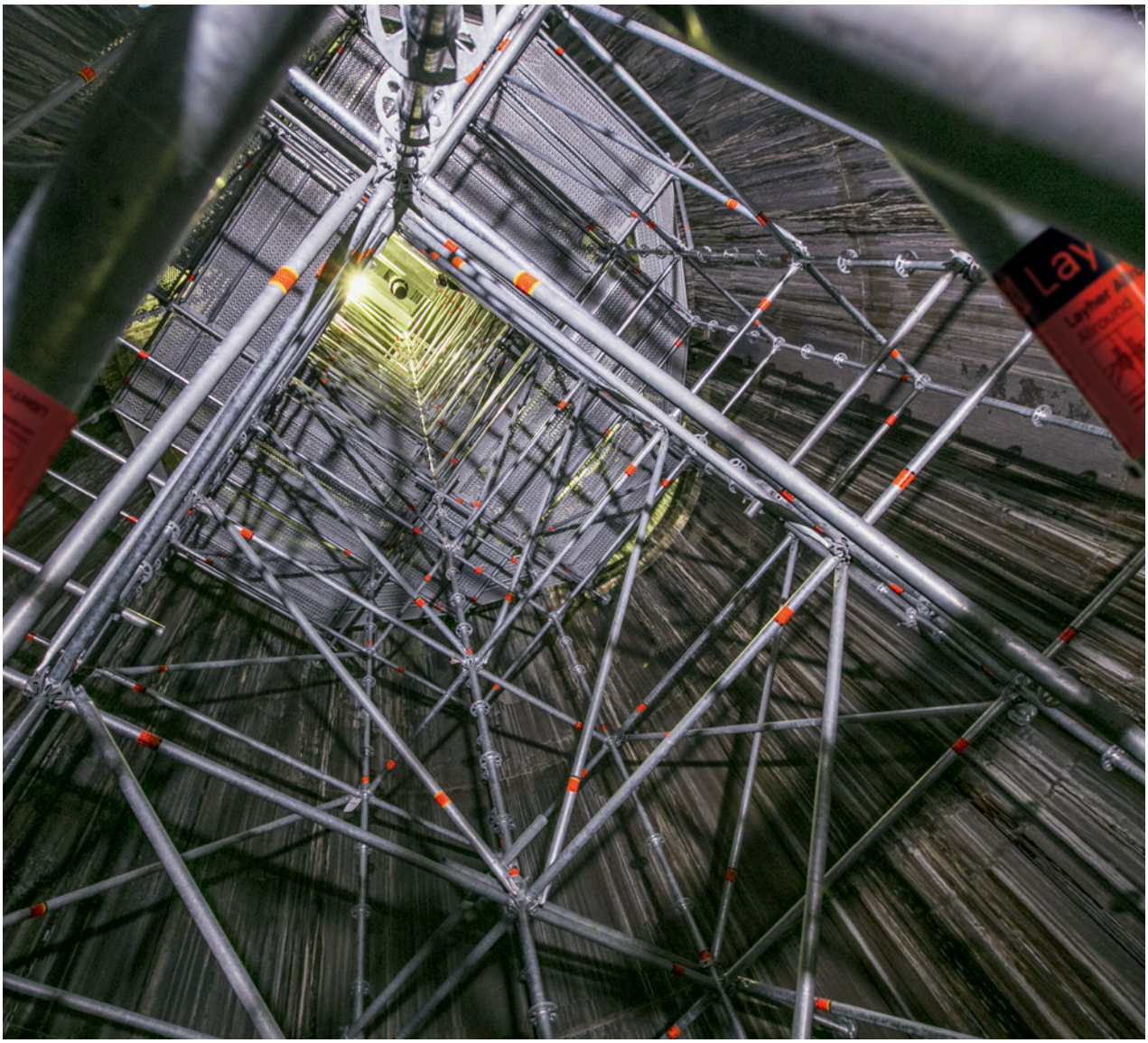
Layher

More Possibilities. The Scaffolding System.

Quality management
certified according to
DIN EN ISO 9001

Energy management
certified according to
DIN EN ISO 50001

Environmental management
certified according to
DIN EN ISO 14001



Catalogue
2025/2026

ALLROUND SCAFFOLD-ING

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- Layher Allround
  Scaffolding 2025 / 2026

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

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.

Our deliveries shall be made exclusively in accordance with our at the conclusion of contract 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**

Please request the specific instructions for assembly and use when ordering.

01 THE COMPANY

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 and management are all in one place. This proximity creates advantages that benefit our customers all over the world: short distances, short response times, controlled quality and production.

Layher's history began more than 75 years ago with the manufacture of ladders and other agricultural equipment. Since then, Layher has significantly influenced the market for scaffolding and access technology. Today, more than 2,700 employees create more possibilities for our customers every day with a comprehensive range of services, a sustainable training programme and customer proximity. In more than 50 countries worldwide.

Layher lives **economic and ecological sustainability** in all process steps. Social responsibility towards employees, customers and society takes centre stage.

Headquarters in Eibensbach

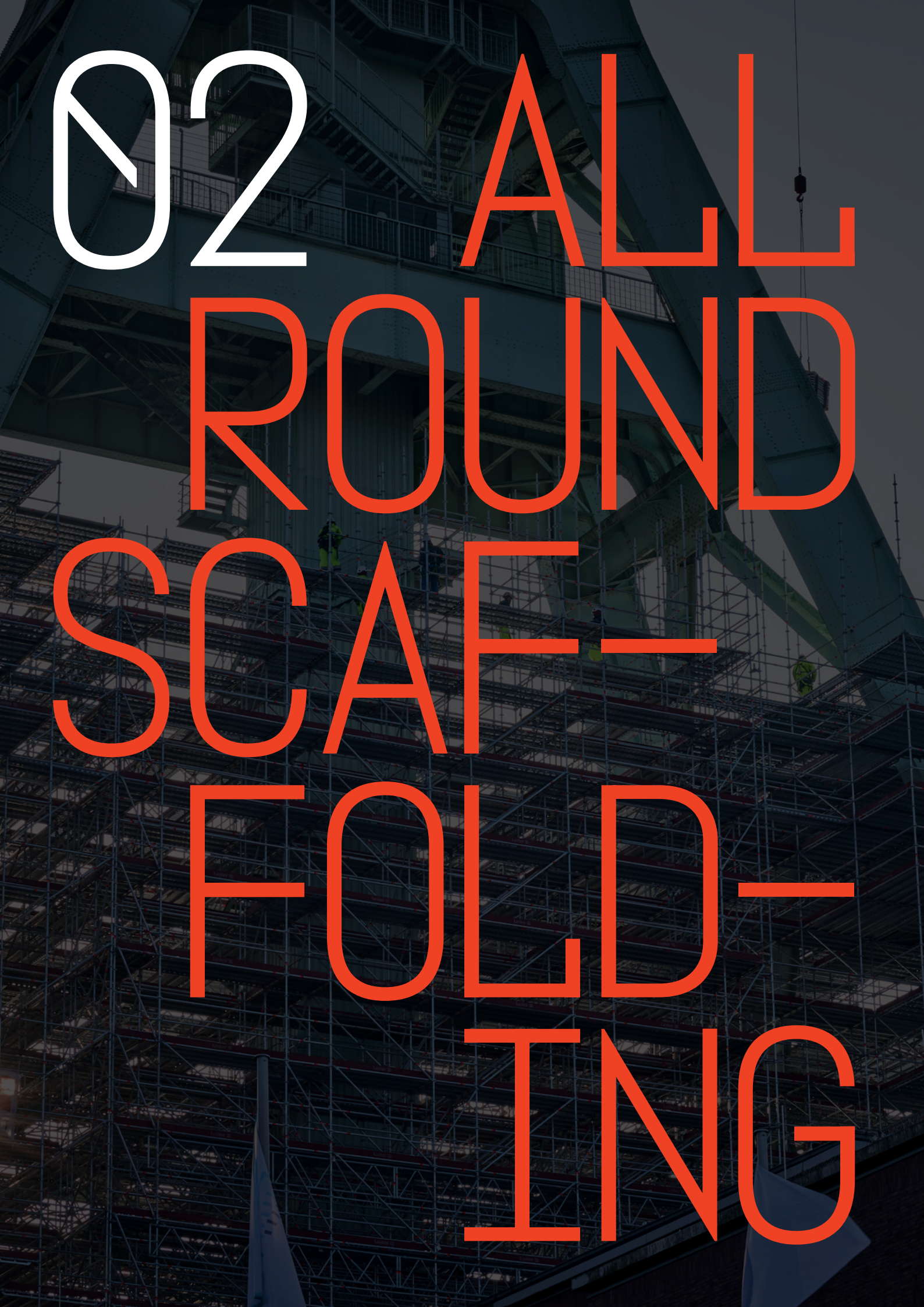
Plant 2 in Gueglingen

Plant 3 in Cleebronn

Discover the world of Layher in its company film.

WITH LAYHER, THERE ARE MORE POSSIBILITIES.

A comprehensive range of innovative products, application-orientated solutions and comprehensive services for easy, fast and safe working at height.

