	0.80	Weight [kg]	57.7	62.5	80.2	84.7	89.1
		Ref. No.	1128.612	1128.613	1128.614	1128.615	1128.616
Extra charge for 2nd stair guardrail		Weight [kg]	10.3	12.2	12.7	13.2	13.7
		Ref. No.	1160.612	1160.613	1160.614	1160.615	1160.616

Alu maintenance platform

113

Versatile servicing device for machinery, containers, trucks, buses, shelving systems etc. that do not permit the attachment of permanent equipment.

Width:

Step width + 0.12 m with stair guardrail on one side

Step width + 0.17 m with stair guardrail on both sides

Platform height:

Max. 3.60 m (dimension from floor to top edge of platform)

Stair guardrail / guardrail:

The standard scope of supply includes all-round guardrails, in each case with the following parts: stair guardrail on both sides of the stair, platform guardrail on both sides, and the respective end guardrail. The parts can be fitted or removed to suit the situation on the spot, for example to allow crossover to adjacent structures at the end or at the sides. DIN EN ISO 14122-3 must be complied with here. Accordingly, for a stairway with a 45° inclination a stair guardrail is specified for **at least** one side. For a 45° angle and a wall clearance > 200 mm, or for 60°, a handrail must be provided on both sides.

Crosspiece:

For sure footing (see table of wheel set widths for dimensions)

Platform length:

0.60 m

High flexibility thanks to modular principle

Quick and easy assembly thanks to delivery of preassembled units

Function for fitting and extending the guardrail included in the price

R12 grooved aluminium steps included in the price

Picture shows the standard scope of delivery

			Supplied in the fully assembled state			Only guardrails have to be fitted on the spot					
Inclination	**Step width [m]**	**Platform height [m]**	**0.60**	**0.80**	**1.00**	**1.20**	**1.40**	**1.60**	**1.80**	**2.00**	**2.20**
45°		**Number of steps**	3	4	5	6	7	8	9	10	11
		Base-to-base distance [m]	1.58	1.64	1.71	1.83	2.03	2.23	2.43	2.63	2.83
	0.60	**Wheel set width**	0.94	0.94	1.00	1.00	1.10	1.10	1.10	1.15	1.15
		Weight [kg]	54.9	59.1	63.5	67.7	72.9	77.9	85.8	90.8	98.1
		Ref. No.	1136.403	1136.404	1136.405	1136.406	1136.407	1136.408	1136.409	1136.410	1136.411
	0.80	**Wheel set width**	1.15	1.15	1.25	1.25	1.30	1.30	1.30	1.40	1.40
		Weight [kg]	58.7	65.3	68.4	73.0	78.4	83.8	92.2	97.8	105.6
		Ref. No.	1138.403	1138.404	1138.405	1138.406	1138.407	1138.408	1138.409	1138.410	1138.411
Inclination	**Step width [m]**	**Platform height [m]**	**0.72**	**0.96**	**1.20**	**1.44**	**1.68**	**1.92**	**2.16**	**2.40**	**2.64**
60°		**Number of steps**	3	4	5	6	7	8	9	10	11
		Base-to-base distance [m]	1.40	1.43	1.50	1.53	1.66	1.80	1.94	2.08	2.22
	0.60	**Wheel set width**	0.94	0.94	1.00	1.10	1.10	1.10	1.15	1.25	1.25
		Weight [kg]	54.6	58.5	63.1	67.4	71.7	76.6	84.3	91.5	96.4
		Ref. No.	1136.603	1136.604	1136.605	1136.606	1136.607	1136.608	1136.609	1136.610	1136.611
	0.80	**Wheel set width**	1.15	1.15	1.25	1.30	1.30	1.30	1.40	1.50	1.50
		Weight [kg]	58.4	62.7	67.9	72.7	77.2	82.5	90.8	98.5	103.8
		Ref. No.	1138.603	1138.604	1138.605	1138.606	1138.607	1138.608	1138.609	1138.610	1138.611

Intermediate heights are possible on request when the appropriate platform is specified. Quotation and Technical Data Sheet will follow within 72 hours of receipt of the enquiry. All dimensions are guideline values. Subject to technical modification. Delivery exclusively in accordance with our currently valid General Terms of Sale. Delivery incl. assembly drawing. Cannot be returned. Component weights are subject to fluctuations due to tolerances and may therefore diverge from what is specified.

EXTRA CHARGE FOR PLATFORM EXTENSION PER 200 MM PLATFORM EXPANDABLE TO MAX. 1.20 M

Step width 0.60 m
Ref. No. 1152.602

Step width 0.80 m
Ref. No. 1152.802

REDUCED PRICE FOR PLATFORM GUARDRAIL

Ref. No. 1161.000

REDUCED PRICE FOR END GUARD RAIL

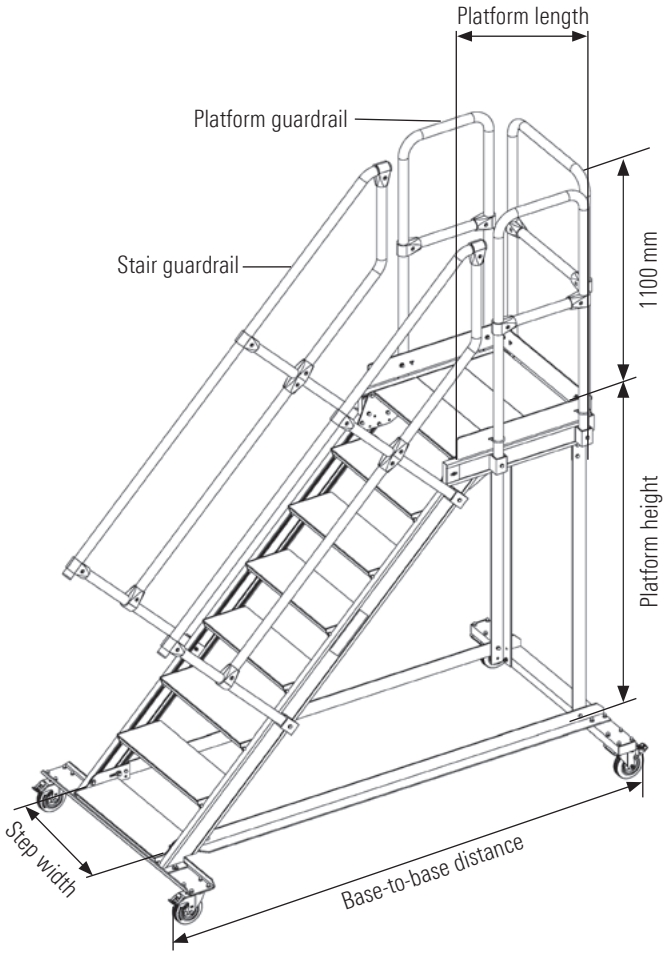
Step width 0.60 m
Ref. No. 1162.000

Step width 0.80 m
Ref. No. 1163.000

EXTRA CHARGE FOR REDUCTION OF RUNNING GEAR WIDTH

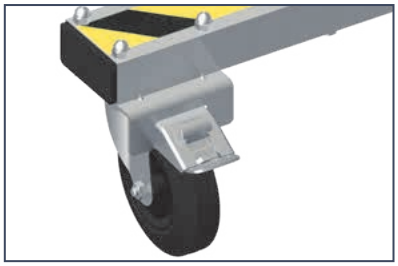
Reduction of the standard wheel set width up to minimum flush width and without lateral projection at the sides, taking into account the ballasting then necessary

Delivery time and data on required ballasting: on request!



Inclination	Step width [m]	Platform height [m]	2.40	2.60	2.80	3.00
45°		Number of steps	12	13	14	15
		Base-to-base distance [m]	3.03	3.23	3.43	3.63
	0.60	Wheel set width	1.25	1.25	1.30	1.30
		Weight [kg]	103.0	111.5	130.4	136.6
		Ref. No.	1136412	1136413	1136414	1136415
	0.80	Wheel set width	1.50	1.50	1.50	1.50
		Weight [kg]	110.9	119.8	138.5	145.4
		Ref. No.	1138412	1138413	1138414	1138415
Inclination	**Step width [m]**	**Platform height [m]**	**2.88**	**3.12**	**3.36**	**3.60**
60°		Number of steps	12	13	14	15
		Base-to-base distance [m]	2.36	2.50	2.63	2.77
	0.60	Wheel set width	1.25	1.30	1.40	1.50
		Weight [kg]	101.5	109.4	128.7	135.2
		Ref. No.	1136612	1136613	1136614	1136615
	0.80	Wheel set width	1.50	1.60	1.60	1.70
		Weight [kg]	109.3	117.9	137.1	144.0
		Ref. No.	1138612	1138613	1138614	1138615

Further variants on request



Wheels with lock to immobilise the wheel and fork head can be fixed using a direction lock in the access direction or sideways direction.

Alu bridging stairway, statical or movable

114

Stationary: For crossovers of containers, machinery, conveyor belts, assembly lines etc. Fastened using angled mounting sections to bottom of stair; standard version.

Width:

Step width + 0.19 m with stair guardrail on one side and on both sides

Clear width:

45° ≥ 0.75 m

60° ≤ 0.65 m

Clear height vertical:

Platform height – x (see sketch on page 41)

Stair guardrail / platform guardrail:

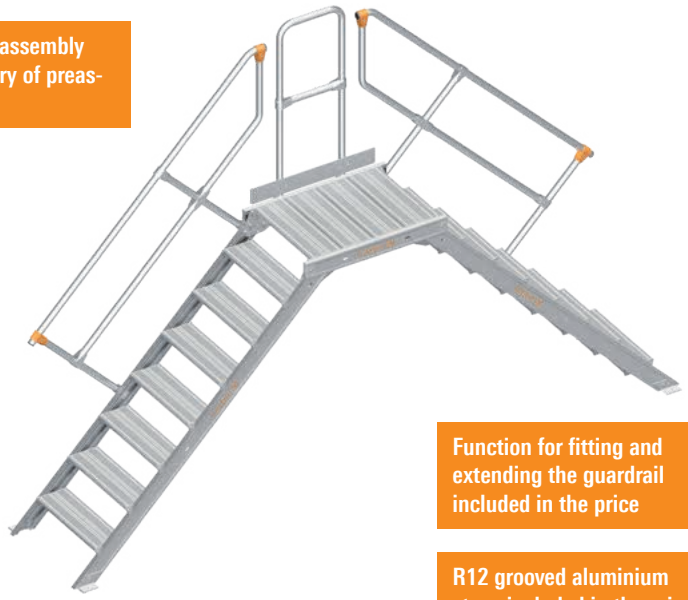
The standard scope of delivery includes per crossover a stair guardrail on one side and a platform guardrail (both of which can be optionally fitted either left or right). DIN EN ISO 14122-3 must be complied with. Accordingly, for a stairway with a 45° inclination a stair guardrail is specified for **at least** one side. For a 45° angle and a wall clearance > 200 mm, or for 60°, a handrail must be provided on both sides.

Platform length: 0.80 m

fastening bracket hole: 9 mm

High flexibility thanks to modular principle

Quick and easy assembly thanks to delivery of preassembled units



Function for fitting and extending the guardrail included in the price

R12 grooved aluminium steps included in the price

Picture shows the standard scope of delivery

Aluminium bridging stairways must be fastened to the floor (e.g. dowelled).
The safe transfer of the loads into the structure or the building ground must be approved by the customer.

			Supplied in the fully assembled state			Only guardrails have to be fitted on the spot					
Inclination	**Step width [m]**	**Platform height [m]**	**0.60**	**0.80**	**1.00**	**1.20**	**1.40**	**1.60**	**1.80**	**2.00**	**Further variants on request**
45°	0.60	**Number of steps**	3	4	5	6	7	8	9	10	
		Base-to-base distance [m]	1.90	2.30	2.70	3.10	3.50	3.90	4.30	4.70	
		Weight [kg]	40.0	45.4	50.7	56.1	62.1	68.2	77.4	83.3	
		Ref. No.	1146.403	1146.404	1146.405	1146.406	1146.407	1146.408	1146.409	1146.410	
	0.80	**Weight [kg]**	43.4	49.6	55.8	62.0	68.8	77.8	85.8	92.6	
		Ref. No.	1148.403	1148.404	1148.405	1148.406	1148.407	1148.408	1148.409	1148.410	
Extra charge per Stair guardrail		**Weight [kg]**	5.7	5.9	6.1	6.3	6.8	7.4	9.5	10.0	
		Ref. No.	1160.403	1160.404	1160.405	1160.406	1160.407	1160.408	1160.409	1160.410	

Intermediate heights are possible on request when the appropriate platform is specified. Quotation and Technical Data Sheet will follow within 72 hours of receipt of the enquiry. All dimensions are guideline values. Subject to technical modification. Delivery exclusively in accordance with our currently valid General Terms of Sale. Delivery incl. assembly drawing. Cannot be returned. Component weights are subject to fluctuations due to tolerances and may therefore diverge from what is specified.

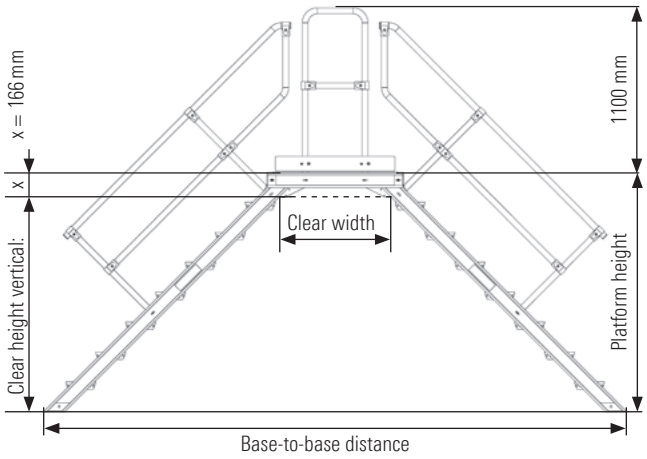
EXTRA CHARGE FOR PLATFORM EXTENSION PER 200 MM PLATFORM EXPANDABLE TO MAX. 1.20 M

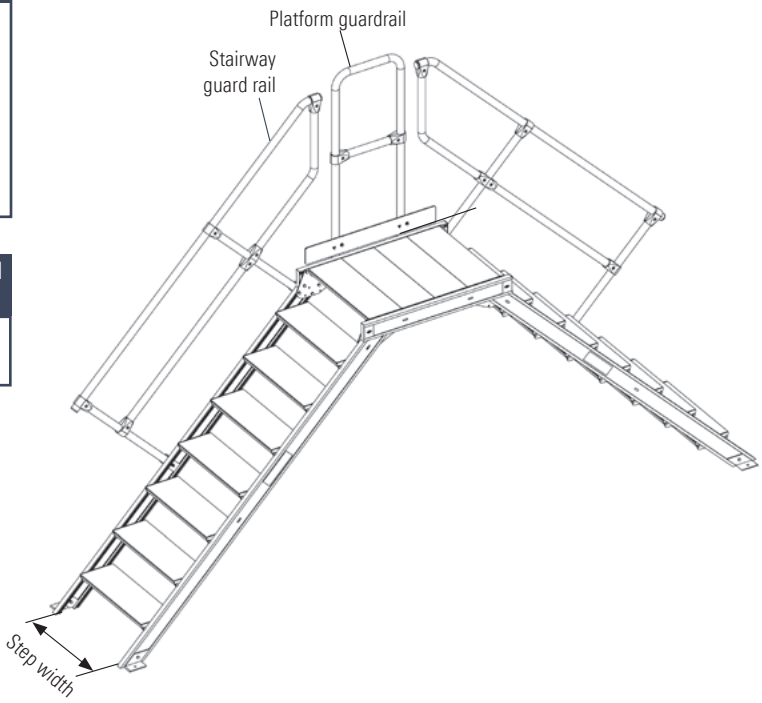
Step width 0.60 m
Ref. No. 1152.602

Step width 0.80 m
Ref. No. 1152.802

EXTRA CHARGE FOR PLATFORM GUARDRAIL (IN COMBINATION WITH THE ORDER FOR AN ALUMINIUM STAIR 114)

Ref. No. 1141.000

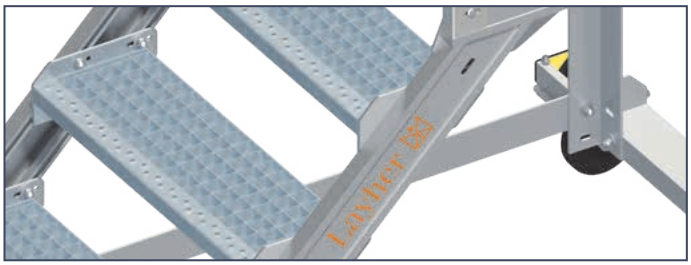




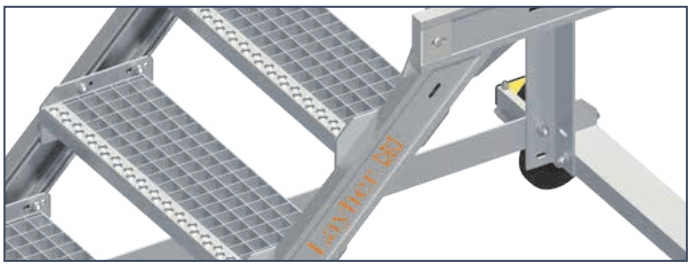
			Supplied in the fully assembled state			Only guardrails have to be fitted on the spot					
Inclination	**Step width [m]**	**Platform height [m]**	**0.72**	**0.96**	**1.20**	**1.44**	**1.68**	**1.92**	**2.16**	**2.40**	**Further variants on request**
60°		**Number of steps**	3	4	5	6	7	8	9	10	
		Base-to-base distance [m]	1.519	1.796	2.073	2.350	2.627	2.905	3.182	3.459	
	0.60	**Weight [kg]**	39.1	44.2	49.7	54.9	60.4	66.5	75.2	81.2	
		Ref. No.	1146.603	1146.604	1146.605	1146.606	1146.607	1146.608	1146.609	1146.610	
	0.80	**Weight [kg]**	42.5	48.5	54.8	60.8	67.2	74.3	83.7	90.5	
		Ref. No.	1148.603	1148.604	1148.605	1148.606	1148.607	1148.608	1148.609	1148.610	
Extra charge per Stair guardrail		**Weight [kg]**	5.4	5.5	5.8	5.9	6.2	6.8	8.7	9.2	
		Ref. No.	1160.603	1160.604	1160.605	1160.606	1160.607	1160.608	1160.609	1160.610	

ACCESSORIES

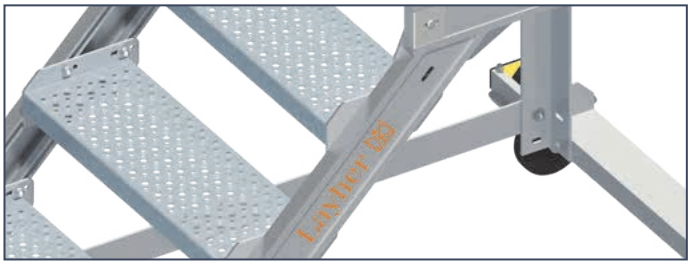
LADDERS AND ROLLING TOWERS



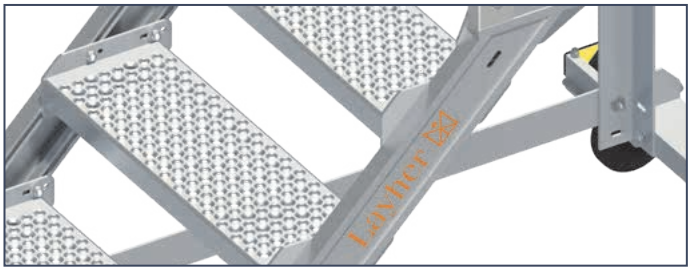
Alternative steps made of steel grating Slip resistance: R11		
Width [m]	0.60	0.80
Ref. No.	1151.601	1151.801



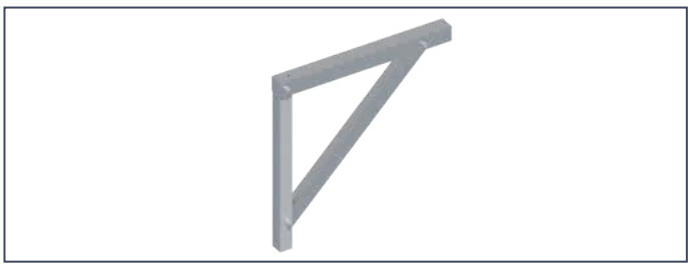
Alternative steps made of aluminium grating Slip resistance: R11		
Width [m]	0.60	0.80
Ref. No.	1151.602	1151.802



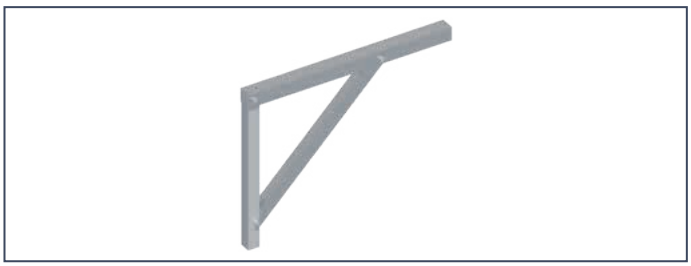
Alternative steps made of steel perforated plate Slip resistance: R11		
Width [m]	0.60	0.80
Ref. No.	1151.603	1151.803



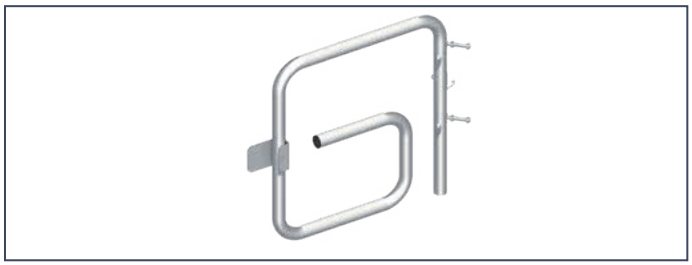
Alternative steps made of aluminium perforated plate Slip resistance: R11		
Width [m]	0.60	0.80
Ref. No.	1151.604	1151.804



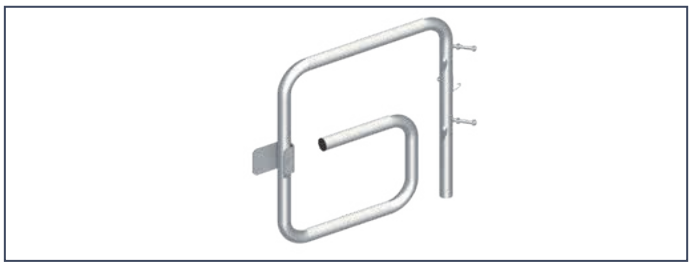
Wall bracket for supporting and fastening of aluminium stairs with platform	
Ref. No.	1171.000
To match:	Aluminium stairs with platform for step width 0.60 m



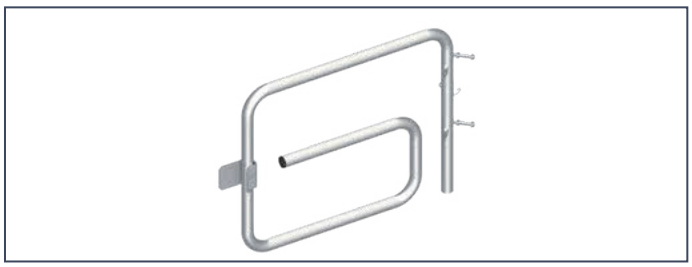
Wall bracket for supporting and fastening of aluminium stairs with platform	
Ref. No.	1172.000
To match:	Aluminium stairs with platform for step width 0.80 m



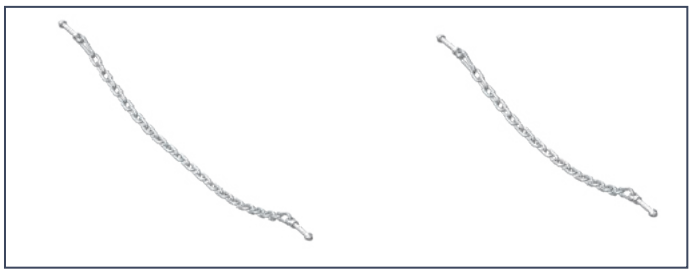
Swing doors for installation where exits are open at the sides in the platform area	
Ref. No.	1153.502
To match:	Sides with step widths 0.60 m and 0.80 m



Swing doors for installation where exits are open at the end in the platform area	
Ref. No.	1153.602
To match:	End with step width 0.60 m



Swing doors for installation where exits are open at the end in the platform area	
Ref. No.	1153.802
To match:	End with step width 0.80 m



Barrier chain for hanging across open exits	
Ref. No.	1153.601
To match:	End with step width 0.60 m, sides with step widths 0.60 m and 0.80 m
Ref. No.	1153.801
To match:	End with step width 0.80 m

LAYER ROLLING TOWERS

THE QUALITY IS IN THE DETAILS

Layher rolling towers offer professionals in the building trade and in industry individualised solutions for every task, but without extensive material being needed. Thanks to the modular principle, many assembly variants are possible with a few components. That reduces the need for stocks and cuts logistic costs. The lightweight and handy system components made of aluminium with snap-on claw not only permit quick and easy assembly, but also ensure high stability for concentrated working at a height of nearly 14 meters. Layher rolling towers are a persuasive solution thanks to their ample working platform and working height adjustment. Their adaptability to site conditions enables every professional on the scaffolding to work ergonomically and so improve their individual safety and efficiency.

For top performance at great heights, you need high stability. Layher has, with its consistent approach to safety and quality, designed products which conform to statutory safety requirements. Inspections by independent institutes have corroborated this. The Layher brand stands for more than 75 years of experience in the design and manufacture of rolling towers at the central production location in Güglingen. Quality "Made by Layher" means "Made in Germany".

With its rolling tower family, Layher offers customers from the building trades and from industry scaffolding systems for economical working at any height, both indoors and outdoors.

THE BENEFITS FOR YOU

- Layher offers for every site requirement the rolling tower to match. Thanks to the modular principle, many assembly variants are possible with a few components.
- The option of using the Layher Safety Structure P2 enable you to conform to the German Ordinance on Industrial Safety and Health without extra expense.
- Ergonomic assembly and high profitability thanks to the handy system components made of aluminium.
- You can rely on maximum quality and safety thanks to a recognised quality management system and inspections by independent institutes.

WHEELS

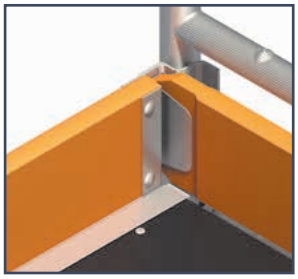
Sturdy wheels for high manoeuvrability and stable stance during work. Various wheel coatings permit use even on sensitive floor coverings. The steel base plates ensure easy and precise height equalisation while transmitting the loads centrally into the locked wheel. This improves the stability, enabling the user to work efficiently.

LADDER FRAMES

The ladder frame doubles as the scaffolding frame and as an access. The grooves of the rungs ensure maximum slip prevention and secure grip for vertical access.
The ladder frames are available in the lengths 1.00 m and 2.00 m and in the widths 0.75 m and 1.50 m.
Long and conical spigots ensure a secure and easy-action connection of the ladder frames to one another, easily made safer by spring clips.

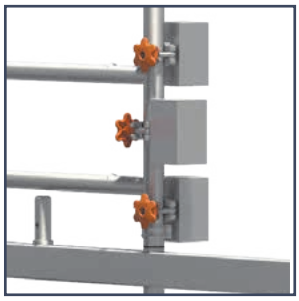
GUARDRAILS AND DIAGONAL BRACES WITH SNAP-ON CLAWS

Unbeatably fast connection without using tools. A slight pressure, and the claw snaps into place by itself.
Various colours of the claw fingers for guardrails and diagonal braces help to tell the components apart – that saves time.



DECKS

Sturdy decks made from aluminium frames with plywood insert and snap-on claws ensure easy handling. They have a non-slip surface for a firmer and safer stance even in wet weather. A maximum-size working surface is obtained with a width of 68 cm. The differently shaped snap-on claws permit easy 1-man assembly and at the same time provide quadruple lift-off prevention. The toe board for protection from falling material or tools form a self-holding rim to ensure a maximum working surface.



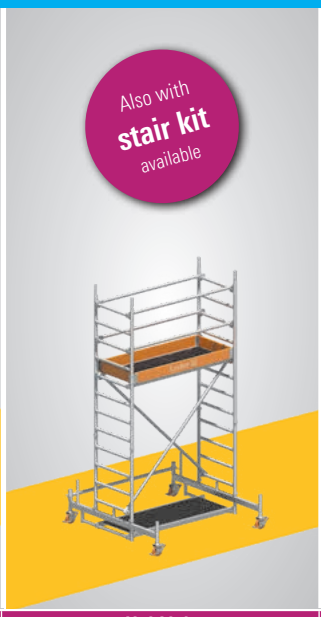
STABILITY

The stability of the rolling tower must be assured for every phase of its assembly and dismantling. Depending on the assembly height and whether the tower is assembled outdoors or in a closed room, the following measures must be taken:

- installation of mobile beam
- use of stabilizers
- ballasting

LAYHER ROLLING TOWERS

THE RIGHT ROLLING TOWER FOR EACH TASK



Tower model	SoloTower	Zifa	Uni Light
Description / Features	Transport and assembly can be done by only one person. Thanks to the compact dimensions, transport is possible in all usual vehicles.	Fits through room doors when assembled and loaded, requires little space for transport	Ideal for cramped conditions at the place of use
Dimensions of working platform	0.75 x 1.13 m	0.75 x 1.80 m	0.75 x 1.80 m
Max. working height (in closed areas)	6.15 m	7.76 m	9.26 m
Max. working height (outdoors)	6.15 m	7.76 m	9.26 m
Permissible live load	2.0 kN / m²	2.0 kN / m²	2.0 kN / m²
Maximum permissible UDL*	150 kg	240 kg	240 kg

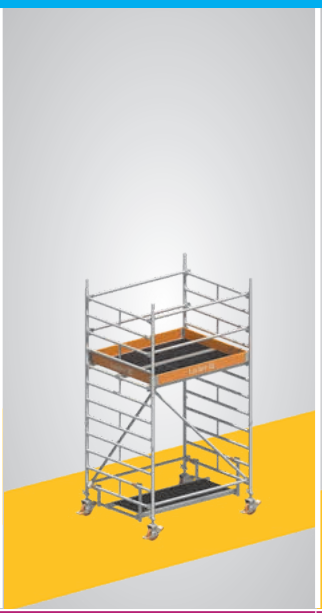
LAYPLAN ROLLING TOWER-CONFIGURATOR

LayPLAN CLASSIC

By using this LayPLAN module, it is possible to choose between standard and individual rolling tower solutions – quickly and easily. After entering of working height, the required working space and selection of the equal assembly structure, the program gives you a solution offer with pictures and material lists. Applications with internal ladder access, wall support or console brackets can be chosen – also as structures with mobile beam or stabilizers. All assembly structures according to the user manuals are available.

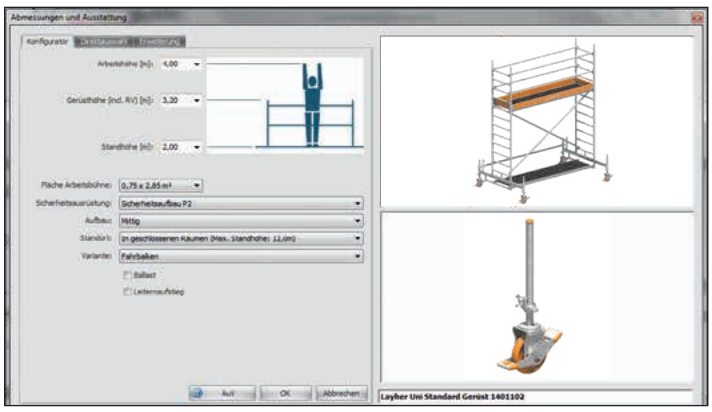
THE BENEFITS FOR YOU

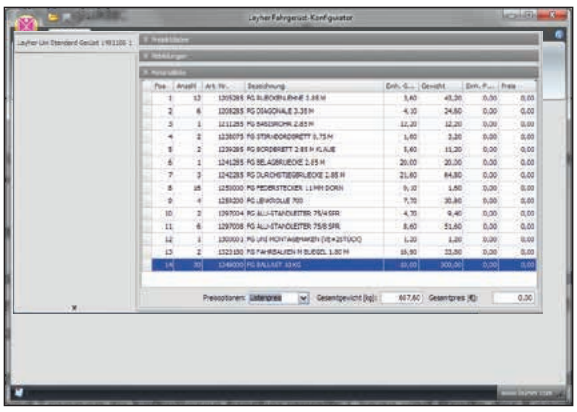
- Quick planning and selection of the equal rolling tower type. No matter if standard or individual.
- Download of all user manuals of the Layher rolling towers.
- Optionally the material list can be generated with or without required ballastings.
- Single components can be edited, added or deleted from the material list.



Uni Compact	Uni Standard	Uni Wide	Uni Comfort	Staro rolling tower
Double-width working surface, yet with compact outer dimensions.	Designed for maximum heights, lightweight, sturdy, durable – the flexible basic model	Double-width working surface, needs base widening only when height exceeds 8.38 m	Convenient stairway access	Excellent freedom of movement and plenty of room for material, height adjustable every 11 cm
1.50 x 1.80 m	0.75 x 2.85 m	1.50 x 2.85 m	1.50 x 1.80 m	1.95 x 1.95 m
10.38 m	13.38 m	13.38 m	14.20 m	3.90 m
9.38 m	9.38 m	9.38 m	10.20 m	3.90 m
2.0 kN / m²	2.0 kN / m²	2.0 kN / m²	2.0 kN / m²	1.5 kN / m²
485 kg	380 kg	765 kg	485 kg	570 kg

When you buy, you receive instructions for assembly and use that must be followed without fail for assembly, dismantling and use.
* According to the max. working surface





LayPLAN Rolling Tower Configurator

Order now for free at fg-konfigurator.layher.com.

STANDARD DIN EN 1004, MOBILE WORKING PLATFORMS

AMENDMENT OF STANDARD EN 1004

The standard / rules, and hence state of the art, for mobile working platforms is the European standard:

DIN EN 1004

This standard has been subdivided into separate parts since 2021, and containing specifications for the manufacture, inspection and use of the appropriate products.

SUBDIVISION OF STANDARD DIN EN 1004:

- DIN EN 1004-1 Part 1
  - Title: "Mobile access and working towers made of prefabricated elements – Part 1: Materials, dimensions, design loads, safety and performance requirements"
  - Publication date: 01.02.2021
  - Supersedes the standard: DIN EN 1004:2005-03
- DIN EN 1004-2 Part 2
  - Title: "Mobile access and working towers made of prefabricated elements – Part 2: Rules and guidelines for the preparation of an instruction manual"
  - Publication date: 01.03.2022
  - Supersedes the standard: DIN EN 1298:1996-04

AMENDMENTS DUE TO NEW VERSION DIN EN 1004-1:2021-02

Part 1 of the new version came into effect upon the end of the transition period on 30.11.2021, after which date manufacturers may only market mobile working platforms conforming to the new version and indicating conformity to standard DIN EN 1004.

CHANGE IN SCOPE OF APPLICATION

PREVIOUSLY: The previous version of DIN EN 1004 applied for a platform height of 2.50 metres and above. Platform heights below that were governed by national rules. Even if these had been already withdrawn over the years, they were still deemed to be state of the art.

NEW: The scope of the new version now covers mobile working platforms of and above a platform height of "> 0 metres". All structures, even those below 2.50 metres, are thus taken into account and must conform to the standard in all respects, with appropriate indication thereof.

An important aspect here:

- 3-part side protection starting at platform height > 0 m

Changes in the product portfolio:

All models with a platform height below 2 metres are now designed "conforming to the standard" with 3-part side protection.

Recommendation by Layher

- New purchases always in accordance with the new standard DIN EN 1004-1:2021: Models conforming to the standard, i. e. with 3-part side protection (guardrail / guardrail at 0.5 m height / toe board)
- For expansion / retrofitting: Parts according to retrofit set table

Example:

PREVIOUSLY: Zifa Tower 1406210 NEW: Zifa Tower 1406310

MAXIMUM DISTANCE BETWEEN THE DECK SURFACES

PREVIOUSLY: In the previous version of DIN EN 1004, a maximum distance of 4.20 metres between the deck surfaces applied. This related to the models that were listed with the remark "Minimum requirement DIN EN 1004:2005".

NEW: In the new version, the maximum distance between the deck surfaces is now set at 2.25 metres. As a result, mobile working platforms not exceeding this maximum distance may be marketed in conformity to standard DIN EN 1004-1:2021. These requirements have already been met by models with Safety Assembly P2 since 2009, and therefore are and remain in conformity to the standard – even after amendment.

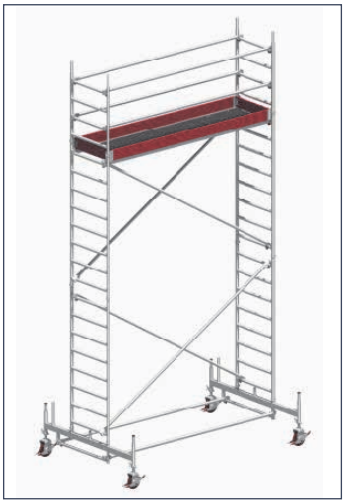
Changes in the product portfolio:

All models previously listed with the remark "Minimum requirement DIN EN 1004:2005" will no longer be advertised and marketed with the indication of conformity to standard DIN EN 1004-1:2021.

Recommendation by Layher

- New purchases always in accordance with the new standard DIN EN 1004-1:2021: Models conforming to standard DIN EN 1004-1:2021 with Safety Assembly P2 (as since 2009, but now conforming to the standard only in this form)
- For expansion / retrofitting: Parts according to retrofit set table

PREVIOUSLY: Uni Standard 1104 NEW: Uni Standard 1401104



AMENDMENTS DUE TO NEW VERSION DIN EN 1004-2:2022-03

Part 2 of the new version came into effect on 01.03.2022 with a transition period until 01.05.2022. After that date, the manufacturers may only prepare instructions for assembly and use conforming to this new version.

REQUIREMENTS FOR ASSEMBLY AND DISMANTLING PROCESSES IN THE INSTRUCTIONS FOR ASSEMBLY AND USE

PREVIOUSLY: The previous standard DIN EN 1298:1996-04 required that the procedure for construction of the mobile working platform be described in the instructions for assembly and use. The intention here was to explain assembly and dismantling to the user in an understandable way and to indicate potential risks arising from non-compliance.

NEW: In the new version DIN EN 1004-2:2022-03 which supersedes the standard DIN EN 1298:1996-04, it is required from the manufacturer of mobile working platforms that the description of assembly and dismantling incorporates the following passage when the instructions for assembly and use are drafted:

> **"The assembly and dismantling processes must ensure that no person may stand on a platform without guardrail and intermediate side protection.** *For example by a lower platform with guardrail and intermediate side protection* ***or by another method having the same effectiveness."*** *(see Fig. 1)*

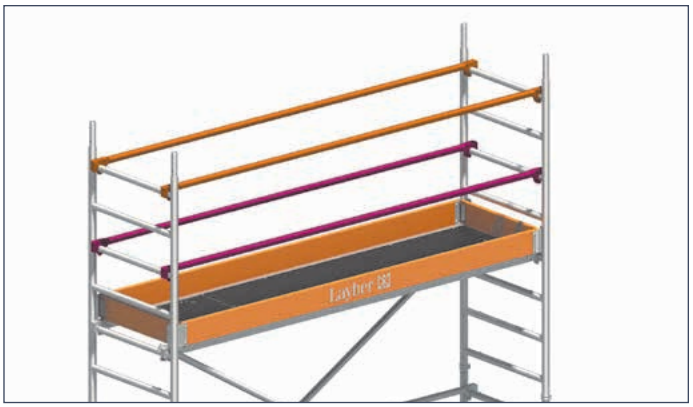


Fig. 1

Guardrail = guardrail at 1 m height
Intermediate side protection = guardrail at 0.5 m height (knee height)

Taking into account this amendment, guardrails in the form of handrails at 1 m height, for the Safety Assembly P2 process deemed SAFE for years, are now no longer sufficient and must be supplemented by intermediate guardrails at 0.5 m height before access to the level to be constructed.

Changes in the product portfolio:
The amendment to the standard does not affect the product portfolio.

Changer for the user when assembling and dismantling:
Fitting and removing of the intermediate guardrails will in future be performed in a sitting position from the hatch *(see Fig. 2)*.
Fitting of the additional guardrails permits access to the respective level in its state with 2-part side protection all round. The instructions for assembly and use have been supplemented with additional steps for description in conformity with the standard of the fitting and removal of intermediate guardrails during the assembly and dismantling procedure. For Safety Assembly P2, only the updated instructions for assembly and use remain valid after the standard has come into effect.

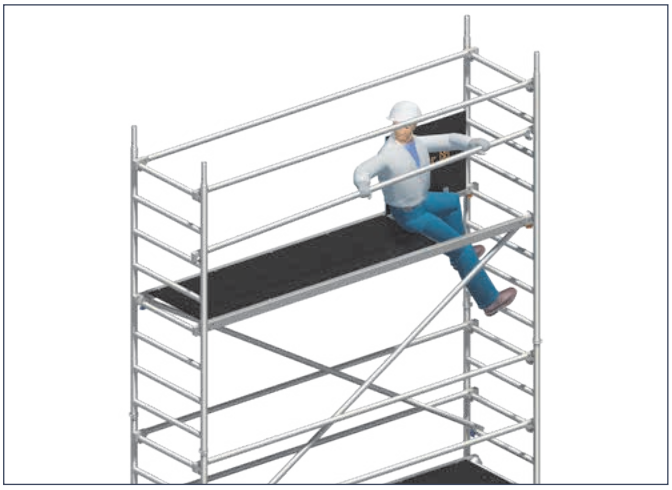


Fig. 2

WHAT DO THE AMENDMENTS TO STANDARD DIN EN 1004-2 MEAN FOR DEALERS?

Mobile working platforms marketed in the past remain, even after publication of the new version of the standard, in conformity with the standard and do not become dangerous or unsafe per se. All components can still be advertised and marketed without restriction.

- To ensure that health and safety are protected during use of the products for their intended purpose and in conformity with the standard, Layher continues to recommend Safety Assembly P2 with the amended assembly and dismantling procedure in accordance with the amended instructions for assembly and use.

WHAT DOES THE AMENDMENT TO STANDARD DIN EN 1004-2 MEAN FOR END USERS?

Newly purchased or already stocked mobile working platforms can be used / can continue to be used without restrictions while taking into account Safety Assembly P2. Assembly and dismantling must be performed in future in accordance with the updated instructions for assembly and use.

- For users already applying Safety Assembly P2, there is no need to change their stocks. There are thus no costs incurred by the amendment of Part 2 of the standard.
- To be and remain up to date in respect of both statutory and in particular safety requirements and also in respect of the state of the art, and also to ensure use of products for their intended purpose and in conformity with the standard, Layher recommends when purchasing new mobile working platforms to use Safety Assembly P2 or models having indication of conformity to standard DIN EN 1004-1:2021 = "Safety Included". Layher further recommends checking and where necessary adaptation of the risk assessment and where necessary to upgrade existing stocks using the retrofit sets, and also to perform assembly and dismantling in accordance with the updated instructions for assembly and use.

More safety, when using Layher rolling towers

Because of the standard changes, which are described on the previous pages and because of European industrial safety laws, you as an employer must ensure that your workforce is only provided with equipment that, when used for its intended purpose, guarantees both safety and health protection. Appropriate safety measures have to be taken by you. Collective risk prevention takes precedence here over individual risk prevention.

To comply in full with all requirements, Layher has now devised the Safety Structure P2. The Layher Safety Structure P2 represents the collective safety measure.

The Safety Structure P2

- **P**latforms with a vertical spacing of **2** m.
- Safer design with integrated collective side protection.

Thanks to the platforms assembled with a 2 meter spacing, the rear guardrails can already be fitted from the level below. Additionally intermediate guardrails are fitted through the trapdoor. By doing so, there is already a two-part side protection when the next platform is accessed.

CAN BE RETROFITTED WITH THE LAYHER MODULAR SYSTEM:

If you already have a Layher rolling tower, you can upgrade it to the P2 design without any problem.

THE BENEFITS FOR YOU

The ingeniously simple assembly principle

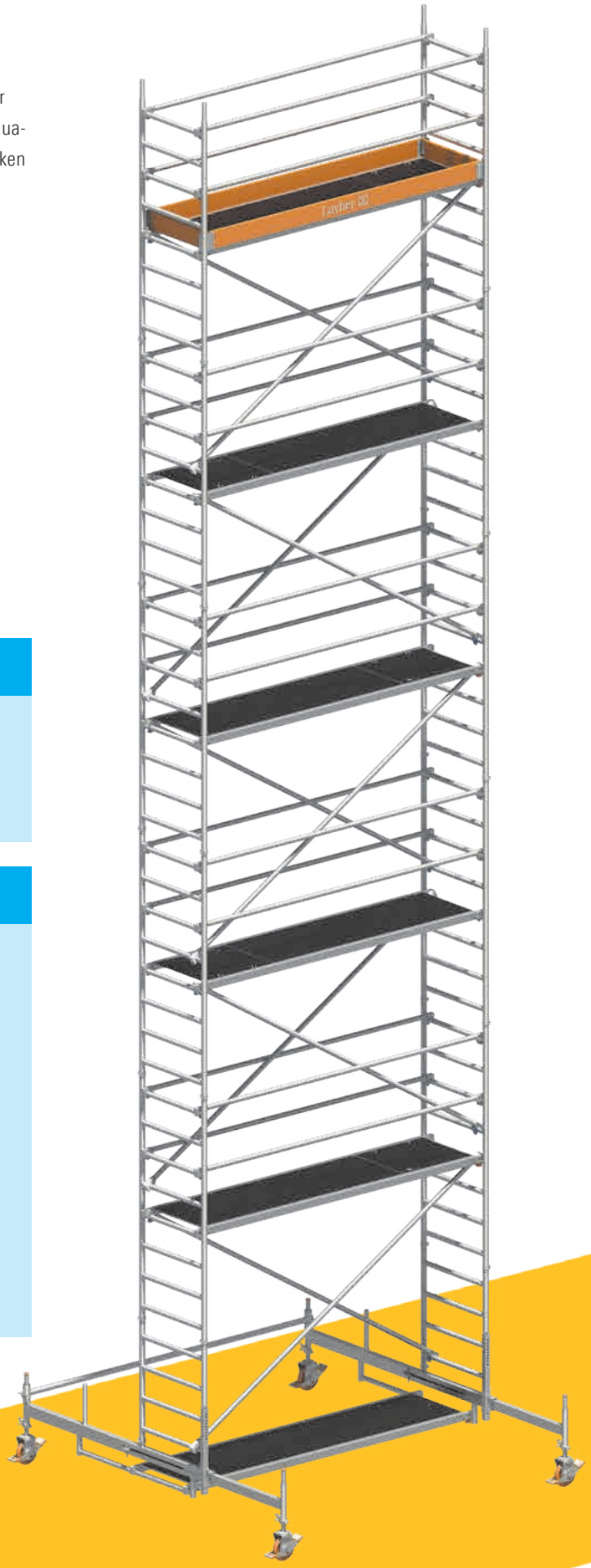
- All round side protection already in place when accessing the next platform up.
- More stability in the rolling tower thanks to additional stiffeners.

Platforms spaced 2 meters apart:

- Maximum safety during assembly, ascent and descent and during the actual work.
- Easy passing on of rolling tower parts or work materials from one level to the next.

The innovative Uni assembly hook:

- Considerably simplifies assembly and ensures fast and hitch-free assembly and dismantling.

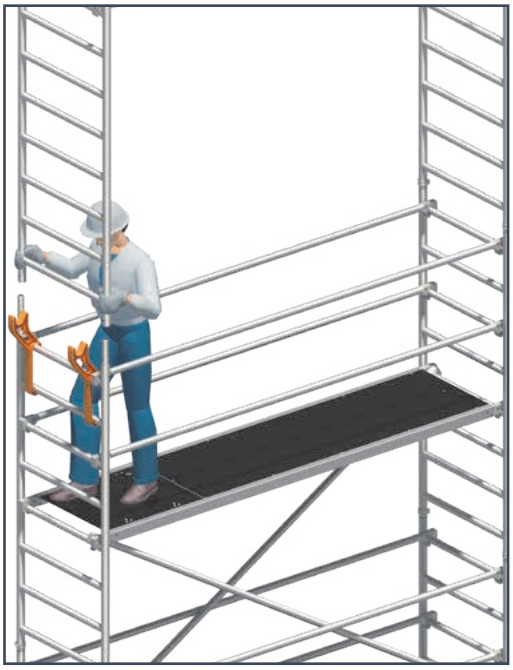


The principle – Simple. Swift. Safe.

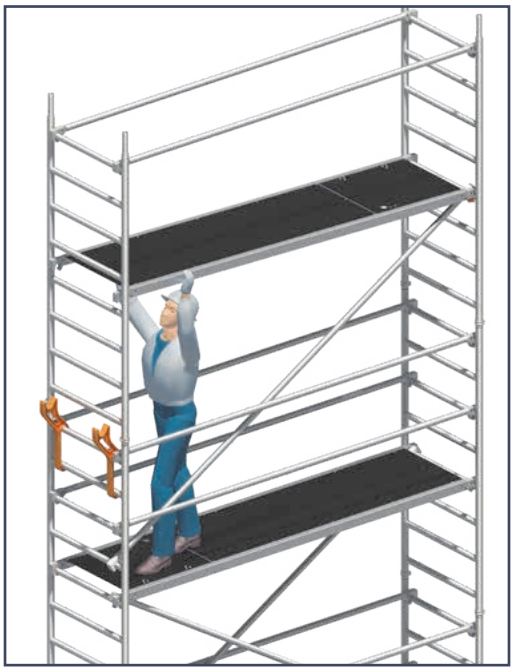
1 Fit the first ladder frame.

Attach the Uni assembly hooks and position the second ladder frame for fitting of the rear guardrails.

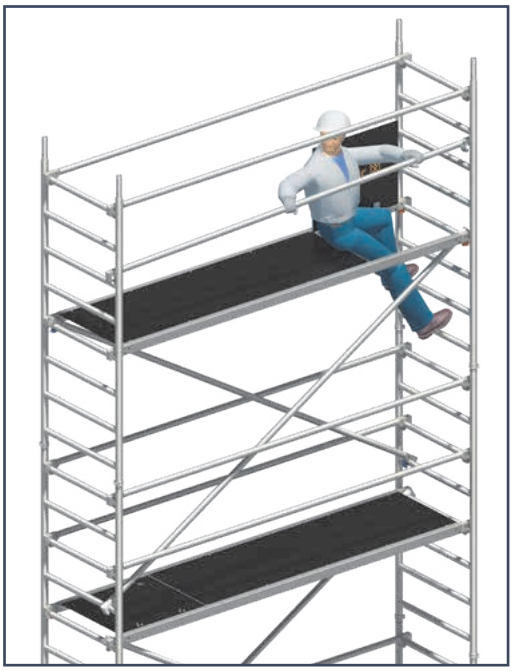
2 Swing ladder frame with rear guardrail upwards and fit into place.



3 Insert diagonal braces and access deck.

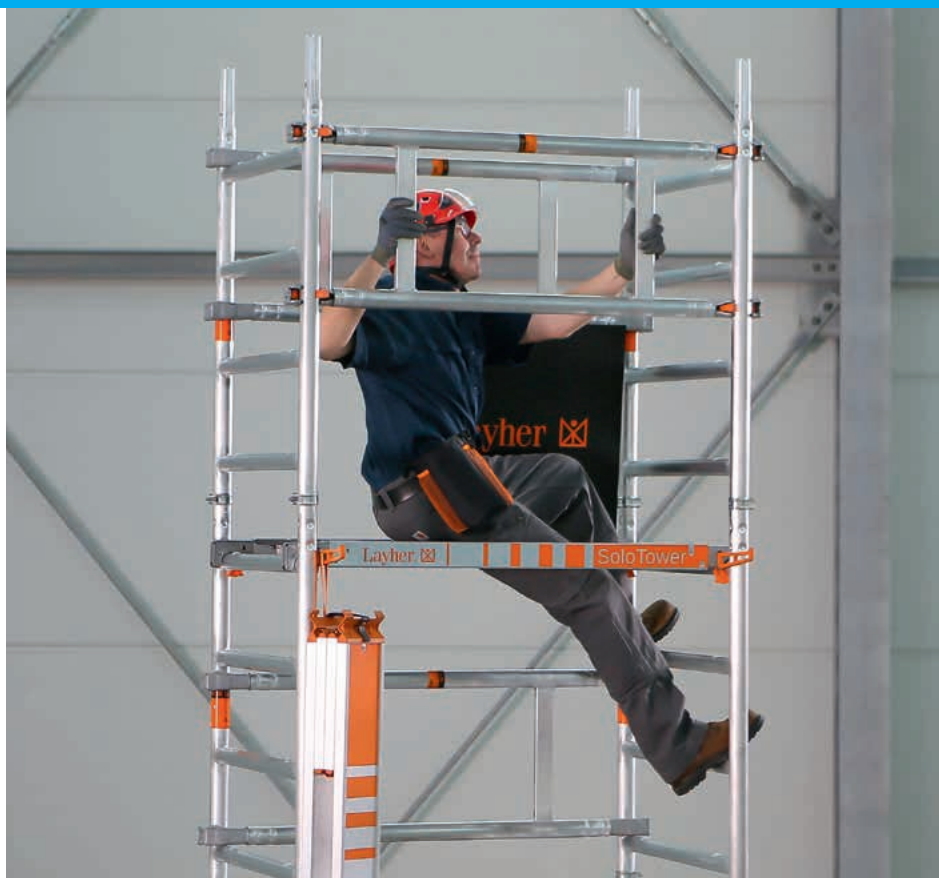


4 Fitting the intermediate guardrails through the trapdoor.



SOLOTOWER

FASTER, EASIER AND SAFER ASSEMBLY BY ONE PERSON



The SoloTower from Layher is a small rolling tower that can be assembled quickly, safely and easily by a single person, up to a working height of 6.15 metres.

Current industrial safety regulations for working at heights are increasingly restricting the use of ladders. These regulations are frequently detrimental to the profitability of businesses. Previously, businesses have had to plan with high-volume work platforms. The result is a major logistic effort, plus an increased personnel requirement of at least two persons.

This additional economic burden is avoided by using the SoloTower.

Thanks to its compact dimensions, the SoloTower can be transported to its place of use in normal commercial vans or trucks. Transport and assembly can be handled by a single person all the way.

TECHNICAL DATA

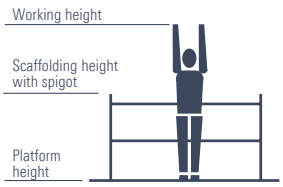
- Working height: 6.15 m
- Area of working platform: 0.75 x 1.13 m
- Permissible live load: 2 kN / m² (load class 3)

Part list

The Layher modular system permits problem-free expansion of your rolling tower (for pictures see page 112 onwards).