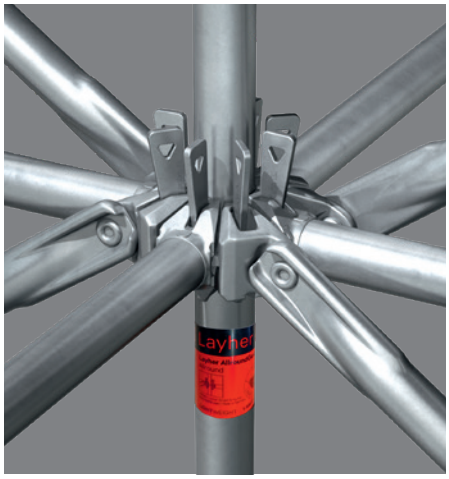


02 ALL ROUND SCAF-FOLD-ING

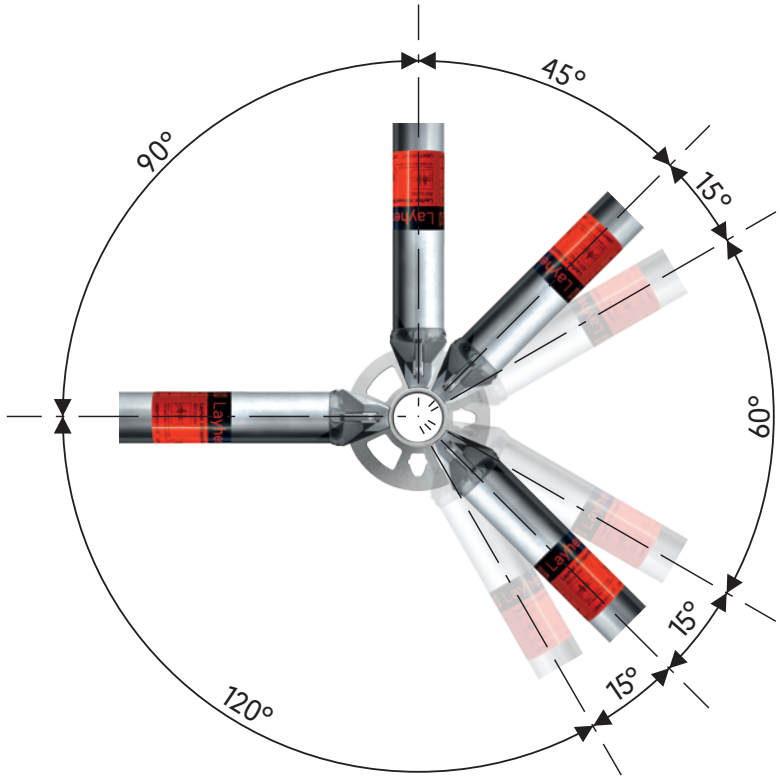
The Allround Scaffolding Lightweight from Layher with its proven wedge connection technology is in use all over the world. The original offers impressive versatility, especially for the most difficult geometries and anchoring conditions. Whether as work scaffolding, safety scaffolding or shoring, as internal scaffolding, mobile scaffolding or deck scaffolding: There is nothing that you cannot solve quickly, cost-effectively and safely with the Layher Allround system.

Allround equipment features a simple, unique and bolt-free connection technology. When the wedge head is pushed over the rosette, the wedge drops automatically into the recess thanks to the innovative AutoLock function and is **immediately secured against being moved or falling out.**

A hammer blow on the wedge transforms the positive connection into a superbly strong non-positive one. (Use 500 g metal hammer until the blow bounces off). The end face of the wedge head is now positioned precisely at the standard.



The result of superior engineering.
Up to eight connections can be made in the structurally ideal Allround connector, on one level and at various angles. Attachment is possible at the standard dimension intervals of 50 cm on all Allround standards. The flat rosette prevents clogging by dirt of any type.



Ingenious connection technology.
The four small punched-out openings in the rosette automatically centre the ledger at right angles – the four large openings permit alignment with free selection of the angle.

The robust and inexpensive Allround Scaffolding made of steel (hot-dip galvanised) is primarily used in structural and demanding scaffolding construction.

High and ideal power transmission with low weight. The wedge head and standard are matched to each other in such a way that the ledger loads to be transmitted are transferred directly to the centre of the standard.

The Layher Allround Scaffolding has the following approvals:
Z-8.22-64, Z-8.22-64.1, Z-8.22-939, Z-8.22-949, Z-8.1-919, Z-8.1-969 and other international approvals. Standard designs for the AGS System are regulated by type test TP-21-012. This type test currently contains 20 statically proven assembly variants.

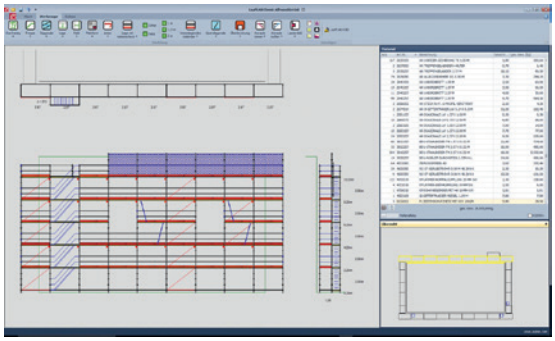
The benefits for you:

- Time-saving assembly and disassembly thanks to screwless connection technology.
- No parts to lose.
- Low material usage.
- Maintenance-free, always ready for use and durable hot-dip galvanised components.
- Low weight of the individual parts.
- Sophisticated parts programme.
- Impressive cost-effectiveness and flexibility.

Software for scaffolding construction

Time and material are crucial factors in scaffolding construction. To make the most efficient use of both, the Layher range includes the practical LayPLAN scaffolding planning software.

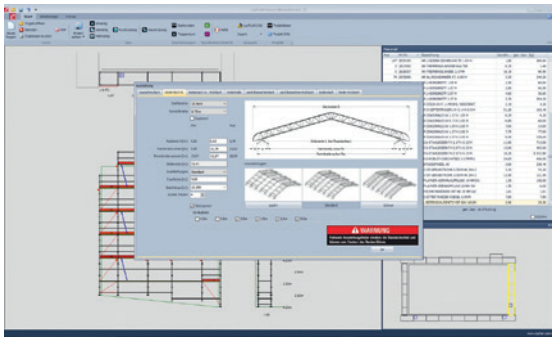
With the serveral software packages LayPLAN CLASSIC and LayPLAN CAD, it is possible to plan scaffolding structures from simple, small facade scaffolding up to complex industrial scaffolding or protective roofs and grandstands.



Allround Facade Scaffolding

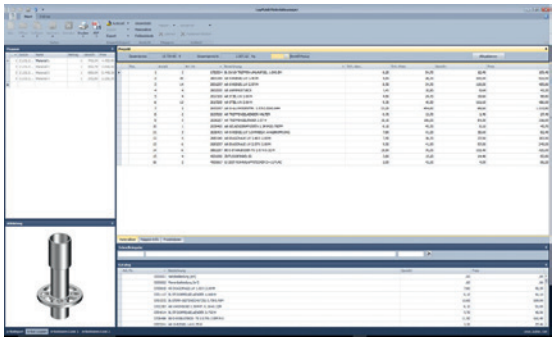
LayPLAN CLASSIC

With the LayPLAN CLASSIC modules for Allround Scaffolding and SpeedyScaf, individualised scaffolding solutions can be configured quickly and easily: whether they're for circular or facade scaffolding made from SpeedyScaf, for birdcage scaffolding and free-standing towers made from Allround Scaffolding, or for structures with temporary roofs. Once the dimensions and the required assembly variant have been entered, LayPLAN CLASSIC delivers within seconds a scaffolding proposal, including anchoring, bracing and side protection. During the design phase, the overall length, standing heights and areas are continuously calculated and displayed to reflect the current plan.
A material list can also be created at the click of a button and then printed out, together with an assembly sketch for the area to be enclosed in scaffolding plus the total weight. This also helps with the logistics – the required material is guaranteed to be there where it's needed. Scaffolding erectors benefit from more certainty when planning the commercial and technical details, from optimised use of stocks, and from full cost transparency at every stage of the project.



Weather protection roof on Allround support Scaffolding

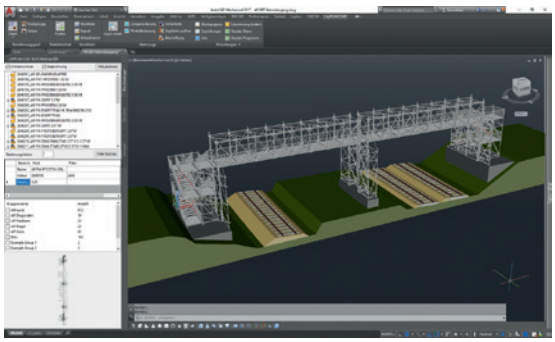
After finalisation of the scaffolding proposal, the LayPLAN Material Manager provides you with complete lists of required parts to ensure you always have precisely the material you need at the site.



Component images LayPLAN Material Manager

LayPLAN CAD

For more complex structures, LayPLAN CAD is available. This is a plug-in for Autodesk AutoCAD. It enables 3-dimensional planning of scaffolding structures of all types.



Planning of individualised scaffolding structures in LayPLAN CAD

Thanks to integration into the LayPLAN system, the basic planning can be handled in automated form using the proven LayPLAN CLASSIC.

Project data can be quickly recorded using input masks, ensuring a time saving for every order. The data are then simply exported into the AutoCAD program, which offers further possibilities for detailed 3D planning. A visual collision check is possible with the aid of volume rendering. Using a convenient search function with preview image, scaffolding planners will find not only an extensive library of individual Layher parts, but also assemblies already prefabricated for even faster design work. The detailed drawings can then be printed out. A transfer to visualisation or animation software is also possible without any problem. This allows projects not only to be planned economically and also adapted precisely to actual requirements, but also to be presented professionally to customers.

Learn more in the Brochure "System Solutions Digitalisation and Software".


LayPLAN SUITE


LayPLAN CLASSIC

LayPLAN CAD


LayPLAN MATERIALMANAGER

LayPLAN TO RSTAB


Learn more on YouTube
Layher SIM

How can I purchase LayPLAN?
Further information and registration for ordering processes can be conveniently accessed via the Layher website:
http://software.layher.com
A contact form will provide you with access data to our software portal, where you can download a 30-day trial version and find the order form for the full version.

Pos.	Description	Ref. No.
1	**LayPLAN CLASSIC** scaffolding configurator for SpeedyScaf, Allround Scaffolding, weather protection roofs and rolling towers	6345.102
2	**LayPLAN CAD**	
	plug-in for AutoCAD, for designing complex scaffolding in 3D and for developing scaffolding proposals from LayPLAN CLASSIC	6345.103
	plug-in for BricsCAD, for designing complex scaffolding in 3D and for developing scaffolding proposals from LayPLAN CLASSIC	6345.106
3	**LayPLAN TO RSTAB** To use LayPLAN TO RSTAB, only RSTAB 8 from Dlubal including the RS-COM interface is required. RSTAB 9 is not supported.	6345.104

WS = wrench size **LC** = load class **PU** = packaging unit IND = products can be customized = new in the catalogue = available ex works
= delivery time on request = only available in this packaging unit = the approval process is not yet completed

Scaffolding base plates

For load transmission and ground adaption, choose between different height-adjustable **base plates** 2–5 with sturdy and self-cleaning round threads, with colour and notch markings to provide protection against overwinding. Make sure that there are sufficient load-distributing surfaces. For all inclined erection surfaces, e.g. in combustion chambers or ship hulls, **swivelling base plates 60,** reinforced 4 are used. The round threads of all Layher scaffolding spindles have an outside diameter of d=38 mm and a pitch of 8.1 mm. The wing external dimension of the spindle nut is 205 mm. The dimensions of the foot plate are 150 x 150 mm.

The **head jack** 7 / 8 and 10 / 11 accommodates wood sections or steel beams and serves to adjust height and introduce loads. The solid head jacks and base plates can be recognized by the hexagonal opening provided in them.

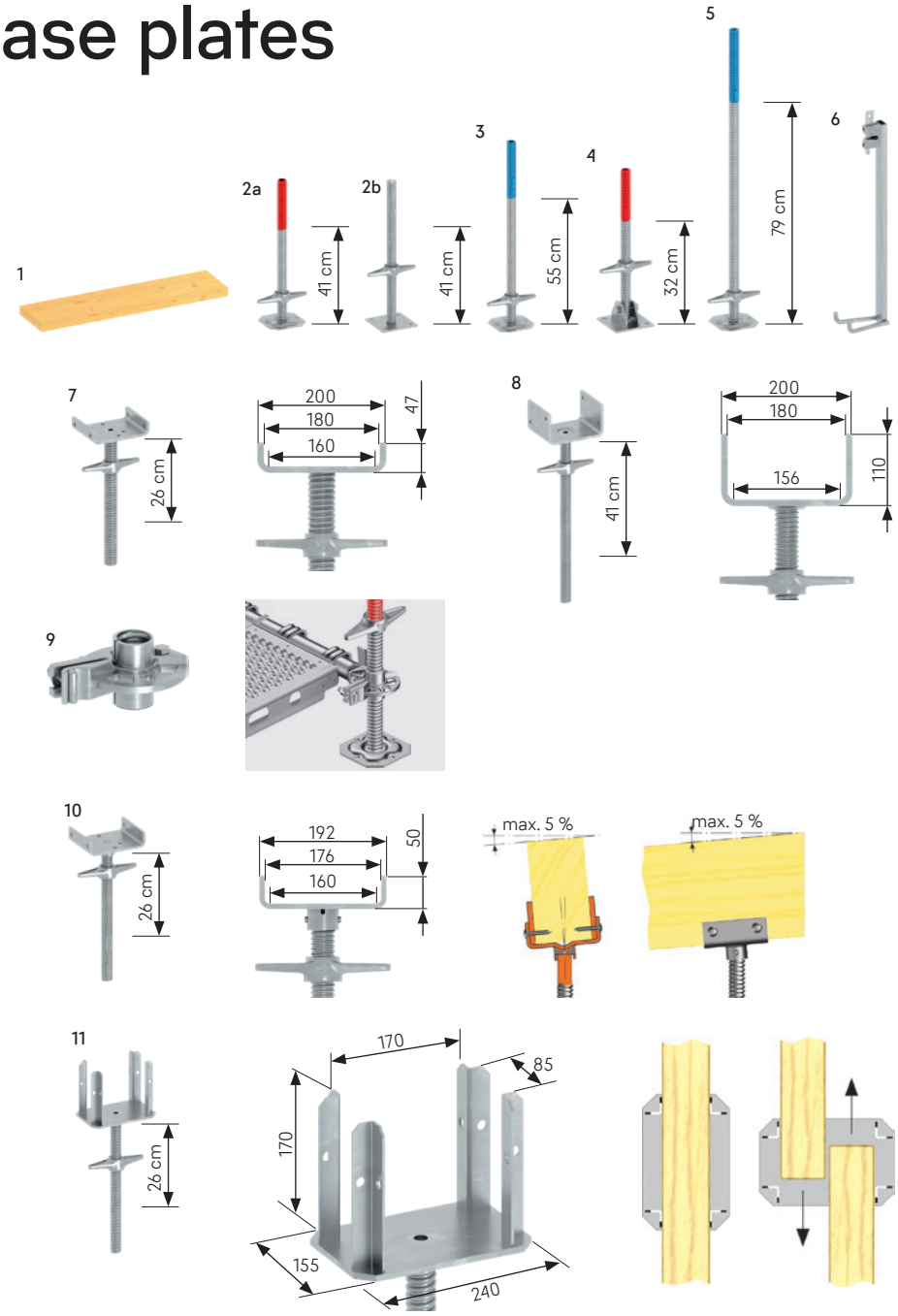
The **swivelling head jack 45,** solid 10 can be used to install supports (e.g. wood sections) with an inclination of up to max. 5% to the horizontal in the longitudinal and transversal directions, thus eliminating the need to level with a wedge. Greater loads can be supported thanks to the articulated mounting of the top plate and the resulting centric introduction of vertical forces into the spindles.

The **cross head jack 45,** solid 11 serves to accommodate wood sections, glued binders or steel beams in falsework and supporting scaffolding. It stabilizes the supports against tilting, and it is possible to use one or two formwork supports. Height adjustment is performed using the spindle nut. The cross head jack is suitable for all common formwork supports.

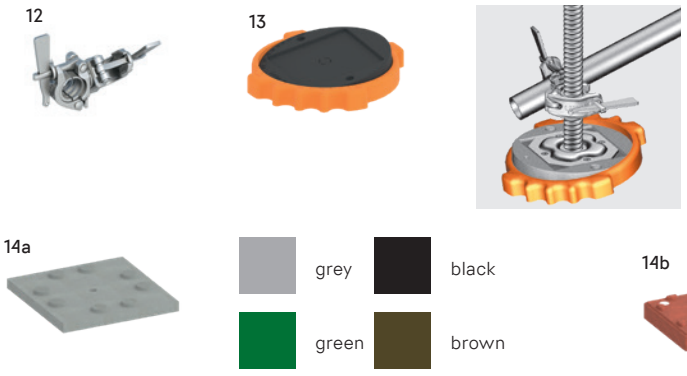
Wedge spindle swivel coupler 12 for connection of a tube d=48.3 mm to a scaffolding spindle at any angle.

With the **adjustment plate** 13, rigid base plates can be fully beared on inclined ground. By turning the plate, the inclination can be continously adjusted up to 16 % without reducing the load-bearing capacity.

The **Plastic underlay** 14a can be personalised with your lettering from a minimum order quantity of 1,600 pieces and is available in various colours.

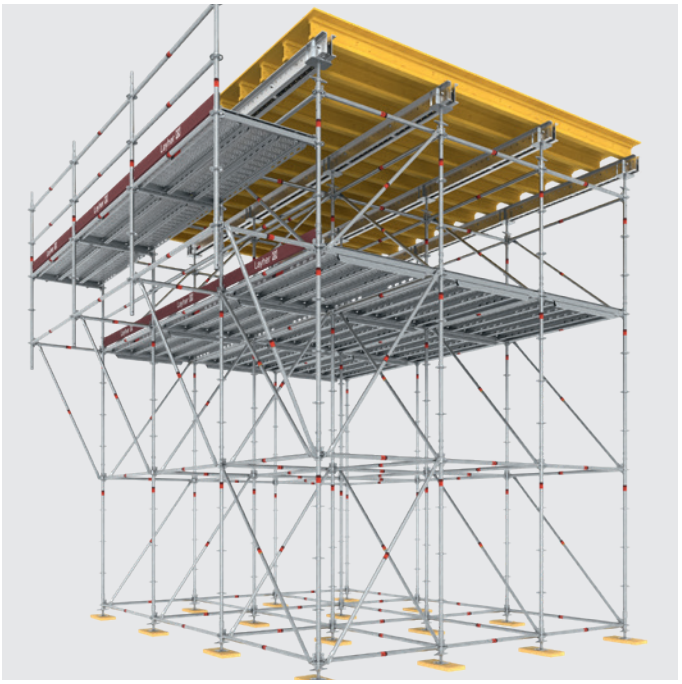


Spindle type	N_{Rd} [kN]	M_{Rd} [kNcm]	V_{Rd} [kN]
normal	97.7	83.0	36.0
reinforced	119.9	94.5	44.1
solid	288.0	157.0	106.0



The **rosette with thread,** clampable 9 can be attached to the thread of the Layher base plate or head jack. This rosette can be used, when the spindle nut is undone, for bracing in the longitudinal, transverse and diagonal directions. Up to six connections are possible.

The **spindle attachment** with wedge head 6 serves to secure the base plate and the base collar against falling out when moving scaffolding with a crane.