Tower model	Ref. No.	1600102	1600103	1600104
Toe board unit	1240.113	1	1	1
Access deck	1242.113	1	2	2
Telescoping stabilizer	1248.000	4	4	4
Rotation preventer for stabilizers	1248.261	4	4	4
Spring clip	1250.000	8	12	16
Ladder frame	1297.004	6	8	10
Castor	1300.150	4	4	4
Double guardrail	1342.113	4	6	7
SoloTower assembly hook (set 4 pieces)	1300.002	1	1	1
SoloTower assembly bag	1300.003	1	1	1
Ballast	1249.000	For requirement see table below		

Conforms to standard **DIN EN 1004:2021**



SoloTower

Tower model	1600102	1600103	1600104
Working height [m]	4.15	5.15	6.15
Tower height [m]	3.37	4.37	5.37
Platform height [m]	2.15	3.15	4.15
Weight [kg] (without ballast)	118.8	151.9	167.6
Ballast (stated in units)			
In closed areas			
Assembly central	0	0	0
Assembly off-set	L0 R5	L0 R8	L0 R10
Assembly off-set with wall bracing	0	0	0
Outdoors			
Assembly central	0	0	0
Assembly off-set	L0 R5	L0 R8	L0 R10
Assembly off-set with wall bracing	0	0	0

X = not possible / not permissible 0 = no ballast required
For ballasting, use Layher ballast weights, Ref. No. 1249.000, 10 kg each. These weights are attached quickly and securely at the right places using the star handle coupler.
All height dimensions are calculated without any spindle travel. The maximum spindle travel of each assemby variant is listed in its assembly instruction guide!
Do not use any liquid or granular ballast materials. The ballast weight must be distributed evenly to all ballasting fixing points (see instructions for assembly and use).

In central assembly, the ballast weights are distributed evenly over all four ladder frame standards. The remainder not divisible by 4 must be fitted in accordance with the instructions for assembly and use.
In off-set assembly on mobile beams, the ballast weights must be distributed evenly over the two ladder frame standards away from the wall.

LOGISTICS

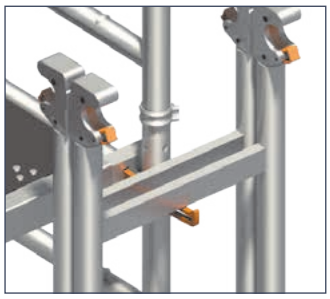
The compact dimensions of all components permit economical and efficient logistics for storage and transport and at the site. A few of the components are used to construct, without any tools, a "transport trolley" in which the other scaffolding parts can be moved quickly and ergonomically to the intended location. This "transport trolley" fits through any normal door.

SAFE ASSEMBLY AND DISMANTLING

With the specified assembly and dismantling sequence of the SoloTower using the 3-T method (Through The Trapdoor ▸ i.e. seated in the access hatch), the user is already in a secure area when moving up to the next platform up, due to the pre-assembled double guardrail, in compliance with the valid regulations for industrial and work safety.

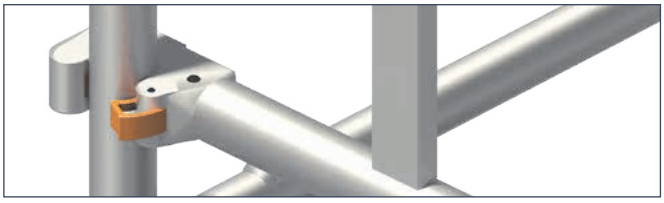
SINGLE-PERSON ASSEMBLY

Lightweight, handy and compact components made of aluminium in combination with the SoloTower assembly hook make it easy to pass individual components from level to level, permitting efficient and economical assembly and dismantling by only one person.



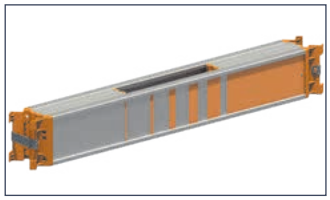
TOOL-FREE ASSEMBLY

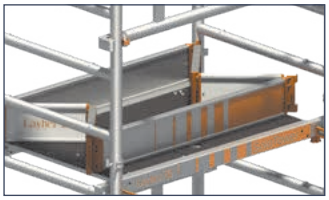
Layher's proven connection technology using the snap-on claw permits the accustomed tool-free, fast and easy assembly of the sturdy aluminium components. Layher rolling tower components are synonymous with durability and stability.



TOE BOARD UNIT

The end and side toe boards made of aluminium are already preassembled to create a fold-out toe board unit. The toe boards can be spread out and folded up in next to no time, and fitted to the platform quickly and easily.



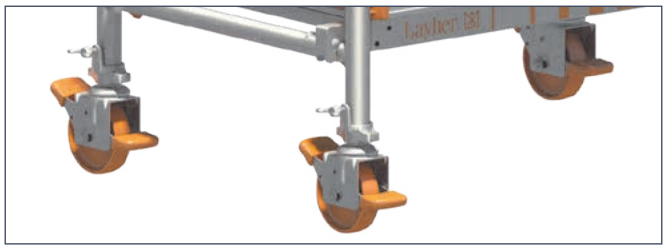


TELESCOPING STABILIZERS

Quickly and easily attached stabilizers ensure a firm standing of the SoloTower on uneven ground too.

WHEELS

Sturdy wheels for high manoeuvrability and stable stance during work. The steel base plates ensure easy and precise height equalisation while transmitting the loads centrally into the locked wheel. This improves the stability and enables the user to work efficiently.

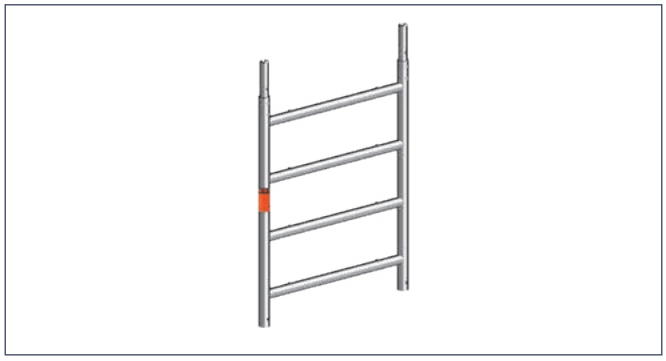


QUALITY AND SAFETY

The SoloTower has been designed to meet the requirements in the European standard DIN EN 1004 for mobile work platforms, ensuring maximum quality and safety.

ECONOMIC EFFICIENCY

The ladder frames of the SoloTower are, thanks to the Layher construction kit system, also used for the proven Zifa, Uni Standard and Uni Light rolling towers.



SOLOTOWER WITH TELESCOPIC GUARDRAIL

A HELPFUL ADDITION FOR ROLLING TOWERS

The Layher SoloTower with 4.15 m work height and system integrated advanced guardrails.

To keep the investment costs of the users as low as possible, Layher expanded the SoloTower with an additional assembly variant - SoloTower with telescopic guardrails. Additionally to the well-known assembly variant with 3T-method, the SoloTower with telescopic guardrails enhances the support of the German BG Bau.

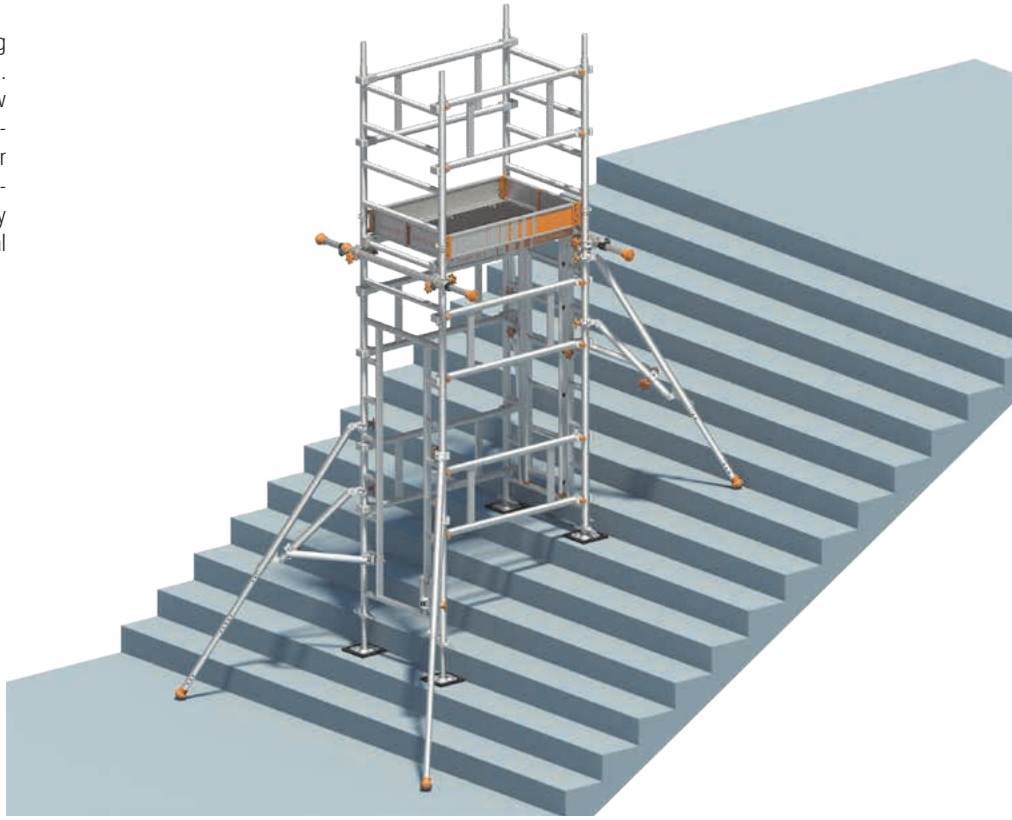
Tower model	1600202
Working height [m]	4.15
Tower height [m]	3.37
Platform height [m]	2.15
Weight [kg] (without ballast)	119.8
Ballast (stated in units)	
In closed areas	
Assembly central	0
Assembly off-set	L0 R5
Assembly off-set with wall bracing	0
Outdoors	
Assembly central	0
Assembly off-set	L0 R5
Assembly off-set with wall bracing	0

Tower model	Ref. No.	1600202
SoloTower telescopic guardrail	1204.113	4
Toe board unit	1240.113	1
Access deck	1242.113	1
Telescoping stabilizer	1248.000	4
Rotation preventer for stabilizers	1248.261	4
Spring clip	1250.000	8
Ladder frame	1297.004	6
Castor	1300.150	4
Double guardrail	1342.113	2
Uni assembly hook	1300.010	2
SoloTower assembly hook (set 4 pieces)	1300.002	1
SoloTower assembly bag	1300.003	1
Ballast	1249.000	For requirement see table

SOLOTOWER STAIR KIT SOLUTION

A HELPFUL ADDITION FOR ROLLING TOWERS

The stair kit for the SoloTower permits safer use of rolling towers inside stairwells while ensuring flexible working. By expanding standard rolling tower models with a few individual components, the SoloTower offers in combination with the stair kit an economically smarter, swifter and safer alternative for working at heights, and in particular an alternative to rung ladders, which are now only usable to a limited extent due to current occupational safety regulations.



Item description	Ref. No.	SoloTower expansion to stair kit TYPE 1	SoloTower expansion to stair kit TYPE 2
		1600001	1600003
Alu passageway ladder frame 75/8-rung	1296.008	1	2
Alu ladder frame 75/2-rung	1297.002	1	1
Tele distance tube 1.25 m	1275.001	2	2
Adjustable base plate 60 with lock	1257.060	4	4
Rubber underlay for base plate	4000.500	4	4
Layher double coupler AF 19 mm	4700.019	4	4
Hand wheel with bush	6491.422	8	8
Suspended ladder for passageway ladder frame	1247.006	0	1

THE BENEFITS FOR YOU

- Use of rolling towers in stairwells up to platform height of 5 m.
- Passageways to suit the site – complete blocking off of the stair not needed
- Passageway also as entrance for upward access
- Adaptation to stair steps – riser and tread – is possible
- Single-person assembly

ZIFA

THE READY-MADE TOWER FOR WORKING AT LOW HEIGHTS

The Zifa tower is practically a "ready-made tower" for working at low heights: Folded together flat for storage and transport – fold it out, insert the deck – that's all.

The basic unit can be passed through standard room doors when assembled and fully loaded.

Basic tower of aluminium for alternating-sequence push-fit assembly; rear guardrails and diagonal braces of aluminium snap in easily.

Work decks with aluminium frame and plywood insert, also as a hatch-type deck for risk-free internal access.

Strong castors (permanently fitted) ensure particular stability.

The zifa family can also be equipped with stabilizers.
Learn more about that on page 62.

TECHNICAL DATA

- Max. working height: 7.76 m
- Area of working platform: 0.75 x 1.80 m
- Permissible live load: 2 kN / m² (load class 3)


Layher.
Theodor-Heuss-Saal

Part list

The Layher modular system permits problem-free expansion of your rolling tower (for pictures see page 112 onwards).

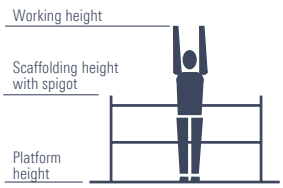
Tower model	Ref. No.	1406200	1406210	1406300	1406310	1406213	1406214	1406215	1406216
Guardrail 1.80 m	1205.180	0	2	3	4	4	9	8	13
Diagonal brace 2.50 m	1208.180	0	0	0	0	1	2	4	4
Diagonal brace 1.95 m	1208.195	0	0	0	0	0	1	0	1
Basic tube 1.80 m	1211.180	0	0	0	0	1	1	1	1
End toe board 0.75 m	1438.075	0	0	2	2	2	2	2	2
Toe board 1.80 m with claw	1439.180	0	0	2	2	2	2	2	2
Deck 1.80 m	1241.180	1	0	1	0	1	0	1	0
Access deck 1.80 m	1242.180	0	1	0	1	1	2	2	3
Spring clip	1250.000	0	4	0	4	8	12	12	16
Ladder frame 75 / 4 – 1.00 m	1297.004	0	2	0	2	0	2	0	2
Ladder frame 75 / 8 – 2.00 m	1297.008	0	0	0	0	2	2	4	4
Zifa 75 basic tower	1300.006	1	1	1	1	1	1	1	1
Castor 400 – 4 kN	1301.150	4	4	4	4	4	4	4	4
Mobile beam 1.80 m with bar	1323.180	0	0	0	0	2	2	2	2
Uni assembly hook	1300.010	0	0	0	0	1	1	1	1
Ballast	1249.000	For requirement see table below							

Retrofitting table

Simply safe with the P2 retrofit kits: The rollings can be easily retrofitted to the safety structure P2, to conform to the current standards.

Retrofit set	Artikel-Nr.	1400034	1400035
for tower model		**1406200**	**1406210**
Guardrail 1.80 m	1205.180	3	2
End toe board 0.75 m	1438.075	2	2
Toe board 1.80 m with claw	1439.180	2	2

* Any mobile beam 1.80 m (1214.180) in stock can remain in use.
Any double guardrails (1206.180) available can also remain in use.



The Zifa family

Tower model	1406200	1406210
Working height [m]	2.86	3.61
Tower height [m]	1.83	2.83
Platform height [m]	0.86	1.61
Weight [kg] (without ballast)	42.0	58.0
Ballast (stated in units)		
In closed areas		
Assembly central*	l4 r4*	l6 r6
Assembly off-set	X	X
Assembly off-set with wall bracing	l4 r0*	l6 r0
Outdoors		
Assembly central	l4 r4*	l6 r6
Assembly off-set	X	X
Assembly off-set with wall bracing	l4 r0*	l6 r0

The products shown (Ref. no. 1406200 and 1406210) are only standard-compliant by purchasing the retrofit set (Ref. nos. 1400034 and 1400035) according to DIN EN 1004:2021.

* The here shown ballasting is only necessary when climbing outsides. X = not possible / not permissible 0 = no ballast required
For ballasting, use Layher ballast weights, Ref. No. 1249.000, 10 kg each. These weights are attached quickly and securely at the right places using the star handle coupler.
All height dimensions are calculated without any spindle travel. The maximum spindle travel of each assemby variant is listed in its assembly instruction guide!
Do not use any liquid or granular ballast materials. The ballast weight must be distributed evenly to all ballasting fixing points (see instructions for assembly and use).

In central assembly, the ballast weights are distributed evenly over all four ladder frame standards. The remainder not divisible by 4 must be fitted in accordance with the instructions for assembly and use.
In off-set assembly on mobile beams, the ballast weights must be distributed evenly over the two ladder frame standards away from the wall.

SAFETY ASSEMBLY

- Conforms to standard **DIN EN 1004:2021**
- Platform in vertical spacing of 2 m
- Collective side protection
- Quick and easy assembly

RETROFITTABLE USING THE LAYHER MODULAR SYSTEM

If you already possess a Layher Rolling Tower, then you can convert it into the P2 variant without difficulty.

Conforms to standard **DIN EN 1004:2021**

1406300	**1406310**	**1406213** Safety structure P2	**1406214** Safety structure P2	**1406215** Safety structure P2	**1406216** Safety structure P2
2.61	3.61	4.76	5.76	6.76	7.76
1.83	2.83	3.98	4.98	5.98	6.98
0.61	1.61	2.76	3.76	4.76	5.76
62.1	75.9	140.5	169.6	192.2	218.0
I4 r4	I6 r6	0 0	I2 r2	I4 r4	I4 r4
X	X	L0 R2	L0 R4	L0 R6	L0 R8
I4 r0	I6 r0	0 0	L2 R0	R6 L0	L8 R0
I4 r4	I6 r6	0 0	I2 r2	I4 r4	I4 r4
X	X	L0 R2	L0 R6	L0 R8	X
I4 r0	I6 r0	0 0	L4 R0	L8 R0	L16 R0

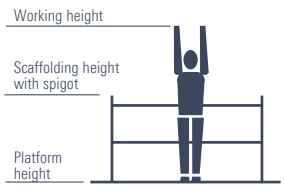
Zifa with stabilizers, extendable

Part list

The Layher modular system permits problem-free expansion of your rolling tower (for pictures see page 112 onwards).

Tower model	Ref. No.	1406233	1406234	1406235	1406236	1406237
Guardrail 1.80 m	1205.180	4	9	8	13	12
Diagonal brace 2.50 m	1208.180	1	2	4	4	6
Diagonal brace 1.95 m	1208.195	0	1	0	1	0
End toe board 0.75 m	1438.075	2	2	2	2	2
Toe board 1.80 m with claw	1439.180	2	2	2	2	2
Deck 1.80 m	1241.180	1	0	1	0	1
Access deck 1.80 m	1242.180	1	2	2	3	3
Alu stabilizer, extendable	1248.260	4	4	4	4	4
Rotation preventer	1248.261	4	4	4	4	4
Spring clip	1250.000	4	8	8	12	12
Ladder frame 75/4 – 1.00 m	1297.004	0	2	0	2	0
Ladder frame 75/8 – 2.00 m	1297.008	2	2	4	4	6
Zifa 75 basic tower	1300.006	1	1	1	1	1
Castor 400 – 4 kN	1301.150	4	4	4	4	4
Uni Montagehaken	1300.010	1	1	1	1	1
Uni assembly hook	1249.000	For requirement see table below				

Conforms to standard **DIN EN 1004:2021**



The Zifa family

Tower model	1406233 Safety structure P2	1406234 Safety structure P2
Working height [m]	4.61	5.61
Tower height [m]	3.83	4.83
Platform height [m]	2.61	3.61
Weight [kg] (without ballast)	144.6	174.1
Ballast (stated in units)		
In closed areas		
Assembly central	0	0
Assembly off-set	L0 R4	L0 R6
Assembly off-set with wall bracing	0	0
Outdoors		
Assembly central	0	0
Assembly off-set	L0 R6	L0 R10
Assembly off-set with wall bracing	0	0

X = not possible/not permissible 0 = no ballast required

For ballasting, use Layher ballast weights, Ref. No. 1249.000, 10 kg each. These weights are attached quickly and securely at the right places using the star handle coupler.

All height dimensions are calculated without any spindle travel. The maximum spindle travel of each assemby variant is listed in its assembly instruction guide!

Do not use any liquid or granular ballast materials. The ballast weight must be distributed evenly to all ballasting fixing points (see instructions for assembly and use).

In central assembly, the ballast weights are distributed evenly over all four ladder frame standards. The remainder not divisible by 4 must be fitted in accordance with the instructions for assembly and use.

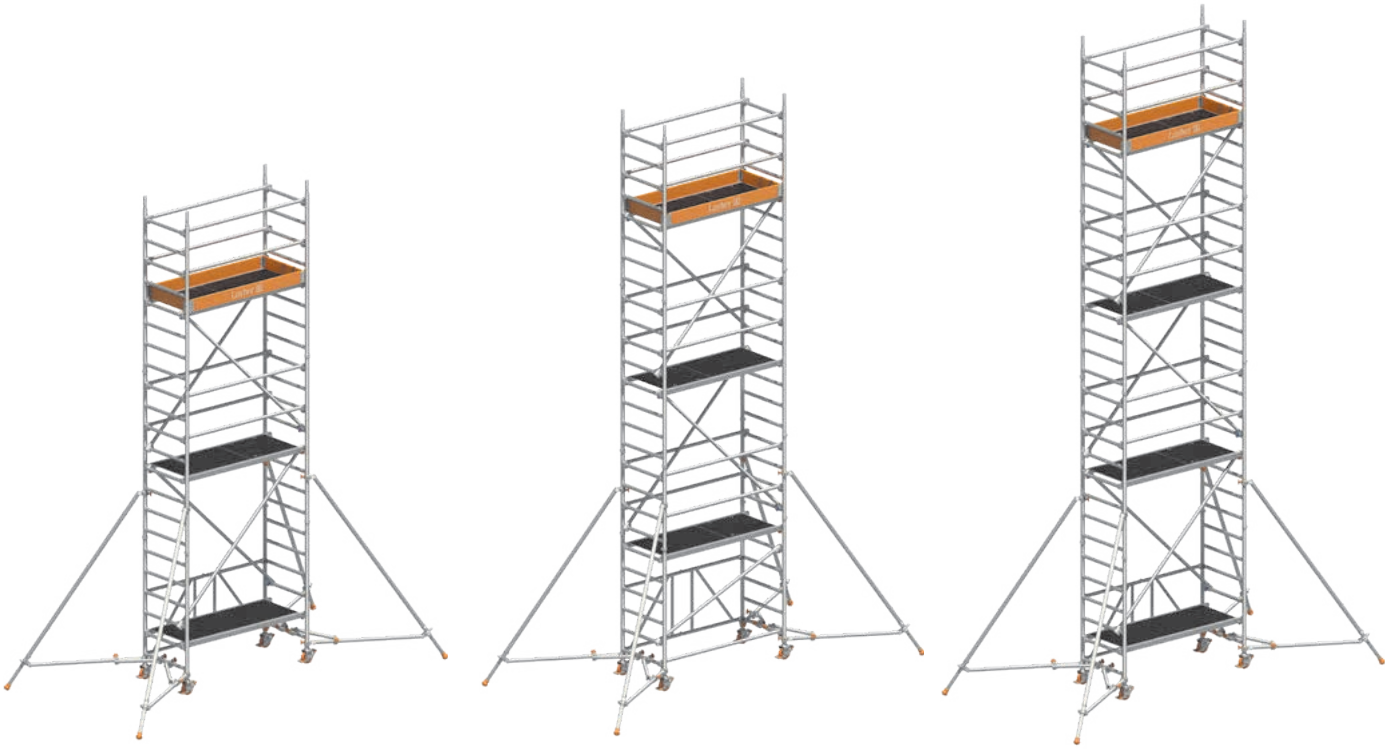
In off-set assembly on mobile beams, the ballast weights must be distributed evenly over the two ladder frame standards away from the wall.

SAFETY ASSEMBLY P2

- Conforms to standard **DIN EN 1004:2021**
- Platform in vertical spacing of 2 m
- Collective side protection
- Quick and easy assembly

RETROFITTABLE USING THE LAYHER MODULAR SYSTEM

If you already possess a Layher Rolling Tower, then you can convert it into the P2 variant without difficulty.



1406235 Safety structure P2	**1406236** Safety structure P2	**1406237** Safety structure P2
6.61	7.61	8.61
5.83	6.83	7.83
4.61	5.61	6.61
196.7	222.5	245.1
0	l2 r2	l2 r2
L0 R8	L0 R10	L0 R14
0	0	0
l2 r2	l4 r4	l8 r8
L0 R12	L0 R18	L0 R22
0	0	0

UNI LIGHT

THE PRACTICAL ROLLING TOWER FOR WORKING IN CRAMPED CONDITIONS

The Uni Light tower is a compact and lightweight rolling tower for safer and comfortable working wherever you formerly needed a ladder – the standing surface of a full 1.30 m² permits unimpeded movement and the carrying of tools and material.

Its low weight and handy dimensions make the Uni Light particularly easy to transport, even in a van. Ladder frames of aluminium for push-fit assembly; rear guardrails and diagonal braces of aluminium snap in easily.

Work decks with aluminium frame and plywood insert, as a hatch-type deck for risk-free internal access.

Strong castors (permanently fitted) ensure particular stability.

Mobile rigid beam, made of steel, for widening the base; with spigots for optional mounting of the ladder frames for work on ceilings or walls.

The Uni Light family can also be equipped with stabilizers.
Learn more about that on page 68.

TECHNICAL DATA

- Max. working height: 9.26 m
- Area of working platform: 0.75 x 1.80 m
- Permissible live load: 2 kN / m² (load class 3)


Layher

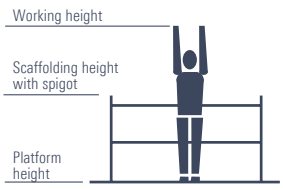
Uni Light

Part list

The Layher modular system permits problem-free expansion of your rolling tower (for pictures see page 112 onwards).

Tower model	Ref. No.	1403201	1403202	1403203	1403204	1403205	1403206	1403207
Guardrail 1.80 m	1205.180	0	4	9	8	13	12	17
Double guardrail 1.80 m	1206.180	2	0	0	0	0	0	0
Diagonal brace 2.50 m	1208.180	0	2	2	4	4	6	6
Diagonal brace 1.95 m	1208.195	0	0	2	0	2	0	2
Basic tube 1.80 m	1211.180	0	1	1	1	1	1	1
End toe board 0.75 m	1438.075	2	2	2	2	2	2	2
Toe board 1.80 m with claw	1439.180	2	2	2	2	2	2	2
Deck 1.80 m	1241.180	0	1	0	1	0	1	0
Access deck 1.80 m	1242.180	1	1	2	2	3	3	4
Spring clip 11 mm	1250.000	0	8	8	12	12	16	16
Ladder frame 75 / 4 – 1.00 m	1297.004	0	2	0	2	0	2	0
Ladder frame 75 / 8 – 2.00 m	1297.008	2	2	4	4	6	6	8
Castor 400 – 4 kN	1301.150	4	4	4	4	4	4	4
Mobile beam 1.80 m with bar	1323.180	0	2	2	2	2	2	2
Uni assembly hook	1300.010	0	1	1	1	1	1	1
Ballast	1249.000	For requirement see table below						

Conforms to standard **DIN EN 1004:2021**



The Uni Light family

Tower model	1403201	1403202 Safety structure P2	1403203 Safety structure P2
Working height [m]	3.11	4.26	5.26
Tower height [m]	2.33	3.48	4.48
Platfrom height [m]	1.11	2.26	3.26
Weight [kg] (without ballast)	65.5	134.2	160.8
Ballast (stated in units)			
In closed areas			
Assembly central*	l4 r4	0	0
Assembly off-set	X	0	L0 R2
Assembly off-set with wall bracing	X	0	0
Outdoors			
Assembly central*	l4 r4	0	0
Assembly off-set	X	0	L0 R4
Assembly off-set with wall bracing	X	0	0

* Assembly with adjustable mobile beam, which must be fully extended. X = not possible / not permissible 0 = no ballast required
For ballasting, use Layher ballast weights, Ref. No. 1249.000, 10 kg each. These weights are attached quickly and securely at the right places using the star handle coupler.
All height dimensions are calculated without any spindle travel. The maximum spindle travel of each assemby variant is listed in its assembly instruction guide!
Do not use any liquid or granular ballast materials. The ballast weight must be distributed evenly to all ballasting fixing points (see instructions for assembly and use).