Pos.		Description	WS [mm]	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1		**Scaffolding plank** 45 mm high, freshly sawn, sorting category S10		1.00 × 0.24	5.2	80	3816.100
				1.50 × 0.24	7.8	80	3816.150
2		**Base plate 60**					
	a	(max. spindle travel 41 cm)		0.56	3.6	200	4001.060
	b	solid, without lock (max. spindle travel 41 cm)		0.58	6.7	200	5602.060
3		**Base plate 80** reinforced (max. spindle travel 55 cm)		0.73	4.9	200	4002.080
4		**Swivelling base plate 60** reinforced (max. spindle travel 32 cm) ensure sufficient structural strength		0.58	6.1	250	4003.000
5		**Base plate 110** reinforced (max. spindle travel 79 cm)		1.10	6.5	100	4002.110
6		**Spindle attachment** with wedge head		0.60	2.0	150	2602.100
7		**Head jack 45** solid (max. spindle travel 26 cm), width of fork 16 cm		0.45	6.6	100	5314.045
8		**Head jack 60** reinforced, 18 cm (max. spindle travel 41 cm), width of fork 18 cm		0.60	8.0	100	5316.060
9		**Rosette with thread** clampable	19	0.12	1.7	250	2602.119
			22	0.12	1.7	250	2602.122
10		**Swivelling head jack 45** solid (max. spindle travel 26 cm), width of fork 16 cm		0.45	7.3	100	5312.045
11		**Cross head jack 45** solid (max. spindle travel 26 cm), opening dimensions 8.5 / 17 cm		0.45	6.9	90	5315.045
12		**Wedge spindle swivel coupler**			1.8	25	4735.000
13		**Adjustment plate for base plate** of glass-fibre-reinforced polyamide plastic, inclination 0 – 16 %		d=0.30	1.3	250	4000.400
14		**Plastic underlay for base plate**					
	a	grey, with burls for easy stacking		0.26 × 0.02 × 0.26	1.5	400	4000.700
	b	brown, to distribute loads, with burls for easy stacking		0.40 × 0.04 × 0.20	4.2	250	4000.701

WS = wrench size LC = load class PU = packaging unit IND = products can be customized = new in the catalogue = available ex works
= delivery time on request = only available in this packaging unit = the approval process is not yet completed

Vertical support elements

The Original: The Allround Power Connector

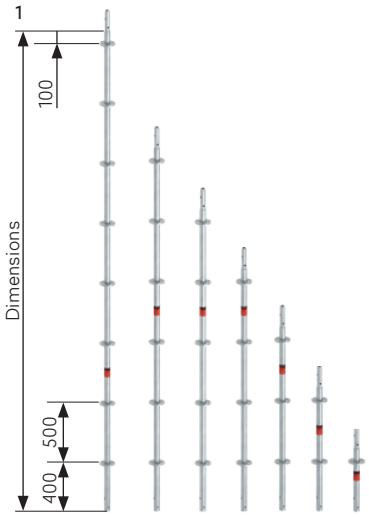
- High material and manufacturing quality.
- High load-bearing capacity thanks to standardised connection values.
- Optimal force transmission thanks to precise and durable components.
- Variety of applications and flexible connection options.
- Optimal warehousing and greater application possibilities.

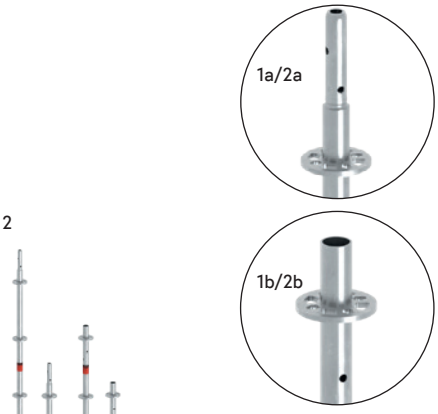
Standards are available in hot-dip galvanized steel tubing, d=48.3 mm, and aluminium tubing, d=48.3 mm, with rosettes at every 50 cm for a maximum of eight connections. Four small openings in the rosette determine right-angled connections, four larger openings permit connections at any angles. For use as suspended scaffolding or for moving by crane, only following standards may be used: **standards LW, steel, without spigot** 1b together with **spigots** 5, or **standards, aluminium, without spigots** 4b with **spigots** 5 or **standards LW with integrated spigots** 1a with integrated spigot. For connecting of each standard, you can use **hinged pins** 6 or **special bolts M12 x 60 mm** 7. The spigots should always be bolted into the standard with te special bolts. The **standard LW, steel** 1a handle has a shaped spigot – it allows to transmit tension forces.

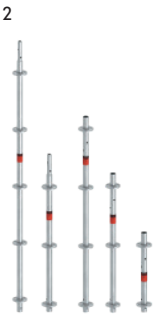
The rosette, clampable 8, can be connected to any point on the standard with 50 Nm – and allows up to six ledgers or diagonal braces to be connected to it. This permits flexible solutions between the rosettes even when connected to SpeedyScaf. Loading table available on request.

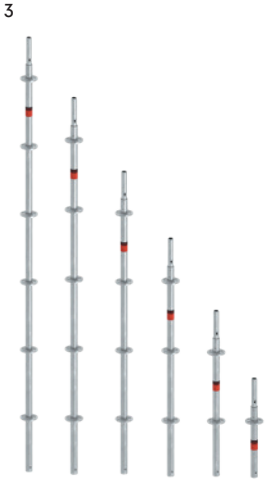
The **base collar** 10a, with rosette and the height-adjustable base plate form the scaffolding base. The vertical standard is placed into the base collar for further construction. The **base collar,** extended 10b, is required with aluminium Allround standards. For Allround rolling towers it facilitates a correct securing of the castors with locks against falling out.

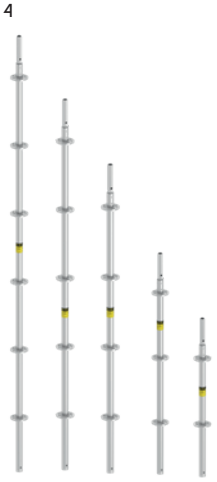
The **standard lock,** 0.50 m 9 can be used to bridge standard joints, for example when moving scaffolding using a crane or for suspended scaffolding. Permissible load capacity: 18.8 kN.

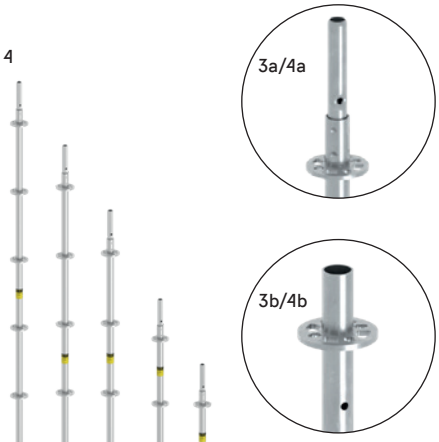


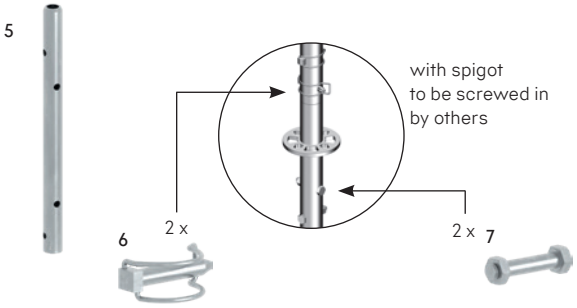


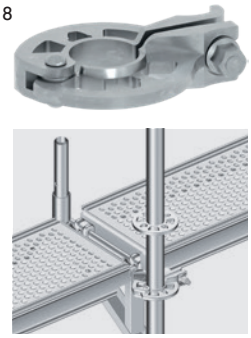


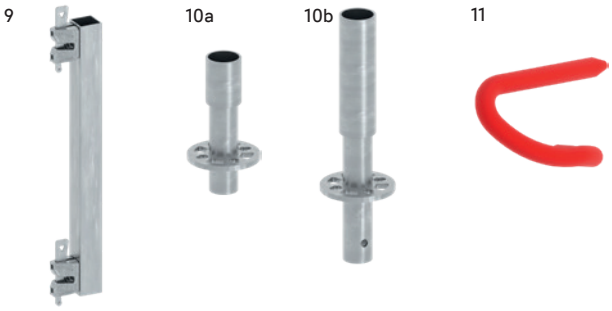












Pos.		Description	WS [mm]	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1		**Standard LW**					
	a	steel, with integrated spigot with cross hole, for use in stand and suspended scaffolding		0.50	2.7	240	2617.050
				1.00	4.9	28	2617.100
				1.50	7.1	28	2617.150
				2.00	9.3	28	2617.200
				2.50	11.5	28	2617.250
				3.00	13.7	28	2617.300
				4.00	18.1	28	2617.400
	b	steel without spigot, for scaffolding layer		0.50	2.2	300	2619.050
				1.00	4.4	28	2619.100
				1.50	6.6	28	2619.150
				2.00	8.8	28	2619.200
				2.50	11.0	28	2619.250
				3.00	13.2	28	2619.300
2		**Initial standard LW**					
	a	steel, 1.16 m, with 3 rosettes, with integrated spigot and base collar		1.16	5.8	28	2617.116
		steel, 2.21 m, with 5 rosettes, with integrated spigot and base collar		2.21	10.0	28	2617.221
	b	steel, 0.66 m, with 2 rosettes, without spigot, with integrated base collar		0.66	3.3	200	2619.066
		steel, 1.16 m, with 3 rosettes, without spigot, with integrated base collar		1.16	5.5	28	2619.116
		steel, 1.66 m, with 4 rosettes, without spigot, with integrated base collar		1.66	7.7	28	2619.166
3		**Standard**					
	a	steel with pressed-in spigot		0.50	3.2	240	5603.050
				1.00	5.5	28	2603.100
				1.50	7.8	28	2603.150
				2.00	10.1	28	2603.200
				2.50	12.4	28	2603.250
				3.00	14.6	28	2603.300
				4.00	19.2	28	2603.400
	b	steel, without spigot e.g. for receiving head jacks, or for suspended scaffolding use the spigot Ref. No. 2605.000		0.50	2.5	300	2604.050
				1.00	4.6	28	2604.100
				1.50	6.8	28	2604.150
				2.00	9.0	28	2604.200
				2.50	11.7	28	2604.250
				3.00	13.7	28	2604.300
4		**Alu standard**					
	a	aluminium, with pressed-in spigot		1.00	2.2	28	3200.100
				1.50	3.2	28	3200.150
				2.00	4.1	28	3200.200
				2.50	5.0	28	3200.250
				3.00	5.9	28	3200.300
	b	aluminium, without spigot for suspended scaffolding		1.00	1.9	28	3209.100
				1.50	2.8	28	3209.150
				2.00	3.8	28	3209.200
				2.50	4.7	28	3209.250
				3.00	5.6	28	3209.300
5		**Spigot**					
		steel, for standards Ref. No. 2619.xxx and 2604.xxx		0.52	1.6	350	2605.000
		Aluminium, for standards Ref. No. 3209.xxx		0.52	0.8	250	3209.000
6		**Hinged pin** d=12 mm, with pan head			1.6	20	4905.668
7		**Special bolt M12 x 60 mm** with nut	19		4.0	50	4905.062
8		**Rosette**	19	0.12	1.1	450	2602.019
		clampable	22	0.12	1.2	450	2602.022
9		**Standard lock** 0.50 m		0.58	4.0	100	2603.000
10		**Base collar**					
	a			0.24	1.4	500	2602.000
	b	extended		0.43	2.2	400	2660.000
11		**Locking pin** red, d=11 mm			0.1	100	4000.001

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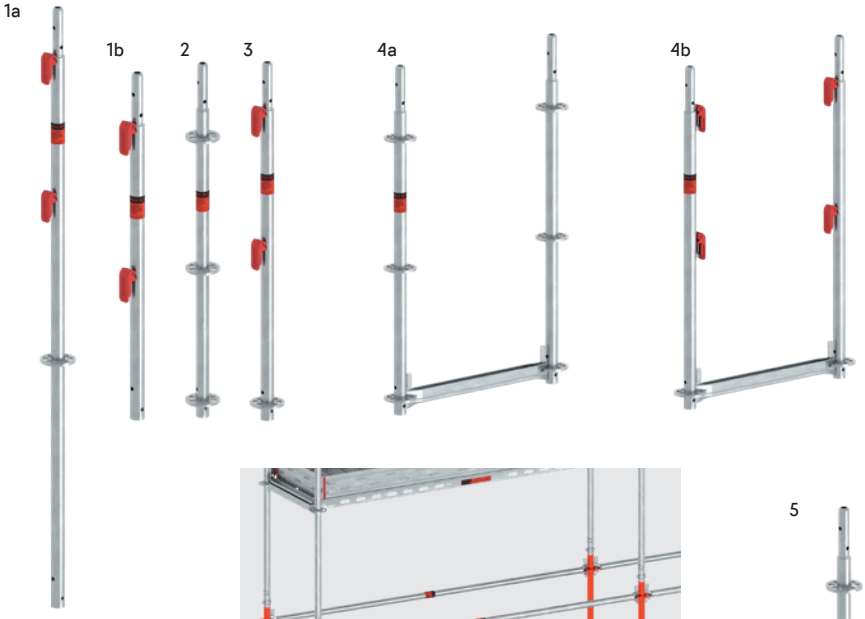
= delivery time on request = only available in this packaging unit = the approval process is not yet completed

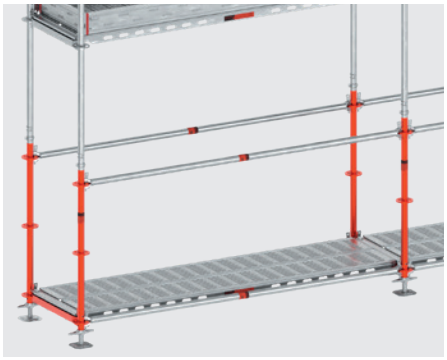
Modular access system AGS for facades

For advancing side protection without additional work steps, Layher has designed the modular access system AGS for facades. Using the **AGS standard LW** 1 and the **AGS Guardrails** 7, you can create facade scaffolding using Allround Scaffolding with two-part advancing side protection – on both the inside and the outside – without the use of temporary side protection parts.

Thanks to the innovative guardrail suspension, the AGS Guardrails can be fitted from the secured level underneath, and then swung upwards together with the AGS Standard.

During assembly or dismantling, no assembly direction for the scaffolding bays has to be adhered to. The AGS Standard has the same load-bearing properties as a normal 2.00 m long Allround Standard LW. Bracing components such as longitudinal ledgers or diagonal braces can be fitted in the familiar way to the Allround rosettes. That keeps you independent and able to deal flexibly with requirements arising at the site.





Scaffolding start with the AGS U-frame

Corner variant 1:
2 standards

Corner variant 2:
3 standards

Corner variant 3:
4 standards

guardrail contour
for bay lengths
0.73 m to 1.40 m

guardrail contour
for bay lengths
1.57 m to 3.07 m

no subsequent
dismantling is possible

Learn more on YouTube
AGS System

Learn more on YouTube
AGS guardrail Fixx

Assembly variant 1:
Outside AGS,
Inside Allround Scaffolding

Assembly variant 2:
Outside and inside AGS

9

Learn more on YouTube
AGS guardrail Mixx

subsequent dismantling possible with special tool

10

Pos.		Description		Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1		**AGS standard LW**					
	a	AGS standard for advanced side protection on facade scaffolding		2.00	8.0	28	2602.065
	b			1.00	4.1	50	2602.029
2		**Initial standard LW** steel, 1.16 m, with 3 rosettes, with integrated spigot and base collar		1.16	5.8	28	2617.116
3		**AGS initial standard LW** with integrated spigot, with 1 rosette and 2 AGS safety levers for quick scaffolding base assembly without base collar – suitable if a full stiffening with Allround ledgers on 1 m height is not necessary e.g. for low scaffolding heights		1.16	5.4	28	2602.116
4		**AGS U-frame LW**					
	a	with rosettes		1.16 × 0.73	15.4	12	2602.088
				1.16 × 1.09	17.1	20	2602.089
	b	with AGS safety levers		1.16 × 0.73	13.8	20	2602.090
				1.16 × 1.09	15.5	20	2602.091
5		**AGS interior standard LW** advanced guardrail assembly not possible, only for use at inner scaffolding side		2.00	8.0	28	2602.075
6		**AGS guardrail adapter** with half-coupler for further construction with guardrails in inner or outer corners			1.0	500	2602.021
7		**AGS guardrail**					
		lightweight guardrail made of 33.7 mm tube, assembly without tools ensures rapid installation and removal		0.73	1.4	140	2602.005
				1.09	2.0	140	2602.006
				1.40	2.6	140	2602.007
				1.57	2.9	140	2602.061
				2.07	3.8	140	2602.062
				2.57	4.7	140	2602.063
				3.07	5.6	140	2602.064
		Metric, lightweight guardrail made of 33.7 mm tube, assembly without tools ensures rapid installation and removal		1.50	2.8	140	2602.084
				2.00	3.7	140	2602.085
				2.50	4.6	140	2602.086
				3.00	5.5	140	2602.087
8		**AGS guardrail Fixx** assembly only from secured level. Lightweight guardrail from d=33.7 mm tube, tool-free assembly guarantees a quick handling, subsequent dismantling not possible		1.57	3.1	140	2602.067
				2.07	4.0	140	2602.068
				2.57	4.9	140	2602.069
				3.07	5.8	140	2602.070
9		**AGS guardrail Mixx** assembly only from secured level. Lightweight guardrail from d=33.7 mm tube, tool-free assembly guarantees a quick handling, subsequent dismantling possible with special tool		1.57	3.2	140	2602.080
				2.07	4.1	140	2602.081
				2.57	5.0	140	2602.082
				3.07	5.9	140	2602.083
10		**AGS double end guardrail** closure of the scaffolding at its end		0.73	4.3	60	2602.014
				1.09	5.6	50	2602.018

WS = wrench size LC = load class PU = packaging unit IND = products can be customized = new in the catalogue = available ex works
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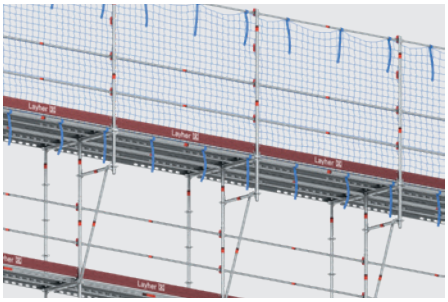
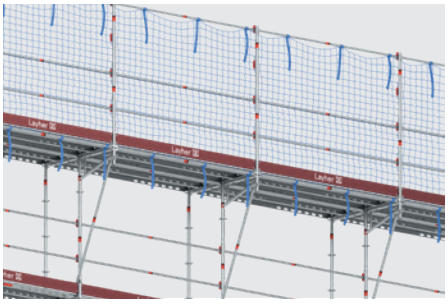
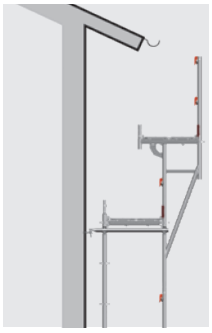
The **AGS standard LW for roof edge protection** 2 can be used to create leading crash barriers in interception or roof safety scaffolding.



Alternatively, the **AGS roof edge protection console** 3 is available for mounting a protective wall.





The **AGS eaves bracket** 4 fulfils workplace requirements for painters / plasterers, tinsmiths and roofers. It replaces material and timeconsuming constructions.

The **telescopic AGS guardrail** 5 makes it possible to close fitting panels and the inner corner area with system guardrails.