Example: l2, r2 → 2 ballast weights of 10 kg each must be fastened to the left-hand side of the ladder frame, and 2 ballast weights of 10 kg each to its right-hand side
L6, R16 → 6 ballast weights of 10 kg each must be fastened to the left-hand side of the mobile beam, and 16 ballast weights of 10 kg each to its right-hand side.
r and R always relate, in the case of off-centre assembly, to that side facing away from the scaffolding; l and L relate to the side facing the scaffolding (see instructions for assembly and use).

SAFETY ASSEMBLY

- Conforms to standard **DIN EN 1004:2021**
- Platform in vertical spacing of 2 m
- Collective side protection
- Quick and easy assembly

RETROFITTABLE USING THE LAYHER MODULAR SYSTEM

If you already possess a Layher Rolling Tower, then you can convert it into the P2 variant without difficulty.

1403204 Safety structure P2	**1403205** Safety structure P2	**1403206** Safety structure P2	**1403207** Safety structure P2
6.26	7.26	8.26	9.26
5.48	6.48	7.48	8.48
4.26	5.26	6.26	7.26
182.6	209.2	231.0	257.6
l2 r2	l3 r3	l5 r5	l6 r6
L0 R4	L0 R6	L2 R8	L2 R10
L2 R2	L4 R2	L6 R4	L6 R6
l3 r3	l5 r5	l9 r9	l13 r13
L0 R6	L0 R10	L4 R14	X
L4 R2	L6 R4	L10 R8	X

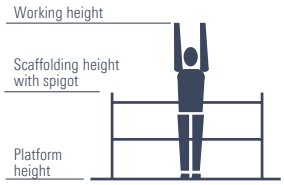
Uni Light with stabilizers, extendable

Part list

The Layher modular system permits problem-free expansion of your rolling tower (for pictures see page 112 onwards).

Tower model	Ref. No.	1403223	1403224	1403225	1403226	1403227
Guardrail 1.80 m	1205.180	10	10	14	14	18
Diagonal brace 2.50 m	1208.180	2	4	4	6	6
Diagonal brace 1.95 m	1208.195	2	0	2	0	2
End toe board 0.75 m	1438.075	2	2	2	2	2
Toe board 1.80 m with claw	1439.180	2	2	2	2	2
Access deck 1.80 m	1242.180	2	2	3	3	4
Alu stabilizer, extendable	1248.260	4	4	4	4	4
Rotation preventer	1248.261	4	4	4	4	4
Spring clip 11 mm	1250.000	4	8	8	12	12
Ladder frame 75 / 4 – 1.00 m	1297.004	0	2	0	2	0
Ladder frame 75 / 8 – 2.00 m	1297.008	4	4	6	6	8
Castor 400 – 4 kN	1301.150	4	4	4	4	4
Uni assembly hook	1300.010	1	1	1	1	1
Ballast	1249.000	For requirement see table below				

Conforms to standard **DIN EN 1004:2021**



The Uni Light family with stabilizers

Tower model	1403223 Safety structure P2	1403224 Safety structure P2
Working height [m]	5.10	6.10
Tower height [m]	4.35	5.35
Platform height [m]	3.10	4.10
Weight [kg] (without ballast)	166.4	177.2
Ballast (stated in units)		
In closed areas		
Assembly central*	0	0
Assembly off-set	L0 R4	L0 R8
Assembly off-set with wall bracing	0	0
Outdoors		
Assembly central*	0	0
Assembly off-set	L0 R6	L0 R10
Assembly off-set with wall bracing	0	0

* Assembly with adjustable mobile beam, which must be fully extended. X = not possible / not permissible 0 = no ballast required
For ballasting, use Layher ballast weights, Ref. No. 1249.000, 10 kg each. These weights are attached quickly and securely at the right places using the star handle coupler.
All height dimensions are calculated without any spindle travel. The maximum spindle travel of each assemby variant is listed in its assembly instruction guide!
Do not use any liquid or granular ballast materials. The ballast weight must be distributed evenly to all ballasting fixing points (see instructions for assembly and use).

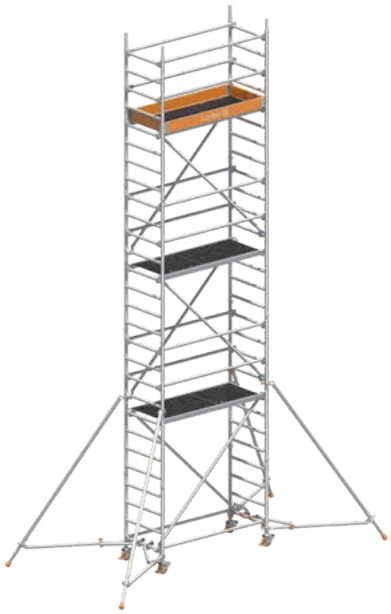
Example: l2, r2 → 2 ballast weights of 10 kg each must be fastened to the left-hand side of the ladder frame, and 2 ballast weights of 10 kg each to its right-hand side
L6, R16 → 6 ballast weights of 10 kg each must be fastened to the left-hand side of the mobile beam, and 16 ballast weights of 10 kg each to its right-hand side.
r and R always relate, in the case of off-centre assembly, to that side facing away from the scaffolding; l and L relate to the side facing the scaffolding (see instructions for assembly and use).

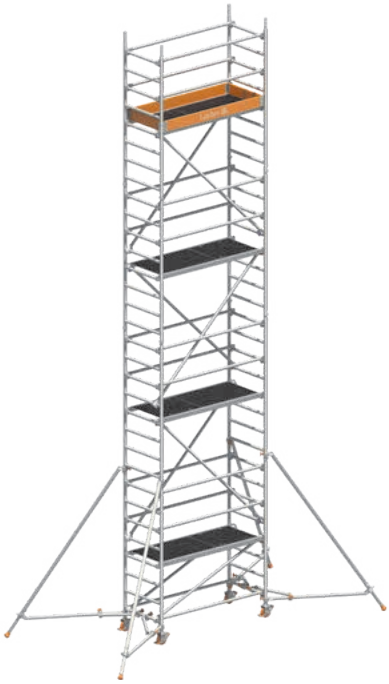
SAFETY ASSEMBLY

- Conforms to standard **DIN EN 1004:2021**
- Platform in vertical spacing of 2 m
- Collective side protection
- Quick and easy assembly

RETROFITTABLE USING THE LAYHER MODULAR SYSTEM

If you already possess a Layher Rolling Tower, then you can convert it into the P2 variant without difficulty.





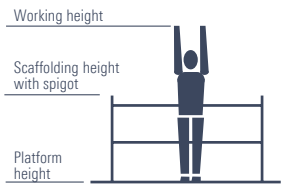
1403225 Safety structure P2	**1403226** Safety structure P2	**1403227** Safety structure P2
7.10	8.10	9.10
6.35	7.35	8.35
5.10	6.10	7.10
214.8	225.6	263.2
0	I2 r2	I2 r2
L0 R10	L0 R12	L0 R14
0	0	0
I3 r3	I6 r6	I8 r8
L0 R14	X	X
0	0	I2 r0

Uni Light

Part list

The Layher modular system permits problem-free expansion of your rolling tower (for pictures see page 112 onwards).

Tower model	Ref. No.	3201	3202	3203	3204	3205	3206	3207
Guardrail 1.80 m	1205.180	0	6	2	6	8	12	10
Double guardrail 1.80 m	1206.180	2	0	2	0	2	0	2
Diagonal brace 2.50 m	1208.180	0	2	2	4	4	6	6
Horizontal diagonal brace 1,95 m	1209.180	0	0	0	1	1	1	1
Mobile beam 1.80 m without bar	1214.180	0	2	2	2	2	2	2
End toe board 0.75 m	1438.075	0	2	2	2	2	2	2
Toe board 1.80 m with claw	1439.180	0	2	2	2	2	2	2
Access deck 1.80 m	1242.180	1	1	1	1	2	2	2
Spring clip 11 mm	1250.000	0	8	8	12	12	16	16
Ladder frame 75 / 4 – 1.00 m	1297.004	0	2	0	2	0	2	0
Ladder frame 75 / 8 – 2.00 m	1297.008	2	2	4	4	6	6	8
Castor 400 – 4 kN	1301.150	4	4	4	4	4	4	4
Ballast	1249.000	For requirement see table below						



The Uni Light family

Tower model	3201	3202	3203
Working height [m]	3.11	4.26	5.26
Tower height [m]	2.33	3.48	4.48
Platform height [m]	1.11	2.26	3.26
Weight [kg] (without ballast)	52.3	110.4	120.6
Ballast (stated in units)			
In closed areas			
Assembly central*	l4 r4	0	4
Assembly off-set	X	2	6
Assembly off-set with wall bracing	X	0	4
Outdoors			
Assembly central*	l4 r4	0	4
Assembly off-set	X	4	8
Assembly off-set with wall bracing	X	0	4

The products shown (pages 70 and 71) are only standard-compliant by purchasing the retrofit set (page 71) according to DIN EN 1004:2021.

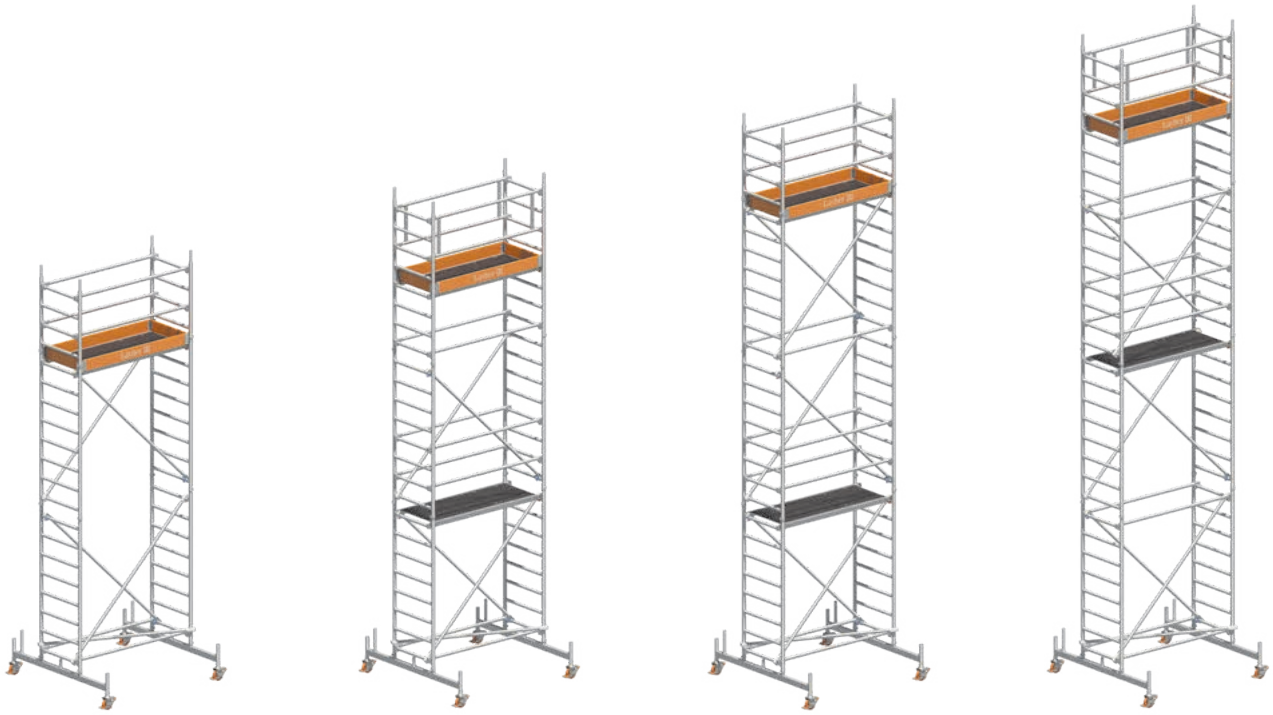
* Assembly with adjustable mobile beam, which must be fully extended. X = not possible / not permissible 0 = no ballast required
For ballasting, use Layher ballast weights, Ref. No. 1249.000, 10 kg each. These weights are attached quickly and securely at the right places using the star handle coupler.
All height dimensions are calculated without any spindle travel. The maximum spindle travel of each assemby variant is listed in its assembly instruction guide!
Do not use any liquid or granular ballast materials. The ballast weight must be distributed evenly to all ballasting fixing points (see instructions for assembly and use).

Example: l2, r2 → 2 ballast weights of 10 kg each must be fastened to the left-hand side of the ladder frame, and 2 ballast weights of 10 kg each to its right-hand side
L6, R16 → 6 ballast weights of 10 kg each must be fastened to the left-hand side of the mobile beam, and 16 ballast weights of 10 kg each to its right-hand side.
r and R always relate, in the case of off-centre assembly, to that side facing away from the scaffolding; l and L relate to the side facing the scaffolding (see instructions for assembly and use).

Retrofitting table Simply safe with the P2 retrofit kits: The rollings can be easily retrofitted to the safety structure P2, to conform to the current standards.

Retrofit set	Ref. No.	1400036	1400021	1400022	1400023	1400024	1400025	1400026
for tower model		3201*	3202*	3203*	3204*	3205*	3206*	3207*
Guardrail 1.80 m	1205.180	0	0	3	4	1	2	3
Diagonal brace 1.95 m	1208.195	0	0	2	0	2	0	2
Basic tube 1.80 m	1211.180	0	1	1	1	1	1	1
Access deck 1.80 m	1242.180	0	0	1	1	1	1	2
Uni assembly hook	1300.010	0	1	1	1	1	1	1
End toe board 0.75 m	1438.075	2	0	0	0	0	0	0
Toe board 1.80 m with claw	1439.180	2	0	0	0	0	0	0

* If there there are already mobile beams 1.80 m (1214.180) and / or double rear guardrails (1206.180) in your inventory, there's no need to replace them. They can still be used.



3204	3205	3206	3207
6.26	7.26	8.26	9.26
5.48	6.48	7.48	8.48
4.26	5.26	6.26	7.26
138.1	177.1	191.1	205.9
8	12	12	16
10	14	12	16
8	10	12	14
10	14	20	26
12	20	20	26
8	10	12	14

All dimensions and weights are guideline values. Subject to technical modification. Our deliveries shall be made exclusively in accordance with our currently valid General Terms of Sale. Title to the delivered goods shall be retained until full payment has been made. When purchasing, you receive instructions for assembly and use that must be followed without fail or assembly, dismantling and use.

UNI LIGHT STAIR KIT SOLUTION

FOR MORE SAFETY AND FLEXIBILITY

The stair kit for Uni Light permits safer and more flexible use of rolling tower parts in stairwells: it does not require any modification work, since the stair remains accessible despite the scaffolding.

By expanding standard scaffolding models with a few individual components, the stair kit offers in combination with Uni Light an economically smarter, swifter and safer solution for working at heights – also as an alternative to rung ladders, which are now only usable to a limited extent due to current occupational safety regulations. After mounting the base on the stair steps, assembling of the required scaffolding levels can be performed with the already proven Safety Assembly P2.

THE BENEFITS FOR YOU

- Use of rolling tower parts in stairwells up to platform height of 5 m.
- Passageways to suit the site – complete blocking off of the stair not needed
- Adaptation to stair steps – riser and tread – is possible
- Passageway also as entrance for upward access
- Thanks to the modular principle, many assembly variants are possible

Item description	Ref. No.	Uni Light Stair Kit Expansion TYPE 1	Uni Light Stair Kit Expansion TYPE 2
		1603291	**1603292**
Suspended ladder	1247.006	0	1
Aluminium walk-through ladder frame	1296.008	1	2
Aluminium ladder frame	1297.002	1	1
Beam	1207.180	2	2
Rubber underlay for base plate	4000.500	4	4
Diagonal brace	1208.195	2	2
Adjustable base plate	1257.060	4	4
Tele distance tube	1275.001	2	2
Double coupler	4700.019	4	4
Hand wheel with bush	6491.422	8	8

OPTIONAL

Item description	Ref. No.	Stabilizers kit
		1600090
Rotation preventer	1248.261	4
Alu stabilizer, extendable	1248.260	4

UNI COMPACT

THE COMPACT UNIVERSAL TOWER WITH DOUBLE-WIDTH WORKING SURFACE

The universal tower with double-width working surface yet with compact basic dimensions – offering sufficient room for working at heights, even with materials, yet still leaving plenty of freedom to move.

Ladder frames (1.50 m wide) of aluminium for push-fit assembly; rear guardrails and diagonal braces of aluminium snap in easily.

Work decks with aluminium frame and plywood insert, as a hatch-type deck for risk-free internal access.

Sturdy castors with concentric load transmission after locking for particular stability, long steel spindles for levelling.

Base widening: With mobile beam made of steel, telescoping for work on ceilings or walls to choice, only needed at working heights of 8.38 m and above.

The Uni Compact family can also be equipped with stabilizers.
Learn more about that on page 78.

TECHNICAL DATA

- Working height: 10.38 m
- Area of working platform: 1.50 x 1.80 m
- Permissible live load: 2 kN / m² (load class 3)


Layher

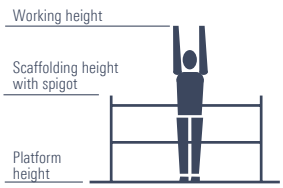
Uni Compact

Part list

The Layher modular system permits problem-free expansion of your rolling tower (for pictures see page 112 onwards).

Tower model	Ref. No.	1405001	1405002	1405003	1405004	1405005	1405006	1405007	1405008
Guardrail 1.80 m	1205.180	0	6	10	10	14	12	17	16
Double guardrail 1.80 m	1206.180	2	0	0	0	0	0	0	0
Diagonal brace 2.50 m	1208.180	0	2	2	4	4	6	6	8
Diagonal brace 1.95 m	1208.195	0	0	2	0	2	0	2	0
Basic tube 1.80 m	1211.180	0	0	0	0	0	1	1	1
End toe board 1.44 m	1438.144	2	2	2	2	2	2	2	2
Toe board 1.80 m with claw	1439.180	2	2	2	2	2	2	2	2
Deck 1.80 m	1241.180	1	2	2	3	3	4	4	5
Access deck 1.80 m	1242.180	1	1	2	2	3	3	4	4
Spring clip 11 mm	1250.000	0	4	4	8	8	16	16	20
Castor 700 – 7 kN	1359.200	4	4	4	4	4	4	4	4
Ladder frame 150 / 4 – 1.00 m	1299.004	0	2	0	2	0	2	0	2
Ladder frame 150 / 8 – 2.00 m	1299.008	2	2	4	4	6	6	8	8
Mobile beam with bar adj.	1323.320	0	0	0	0	0	2	2	2
Access ledger 0.75 m	1344.003	0	2	1	2	1	0	0	0
Uni assembly hook	1300.010	0	1	1	1	1	1	1	1
Ballast	1249.000	For requirement see table below							

Conforms to standard **DIN EN 1004:2021**



The Uni Compact family

Tower model	1405001	1405002 Safety structure P2	1405003 Safety structure P2	1405004 Safety structure P2
Working height [m]	3.20	4.20	5.20	6.20
Tower height [m]	2.43	3.43	4.43	5.43
Platform height [m]	1.20	2.20	3.20	4.20
Weight [kg] (without ballast)	108.3	152.5	192.0	224.0
Ballast (stated in units)				
In closed areas				
Assembly central	0	l1 r1	l1 r1	l4 r4
Assembly off-set	X	X	X	X
Assembly off-set with wall bracing	0	l2 r0	l2 r0	l4 r0
Outdoors				
Assembly central	0	l1 r1	l3 r3	l7 r7
Assembly off-set	X	X	X	X
Assembly off-set with wall bracing	0	l2 r0	l4 r0	l10 r4

* Assembly with adjustable mobile beam, which must be fully extended. X = not possible / not permissible 0 = no ballast required
For ballasting, use Layher ballast weights, Ref. No. 1249.000, 10 kg each. These weights are attached quickly and securely at the right places using the star handle coupler.
All height dimensions are calculated without any spindle travel. The maximum spindle travel of each assemby variant is listed in its assembly instruction guide!
Do not use any liquid or granular ballast materials. The ballast weight must be distributed evenly to all ballasting fixing points (see instructions for assembly and use).

Example: l2, r2 → 2 ballast weights of 10 kg each must be fastened to the left-hand side of the ladder frame, and 2 ballast weights of 10 kg each to its right-hand side
L6, R16 → 6 ballast weights of 10 kg each must be fastened to the left-hand side of the mobile beam, and 16 ballast weights of 10 kg each to its right-hand side.
r and R always relate, in the case of off-centre assembly, to that side facing away from the scaffolding; l and L relate to the side facing the scaffolding (see instructions for assembly and use).

SAFETY ASSEMBLY

- Conforms to standard **DIN EN 1004:2021**
- Platform in vertical spacing of 2 m
- Collective side protection
- Quick and easy assembly

RETROFITTABLE USING THE LAYHER MODULAR SYSTEM

If you already possess a Layher Rolling Tower, then you can convert it into the P2 variant without difficulty.

1405005 Safety structure P2	**1405006** Safety structure P2	**1405007** Safety structure P2	**1405008** Safety structure P2
7.20	8.38	9.38	10.38
6.43	7.61	8.61	9.61
5.20	6.38	7.38	8.38
263.5	377.4	422.5	448.9
l4 r4	0	0	l1 r1
X	0	0	l1 r1
l4 r0	0	0	l1 r1
l11 r11	l13 r13	l17 r17	X
X	l13 r13	l17 r17	X
l14 r4	l13 r13	l17 r17	X

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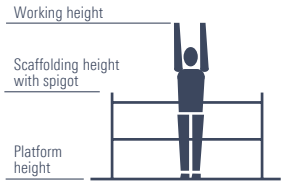
Uni Compact with stabilizers, extendable

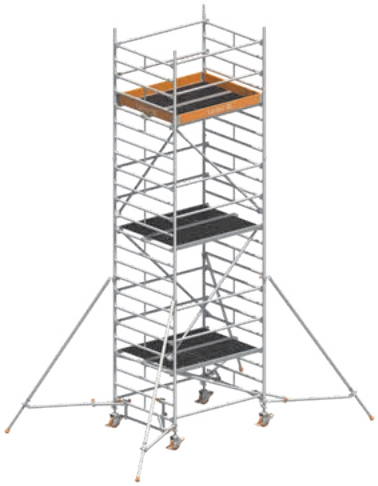
Part list

The Layher modular system permits problem-free expansion of your rolling tower (for pictures see page 112 onwards).

Tower model	Ref. No.	1405024	1405025	1405026	1405027	1405028
Guardrail 1.80 m	1205.180	10	14	14	18	18
Diagonal brace 2.50 m	1208.180	4	4	6	6	8
Diagonal brace 1.95 m	1208.195	0	2	0	2	0
End toe board 1.44 m	1438.144	2	2	2	2	2
Toe board 1.80 m with claw	1439.180	2	2	2	2	2
Access deck 1.80 m	1241.180	2	3	3	4	4
Access ledger 1.80 m	1242.180	2	3	3	4	4
Alu stabilizer, extendable	1248.260	4	4	4	4	4
Rotation preventer	1248.261	4	4	4	4	4
Spring clip	1250.000	8	8	12	12	16
Castor 700 – 7 kN	1359.200	4	4	4	4	4
Ladder frame 150/4 – 1.00 m	1299.004	2	0	2	0	2
Ladder frame 150/8 – 2.00 m	1299.008	4	6	6	8	8
Access ledger 0.75 m	1344.003	1	1	1	1	1
Uni assembly hook	1300.010	1	1	1	1	1
Ballast	1249.000	For requirement see table below				

Entspricht der Norm **DIN EN 1004:2021**





The Uni Compact family with stabilizers

Tower model	1405024 Safety structure P2	1405025 Safety structure P2
Working height [m]	6.20	7.20
Tower height [m]	5.45	6.45
Platform height [m]	4.20	5.20
Weight [kg] (without ballast)	252.6	308.7
Ballast (stated in units)		
In closed areas		
Assembly central	0	0
Assembly off-set	L0 R2	L0 R2
Assembly off-set with wall bracing	0	0
Outdoors		
Assembly central	l2 r2	l4 r4
Assembly off-set	L0 R4	L0 R6
Assembly off-set with wall bracing	0	0

* Assembly with adjustable mobile beam, which must be fully extended. X = not possible/not permissible 0 = no ballast required
For ballasting, use Layher ballast weights, Ref. No. 1249.000, 10 kg each. These weights are attached quickly and securely at the right places using the star handle coupler.
All height dimensions are calculated without any spindle travel. The maximum spindle travel of each assemby variant is listed in its assembly instruction guide!
Do not use any liquid or granular ballast materials. The ballast weight must be distributed evenly to all ballasting fixing points (see instructions for assembly and use).

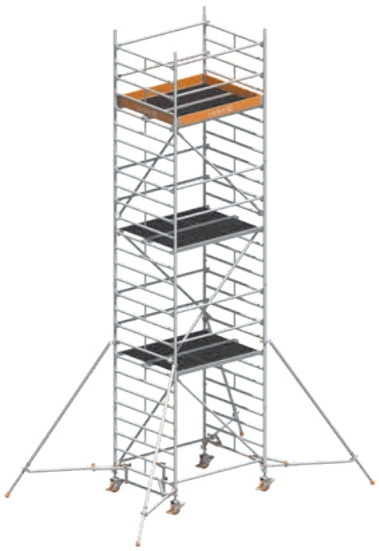
Example: l2, r2 → 2 ballast weights of 10 kg each must be fastened to the left-hand side of the ladder frame, and 2 ballast weights of 10 kg each to its right-hand side
L6, R16 → 6 ballast weights of 10 kg each must be fastened to the left-hand side of the mobile beam, and 16 ballast weights of 10 kg each to its right-hand side.
r and R always relate, in the case of off-centre assembly, to that side facing away from the scaffolding; l and L relate to the side facing the scaffolding (see instructions for assembly and use).

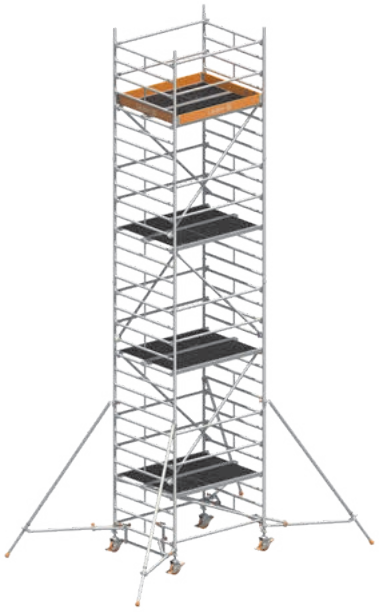
SAFETY ASSEMBLY

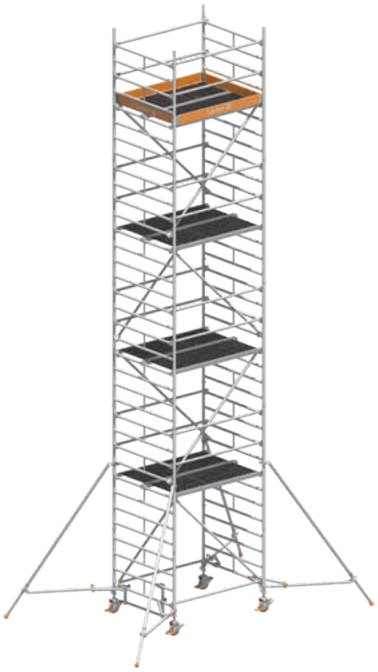
- Conforms to standard **DIN EN 1004:2021**
- Platform in vertical spacing of 2 m
- Collective side protection
- Quick and easy assembly

RETROFITTABLE USING THE LAYHER MODULAR SYSTEM

If you already possess a Layher Rolling Tower, then you can convert it into the P2 variant without difficulty.