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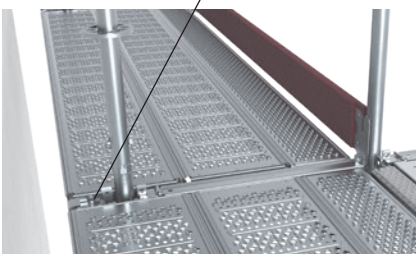
AGS guardrail adjustable is to be used as the guardrail in the top layer in the 3.07 m bay and AGS guardrail 2602.062 in the 2.57 m bay.



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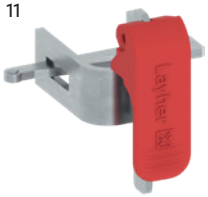

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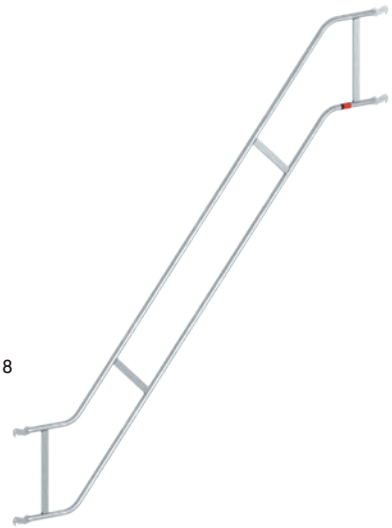

Pos.	Description	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**AGS guardrail standard LW** for the safe advanced assembly of an AGS roof edge protection	1.00	4.2	50	2602.027
2	**AGS standard LW for roof edge protection** for the safe advanced assembly of an AGS roof edge protection	1.71	7.0	28	2602.028
3	**AGS roof edge protection console** for the safe advanced assembly of an AGS roof edge protection	0.73	11.2	20	2602.026
4	**AGS eaves bracket**	2.00 × 0.73	18.7	50	2602.066
5	**Telescopic AGS guardrail** lightweight, telescopic guardrail for equalising bays and inner corners	1.09 – 1.57	4.4	50	2602.024
		1.57 – 2.57	6.5	50	2602.025
6	**U-lift-off-preventer with toe board pin** for use of SpeedyScaf toe boards instead of standard Allround toe boards	0.73	1.4	260	2627.008
		1.09	1.9	100	2627.009
7	**AGS stair guardrail post** for platform stair	1.20	4.6	50	2602.076
8	**AGS stair guardrail**	2.57 × 1.50	15.0	30	2602.077
		2.57 × 2.00	15.8	30	2602.078
		3.07 × 2.00	17.6	30	2602.079
9	**Internal guardrail fixing device** rapid tool-free assembly by swinging in the bar		0.3	500	2602.012
10	**U-ledger bracket with 1 wedge head** for widening the working space between scaffolding and wall	0.14	1.0	500	2618.014
11	**Guardrail adapter** for lateral guardrail connection of AGS and Allround system		0.6	500	2602.016

WS = wrench size **LC** = load class **PU** = packaging unit **IND** = products can be customized = new in the catalogue = available ex works
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Horizontal support elements

Depending on the scaffolding bay length, deck type and load, ledgers made of steel or aluminium are available in cylindrical tube, U-section and reinforcement sections for higher loads. The ledgers are deck beams, bracing elements and guardrails.

The wedge lock connection ensures positive and non-positive connection with central load introduction between standards and ledgers. Safety is already assured in the assembly state because the wedge lock already prevents unintentional disengagement when the wedge is loosely inserted. Longitudinal ledgers can be omitted at deck level if the decks are secured against lifting off by a lift-off preventer.

Slide the wedge head over the rosette.

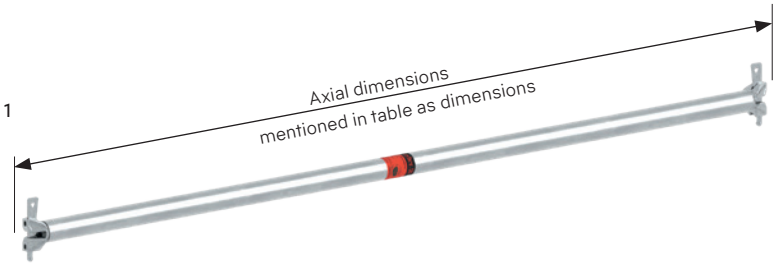
Thanks to the AutoLock-function, the wedge automatically falls into the rosette. The component is secured against shifting and falling out.

Hammer down the wedge to provide a non-positive connection (Use 500 g metal hammer until the blow bounces off).

Load capacity of O-ledger, steel*

Ledger length (system dimension) [m]	0.73	1.09	1.40	1.57	2.07	2.57	3.07
Evenly distributed line load (q) [kN / m]	29.2	14.1	8.8	7.0	4.1	2.7	1.9
Individual load (P) in centre of bay [kN]	10.1	7.1	5.7	5.1	4.0	3.3	2.7

* Working load



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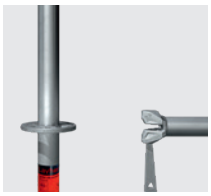
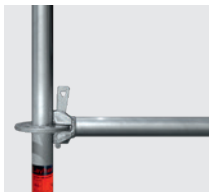
The wedge head design with AutoLock function of the **O-ledger LW** 1 means greater construction safety. By turning the ledger the function gets activated and the wedge descends into rosette slot automatically. Thanks to the reduction of the wall thickness comparing to former generations of ledgers there is a weight saving of 12 %. That leads to less strenuous working conditions. Additionally the bending strength got increased about 24 %.





4 / 5

Pos.	Description	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**O-ledger LW**				
	steel, with AutoLock function	0.39	1.9	250	2601.039
		0.45	2.1	250	2601.045
		0.73	2.9	400	2601.073
		0.86	3.3	50	2601.086
		0.90	3.4	50	2601.090
		1.04	3.8	50	2601.103
		1.09	4.0	50	2601.109
		1.29	4.6	50	2601.129
		1.40	5.0	50	2601.140
		1.57	5.5	50	2601.157
		2.07	7.0	50	2601.207
		2.57	8.5	50	2601.257
		3.07	10.1	50	2601.307
		4.14	13.4	50	2601.414
	steel, metric, with AutoLock function	0.25	1.4	300	2601.025
		0.50	2.2	250	2601.050
		1.00	3.7	50	2601.100
		1.50	5.3	50	2601.150
		2.00	6.8	50	2601.200
		2.50	8.3	50	2601.250
		3.00	9.9	50	2601.300
2	**O-ledger** aluminium	0.73	2.8	400	3201.073
		1.09	2.8	50	3201.109
		1.40	3.7	50	3201.140
		1.57	4.0	50	3201.157
		2.07	4.5	50	3201.207
		2.57	4.9	50	3201.257
		3.07	5.5	50	3201.307
3	**Scaffolding tube** steel, hot-dip galvanised Scaffolding tubes d=48.3 x 4.0 mm, as per DIN EN 39	0.50	2.3	250	4600.050
		1.00	4.5	61	4600.100
		1.50	6.8	61	4600.150
		2.00	9.0	61	4600.200
		2.50	11.3	61	4600.250
		3.00	13.5	61	4600.300
		3.50	15.8	61	4600.350
		4.00	18.1	61	4600.400
		5.00	22.7	61	4600.500
		6.00	27.3	61	4600.600
4	**U-ledger LW T14** steel	0.45	2.1	250	2618.045
		0.50	2.5	250	2618.050
		0.73	3.1	400	2618.073
		1.00	4.1	50	2618.100
		1.04	4.2	50	2618.103
		1.09	4.3	50	2618.109
		1.29	5.2	50	2618.129
		1.40	5.4	50	2618.139
5	**U-ledger** aluminium	0.73	1.5	400	3203.073

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U-ledger deck configuration

Bay width | Deck width	0.19 m			0.32 m			0.50 m			0.61 m		
Version	A	B	C	A	B	C	A	B	C	A	B	C
0.45 m	–	–	–	1	–	–	–	–	–	–	–	–
0.50 m	2	–	–	–	–	–	–	–	–	–	–	–
0.73 m	–	–	–	2	–	–	–	–	–	–	1	–
1.00 m	3	–	2	1	–	–	–	–	1	–	–	–
1.04 m	–	–	–	1	–	–	–	–	–	1	–	–
1.09 m	–	–	–	3	1	–	–	–	2	–	1	–
1.29 m	1	1	1	1	3	–	–	–	2	1	–	–
1.40 m	–	5	–	4	1	1	–	–	2	–	–	–
1.50 m	3	2	–	1	–	–	1	2	–	–	–	–
1.57 m	1	–	–	4	–	–	–	–	3	–	–	–
2.00 m	–	3	–	4	4	–	–	–	–	1	–	–
2.07 m	–	7	–	6	–	–	–	–	4	–	1	–
2.50 m	1	4	–	5	5	–	–	–	–	1	–	–
2.57 m	1	–	–	7	–	–	–	–	5	–	–	–
3.00 m	2	–	2	6	9	–	–	–	5	1	–	–
3.07 m	7	1	–	5	1	–	–	–	6	–	4	–

Example: A 1.09 m wide bay can be covered with 3x 0.32 m decks (Version A) or 1x 0.61 m + 1x 0.32 m decks (Version B).