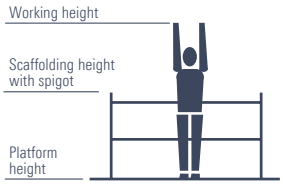
1405026 Safety structure P2	**1405027** Safety structure P2	**1405028** Safety structure P2
8,20	9,20	10,20
7,45	8,45	9,45
6,20	7,20	8,20
324,1	380,2	395,6
0	0	0
L0 R4	L0 R4	L0 R6
0	0	0
I9 r9	I12 r12	X
L0 R10	L0 R14	X
0	0	X

Uni Compact

Part list

The Layher modular system permits problem-free expansion of your rolling tower (for pictures see page 112 onwards).

Tower model	Ref. No.	5001	5002	5003	5004	5005	5006	5007	5008
Guardrail 1.80 m	1205.180	0	6	2	6	8	9	9	11
Double guardrail 1.80 m	1206.180	2	0	2	0	2	0	2	0
Diagonal brace 2.50 m	1208.180	0	2	2	4	4	6	6	8
End toe board 1.44 m	1438.144	0	2	2	2	2	2	2	2
Toe board 1.80 m with claw	1439.180	0	2	2	2	2	2	2	2
Deck 1.80 m	1241.180	1	1	1	1	2	2	2	2
Access deck 1.80 m	1242.180	1	1	1	1	2	2	2	2
Spring clip 11 mm	1250.000	0	4	4	8	8	16	16	20
Castor 700 – 7 kN	1359.200	4	4	4	4	4	4	4	4
Ladder frame 150 / 4 – 1.00 m	1299.004	0	2	0	2	0	2	0	2
Ladder frame 150 / 8 – 2.00 m	1299.008	2	2	4	4	6	6	8	8
Mobile beam with bar adj.	1323.320	0	0	0	0	0	2	2	2
Base strut 1.80 m	1324.180	0	0	0	0	0	1	1	1
Access ledger 0.75 m	1344.003	0	1	1	1	1	0	0	0
Ballast	1249.000	For requirement see table below							



The Uni Compact family

Tower model	5001	5002	5003	5004
Working height [m]	3.20	4.20	5.20	6.20
Tower height [m]	2.43	3.43	4.43	5.43
Platform height [m]	1.20	2.20	3.20	4.20
Weight [kg] (without ballast)	94.0	134.6	150.0	168.6
Ballast (stated in units)				
In closed areas				
Assembly central*	0	0	4	8
Assembly off-set	X	X	X	X
Assembly off-set with wall bracing	0	X	X	X
Outdoors				
Assembly central*	0	0	6	14
Assembly off-set	X	X	X	X
Assembly off-set with wall bracing	0	X	X	X

The products shown (pages 80 and 81) are only standard-compliant by purchasing the retrofit set (page 81) according to DIN EN 1004:2021.

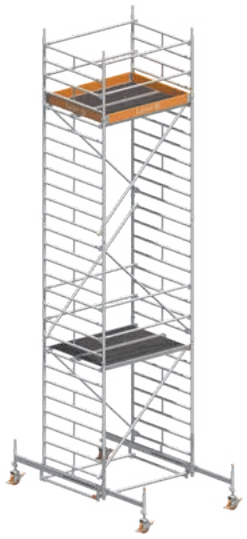
* Assembly with adjustable mobile beam, which must be fully extended. X = not possible / not permissible 0 = no ballast required
For ballasting, use Layher ballast weights, Ref. No. 1249.000, 10 kg each. These weights are attached quickly and securely at the right places using the star handle coupler.
All height dimensions are calculated without any spindle travel. The maximum spindle travel of each assemby variant is listed in its assembly instruction guide!
Do not use any liquid or granular ballast materials. The ballast weight must be distributed evenly to all ballasting fixing points (see instructions for assembly and use).

Example: l2, r2 → 2 ballast weights of 10 kg each must be fastened to the left-hand side of the ladder frame, and 2 ballast weights of 10 kg each to its right-hand side
L6, R16 → 6 ballast weights of 10 kg each must be fastened to the left-hand side of the mobile beam, and 16 ballast weights of 10 kg each to its right-hand side.
r and R always relate, in the case of off-centre assembly, to that side facing away from the scaffolding; l and L relate to the side facing the scaffolding (see instructions for assembly and use).

Retrofitting table Simply safe with the P2 retrofit kits: The rollings can be easily retrofitted to the safety structure P2, to conform to the current standards.

Retrofit set	Ref. No.	1400037	1400027	1400028	1400029	1400030	1400031	1400032	1400033
for tower model		**5001***	**5002**	**5003***	**5004**	**5005***	**5006***	**5007***	**5008***
Guardrail 1.80 m	1205.180	0	0	4	4	2	3	4	5
Diagonal brace 1.95 m	1208.195	0	0	2	0	2	0	2	0
Deck 1.80 m	1241.180	0	1	1	2	1	2	2	3
Access deck 1.80 m	1242.180	0	0	1	1	1	1	2	2
Access ledger 0.75 m	1344.003	0	1	0	1	0	0	0	0
Uni assembly hook	1300.001	0	1	1	1	1	1	1	1
End toe board 1.44 m	1438.144	2	0	0	0	0	0	0	0
Toe board 1.80 m with claw	1439.180	2	0	0	0	0	0	0	0

* If there there are already mobile beams 1.80 m (1214.180) and / or double rear guardrails (1206.180) in your inventory, there's no need to replace them. They can still be used.



5005	5006	5007	5008
7.20	8.38	9.38	10.38
6.43	7.61	8.61	9.61
5.20	6.38	7.38	8.38
226.1	326.1	350.7	364.7
8	0	4	6
X	0	4	8
X	0	4	8
20	24	36	X
X	24	36	X
X	24	36	X

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UNI STANDARD

THE MOST FLEXIBLE ROLLING TOWER FOR VERY GREAT HEIGHTS

For work on walls and ceilings, on machinery, in technical plant, factories and warehouses, indoors and outdoors.

Ladder frames of aluminium for push-fit assembly; rear guardrails and diagonal braces of aluminium snap in easily.

Work decks with aluminium frame and plywood insert, also as a hatch-type deck for risk-free internal access.

Sturdy castors with concentric load transmission after locking for particular stability, long steel spindles for levelling.

Base widening: With mobile beam made of steel, rigid or telescopic, with spigots for optional mounting of ladder frames for work on ceilings and walls; alternatively with stabilizers see page 86.

TECHNICAL DATA

- Working height: 13.38 m
- Area of working platform: 0.75 x 2.85 m
- Permissible live load: 2 kN / m² (load class 3)

Convenient access

For even more safety and even more convenient access, the Uni Standard P2 can also be supplied with suspended ladders with wide steps.

For requirement see page 84.


Layher

Uni Standard

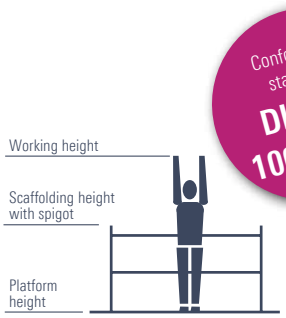
Part list

The Layher modular system permits problem-free expansion of your rolling tower (for pictures see page 112 onwards).

Tower model	Ref. No.	1401101	1401102	1401103	1401104	1401105	1401106	1401107	1401108	1401109	1401110	1401111
Guardrail 2.85 m	1205.285	0	4	9	8	13	12	17	16	21	20	25
Double guardrail 2.85 m	1206.285	2	0	0	0	0	0	0	0	0	0	0
Diagonal brace 3.35 m	1208.285	0	2	2	4	4	6	6	8	8	10	10
Diagonal brace 2.95 m	1208.295	0	0	2	0	2	0	2	0	2	0	2
Basic tube 2.85 m	1211.285	0	1	1	1	1	1	1	1	1	1	1
End toe board 0.75 m	1438.075	2	2	2	2	2	2	2	2	2	2	2
Toe board 2.85 m with claw	1439.285	2	2	2	2	2	2	2	2	2	2	2
Deck 2.85 m	1241.285	0	1	0	1	0	1	0	1	0	1	0
Access deck 2.85 m	1242.285	1	1	2	2	3	3	4	4	5	5	6
Spring clip 11 mm	1250.000	0	8	8	12	12	16	16	20	20	24	24
Castor 700 – 7 kN	1359.200	4	4	4	4	4	4	4	4	4	4	4
Ladder frame 75 / 4 – 1.00 m	1297.004	0	2	0	2	0	2	0	2	0	2	0
Ladder frame 75 / 8 – 2.00 m	1297.008	2	2	4	4	6	6	8	8	10	10	12
Mobile beam with bar	1323.180	0	2	2	2	2	2	0	0	0	0	0
Mobile beam with bar adj.	1323.320	0	0	0	0	0	0	2	2	2	2	2
Uni assembly hook	1300.010	0	1	1	1	1	1	1	1	1	1	1
Ballast	1249.000	For requirement see table below										

Extra requirement for suspended step ladders – usable for safety structure P2

Tower model	Ref. No.	1401101	1401102	1401103	1401104	1401105	1401106	1401107	1401108	1401109	1401110	1401111
Suspended ladder, 8 rungs	1314.108	0	1	1	2	2	3	3	4	4	5	5
Ladder support set for 1314.108	1314.109	0	1	0	1	0	1	0	1	0	1	0



The Uni Standard family

Tower model	1401101	1401102 Safety structure P2	1401103 Safety structure P2	1401104 Safety structure P2	1401105 Safety structure P2
Working height [m]	3.20	4.35	5.35	6.35	7.35
Tower height [m]	2.43	3.58	4.58	5.58	6.58
Platform height [m]	1.20	2.35	3.35	4.35	5.35
Weight [kg] (without ballast)	96.4	181.5	216.4	243.3	278.2
Ballast (stated in units)					
In closed areas					
Assembly central	l2 r2	0	0	0	0
Assembly off-set	X	0	0	L0 R4	L0 R4
Assembly off-set with wall bracing	X	0	0	0	0
Assembly central with 1 bracket*	X	0	0	L0 R2	L0 R4
Assembly central with 2 brackets*	X	0	0	0	0
Outdoors					
Assembly central	l2 r2	0	l1 r1	l5 r5	l9 r9
Assembly off-set	X	L0 R2	L0 R6	L0 R10	L4 R16
Assembly off-set with wall bracing	X	0	0	0	L4 R0
Assembly central with 1 bracket*	X	L0 R4	L0 R8	L2 R12	L6 R16
Assembly central with 2 brackets*	X	l2 r2	l5 r5	l8 r8	X

* Assembly with adjustable mobile beam, which must be fully extended. X = not possible / not permissible 0 = no ballast required
For ballasting, use Layher ballast weights, Ref. No. 1249.000, 10 kg each. These weights are attached quickly and securely at the right places using the star handle coupler.
All height dimensions are calculated without any spindle travel. The maximum spindle travel of each assemby variant is listed in its assembly instruction guide!
Do not use any liquid or granular ballast materials. The ballast weight must be distributed evenly to all ballasting fixing points (see instructions for assembly and use).

Example: l2, r2 → 2 ballast weights of 10 kg each must be fastened to the left-hand side of the ladder frame, and 2 ballast weights of 10 kg each to its right-hand side
L6, R16 → 6 ballast weights of 10 kg each must be fastened to the left-hand side of the mobile beam, and 16 ballast weights of 10 kg each to its right-hand side.
r and R always relate, in the case of off-centre assembly, to that side facing away from the scaffolding; l and L relate to the side facing the scaffolding (see instructions for assembly and use).

SAFETY ASSEMBLY

- Conforms to standard **DIN EN 1004:2021**
- Platform in vertical spacing of 2 m
- Collective side protection
- Quick and easy assembly

RETROFITTABLE USING THE LAYHER MODULAR SYSTEM

If you already possess a Layher Rolling Tower, then you can convert it into the P2 variant without difficulty.

1401106 Safety structure P2	**1401107** Safety structure P2	**1401108** Safety structure P2	**1401109** Safety structure P2	**1401110** Safety structure P2	**1401111** Safety structure P2
8.35	9.38	10.38	11.38	12.38	13.38
7.58	8.61	9.61	10.61	11.61	12.61
6.35	7.38	8.38	9.38	10.38	11.38
305.1	391.2	418.1	453.0	479.9	514.8
0	0	0	0	0	0
L0 R6	L0 R4	L0 R6	L0 R6	L0 R8	L0 R10
0	0	0	0	0	0
L0 R6	0	0	0	0	0
0	0	0	0	0	0
I15 r15	I2 r2	X	X	X	X
L10 R22	L0 R18	X	X	X	X
L10 R0	0	X	X	X	X
L12 R22	X	X	X	X	X
X	X	X	X	X	X

All dimensions and weights are guideline values. Subject to technical modification. Our deliveries shall be made exclusively in accordance with our currently valid General Terms of Sale. Title to the delivered goods shall be retained until full payment has been made. When purchasing, you receive instructions for assembly and use that must be followed without fail or assembly, dismantling and use.

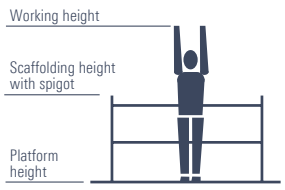
Uni Standard with stabilizers

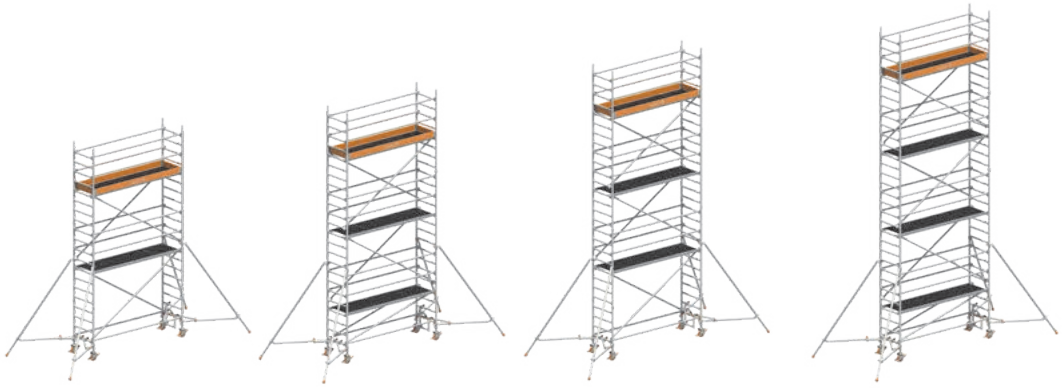
Part list

The Layher modular system permits problem-free expansion of your rolling tower (for pictures see page 112 onwards).

		Uni Standard P2 with stabilizers, extendable							
Tower model	**Ref. No.**	**1401124**	**1401125**	**1401126**	**1401127**	**1401128**	**1401129**	**1401130**	**1401131**
Guardrail 2.85 m	1205.285	10	14	14	18	18	22	22	26
Diagonal brace 3.35 m	1208.285	4	4	6	6	8	8	10	10
Diagonal brace 2.95 m	1208.295	0	2	0	2	0	2	0	2
End toe board 0.75 m	1438.075	2	2	2	2	2	2	2	2
Toe board 2.85 m with claw	1439.285	2	2	2	2	2	2	2	2
Access deck 2.85 m	1242.285	2	3	3	4	4	5	5	6
Stabilizer, extendable	1248.260	4	4	4	4	4	4	4	4
Rotation preventer	1248.261	4	4	4	4	4	4	4	4
Stabilizer, 5 m	1248.500	0	0	0	0	0	0	0	0
Spring clip 11 mm	1250.000	8	8	12	12	16	16	20	20
Castor 700 – 7 kN	1359.200	4	4	4	4	4	4	4	4
Ladder frame 75/4 –1.00 m	1297.004	2	0	2	0	2	0	2	0
Ladder frame 75/8 –2.00 m	1297.008	4	6	6	8	8	10	10	12
Access ledger	1344.002	1	1	1	1	1	1	1	1
Uni assembly hook	1300.010	1	1	1	1	1	1	1	1
Ballast	1249.000	For requirement see table below							

Conforms to standard **DIN EN 1004:2021**





The Uni Standard family with stabilizers, extendable

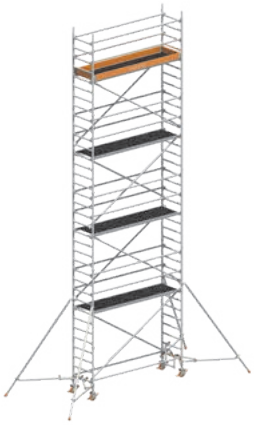
Tower model	**1401124** Safety structure P2	**1401125** Safety structure P2	**1401126** Safety structure P2	**1401127** Safety structure P2
Working height [m]	6.20	7.20	8.20	9.20
Tower height [m]	5.43	6.43	7.43	8.43
Standing height [m]	4.20	5.20	6.20	7.20
Weight [kg] (without ballast)	232.2	283.5	294.0	345.3
Ballast (stated in units)				
In closed areas				
Assembly central	0	0	0	0
Assembly off-set	L0 R6	L0 R8	L0 12R	L0 R12
Assembly off-set with wall bracing	0	0	0	0
Outdoors				
Assembly central	0	0	0	0
Assembly off-set	L0 R16	L0 R20	L0 R28	L0 R34
Assembly off-set with wall bracing	0	0	0	0

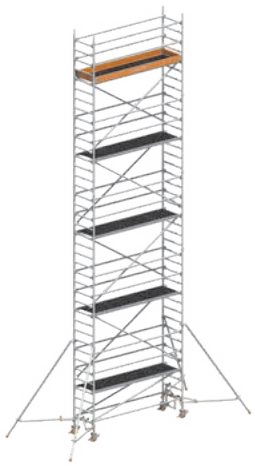
* Assembly with adjustable mobile beam, which must be fully extended. X = not possible/not permissible 0 = no ballast required
For ballasting, use Layher ballast weights, Ref. No. 1249.000, 10 kg each. These weights are attached quickly and securely at the right places using the star handle coupler.
All height dimensions are calculated without any spindle travel. The maximum spindle travel of each assemby variant is listed in its assembly instruction guide!
Do not use any liquid or granular ballast materials. The ballast weight must be distributed evenly to all ballasting fixing points (see instructions for assembly and use).

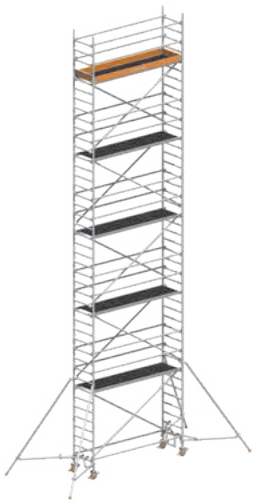
Example: l2, r2 → 2 ballast weights of 10 kg each must be fastened to the left-hand side of the ladder frame, and 2 ballast weights of 10 kg each to its right-hand side
L6, R16 → 6 ballast weights of 10 kg each must be fastened to the left-hand side of the mobile beam, and 16 ballast weights of 10 kg each to its right-hand side.
r and R always relate, in the case of off-centre assembly, to that side facing away from the scaffolding; l and L relate to the side facing the scaffolding (see instructions for assembly and use).

Uni Standard P2 with stabilizers, 5 m						
1401145	**1401146**	**1401147**	**1401148**	**1401149**	**1401150**	**1401151**
14	14	18	18	22	22	26
4	6	6	8	8	10	10
2	0	2	0	2	0	2
2	2	2	2	2	2	2
2	2	2	2	2	2	2
3	3	4	4	5	5	6
0	0	0	0	0	0	0
4	4	4	4	4	4	4
4	4	4	4	4	4	4
8	12	12	16	16	20	20
4	4	4	4	4	4	4
0	2	0	2	0	2	0
6	6	8	8	10	10	12
1	1	1	1	1	1	1
1	1	1	1	1	1	1
For requirement see table on the right						

1401145 Safety structure P2	**1401146** Safety structure P2	**1401147** Safety structure P2	**1401148** Safety structure P2	**1401149** Safety structure P2	**1401150** Safety structure P2	**1401151** Safety structure P2
7.20	8.20	9.20	10.20	11.20	12.20	13.20
6.43	7.43	8.43	9.43	10.43	11.43	12.43
5.20	6.20	7.20	8.20	9.20	10.20	11.20
309.1	319.6	370.9	381.4	432.7	443.2	494.5
0	0	0	0	0	0	0
L0 R6	L0 R8	L0 R8	L0 R10	L0 R12	L0 R14	L0 R14
0	0	0	0	0	0	0
0	0	0	X	X	X	X
L0 R16	L0 R20	X	X	X	X	X
0	0	0	X	X	X	X







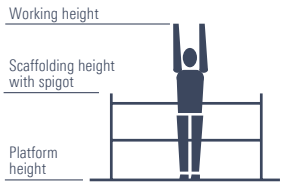
1401128 Safety structure P2	**1401129** Safety structure P2	**1401130** Safety structure P2	**1401131** Safety structure P2
10.20	11.20	12.20	13.20
9.43	10.43	11.43	12.43
8.20	9.20	10.20	11.20
355.8	407.1	417.6	468.9
0	0	0	0
L0 R16	L0 R18	L0 R20	L0 R22
0	0	0	0
X	X	X	X
X	X	X	X
X	X	X	X

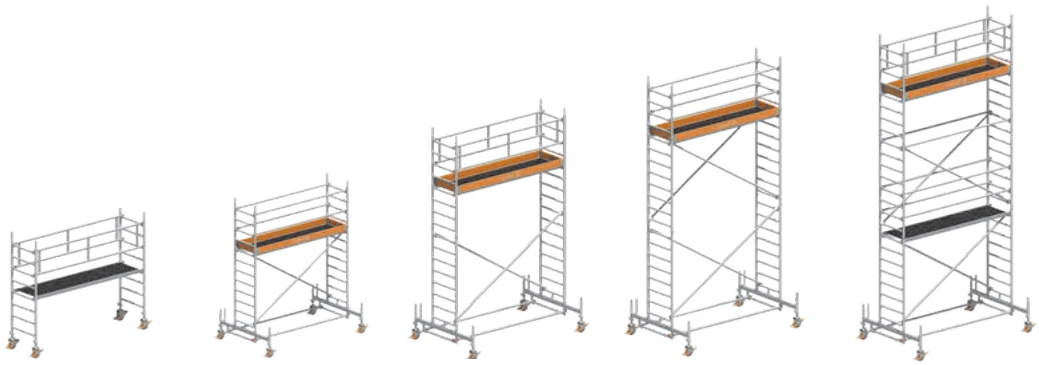
Uni Standard

Part list

The Layher modular system permits problem-free expansion of your rolling tower (for pictures see page 112 onwards).

Tower model	Ref. No.	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111
Guardrail 2.85 m	1205.285	0	5	1	5	7	9	9	11	13	15	15
Double guardrail 2.85 m	1206.285	2	0	2	0	2	0	2	0	2	0	2
Diagonal brace 3.35 m	1208.285	0	2	2	4	4	6	6	8	8	10	10
End toe board 0.75 m	1438.075	0	2	2	2	2	2	2	2	2	2	2
Toe board 2.85 m with claw	1439.285	0	2	2	2	2	2	2	2	2	2	2
Access deck 2.85 m	1242.285	1	1	1	1	2	2	2	2	3	3	3
Spring clip 11 mm	1250.000	0	8	8	12	12	16	16	20	20	24	24
Castor 700 – 7 kN	1359.200	4	4	4	4	4	4	4	4	4	4	4
Ladder frame 75 / 4 –1.00 m	1297.004	0	2	0	2	0	2	0	2	0	2	0
Ladder frame 75 / 8 –2.00 m	1297.008	2	2	4	4	6	6	8	8	10	10	12
Mobile beam with bar	1323.180	0	2	2	2	2	2	0	0	0	0	0
Mobile beam with bar adj.	1323.320	0	0	0	0	0	0	2	2	2	2	2
Base strut 2.85 m	1324.285	0	1	1	1	1	1	1	1	1	1	1
Ballast	1249.000	For requirement see table below										





The Uni Standard family

Tower model	1101	1102	1103	1104	1105
Working height [m]	3.20	4.35	5.35	6.35	7.35
Tower height [m]	2.43	3.58	4.58	5.58	6.58
Platform height [m]	1.20	2.35	3.35	4.35	5.35
Weight [kg] (without ballast)	81.9	161.0	170.4	186.8	239.4
Ballast (stated in units)					
In closed areas					
Assembly central*	I2 r2	0	0	0	0
Assembly off-set	X	0	I0 r2	I0 r4	I0 r5
Assembly off-set with wall bracing	X	0	0	0	0
Assembly central with 1 bracket*	X	0	L0 R8	L0 R4	L0 R4
Assembly central with 2 brackets*	X	0	0	0	0
Outdoors					
Assembly central*	I2 r2	0	I0 r1	I4 r4	I9 r9
Assembly off-set	X	0	I0 r5	I0 r9	I2 r14
Assembly off-set with wall bracing	X	0	0	0	I2 r0
Assembly central with 1 bracket*	X	L0 R4	L0 R8	L2 R12	L6 R16
Assembly central with 2 brackets*	X	X	X	X	X

The products shown (pages 88 and 89) are only standard-compliant by purchasing the retrofit set (page 89) according to DIN EN 1004:2021.

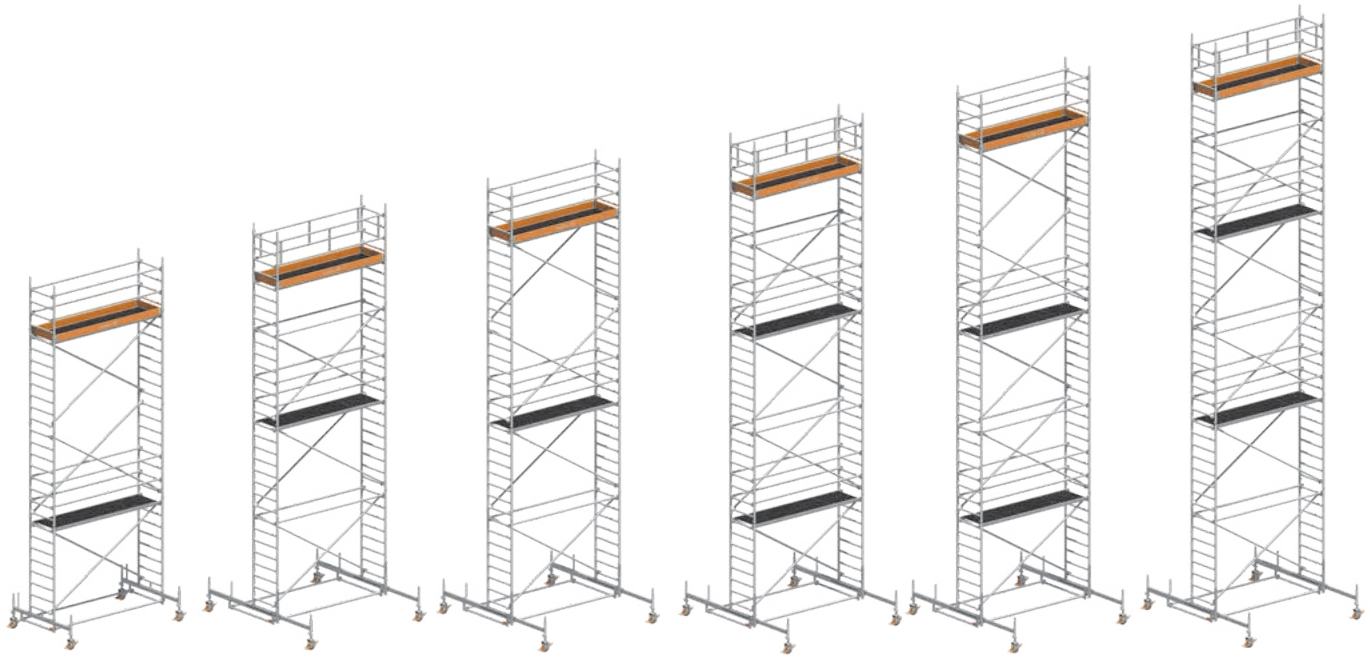
* Assembly with adjustable mobile beam, which must be fully extended. X = not possible / not permissible 0 = no ballast required
For ballasting, use Layher ballast weights, Ref. No. 1249.000, 10 kg each. These weights are attached quickly and securely at the right places using the star handle coupler.
All height dimensions are calculated without any spindle travel. The maximum spindle travel of each assemby variant is listed in its assembly instruction guide!
Do not use any liquid or granular ballast materials. The ballast weight must be distributed evenly to all ballasting fixing points (see instructions for assembly and use).

Example: I2, r2 → 2 ballast weights of 10 kg each must be fastened to the left-hand side of the ladder frame, and 2 ballast weights of 10 kg each to its right-hand side
L6, R16 → 6 ballast weights of 10 kg each must be fastened to the left-hand side of the mobile beam, and 16 ballast weights of 10 kg each to its right-hand side.
r and R always relate, in the case of off-centre assembly, to that side facing away from the scaffolding; I and L relate to the side facing the scaffolding (see instructions for assembly and use).

Retrofitting table Simply safe with the P2 retrofit kits: The rollings can be easily retrofitted to the safety structure P2, to conform to the current standards.

Retrofit set	Ref. No.	1400038	1400001	1400002	1400003	1400004	1400005	1400006	1400007	1400008	1400009	1400010
for tower model		**1101***	**1102***	**1103***	**1104***	**1105***	**1106***	**1107***	**1108***	**1109***	**1110***	**1111***
Guardrail 2.85 m	1205.285	0	0	4	3	2	3	4	5	4	5	6
Diagonal brace 2.95 m	1208.295	0	0	2	0	2	0	2	0	2	0	2
Deck 2.85 m	1241.285	0	1	0	1	0	1	0	1	0	1	0
Access deck 2.85 m	1242.285	0	0	1	1	1	1	2	2	2	2	3
Uni assembly hook	1300.001	0	1	1	1	1	1	1	1	1	1	1
End toe board 0.75 m	1438.075	2	0	0	0	0	0	0	0	0	0	0
Toe board 2.85 m with claw	1439.285	2	0	0	0	0	0	0	0	0	0	0

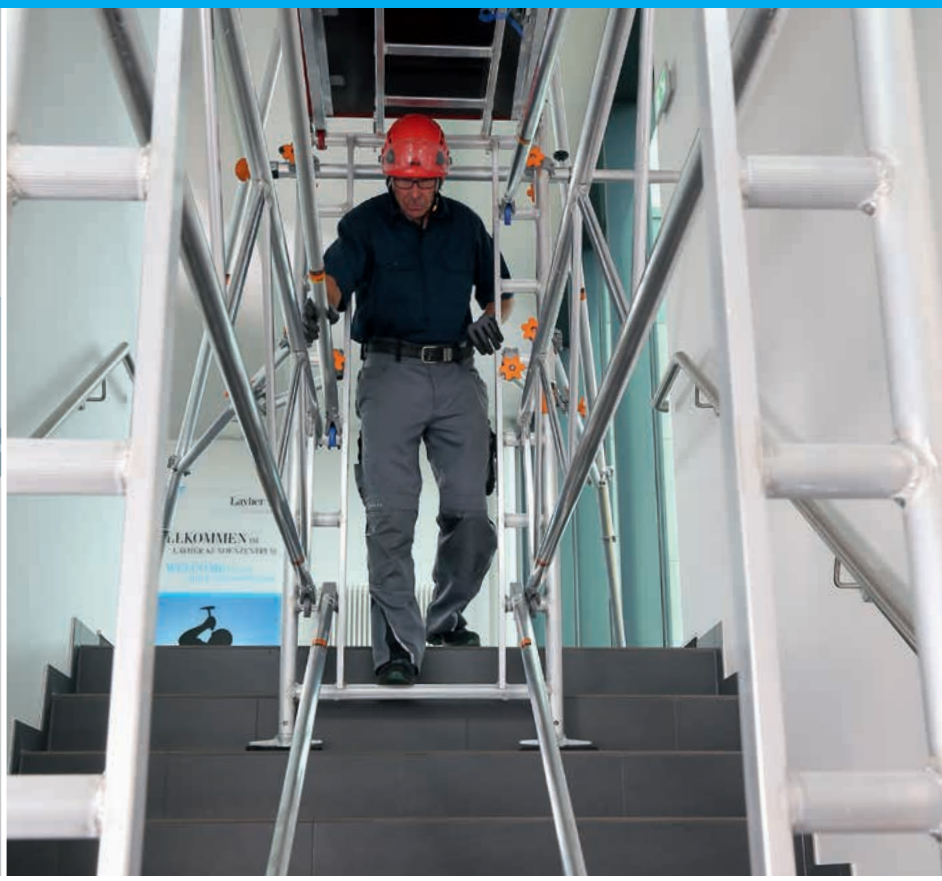
* If there there are already mobile beams 1.80 m (1214.180) and / or double rear guardrails (1206.180) in your inventory, there's no need to replace them. They can still be used.



1106	1107	1108	1109	1110	1111
8.35	9.38	10.38	11.38	12.38	13.38
7.58	8.61	9.61	10.61	11.61	12.61
6.35	7.38	8.38	9.38	10.38	11.38
248.6	323.6	332.8	385.4	394.6	418.4
I2 r2	0	0	0	0	0
I0 r8	L0 R6	L0 R8	L0 R9	L0 R10	L0 R12
0	0	0	0	0	0
L0 R8	0	0	0	0	0
I2 r2	0	0	0	X	X
I12 r13	L1 R1	X	X	X	X
I6 r18	L0 R17	X	X	X	X
I6 r0	L1 R0	X	X	X	X
L10 R20	0	0	0	X	X
X	X	X	X	X	X

UNI STANDARD STAIR KIT SOLUTION

FOR MORE SAFETY AND FLEXIBILITY



The stair kit for Uni Standard permits safer and more flexible use of rolling tower parts in stairwells: it does not require any modification work, since the stair remains accessible despite the scaffolding.

By expanding standard scaffolding models with a few individual components, the stair kit offers in combination with Uni Standard an economically smarter, swifter and safer solution for working at heights – also as an alternative to rung ladders, which are now only usable to a limited extent due to current occupational safety regulations. After mounting the base on the stair steps, assembling of the required scaffolding levels can be performed with the already proven Safety Assembly P2.

THE BENEFITS FOR YOU

- Use of rolling tower parts in stairwells up to platform height of 6 m.
- Passageways to suit the site – complete blocking off of the stair not needed
- Adaptation to stair steps – riser and tread – is possible
- Passageway also as entrance for upward access
- Thanks to the modular principle, many assembly variants are possible

Item description	Ref. No.	Uni Standard Stair Kit Expansion TYPE 1	Uni Standard Stair Kit Expansion TYPE 2
		1601191	1601192
Suspended ladder	1247.006	0	1
Aluminium walk-through ladder frame	1296.008	1	2
Aluminium ladder frame	1297.002	1	1
Beam	1207.285	2	2
Rubber underlay for base plate	4000.500	4	4
Diagonal brace	1208.295	2	2
Adjustable base plate	1257.060	4	4
Tele distance tube	1275.001	2	2
Double coupler	4700.019	4	4
Hand wheel with bush	6491.422	8	8

OPTIONAL

Item description	Ref. No.	Stabilizers kit
		1600090
Rotation preventer	1248.261	4
Alu stabilizer, extendable	1248.260	4

UNI WIDE

THE UNIVERSAL TOWER WITH DOUBLE-WIDTH WORKING SURFACE

The universal tower with double-width working surface provides a comfortable workplace at great heights.

Ideal for working with bulky materials while assuring the necessary freedom of movement.

Ladder frames (1.50 m wide) of aluminium for push-fit assembly; rear guard-rails and diagonal braces of aluminium snap in easily.

Work decks with aluminium frame and plywood insert, as a hatch-type deck for risk-free internal access.

Sturdy castors with concentric load transmission after locking for particular stability, long steel spindles for levelling.

Base widening: With mobile beam made of steel, telescopic for work on ceilings and walls if required; only necessary for working height of 8.60 m and above, alternatively with stabilizers (see page 96 in this respect and also instructions for assembly and use).

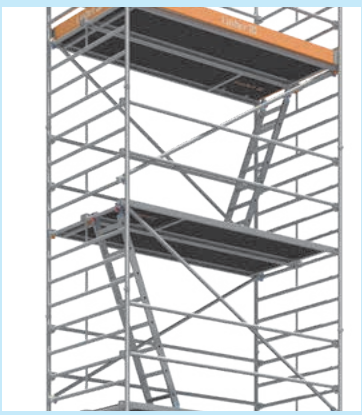
TECHNICAL DATA

- Working height: 13.38 m
- Area of working platform: 1.50 x 2.85 m
- Permissible live load: 2 kN / m² (load class 3)

Convenient access

For even more safety and even more convenient access, the Uni Wide P2 can also be supplied with suspended ladders with wide steps.

For requirement see page 94.




DEMAG
Layher

Uni Wide

Part list

The Layher modular system permits problem-free expansion of your rolling tower (for pictures see page 112 onwards).

Tower model	Ref. No.	1402101	1402102	1402103	1402104	1402105	1402106	1402107	1402108	1402109	1402110	1402111
Guardrail 2.85 m	1205.285	0	6	10	10	14	12	17	16	21	20	25
Double guardrail 2.85 m	1206.285	2	0	0	0	0	0	0	0	0	0	0
Diagonal brace 3.35 m	1208.285	0	2	2	4	4	6	6	8	8	10	10
Diagonal brace 2.95 m	1208.295	0	0	2	0	2	0	2	0	2	0	2
Basic tube 2.85 m	1211.285	0	0	0	0	0	1	1	1	1	1	1
End toe board 1.44 m	1438.144	2	2	2	2	2	2	2	2	2	2	2
Toe board 2.85 m with claw	1439.285	2	2	2	2	2	2	2	2	2	2	2
Deck 2.85 m	1241.285	1	2	2	3	3	4	4	5	5	6	6
Access deck 2.85 m	1242.285	1	1	2	2	3	3	4	4	5	5	6
Spring clip 11 mm	1250.000	0	4	4	8	8	16	16	20	20	24	24
Castor 700 – 7 kN	1359.200	4	4	4	4	4	4	4	4	4	4	4
Ladder frame 150 / 4 – 1.00 m	1299.004	0	2	0	2	0	2	0	2	0	2	0
Ladder frame 150 / 8 – 2.00 m	1299.008	2	2	4	4	6	6	8	8	10	10	12
Mobile beam with bar adj.	1323.320	0	0	0	0	0	2	2	2	2	2	2
Access ledger 0.75 m	1344.003	0	2	1	2	1	0	0	0	0	0	0
Uni assembly hook	1300.010	0	1	1	1	1	1	1	1	1	1	1
Ballast	1249.000	For requirement see table below										

Extra requirement for suspended step ladders – usable for safety structure P2

Tower model	Ref. No.	1402101	1402102	1402103	1402104	1402105	1402106	1402107	1402108	1402109	1402110	1402111
Suspended step ladder, 8 rungs	1314.108	0	1	1	2	2	3	3	4	4	5	5
Ladder support set for 1314.108	1314.109	0	1	0	0	0	1	0	1	0	1	0

The Uni Wide family

Tower model	1402101	1402102 Safety structure P2	1402103 Safety structure P2	1402104 Safety structure P2	1402105 Safety structure P2
Working height [m]	3.20	4.20	5.20	6.20	7.20
Tower height [m]	2.43	3.43	4.43	5.43	6.43
Platform height [m]	1.20	2.20	3.20	4.20	5.20
Weight [kg] (without ballast)	128.8	184.6	237.8	276.2	329.4
Ballast (stated in units)					
In closed areas					
Assembly central*	0	0	0	l1 r1	l1 r1
Assembly off-set	X	X	X	X	X
Assembly off-set with wall bracing	X	X	X	X	X
Assembly central with 1 bracket*	X	l0 r10	l0 r10	l0 r12	l0 r12
Assembly central with 2 brackets*	X	l3 r3	l2 r2	l5 r5	l4 r4
Outdoors					
Assembly central*	0	l3 r3	l6 r6	l11 r11	l16 r16
Assembly off-set	X	X	X	X	X
Assembly off-set with wall bracing	X	X	X	X	X
Assembly central with 1 bracket*	X	l0 r18	l0 r22	l6 r28	X
Assembly central with 2 brackets*	X	l14 r14	l16 r16	X	X

* Assembly with adjustable mobile beam, which must be fully extended. X = not possible / not permissible 0 = no ballast required
For ballasting, use Layher ballast weights, Ref. No. 1249.000, 10 kg each. These weights are attached quickly and securely at the right places using the star handle coupler.
All height dimensions are calculated without any spindle travel. The maximum spindle travel of each assemby variant is listed in its assembly instruction guide!
Do not use any liquid or granular ballast materials. The ballast weight must be distributed evenly to all ballasting fixing points (see instructions for assembly and use).

Example: l2, r2 → 2 ballast weights of 10 kg each must be fastened to the left-hand side of the ladder frame, and 2 ballast weights of 10 kg each to its right-hand side
L6, R16 → 6 ballast weights of 10 kg each must be fastened to the left-hand side of the mobile beam, and 16 ballast weights of 10 kg each to its right-hand side.
r and R always relate, in the case of off-centre assembly, to that side facing away from the scaffolding; l and L relate to the side facing the scaffolding (see instructions for assembly and use).

SAFETY ASSEMBLY

- Conforms to standard **DIN EN 1004:2021**
- Platform in vertical spacing of 2 m
- Collective side protection
- Quick and easy assembly

RETROFITTABLE USING THE LAYHER MODULAR SYSTEM

If you already possess a Layher Rolling Tower, then you can convert it into the P2 variant without difficulty.

1402106 Safety structure P2	**1402107** Safety structure P2	**1402108** Safety structure P2	**1402109** Safety structure P2	**1402110** Safety structure P2	**1402111** Safety structure P2
8.38	9.38	10.38	11.38	12.38	13.38
7.61	8.61	9.61	10.61	11.61	12.61
6.38	7.38	8.38	9.38	10.38	11.38
454.1	511.7	543.2	603.3	634.8	694.9
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	X
0	0	X	X	X	X
0	0	X	X	X	X
L0 R8	L0 R12	X	X	X	X
0	0	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X

All dimensions and weights are guideline values. Subject to technical modification. Our deliveries shall be made exclusively in accordance with our currently valid General Terms of Sale. Title to the delivered goods shall be retained until full payment has been made. When purchasing, you receive instructions for assembly and use that must be followed without fail or assembly, dismantling and use.

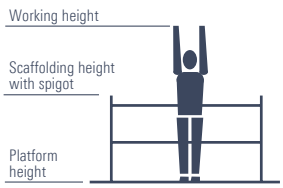
Uni Wide with stabilizers

Part list

The Layher modular system permits problem-free expansion of your rolling tower (for pictures see page 112 onwards).

		Uni Wide P2 with stabilizers, extendable					
Tower model	**Ref. No.**	**1402126**	**1402127**	**1402128**	**1402129**	**1402130**	**1402131**
Guardrail 2.85 m	1205.285	14	18	18	22	22	26
Diagonal brace 3.35 m	1208.285	6	6	8	8	10	10
Diagonal brace 2.95 m	1208.295	0	2	0	2	0	2
End toe board 1.44 m	1438.144	2	2	2	2	2	2
Toe board 2.85 m with claw	1439.285	2	2	2	2	2	2
Deck 2.85 m	1241.285	3	4	4	5	5	6
Access deck 2.85 m	1242.285	3	4	4	5	5	6
Stabilizer, extendable	1248.260	4	4	4	4	4	4
Rotation preventer	1248.261	4	4	4	4	4	4
Stabilizer, 5 m	1248.500	0	0	0	0	0	0
Spring clip 11 mm	1250.000	12	12	16	16	20	20
Castor 700 – 7 kN	1359.200	4	4	4	4	4	4
Ladder frame 150 / 4 – 1.00 m	1299.004	2	0	2	0	2	0
Ladder frame 150 / 8 – 2.00 m	1299.008	6	8	8	10	10	12
Access ledger 0.75 m	1344.003	1	1	1	1	1	1
Uni assembly hook	1300.010	1	1	1	1	1	1
Ballast	1249.000	For requirement see table below					

Conforms to standard **DIN EN 1004:2021**



The Uni Wide family with stabilizers, extendable

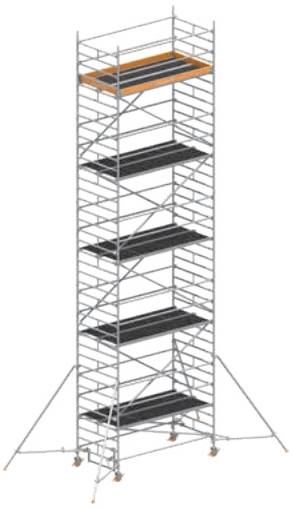
Tower model	**1402126** Safety structure P2	**1402127** Safety structure P2	**1402128** Safety structure P2
Working height [m]	8.20	9.20	10.20
Tower height [m]	7.43	8.43	9.43
Standing height [m]	6.20	7.20	8.20
Weight [kg] (without ballast)	392.2	468.7	483.8
Ballast (stated in units)			
In closed areas			
Assembly central	0	0	0
Assembly off-set	L0 R2	L0 R2	L0 R2
Assembly off-set with wall bracing	0	0	0
Outdoors			
Assembly central	0	0	X
Assembly off-set	L0 R14	L0 R18	X
Assembly off-set with wall bracing	0	0	X

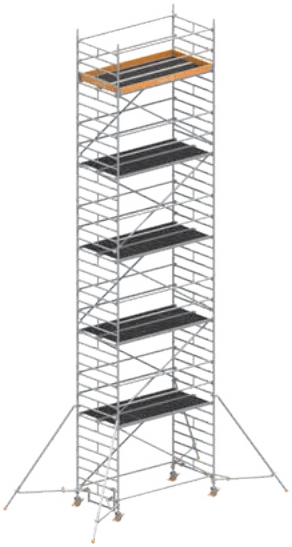
* Assembly with adjustable mobile beam, which must be fully extended. X = not possible / not permissible 0 = no ballast required
For ballasting, use Layher ballast weights, Ref. No. 1249.000, 10 kg each. These weights are attached quickly and securely at the right places using the star handle coupler.
All height dimensions are calculated without any spindle travel. The maximum spindle travel of each assemby variant is listed in its assembly instruction guide!
Do not use any liquid or granular ballast materials. The ballast weight must be distributed evenly to all ballasting fixing points (see instructions for assembly and use).

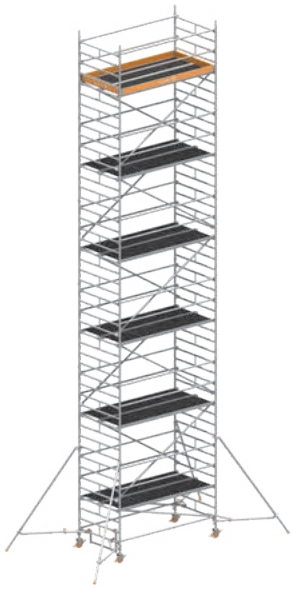
Example: l2, r2 → 2 ballast weights of 10 kg each must be fastened to the left-hand side of the ladder frame, and 2 ballast weights of 10 kg each to its right-hand side
L6, R16 → 6 ballast weights of 10 kg each must be fastened to the left-hand side of the mobile beam, and 16 ballast weights of 10 kg each to its right-hand side.
r and R always relate, in the case of off-centre assembly, to that side facing away from the scaffolding; l and L relate to the side facing the scaffolding (see instructions for assembly and use).

Uni Wide P2 with stabilizers, 5 m					
1402146	**1402147**	**1402148**	**1402149**	**1402150**	**1402151**
14	18	18	22	22	26
6	6	8	8	10	10
0	2	0	2	0	2
2	2	2	2	2	2
2	2	2	2	2	2
3	4	4	5	5	6
3	4	4	5	5	6
0	0	0	0	0	0
4	4	4	4	4	4
4	4	4	4	4	4
12	12	16	16	20	20
4	4	4	4	4	4
2	0	2	0	2	0
6	8	8	10	10	12
1	1	1	1	1	1
1	1	1	1	1	1
For requirement see table on the right					

1402146 Safety structure P2	**1402147** Safety structure P2	**1402148** Safety structure P2	**1402149** Safety structure P2	**1402150** Safety structure P2	**1402151** Safety structure P2
8.20	9.20	10.20	11.20	12.20	13.20
7.43	8.43	9.43	10.43	11.43	12.43
6.20	7.20	8.20	9.20	10.20	11.20
417.8	494.3	509.4	585.9	601.0	677.5
0	0	0	0	0	0
0	0	L0 R2	L0 R2	L0 R2	L0 R2
0	0	0	0	0	0
0	0	X	X	X	X
L0 R10	L0 R12	X	X	X	X
0	0	X	X	X	X







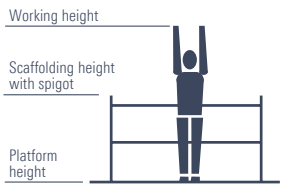
1402129 Safety structure P2	**1402130** Safety structure P2	**1402131** Safety structure P2
11.20	12.20	13.20
10.43	11.43	12.43
9.20	10.20	11.20
560.3	575.4	651.9
0	0	0
L0 R2	L0 R4	L0 R4
0	0	0
X	X	X
X	X	X
X	X	X

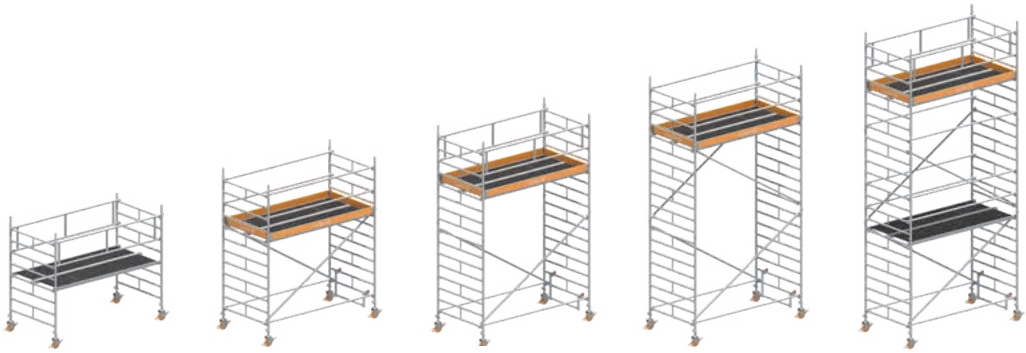
Uni Wide

Part list

The Layher modular system permits problem-free expansion of your rolling tower (for pictures see page 112 onwards).

Tower model	Ref. No.	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111
Guardrail 2.85 m	1205.285	0	6	2	6	8	9	9	11	13	15	15
Double guardrail 2.85 m	1206.285	2	0	2	0	2	0	2	0	2	0	2
Diagonal brace 3.35 m	1208.285	0	2	2	4	4	6	6	8	8	10	10
End toe board 1.44 m	1438.144	0	2	2	2	2	2	2	2	2	2	2
Toe board 2.85 m with claw	1439.285	0	2	2	2	2	2	2	2	2	2	2
Deck 2.85 m	1241.285	1	1	1	1	2	2	2	2	3	3	3
Access deck 2.85 m	1242.285	1	1	1	1	2	2	2	2	3	3	3
Spring clip 11 mm	1250.000	0	4	4	8	8	16	16	20	20	24	24
Castor 700 – 7 kN	1359.200	4	4	4	4	4	4	4	4	4	4	4
Ladder frame 150 / 4 – 1.00 m	1299.004	0	2	0	2	0	2	0	2	0	2	0
Ladder frame 150 / 8 – 2.00 m	1299.008	2	2	4	4	6	6	8	8	10	10	12
Mobile beam with bar adj.	1323.320	0	0	0	0	0	2	2	2	2	2	2
Base strut 2.85 m	1324.285	0	0	0	0	0	1	1	1	1	1	1
Access ledger 0.75 m	1344.003	0	1	1	1	1	0	0	0	0	0	0
Ballast	1249.000	For requirement see table below										





The Uni Wide family

Tower model	2101	2102	2103	2104	2105
Working height [m]	3.20	4.20	5.20	6.20	7.20
Tower height [m]	2.43	3.43	4.43	5.43	6.43
Standing height [m]	1.20	2.20	3.20	4.20	5.20
Weight [kg] (without ballast)	111.7	162.6	177.2	198.2	276.0
Ballast (stated in units)					
In closed areas					
Assembly central*	0	0	I2 r2	I4 r4	I4 r4
Assembly off-set	X	X	X	X	X
Assembly off-set with wall bracing	X				
Assembly central with 1 bracket*	X	I0 r8	I0 r12	I0 r14	I0 r14
Assembly central with 2 brackets*	X	I3 r3	I16 r16	I8 r8	I7 r7
Outdoors					
Assembly central*	0	I3 r3	I6 r6	I11 r11	I16 r16
Assembly off-set	X	X	X	X	X
Assembly off-set with wall bracing	X	X	X	X	X
Assembly central with 1 bracket*	X	I0 r18	I22 r22	I6 r26	I12 r30
Assembly central with 2 brackets*	X	I10 r10	X	X	X

The products shown (pages 98 and 99) are only standard-compliant by purchasing the retrofit set (page 99) according to DIN EN 1004:2021.

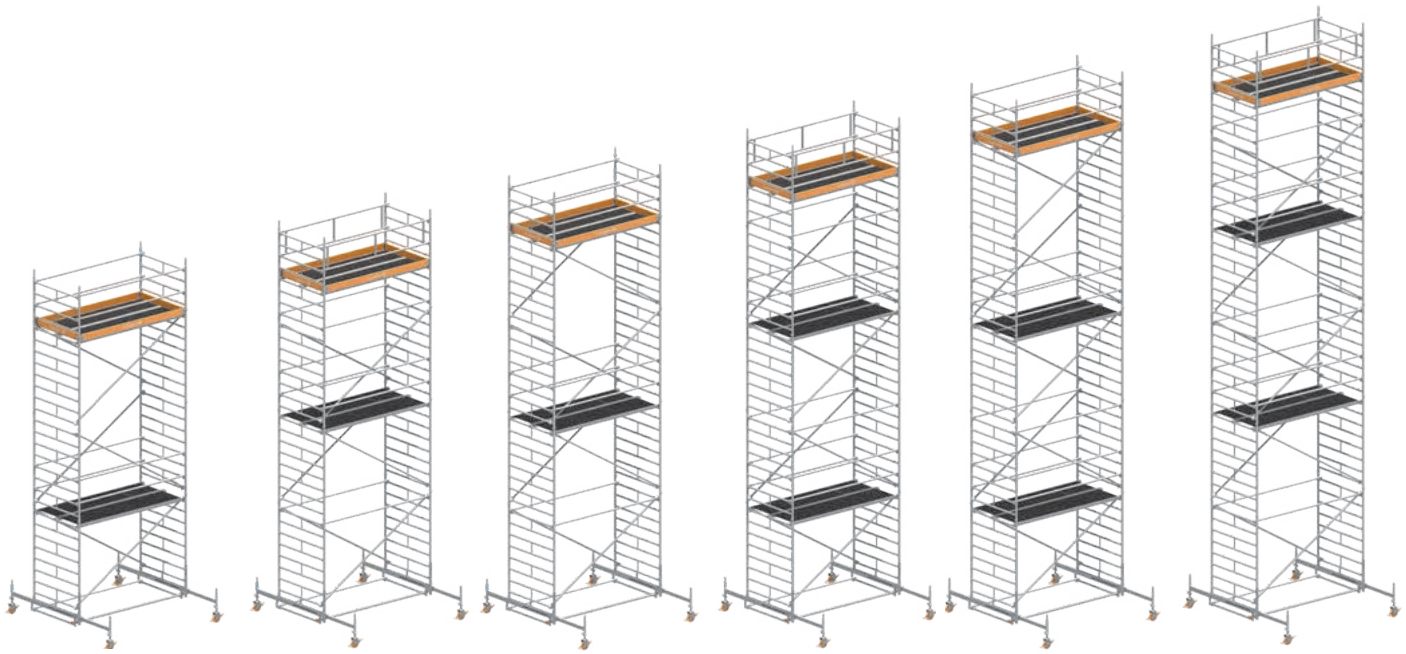
* Assembly with adjustable mobile beam, which must be fully extended. X = not possible / not permissible 0 = no ballast required
For ballasting, use Layher ballast weights, Ref. No. 1249.000, 10 kg each. These weights are attached quickly and securely at the right places using the star handle coupler.
All height dimensions are calculated without any spindle travel. The maximum spindle travel of each assemby variant is listed in its assembly instruction guide!
Do not use any liquid or granular ballast materials. The ballast weight must be distributed evenly to all ballasting fixing points (see instructions for assembly and use).