Loading capacity U-ledger LW T14, steel*

Ledger type and length [m]	U-LW 0.73	U-LW 1.09	U-LW 1.40
Evenly distributed line load q [kN/m]	19.0	17.5	10.8
Individual load P in bay centre [kN]	6.1	8.6	6.4

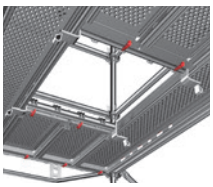
Loading capacity U-ledger reinforced LW T14*

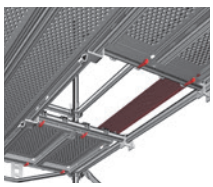
Ledger type and length [m]	1.40	1.57	2.07	2.57	3.07
Evenly distributed line load q [kN/m]	19.8	17.7	13.0	8.4	5.0
Individual load P in bay centre [kN]	19.2	17.1	12.9	10.4	8.7

Loading capacity O-ledger reinforced LW*

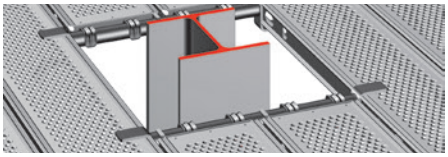
Ledger type and length [m]	1.09	1.40	1.57	2.07	2.57	3.07
Evenly distributed line load q [kN/m]	21.4	17.1	16.1	11.1	8.5	6.0
Individual load P in bay centre [kN]	19.6	19.4	17.3	13.2	10.7	9.0

* permissible working load





Openings, accesses and even conversions are easily constructed with **U- and O-ledgers** 9–12 with lateral receiving elements.



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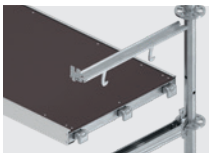
Spigots for further vertical construction can be found on page 49.



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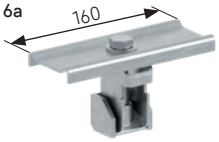
The U-Lift-off preventer is for U-ledgers, U-bridging ledgers, U-ledgers reinforced and U-lattice beams. It serves to prevent scaffolding decks from being lifted off.

6a



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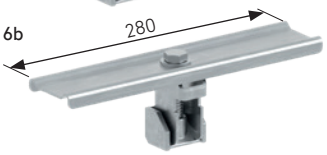
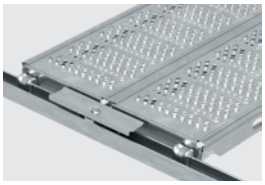
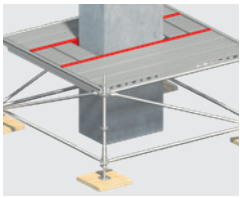
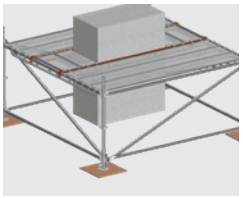


Securing of one deck



Securing of two decks





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The use of the interchangeable ledger in O-variant can be made by use of the Speedy Vario anchoring ledger LW (Ref. No. 1754.xxx). Learn more in the catalogue SpeedyScaf.

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Pos.		Description	WS [mm]	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1		**U-ledger reinforced LW T14**					
		steel		1.40	8.9	50	2618.140
				1.57	9.4	50	2618.157
				2.07	12.7	50	2618.207
				2.57	15.7	50	2618.257
				3.07	19.0	50	2618.307
		steel, metric		2.00	12.5	50	2618.200
				2.50	15.5	50	2618.250
				3.00	18.5	50	2618.300
2		**U-bridging ledger** aluminium		1.57	4.3	50	3207.157
				2.07	5.5	50	3207.207
3		**U-ledger reinforced** aluminium		1.09	3.7	50	3203.109
				1.40	4.5	50	3203.140
4		**U-Lift-off preventer T8**		0.39	0.6	250	2635.039
				0.45	0.7	250	2635.045
				0.50	0.8	250	2635.050
				0.73	1.3	250	2635.073
				1.00	1.7	50	2635.100
				1.09	1.8	50	2635.109
				1.29	2.1	50	2635.129
5		**U-Lock against lift-off T9**		1.40	5.3	50	2658.140
				1.57	5.9	50	2658.157
				2.07	7.9	50	2658.207
				2.57	9.9	50	2658.257
				3.07	11.9	50	2658.307
6	a	**Universal U-Lift-off preventer**	19	0.16	0.7	250	2635.002
			22	0.16	0.7	250	2635.003
	b		19	0.28	1.0	250	2635.000
			22	0.28	1.0	250	2635.001
7		**U-interchangeable ledger LW** steel, galvanised		0.73	2.9	100	2600.073
				1.09	4.2	20	2600.109
8		**U-interchangeable ledger LW reinforced** steel, galvanised		1.40	8.7	50	2600.140
				1.57	9.5	20	2600.157
				2.07	12.5	20	2600.207
				2.57	15.5	20	2600.257
				3.07	18.5	20	2600.307
9		**U-ledger steel deck – steel deck** for connection on both sides to the steel deck flank, with securing flaps, loadable up to load class 3, up to steel decks of 3.07 m		0.32	3.1	100	2614.030
				0.64	4.3	50	2614.073
				0.96	5.5	50	2614.108
10		**U-ledger steel deck – O-ledger** one side for connection to the steel flank, with securing flap, the other side for connection to an O-ledger, with securing wedge		0.32	3.3	100	2614.001
				0.64	4.4	50	2614.002
				0.96	6.5	50	2614.004
11		**O-ledger steel deck – steel deck** for connection on both sides to the steel deck flank, with securing flaps, loadable up to load class 3, up to steel decks of 3.07 m		0.32	3.1	100	2614.069
				0.64	4.2	50	2614.070
				0.96	5.2	50	2614.071
12		**O-ledger steel deck – O-ledger** one side for connection to the steel flank, with securing flap, the other side for connection to an O-ledger, with securing wedge		0.32	2.4	100	2614.032
				0.64	4.4	50	2614.064
				0.96	5.5	50	2614.096
13		**Guardrail, adjustable** for use in compensation bays		1.09 – 1.57	5.7	50	2606.001
				1.57 – 2.57	8.5	50	2606.000
14		**O-bridging ledger LW** steel		1.09	5.9	50	2672.109
				1.40	7.7	50	2672.140
				1.57	8.7	50	2672.157
				2.07	11.4	50	2672.207
				2.57	14.3	50	2672.257
				3.07	17.0	50	2672.307

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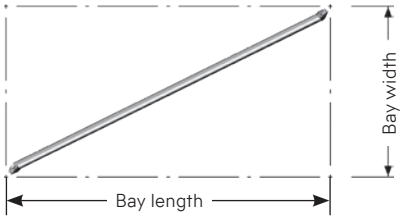
Diagonal bracing

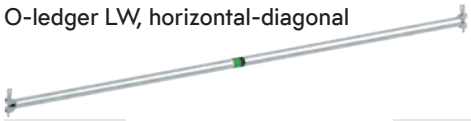


The **O-ledger LW, horizontal-diagonal,** with wedge heads serves to brace horizontal levels in scaffolding without standard decks or in scaffolding with board decking.

The diagonal braces LW with wedge locks further brace the basic system consisting of standards and ledgers, and thanks to their high connection values also facilitate special structures.

The bay length is displayed in numbers and by a defined colour code. Number of rosettes tell you which standard is used. The colour codes are valid for bay heights of 0.50 m, 1.00 m, 1.50 m and 2.00 m. **Labels can be reordered.**

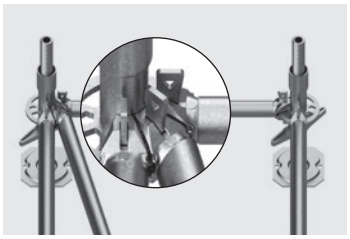
O-ledger LW, horizontal-diagonal



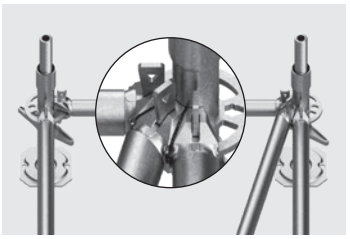
For rectangular floor plan, with offset welded wedge heads

For square floor plan, with straight welded wedge heads

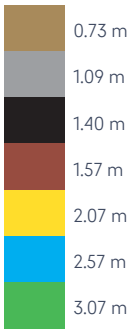
Distinction between right and left horinzontal diagonal brace



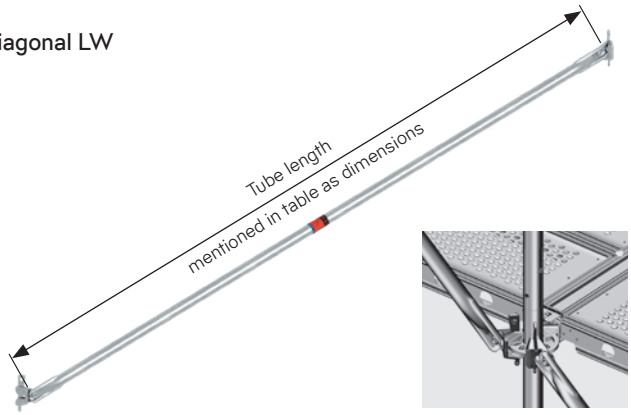
From top view, the wedge head of a left horizontal diagonal brace points to the left side.



From top view, the wedge head of a right horizontal diagonal brace points to the right side.