Example: I2, r2 → 2 ballast weights of 10 kg each must be fastened to the left-hand side of the ladder frame, and 2 ballast weights of 10 kg each to its right-hand side
L6, R16 → 6 ballast weights of 10 kg each must be fastened to the left-hand side of the mobile beam, and 16 ballast weights of 10 kg each to its right-hand side.
r and R always relate, in the case of off-centre assembly, to that side facing away from the scaffolding; l and L relate to the side facing the scaffolding (see instructions for assembly and use).

Retrofitting table Simply safe with the P2 retrofit kits: The rollings can be easily retrofitted to the safety structure P2, to conform to the current standards.

Retrofit set	Ref. No.	1400039	1400011	1400012	1400013	1400014	1400015	1400016	1400017	1400018	1400019	1400020
for tower model		**2101***	**2102**	**2103***	**2104**	**2105***	**2106***	**2107***	**2108***	**2109***	**2110***	**2111***
Guardrail 2.85 m	1205.285	0	0	4	4	2	3	4	5	4	5	6
Diagonal brace 2.95 m	1208.295	0	0	2	0	2	0	2	0	2	0	2
Deck 2.85 m	1241.285	0	1	1	2	1	2	2	3	2	3	3
Access deck 2.85 m	1242.285	0	0	1	1	1	1	2	2	2	2	3
Access ledger 0.75 m	1344.003	0	1	0	1	0	0	0	0	0	0	0
Uni assembly hook	1300.001	0	1	1	1	1	1	1	1	1	1	1
End toe board 1.44 m	1438.144	2	0	0	0	0	0	0	0	0	0	0
Toe board 2.85 m with claw	1439.285	2	0	0	0	0	0	0	0	0	0	0

* If there is already a base strut (1324.285) and / or double rear guardrails (1206.285) in your inventory, there's no need to replace them. They can still be used.



2106	2107	2108	2109	2110	2111
8.38	9.38	10.38	11.38	12.38	13.38
7.61	8.61	9.61	10.61	11.61	12.61
6.38	7.38	8.38	9.38	10.38	11.38
377.6	406.6	420.4	498.2	512.0	541.0
0	0	0	0	0	0
0	0	0	0	L0 R2	L0 R2
0	0	0	0	0	0
0	0	0	X	X	X
L1 R1	L5 R5	X	X	X	X
L0 R6	L4 R14	X	X	X	X
L2 R0	L8 R2	X	X	X	X
L0 R6	X	X	X	X	X
X	X	X	X	X	X

UNI COMFORT

THE UNIVERSAL TOWER WITH CONVENIENT STAIRWAY ACCESS

The Uni Comfort tower is the compact tower, ideally suited to assembly and maintenance work etc.

The convenient stairway access with full-length handrail facilitates frequent ascent and descent, easily overcomes great heights and leaves the hands free to carry tools and material.

Ladder frames (1.50 m wide) of aluminium for push-fit assembly; rear guardrails and diagonal braces of aluminium snap in easily.

Work decks with aluminium frame and plywood insert, as a hatch-type deck opening over the entire length for convenient internal access.

Sturdy castors with concentric load transmission after locking for particular stability, long steel spindles for levelling.

Outriggers for base widening can be attached without using tools; fitting them with castors permits safer movement of the tower without dismantling it.

TECHNCAL DATA

- Working height: 14.20 m
- Area of working platform: 1.50 x 1.80 m
- Permissible live load: 2 kN / m² (load class 3)


Layher
Layher

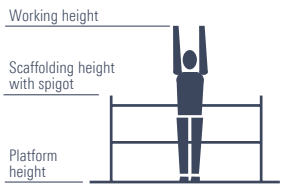
Uni Comfort

Part list

The Layher modular system permits problem-free expansion of your rolling tower (for pictures see page 112 onwards).

Tower model	Ref. No.	4201	4202	4203	4204	4205	4206
Guardrail 1.80 m	1205.180	5	8	11	14	17	20
Diagonal brace 2.50 m	1208.180	1	2	3	4	5	6
Horizontal diagonal brace 2.95 m	1209.285	0	0	2	2	2	2
Landing stairway 1.80 m	1212.180	1	2	3	4	5	6
Stairway guardrail 3.07 m	1213.180	0	1	2	3	4	5
Outrigger 1.50 m	1216.000	0	0	4	4	4	4
End toe board 1.44 m	1438.144	2	2	2	2	2	2
Toe board 1.80 m with claw	1439.180	2	2	2	2	2	2
Deck 1.80 m	1241.180	2	3	4	5	6	7
Stairway access deck 1.80 m	1243.180	1	1	1	1	1	1
Spring clip	1250.000	4	8	12	16	20	24
Castor 700 – 7 kN	1359.200	4	4	8	8	8	8
Ladder frame 150 / 4 – 1.00 m	1299.004	2	2	2	2	2	2
Ladder frame 150 / 8 – 2.00 m	1299.008	2	4	6	8	10	12
Horizontal diagonal brace, adj.	1318.000	0	0	2	2	2	2
Base strut 1.80 m	1324.180	1	1	1	1	1	1
Stairway guardrail 1.20 m	1327.120	1	1	1	1	1	1
Access ledger 0.75 m	1344.003	2	2	2	2	2	2
Ballast	1249.000	For requirement see table below					

Conforms to standard **DIN EN 1004:2021**

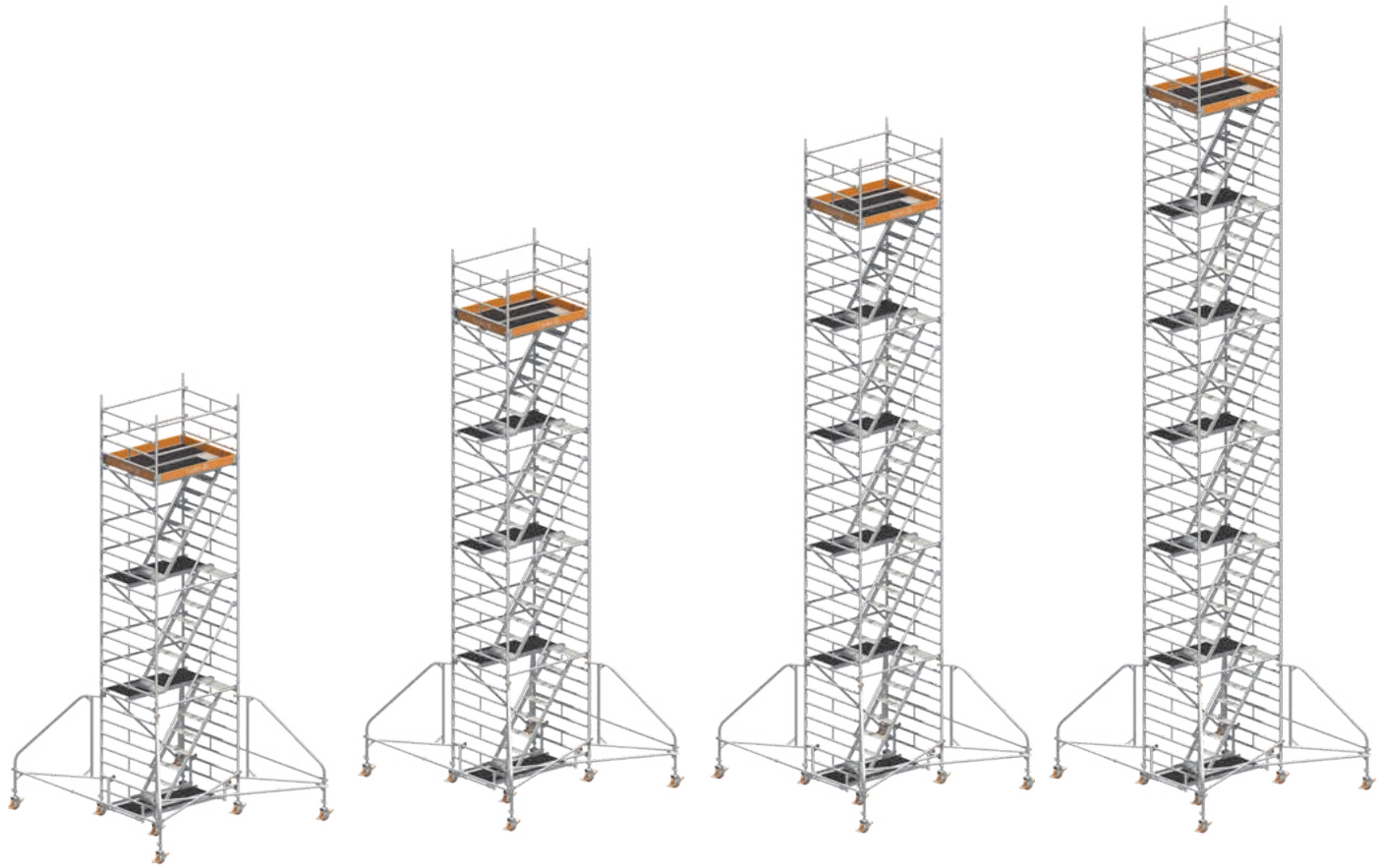


The Uni Comfort family

Tower model	4201	4202
Working height [m]	4.20	6.20
Tower height [m]	3.43	5.43
Standing height [m]	2.20	4.20
Weight [kg] (without ballast)	166.3	236.5
Ballast (stated in units)		
In closed areas		
Without outrigger	0	6
Outriggers on both sides	Δ	Δ
Outriggers on one side	Δ	Δ
Outriggers on one side with wall bracing	Δ	Δ
Outdoors		
Without outrigger	2	16
Outriggers on both sides	Δ	Δ
Outriggers on one side	Δ	Δ
Outriggers on one side with wall bracing	Δ	Δ

X = not possible / not permissible 0 = no ballast required Δ = Erection with additional parts, only possible after consulting the manufacturer.
For ballasting, use Layher ballast weights, Ref. No. 1249.000, 10 kg each. These weights are attached quickly and securely at the right places using the star handle coupler.
All height dimensions are calculated without any spindle travel. The maximum spindle travel of each assemby variant is listed in its assembly instruction guide!
Do not use any liquid or granular ballast materials. The ballast weight must be distributed evenly to all ballasting fixing points (see instructions for assembly and use).

In central assembly, the ballast weights are distributed evenly over all four ladder frame standards. The remainder not divisible by 4 must be fitted in accordance with the instructions for assembly and use.
In off-set assembly on mobile beams, the ballast weights must be distributed evenly over the two ladder frame standards away from the wall.

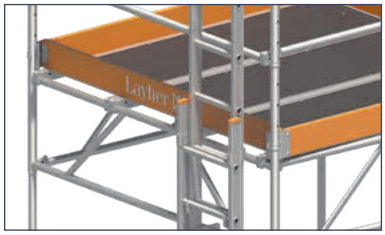


4203	4204	4205	4206
8.20	10.20	12.20	14.20
7.43	9.43	11.43	13.43
6.20	8.20	10.20	12.20
387.9	458.1	528.3	598.5
X	X	X	X
0	0	0	0
2	4	6	8
0	0	0	0
X	X	X	X
0	0	X	X
20	X	X	X
0	4	X	X

All dimensions and weights are guideline values. Subject to technical modification. Our deliveries shall be made exclusively in accordance with our currently valid General Terms of Sale. Title to the delivered goods shall be retained until full payment has been made. When purchasing, you receive instructions for assembly and use that must be followed without fail or assembly, dismantling and use.

STARO ROLLING TOWER

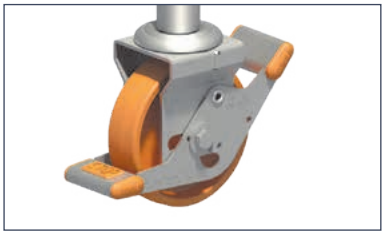
THE READY-MADE TOWER FOR FREEDOM OF MOVEMENT AND A LARGE WORKING AREA



The Staro rolling tower is the "ready-made" tower with a large work surface. It is indispensable for fast work on large ceiling surfaces or for assembling components or installation work underneath the ceiling. The large work surface offers ample freedom of movement and space for storing tools and materials ready to hand.

Basic assembly in aluminium; rear guardrails are easily snapped in.

Work decks with aluminium frame and plywood insert.

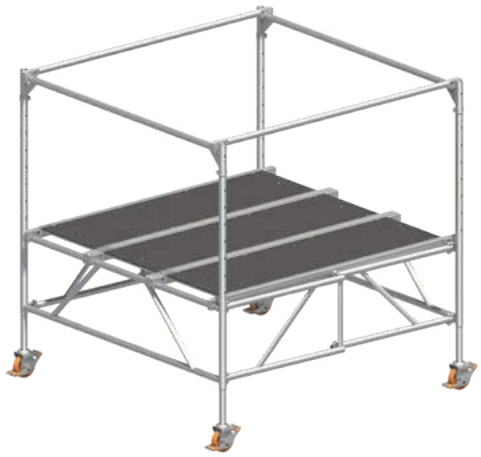


Sturdy castors (dia. 150 mm) with concentric load transmission after locking, for particular stability. Leg tube (1.95 m long) with holes 11 cm apart for height adjustment.

Conforms to standard **DIN EN 1004:2021**

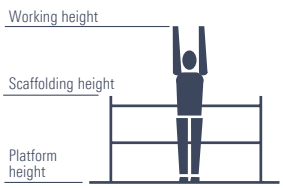
TECHNICAL DATA

- Working height: 3.90 m
- Area of working platform: 1.95 x 1.95 m
- Permissible live load: 1.5 kN / m² (load class 2)



Type 7000

Type 7001
Includes the additional equipment for use at platform height from 1 m.



Part list

Tower model	Ref. No.	7000	7001
Staro basic tower, incl. 4 clips	1224.000	1	1
Staro guardrail 1.90 m	1227.190	2	4
Staro deck 1.90 m	1241.190	3	3
Leg tube with castor	1301.150	4	4
Ladder for Staro rolling tower	1246.006	0	1
Intermediate guardrail 1.90 m	1224.190	0	2
End toe board 1.90 m	1438.190	0	2
Toe board 1.95 m	1439.195	0	2

Tower model	7000	7001
Working height [m]	2.80 – 3.90*	2.80 – 3.90
Tower heigth [m]	1.89 – 2.78*	1.89 – 2.78
Standing height [m]	0.80 – 1.90*	0.80 – 1.90
Weight [kg]	99.9	132.5

* from platform height of 1 m, the additional equipment is required.

The product shown, type 7000, is only in conformity with standards when using the additional equipment (intermediate guardrail 1.90 m = 2 x 1224.190, Staro guardrail = 2 x 1227.190), toe boards = 2 x 1438.190, 2 x 1439.195 and ladder for Staro rolling tower = 1246.006). The scaffolding may only be accessed via the ladder (1246.006).

PU = packaging unit = available ex works = delivery time on request = only available in this packaging unit

ALU BRIDGING BEAM

THE WORKING DECK UP TO 10 M LONG

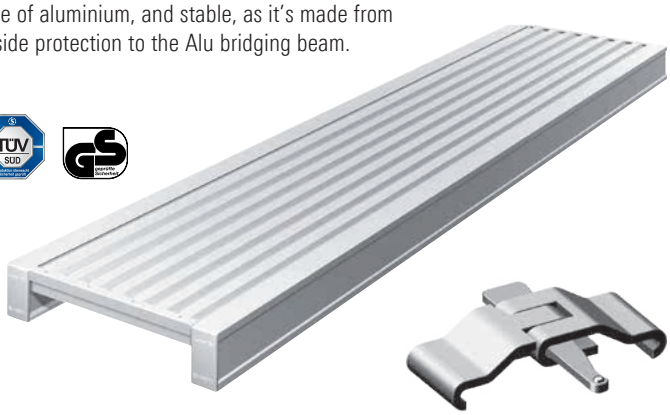
TECHNICAL DATA

- Conforms to DIN EN 12811-1
- Permissible load class 2 (1.5 kN / m² up to 10 m length)
- Permissible load class 3 (2 kN / m² up to 7.10 m length)

The Alu bridging beam 600 is a quick and handy component. Lightweight, as it's made of aluminium, and stable, as it's made from special sections. It is possible to attach, depending on the application, a three-piece side protection to the Alu bridging beam.

Alu bridging beam 600

Length [m]	Load [kN/m²]	Width [m]	Height [m]	Weight [kg]	Ref. No.
3.18	2.0	0.60	0.09	20.0	**1348.318**
4.12	2.0	0.60	0.09	26.0	**1348.412**
4.75	2.0	0.60	0.09	29.0	**1348.475**
5.20	2.0	0.60	0.12	38.0	**1348.520**
6.15	2.0	0.60	0.12	45.0	**1348.615**
7.10	2.0	0.60	0.12	52.0	**1348.710**
8.00	1.5	0.60	0.15	68.0	**1348.800**
9.10	1.5	0.60	0.15	76.0	**1348.910**
10.00	1.5	0.60	0.15	85.0	**1348.100**



1331.000 clamp
see page 121.

The Alu bridging beam 600, folding, can also be used in load class 2.
A folding device allows it to be folded up into handy transport dimensions.

Alu bridging beam 600, folding

Length folded-out [m]	Length folded together [m]	Load [kN/m²]	Beam width [m]	Outer width [m]	Height [m]	Height folded [m]	Weight [kg]	Ref. No.
5.10	2.60	1.5	0.60	0.75	0.21	0.39	47.0	**1349.510**
7.30	3.70	1.5	0.60	0.75	0.21	0.39	61.0	**1349.730**
9.15	4.60	1.5	0.60	0.75	0.24	0.45	86.0	**1349.915**

Only available ex works.

Side protection for Alu bridging beam 600

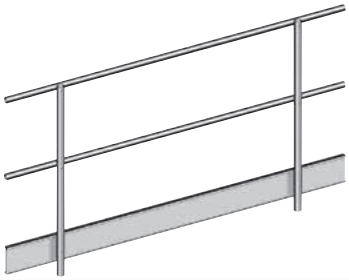
KIT-No.	Ref. No.	6201 3.18 m	6202 4.12 m	6203 4.75 m	6204 5.20 m	6205 6.15 m	6206 7.10 m	6207 8.00 m	6208 9.10 m	6209 10.00 m
Double guardrail 2.00 m	1332.200	0	2	1	1	0	2	1	0	2
Double guardrail 3.00 m	1332.300	1	0	1	1	2	1	2	3	2
Guardrail fixture	1330.000	2	4	4	4	4	6	6	6	8
Guardrail locking clip	1333.000	1	2	2	2	2	3	3	3	4

1330.000

Side protection for Alu bridging beam 600, folding

KIT-No.	Ref. No.	6210 5.10 m	6211 7.30 m	6212 9.15 m
Double guardrail 2.00 m	1332.200	2	0	4
Double guardrail 3.00 m	1332.300	0	2	0
Guardrail fixture	1330.000	4	4	8
Guardrail locking clip	1333.000	2	2	4

1333.000



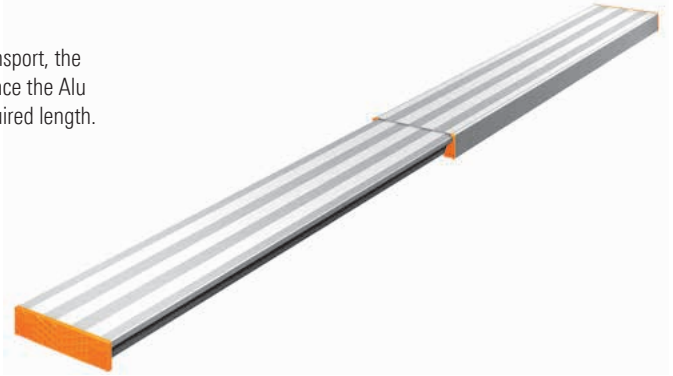
1332.200 / 1332.300

Alu telescopic stage 1351

The Alu telescopic stage offers a wide and variable range of possible applications. For transport, the telescopic stage can be simply pushed together, resulting in low transport dimensions. Since the Alu telescopic stage is extendable, it can be pulled out or pushed together to provide any required length.

Loading capacity: **150 kg**

Length [m]	Width [m]	Height [m]	Weight approx. [kg]	Ref. No.
1.64 – 2.90	0.31	0.08	13.0	**1351.290**
1.92 – 3.50	0.31	0.08	16.0	**1351.350**
2.27 – 4.00	0.31	0.08	18.0	**1351.400**
2.49 – 4.40	0.31	0.08	20.0	**1351.440**



PU = packaging unit = available ex works = delivery time on request = only available in this packaging unit

BRACKET DECK SURFACES

WORKING SERVICE WIDENING FOR UNI STANDARD AND UNI WIDE

Special designs are individualized tower structures that make work safer and faster at many construction sites.

The examples on this page show the widening of the top scaffolding level and the formation of several working levels using console brackets.

For these tower forms, we have acquired the GS safety inspection certificate that is sufficient for the use of the tower and eliminates the need for structural strength verification otherwise required.

TECHNICAL DATA

- Subsequent attachment to completed towers is possible
- Rapid and easy widening of the working surface of up to 1.50 m
- Permissible live load: 1.5 kN / m² (load class 2)

Extension-KITS for attachment of 1 or 2 bracket deck surfaces for Uni Standard and Uni Wide

KIT-No.	Ref. No.	9100 1 bracket deck surface	9200 2 bracket deck surfaces
End toe board 0.75 m	1438.075	2	4
Deck 2.85 m	1241.285	1	2
Spring clip	1250.000	4	8
Ladder frame 75 / 4 – 1.00 m	1297.004	2	4
Intermediate deck	1339.285	1	2
Alu console bracket 0.75 m	1341.075	2	4

The number of ballast weights required is stated in the appropriate instructions for assembly and use.

BG BAU-SUPPORTED PRODUCTS

LADDERS AND ROLLING TOWERS

Supported by BG BAU

YOUR PATHWAY TO BONUS SUPPORT:

- All Layher products shown here are supported by BG Bau.
- Members of BG Bau receive bonus support on the basis of the purchase costs
- Send the application with a copy of the invoice to BG Bau.
- You can find the application form, and other support schemes, at: **bg-foerderung.layher-steigtechnik.com.**
- BG Bau will reimburse you for some of the costs. Examples for reimbursement can be found with the products.

Layher extension step ladder, **50%, up to max. €300.–.**

Layher aluminium heavy-duty steps (3 and 4 steps), **50%, up to max. €300.–.**

Layher platform ladder (4, 5 and 6 steps), **50%, up to max. €500.–.**

SoloTower stair kit, **25%, up to max. €500.–.**

SoloTower 3T method, **25%, up to max. €500.–.**
SoloTower telescoping guardrail, **50%, up to max. €1500.–.**

Layher stair flight for rolling towers of the Uni rolling tower family, **50 %, up to max. €500.–.**

Aluminium stair 111, **50%, up to max. €750.–.**

Aluminium stair with platform 112, **50%, up to max. €750.–.**

Aluminium maintenance platform 113, **50%, up to max. €500.–.**

CASTORS FROM LAYHER

Ref. No.	Description	Castor type	Illustration	Wheel	Wheel diameter [mm]	Bearing type (wheel hub)
1359.200	Castor 700	Height adjustable castor		Polyamide wheel	200	Plain bearing (steel sleeve in plastic hub)
1358.200	Polyurethane Castor 700	Height-adjustable castor		Polyamide wheel with polyurethane tire	200	Plain bearing (steel sleeve in plastic hub)
1260.201	Castor 1000	Height-adjustable castor		Polyamide wheel	200	Plain bearing (steel sleeve in plastic hub)
1260.202	Castor 1000 with electro-conductive polyurethane coating	Height-adjustable castor		Polyamide wheel with polyurethane tire	200	Sealed ball bearing
1267.200	Castor 1200 with half-coupler	Height-adjustable castor		Polyamide wheel	200	Plain bearing (steel sleeve in plastic hub)
1301.150	Castor 400	Castor with tube connector		Polyamide wheel	150	Plain bearing (steel sleeve in plastic hub)
1303.150	Polyurethane Castor 400	Castor with tube connector		Polyamide wheel with polyurethane tire	150	Plain bearing (steel sleeve in plastic hub)
1300.150	Castor 400 with spindle 250	Height-adjustable castor		Polyamide wheel	150	Plain bearing (steel sleeve in plastic hub)

	Max. perm. load [kg] – braked	Max. dyn. load [kg] – unbraked – at 4 km/h and over a distance of 2500 m without obstacles	Temperature resistance	Application
	700	350	–40 °C to +90 °C	All firm ground! E.g.: Concrete / screed / cobbles / wooden boards / asphalt
	700	350	–20 °C to +50 °C	Firm ground with sensitive surface! E.g.: Tiles / natural stone / parquet / laminate **Careful with sprung floors such as floors of sports halls, the max. load of the floor applies here, otherwise provision of a load-distributing base (plywood boards) is essential!**
	1000	1000	–40 °C to +90 °C	All firm ground! E.g.: Concrete / screed / cobbles / wooden boards / asphalt
	1000	800	–25 °C to +70 °C, short-term to +90 °C	Firm ground with sensitive surface! E.g.: Tiles / natural stone / parquet / laminate **Useable in explosive or EiSD areas, thanks to the bleeder resistance < 10^4 Ω.** **Careful with sprung floors such as floors of sports halls, the max. load of the floor applies here, otherwise provision of a load-distributing base (plywood boards) is essential!**
	1200	960	–40 °C to +90 °C	All firm ground! E.g.: Concrete / screed / cobbles / wooden boards / asphalt
	400	200	–40 °C to +90 °C	All firm ground! E.g.: Concrete / screed / cobbles / wooden boards / asphalt
	400	200	–20 °C to +50 °C	Firm ground with sensitive surface! E.g.: Tiles / natural stone / parquet / laminate **Careful with sprung floors such as floors of sports halls, the max. load of the floor applies here, otherwise provision of a load-distributing base (plywood boards) is essential!**
	400	400	–20 °C to +50 °C	All firm ground! E.g.: Concrete / screed / cobbles / wooden boards / asphalt

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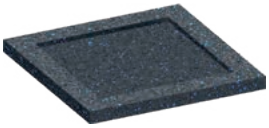

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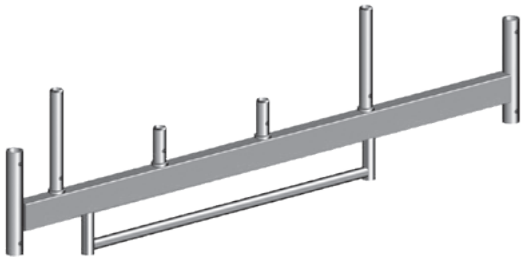

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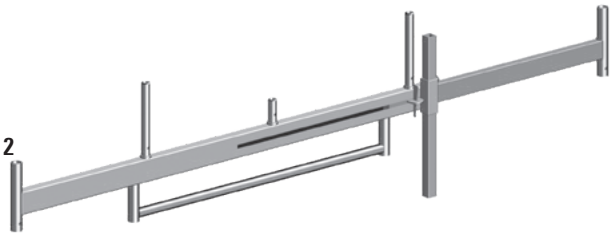

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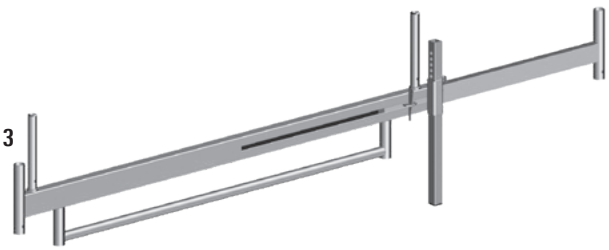

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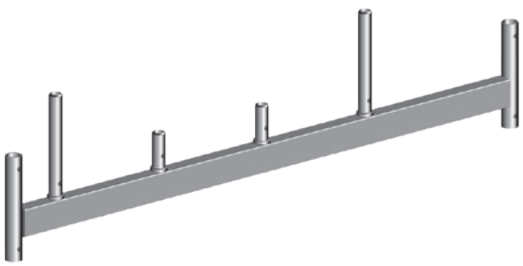

Pos.	Description	Dimensions [m]	Weight approx. [kg]	Ref. No.	SoloTower	Zifa	Uni Light	Uni Compact	Uni Standard	Uni Wide	Uni Comfort	Staro
1	**Castor 400, dia. 150 mm** Plastic wheel, with simple brake lever. Permissible load: 4 kN (≈ 400 kg)	dia. 0.15	2.5	**1301.150**		▸	▸					
2	**Castor 400, dia. 150 mm with polyurethane tyre** Plastic wheel with polyurethane tyre, special wheel for sensitive floor surfaces. Permissible load: 4 kN (≈ 400 kg)	dia. 0.15	2.7	**1303.150**		▸	▸					
3	**Castor, dia. 150 mm with spindle 250** Plastic wheel, with base jack, adjustment range 0.2 – 0.35 m, castor with double brake lever and load centering in the braked state. Permissible load: 7 kN (≈ 700 kg)	dia. 0.15	3.9	**1300.150**	▸	▸	▸	▸	▸	▸	▸	
4	**Castor 700** Plastic wheel, dia. 200 mm. With base jack, adjustment range 0.30 – 0.60 m, spindle nut with lock, castor with double brake lever and load centering in the braked state. Permissible load: 7.0 kN (≈ 700 kg)	dia. 0.20	6.8	**1359.200**		▸	▸	▸	▸	▸	▸	
5	**Castor 700, with polyurethane tyre** Plastic wheel, dia. 200 mm. With base jack, adjustment range 0.30 – 0.60 m, spindle nut with lock, castor with double brake lever and load centering in the braked state. Permissible load: 7.0 kN (≈ 700 kg)	dia. 0.20	7.0	**1358.200**		▸	▸	▸	▸	▸	▸	
6	**Castor 1000** Plastic wheel, dia. 200 mm of polyamide. With base jack, adjustment range 0.30 – 0.60 m, spindle nut with lock, castor with double brake lever and load centering in the braked state. Permissible load: 10 kN (≈ 1,000 kg)	dia. 0.20	6.3	**1260.201**		▸	▸	▸	▸	▸	▸	
7	**Castor 1000, with electroconductive polyurethane coating** Plastic wheel, dia. 200 mm of polyamide with coating of electroconductive polyurethane. With base jack, adjustment range 0.30 – 0.60 m, spindle nut with lock, castor with double brake lever and load centering in the braked state. Permissible load: 10 kN Special castor for sensitive floorings and thanks to electro-conductability also usable in explosive or ESD areas. Bleeder resistance according to DIN EN 12526 < 10^4 Ω	dia. 0.20	6.8	**1260.202**		▸	▸	▸	▸	▸	▸	
8	**Castor 1200, with half-coupler** reinforced plastic wheel, dia. 200 mm, with base jack, adjustment range 0.30 – 0.60 m, spindle nut with lock. Permissible load: 12 kN (≈ 1,200 kg)	dia. 0.20	12.0	**1267.200**		▸	▸	▸	▸	▸	▸	
9	**Adjustable base plate 60 with lock** steel, hot-dip galvanized, with nut, base plate 150 x 150 mm, max. spindle travel 0.40 m	0.60	3.8	**1257.060**		▸	▸	▸	▸	▸	▸	
10	**Rubber pad for base plate**		0.4	**4000.500**	▸		▸		▸			
11	**Mobile beam with bar** Steel rectangular tube, hot-dip-galvanized. For widening the base of towers	1.80	16.9	**1323.180**		▸	▸		▸			
12	**Mobile beam with bar, adjustable** Steel rectangular tube, hot-dip-galvanized. System component for base widening	2.30 – 3.20	42.5	**1323.320**				▸	▸	▸		
13	**Mobile beam with 2 spigots, adjustable** Steel rectangular tube, hot-dip-galvanized. For widening the base for special mobile assemblies. System assemblies only possible in conjunction with Ref. No. 1337.000 (see page 115)	2.30 – 3.20	42.6	**1338.320**		▸	▸	▸	▸	▸		
14	**Mobile beam** Steel rectangular tube, hot-dip-galvanized. For widening the base of towers	1.80	14.4	**1214.180**		▸	▸					

WS = wrench size **PU** = packaging unit = available ex works = delivery time on request = only available in this packaging unit ▸ = included in tower kit ▸ = optional accessory for tower model

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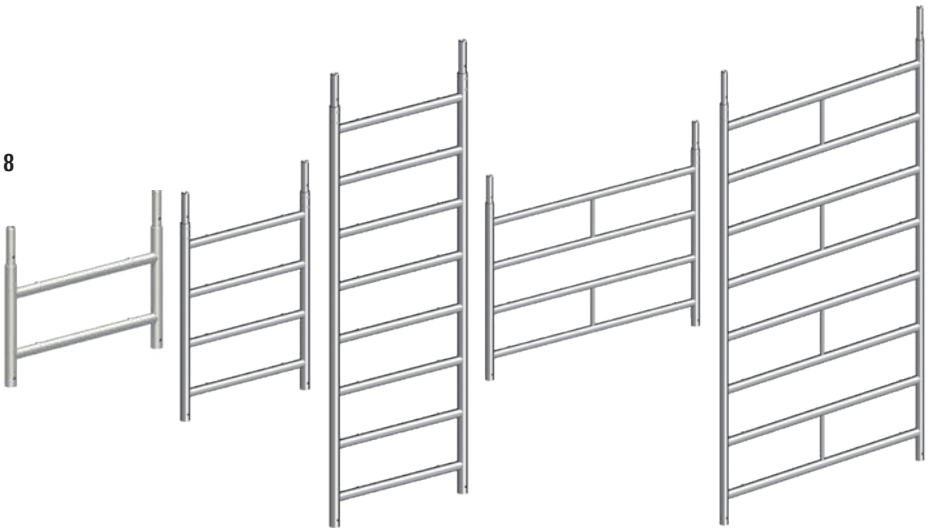

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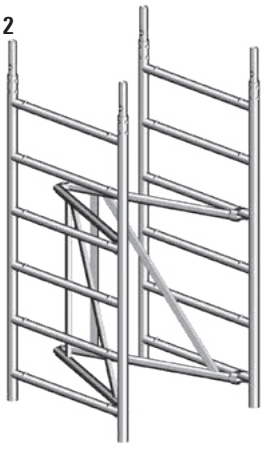

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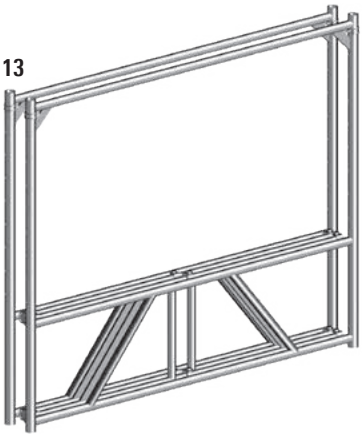

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Pos.	Description	Dimensions L / H x W [m]	Weight approx. [kg]	Ref. No.	SoloTower	Zifa	Uni Light	Uni Compact	Uni Standard	Uni Wide	Uni Comfort	Staro
1	**Basic tube** steel tube, hot-dip galvanized	1.80	7.7	**1211.180**		▸	▸	▸				
		2.85	12.2	**1211.285**					▸	▸		
2	**Base strut** with 2 half-couplers, steel tube, hot-dip galvanized	1.80	6.2	**1324.180**		▸	▸	▸				
		2.85	9.3	**1324.285**					▸	▸	▸	
3	**Telescopic spacer tube 1.25 m**	1.25 – 1.90	3.0	**1275.001**	▸		▸		▸			
4	**Access ledger** aluminium	0.30	2.9	**1344.002**		▸	▸		▸			
		0.75	3.3	**1344.003**				▸		▸		
5	**Ballast (10 kg)** steel, hot-dip galvanized with half-coupler. For ballasting of towers refer to the instructions for assembly and use of mobile work platforms		10.0	**1249.000**		▸	▸	▸	▸	▸	▸	
6	**Spigot, adjustable** steel, hot-dip galvanized. System assemblies only possible in conjunction with Ref. No. 1338.320 (see page 113)		2.1	**1337.000**		▸	▸	▸	▸	▸		
7	**Guardrail support**	1.00	1.3	**1297.100**		▸	▸	▸	▸	▸	▸	
8	**Ladder frame** aluminium. Rungs with non-slip grooving	0.50 x 0.75	2.7	**1297.002**	▸	▸	▸		▸			
		1.00 x 0.75	4.7	**1297.004**	▸	▸	▸		▸			
		2.00 x 0.75	8.6	**1297.008**		▸	▸		▸			
		1.00 x 1.50	7.0	**1299.004**				▸		▸	▸	
		2.00 x 1.50	13.5	**1299.008**				▸		▸	▸	
9	**Passageway ladder frame** aluminium, Rungs with non-slip grooving	2.00 x 0.75	10.1	**1296.008**	▸		▸		▸			
10	**Suspension ladder 75** aluminium. Rungs with non-slip grooving. Spigot bolted using 4 bolts M12 x 60 with nuts	1.00 x 0.75	6.3	**1298.004**		▸	▸		▸			
		2.00 x 0.75	10.3	**1298.008**		▸	▸		▸			
11	**Suspended ladder**	0.40 x 1.80	2.8	**1247.006**	▸		▸		▸			
12	**Zifa 75 basic tower** aluminium. Dimensions when folded together: 0.95 x 1.50 x 0.30 m	1.80 x 1.50 x 0.75	20.2	**1300.006**		▸						
13	**Staro basic tower** aluminium. Including 4 clips. Dimensions when folded together: 2.00 x 1.60 x 0.25 m	2.00 x 1.60 x 2.00	28.8	**1224.000**								▸
14	**Leg tube with castor 400** dia. 150 mm. With simple brake lever and load centering in the braked state. Wheel and slewing ring can be locked. Steel, plastic wheel	1.95	6.6	**1312.150**								▸

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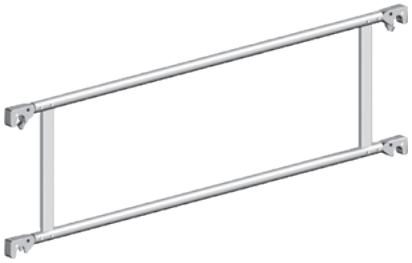

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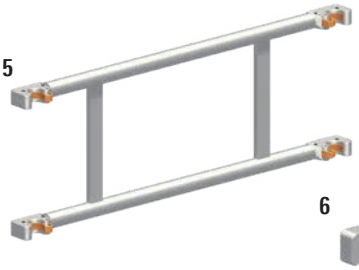

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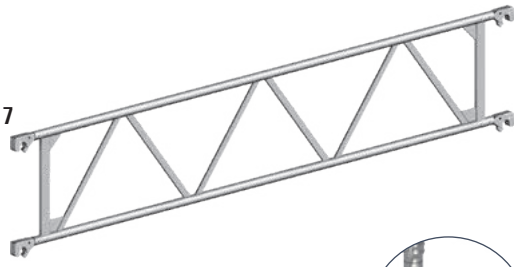

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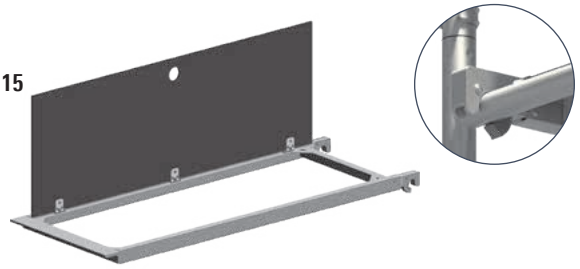

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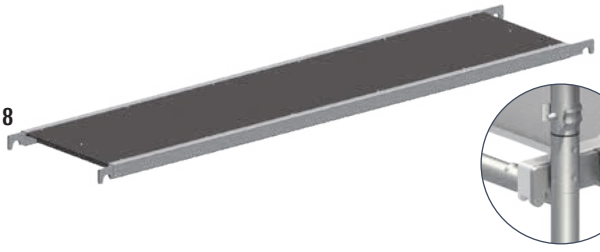

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Pos.	Description	Dimensions L / H x W [m]	Weight approx. [kg]	Ref. No.	SoloTower	Zfa	Uni Light	Uni Compact	Uni Standard	Uni Wide	Uni Comfort	Staro
1	**Spring clip,** steel		0.1	**1250.000**	▸	▸	▸	▸	▸	▸	▸	▸
2	**Guardrail,** aluminium	1.80	2.3	**1205.180**		▸	▸	▸			▸	
		2.85	3.6	**1205.285**					▸	▸		
3	**Staro guardrail,** aluminium	1.90	2.7	**1227.190**								▸
4	**Double guardrail,** aluminium	1.80 x 0.50	5.8	**1206.180**		▸	▸	▸				
		2.85 x 0.50	8.0	**1206.285**					▸	▸		
5	**SoloTower double guardrail,** aluminium	1.13 x 0.50	5.9	**1342.113**	▸							
6	**SoloTower telescopic guardrail,** aluminium	1.13 - 1.72	3.0	**1204.113**	▸							
7	**Beam,** aluminium for use as support beam in the modular system or as double guardrail	1.80 x 0.50	7.7	**1207.180**		▸	▸	▸			▸	
		2.85 x 0.50	9.6	**1207.285**					▸	▸		
8	**Intermediate guardrail** aluminium	1.90	1.9	**1224.190**								▸
9	**Diagonal brace** aluminium	1.95	2.8	**1208.195**		▸	▸	▸				
		2.50	3.3	**1208.180**		▸	▸	▸			▸	
		2.95	3.8	**1208.295**					▸	▸		
		3.35	4.1	**1208.285**					▸	▸		
10	**Deck diagonal brace** aluminium	2.50	4.2	**1347.250**		▸	▸	▸			▸	
		3.35	5.0	**1347.335**					▸	▸		
11	**Horizontal diagonal brace** aluminium	1.95	3.5	**1209.180**		▸	▸					
		2.95	4.6	**1209.285**					▸		▸	
12	**Horizontal diagonal brace, adjustable** aluminium	3.20 – 4.00	6.1	**1318.000**						▸	▸	
13	**Deck** aluminium frame, with plywood deck and hatch with phenolic resin coating	1.80 x 0.68	13.3	**1241.180**		▸	▸	▸			▸	
		2.85 x 0.68	20.0	**1241.285**					▸	▸		
14	**Staro deck** aluminium frame, with plywood deck and hatch with phenolic resin coating	1.90 x 0.60	13.1	**1241.190**								▸
15	**Stairway access deck** aluminium frame, with plywood deck and hatch with phenolic resin coating.	1.80 x 0.68	12.2	**1243.180**							▸	
16	**Access deck** aluminium frame, with plywood deck and hatch with phenolic resin coating	1.80 x 0.68	15.0	**1242.180**		▸	▸	▸				
		2.85 x 0.68	21.6	**1242.285**					▸	▸		
17	**SoloTower access deck** aluminium frame, with plywood deck and hatch with phenolic resin coating	0.75 x 1.13	11.4	**1242.113**	▸							
18	**Bridging deck** Only for use in double structures of Uni Standard towers	2.85 x 0.66	19.8	**1343.285**				▸				
19	**Intermediate deck,** aluminium for console bracket structures	2.85 x 0.23	10.5	**1339.285**				▸	▸			

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Supported by BG BAU

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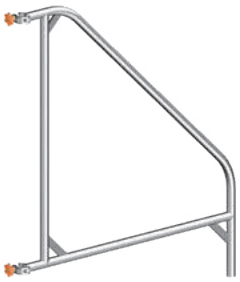

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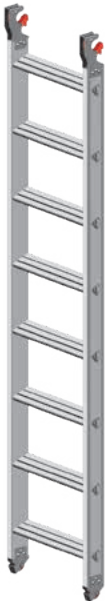

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Pos.	Description	Dimensions L / H x W [m]	Weight approx. [kg]	Ref. No.	SoloTower	Zifa	Uni Light	Uni Compact	Uni Standard	Uni Wide	Uni Comfort	Staro
1	**Toe board,** wood for twin towers and bridging deck	0.60 x 0.15	3.5	**1340.058**					▸			
2	**Toe board with claw,** wood	1.80 x 0.15	4.2	**1439.180**		▸	▸	▸			▸	
		1.95 x 0.15	4.2	**1439.195**								▸
		2.85 x 0.15	5.6	**1439.285**					▸	▸		
3	**End toe board,** wood	0.75 x 0.15	1.6	**1438.075**		▸	▸		▸			
		1.44 x 0.15	2.9	**1438.144**				▸		▸	▸	
		1.90 x 0.15	3.9	**1438.190**								▸
4	**SoloTower toe board unit,** aluminium		5.6	**1240.113**	▸							
5	**Landing stairway,** aluminium		15.5	**1212.180**							▸	
6	**Stairway guardrail,** aluminium for use for landing-type stairway Ref. No. 1212.180	3.07	3.8	**1213.180**							▸	
7	**Strut for outrigger,** aluminium locks the outrigger Ref. No. 1216.000	3.75	5.4	**1217.375**							▸	
8	**Outrigger,** aluminium for widening the bases of higher structures. Locking with horizontal diagonal brace Ref. No. 1209.285	1.50	8.2	**1216.000**							▸	
9	**Stairway guardrail,** aluminium	1.20	1.8	**1327.120**							▸	
10	**Guardrail,** aluminium for twin towers and bridging	0.58 x 0.50	4.7	**1342.058**					▸			
11	**Rotation preventer,** aluminium	0.5	2.8	**1248.261**	▸	▸	▸	▸	▸	▸		
12	**Stabilizer,** aluminium	1.80	4.2	**1248.180**		▸	▸	▸	▸	▸		
13	**Stabilizer, extendable,** aluminium	2.60 – 3.40	8.5	**1248.260**		▸	▸	▸	▸	▸		
14	**Stabilizer,** aluminium	5.00	14.9	**1248.500**					▸	▸		
15	**SoloTower stabilizer,** aluminium	1.2 – 2.1	5.2	**1248.000**	▸							
16	**Ladder for Staro rolling tower,** aluminium 6 double rungs		7.8	**1246.006**								▸
17	**Suspended step ladder,** aluminium 8 steps, with snap-on hook and castors at the ladder base	2.20	6.8	**1314.108**					▸	▸		
18	**Ladder support set** for suspended ladder Ref. No. 1314.108		2.0	**1314.109**					▸	▸		
19	**Uni distance tube,** aluminium tube, with hook and rubber foot	1.10	1.4	**1275.110**		▸	▸		▸			
		1.80	2.1	**1275.180**				▸		▸	▸	
20	**Swivel coupler** steel, galvanized	WS 19	1.5	**4702.019**		▸	▸	▸	▸	▸	▸	
		WS 22	1.5	**4702.022**		▸	▸	▸	▸	▸	▸	
21	**Double coupler** steel, galvanized	WS 19	1.3	**4700.019**		▸	▸	▸	▸	▸	▸	
		WS 22	1.3	**4700.022**		▸	▸	▸	▸	▸	▸	

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Components

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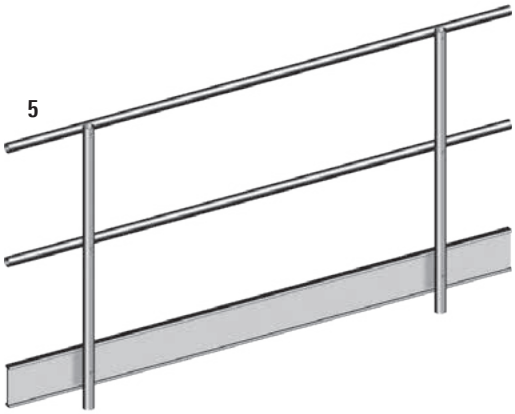

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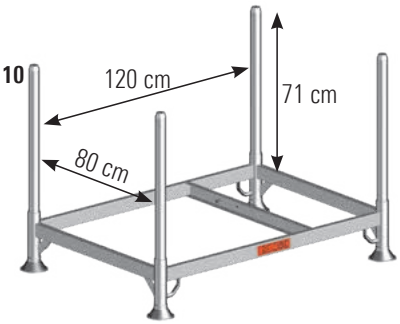

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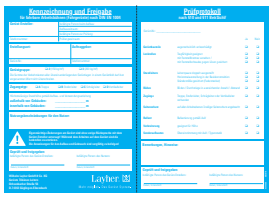

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Spare parts

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Pos.	Description	Dimensions L / H x W [m]	Weight approx. [kg]	Ref. No.	SoloTower	Zifa	Uni Light	Uni Compact	Uni Standard	Uni Wide	Uni Comfort	Staro	Alu bridg. beam 600
1	**Hand wheel with bush**		0.1	**6491.422**									
2	**Uni assembly hook,** pair		1.2	**1300.010**		▸	▸	▸	▸	▸			
3	**SoloTower assembly hook,** 4 pieces		1.2	**1300.002**	▸								
4	**Console bracket,** aluminium for widening of the work platform on one or two sides	0.75 x 0.90	5.4	**1341.075**					▸	▸			
5	**Double guardrail with toe board,** aluminium folds together for transport	2.00 x 1.10 3.00 x 1.10	9.7 12.9	**1332.200** **1332.300**									▸ ▸
6	**Guardrail fixture,** aluminium for fastening the double guardrail to the Alu bridging beam for Ref. No. 1332.xxx	0.50	0.9	**1330.000**									▸
7	**Guardrail locking pin,** steel for securing the double guardrail with the guardrail fixture for Ref. No. 1330.xxx		0.1	**1333.000**									▸
8	**Guardrail mounting standard,** aluminium for connecting the three-part brick guard made from scaffolding tubes, guardrail clamps and toe board	1.20	2.4	**1334.000**									▸
9	**Clamp,** steel for connecting the Alu bridging beams Ref. No.1348.xxx		0.4	**1331.000**									▸
10	**Tube pallet 125** steel, hot-dip galvanized, length of pallet posts: 0,86 m, load 1,500 kg.	1.37 x 0.97	32.0	**5105.125**		▸	▸	▸	▸	▸	▸	▸	
11	**Scaffolding lock**												
	basic set, 10 locks, 2 keys and code card		2.2	**4000.003**		▸	▸	▸	▸	▸	▸	▸	
	basic set, 20 locks, 2 keys and code card		4.2	**4000.004**		▸	▸	▸	▸	▸	▸	▸	
	basic set, 50 locks, 4 keys and code card		10.5	**4000.005**		▸	▸	▸	▸	▸	▸	▸	
	Expansion set with same locking as basic set, 10 locks		2.1	**4000.011**		▸	▸	▸	▸	▸	▸	▸	
	Expansion set with same locking as basic set, 20 locks		4.2	**4000.006**		▸	▸	▸	▸	▸	▸	▸	
	Expansion set with same locking as basic set, 50 locks		10.5	**4000.007**		▸	▸	▸	▸	▸	▸	▸	
12	**SoloTower assembly bag**		0.2	**1300.003**	▸	▸	▸	▸	▸	▸	▸	▸	▸
13	**Identification sign** Block à 50 pcs.		0.5	**6344.400**		▸	▸	▸	▸	▸	▸	▸	
14	**See-through pocket** for Ref. No. 6344.400, 10 pcs. ▦ with integrated prohibition sign		0.4	**6344.011**		▸	▸	▸	▸	▸	▸	▸	

Spare parts

Pos.	Description	Dimensions L / H x W [m]	Weight approx. [kg]	PU	Ref. No.
15	**Wheel including axle** for Ref. No. 1308.150 / 1302.150 / 1301.150 / 1312.150	dia. 0.15	0.6		**6496.921**
16	**Wheel including axle** for Ref. No. 1309.150 / 1303.150	dia. 0.15	0.6		**6491.501**
17	**Wheel including axle** for Ref. No. 1259.200 / 1259.201 / 1359.200	dia. 0.20	0.9		**6496.922**
18	**Finger 42 mm pair, blue** complete with springs and rivets		0.4	**2** ▦	**6491.416**
19	**Finger 42 mm pair, grey** complete with springs and rivets		0.4	**2** ▦	**6491.417**
20	**Finger 42 mm pair, orange** complete with springs and rivets		0.4	**2** ▦	**6496.923**
21	**Finger 48 mm pair, orange** complete with springs and rivets		0.4	**2** ▦	**6496.924**

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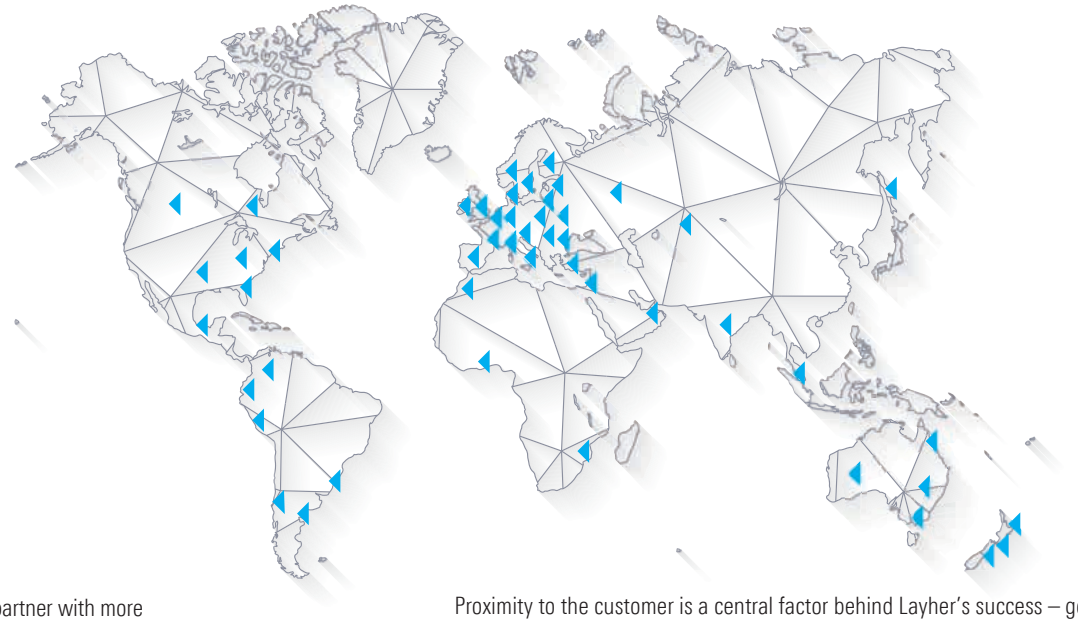

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