Diagonal LW



Pos.	Description	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**O-ledger LW, horizontal-diagonal, steel**				
	for 1.09 m bay length, 1.09 m bay width	1.54	5.5	50	2678.109
	for 1.29 m bay length, 1.29 m bay width	1.82	6.5	50	2678.129
	for 1.57 m bay length, 1.09 m bay width, right	1.91	6.7	50	2678.158
	for 1.57 m bay length, 1.57 m bay width	2.20	7.7	50	2678.157
	for 2.00 m bay length, 1.00 m bay width, left	2.23	7.8	50	2678.201
	for 2.00 m bay length, 2.00 m bay width	2.83	9.6	50	2678.200
	for 2.07 m bay length, 0.73 m bay width, left	2.19	7.8	50	2678.208
	for 2.07 m bay length, 1.04 m bay width, left	2.32	8.1	50	2678.206
	for 2.07 m bay length, 1.09 m bay width, right	2.34	8.1	50	2678.209
	for 2.07 m bay length, 1.57 m bay width, left	2.60	9.2	50	2678.205
	for 2.07 m bay length, 2.07 m bay width	2.93	10.0	50	2678.207
	for 2.57 m bay length, 0.73 m bay width, left	2.67	9.3	50	2678.258
	for 2.57 m bay length, 1.09 m bay width, right	2.79	9.6	50	2678.259
	for 2.57 m bay length, 1.57 m bay width, right	3.01	10.3	50	2678.256
	for 2.57 m bay length, 2.07 m bay width	3.30	11.2	50	2678.255
	for 2.57 m bay length, 2.57 m bay width	3.64	12.2	50	2678.257
	for 3.07 m bay length, 0.73 m bay width, left	3.16	10.9	50	2678.308
	for 3.07 m bay length, 1.09 m bay width, right	3.26	11.1	50	2678.309
	for 3.07 m bay length, 3.07 m bay width	4.34	14.5	50	2678.307

Pos.	Description	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**Diagonal brace LW, steel, 2.00 m bay height**				
	0.73 m bay length	2.12	7.1	50	2683.073
	1.04 m bay length	2.23	7.6	50	2683.104
	1.09 m bay length	2.25	7.6	50	2683.109
	1.29 m bay length	2.35	7.8	50	2683.129
	1.40 m bay length	2.40	7.9	50	2683.140
	1.57 m bay length	2.49	8.2	50	2683.157
	2.07 m bay length	2.81	9.2	50	2683.207
	2.57 m bay length	3.18	10.0	50	2683.257
	3.07 m bay length	3.58	11.1	50	2683.307
	4.14 m bay length	4.51	13.7	50	2683.414
	1.00 m bay length	2.22	7.3	50	2683.100
	2.00 m bay length	2.76	9.1	50	2683.200
	2.50 m bay length	3.12	9.9	50	2683.250
	3.00 m bay length	3.52	11.0	50	2683.300
2	**Diagonal brace LW, steel, 1.50 m bay height**				
	0.73 m bay length	1.65	5.8	50	2682.073
	1.04 m bay length	1.79	6.2	50	2682.104
	1.09 m bay length	1.81	6.3	50	2682.109
	1.29 m bay length	1.92	6.7	50	2682.129
	1.40 m bay length	1.99	6.8	50	2682.140
	1.57 m bay length	2.11	7.3	50	2682.157
	2.07 m bay length	2.48	8.2	50	2682.207
	2.57 m bay length	2.89	9.5	50	2682.257
	3.07 m bay length	3.32	10.5	50	2682.307
	1.00 m bay length	1.77	6.2	50	2682.100
	2.00 m bay length	2.42	8.0	50	2682.200
	2.50 m bay length	2.83	9.0	50	2682.250
	3.00 m bay length	3.26	10.3	50	2682.300
3	**Diagonal brace LW, steel, 1.00 m bay height**				
	0.73 m bay length	1.20	4.8	50	2681.073
	1.04 m bay length	1.39	5.1	50	2681.104
	1.09 m bay length	1.41	5.2	50	2681.109
	1.29 m bay length	1.55	5.6	50	2681.129
	1.40 m bay length	1.64	5.8	50	2681.140
	1.57 m bay length	1.79	6.2	50	2681.157
	2.07 m bay length	2.20	7.4	50	2681.207
	2.57 m bay length	2.66	8.6	50	2681.257
	3.07 m bay length	3.13	9.9	50	2681.307
	1.00 m bay length	1.36	5.0	50	2681.100
	2.00 m bay length	2.14	7.2	50	2681.200
	2.50 m bay length	2.59	8.5	50	2681.250
	3.00 m bay length	3.06	9.7	50	2681.300
4	**Diagonal brace LW, steel, 0.50 m bay height**				
	0.73 m bay length	0.75	3.6	50	2680.073
	1.04 m bay length	1.08	4.2	50	2680.104
	1.09 m bay length	1.10	4.4	50	2680.109
	1.29 m bay length	1.29	4.9	50	2680.129
	1.40 m bay length	1.38	5.1	50	2680.140
	1.57 m bay length	1.55	5.6	50	2680.157
	2.07 m bay length	2.03	6.9	50	2680.207
	2.57 m bay length	2.51	8.2	50	2680.257
	3.07 m bay length	3.00	9.6	50	2680.307
	1.00 m bay length	1.03	4.3	50	2680.100
	2.00 m bay length	1.96	6.7	50	2680.200
	2.50 m bay length	2.44	8.1	50	2680.250
	3.00 m bay length	2.93	9.4	50	2680.300
5	**Diagonal brace, aluminium, 2.00 m bay height**				
	0.73 m bay length	2.12	3.9	50	3204.073
	1.09 m bay length	2.25	4.0	50	3204.109
	1.40 m bay length	2.40	4.2	50	3204.140
	1.57 m bay length	2.49	4.3	50	3204.157
	2.07 m bay length	2.81	4.7	50	3204.207
	2.57 m bay length	3.18	4.9	50	3204.257
	3.07 m bay length	3.58	5.3	50	3204.307

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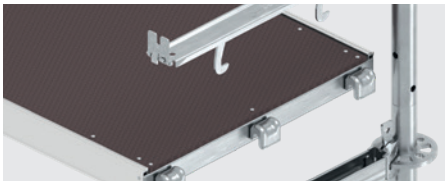
U-Scaffolding decks

Our scaffolding decks comply with the requirements of DIN EN 12811.



Depending on the type of application and scaffolding group but also in accordance with your working requirements and priorities, choose from decks made of, aluminium, steel or an aluminium frame with plywood or plastic board. The load-bearing capacity of the overall system must be observed. The claws of the Layher scaffolding decks slide easily during assembly into the U-sections of the transverse ledgers, ensuring unbeatable speed of assembly.

The **U-steel deck LW** 1 fulfils high load-bearing capacities with a considerably lower weight, thanks to the use of high-tensile steel and intelligent combination of perforation and profiling.

CO_2-reduced steel deck variant LW

Less CO_2 means more sustainability. The steel deck LW is also available in a CO_2-reduced version. When you purchase the CO_2-reduced version, you will receive a confirmation and a declaration of the CO_2 footprint for each item - with a TÜV stamp. Please contact us.

Further information can be found in the Layher Info 'CO_2-reduced steel deck LW'.

The **U-Xtra-N deck** 3 is identical in construction with the robust deck, but is equipped with a glass- fibrereinforced plastic plate. It is very weather-resistant. The surface has a proven anti-slip structure, which is very easy to clean. Plaster and dirt can be easily removed by using a high-pressure cleaner or a scraper.

The **U-stalu deck** 5–8, is an extremely lightweight and durable aluminium deck with a sturdy, riveted steel cap.

Individual stamping

The Layher steel decks can be provided with individual lettering. Conspicuously visible on the side section.

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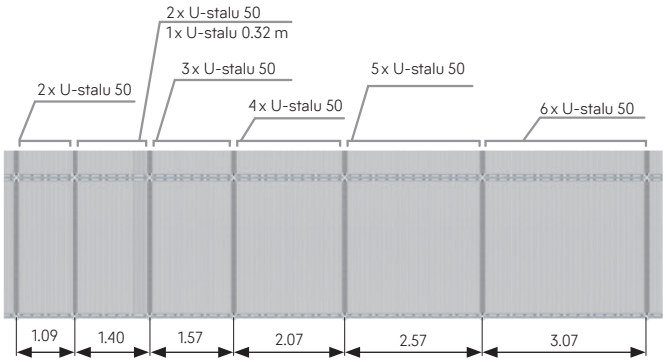
U-stalu deck 50 in surface scaffolding



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9

Pos.	Description		LC	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**U-steel deck LW, 0.32 m wide** steel, hot-dip galvanised, perforated, non-slip working surface	IND	6	0.73 × 0.32	5.6	60	3883.073
		IND	6	1.00 × 0.32	7.2	60	3883.100
		IND	6	1.04 × 0.32	7.4	60	3883.104
		IND	6	1.09 × 0.32	7.7	60	3883.109
		IND	6	1.29 × 0.32	8.6	60	3883.129
		IND	6	1.40 × 0.32	9.3	60	3883.140
		IND	6	1.50 × 0.32	10.1	60	3883.150
		IND	6	1.57 × 0.32	10.5	60	3883.157
		IND	6	2.00 × 0.32	12.9	60	3883.200
		IND	6	2.07 × 0.32	13.4	60	3883.207
		IND	5	2.50 × 0.32	15.9	60	3883.250
		IND	5	2.57 × 0.32	16.4	60	3883.257
		IND	4	3.00 × 0.32	18.8	60	3883.300
		IND	4	3.07 × 0.32	19.3	60	3883.307
		IND	3	4.14 × 0.32	25.6	60	3883.414
2	**U-steel deck, 0.19 m wide** constructed as 3812, as equalising deck, e.g. for birdcage scaffolding	IND	6	0.73 × 0.19	5.1	50	3801.073
		IND	6	1.09 × 0.19	6.4	50	3801.109
		IND	6	1.29 × 0.19	7.4	50	3801.129
		IND	6	1.40 × 0.19	8.0	50	3801.140
		IND	6	1.57 × 0.19	8.5	50	3801.157
		IND	6	2.07 × 0.19	10.2	50	3801.207
		IND	5	2.57 × 0.19	13.2	50	3801.257
		IND	4	3.07 × 0.19	15.3	50	3801.307
3	**U-Xtra-N deck, 0.61 m wide** aluminium stile section, glass-fibre-reinforced plastic plate, extremely durable, lightweight, non-slip working surface, easily stackable	IND	3	0.73 × 0.61	7.0	60	3866.073
		IND	3	1.09 × 0.61	9.5	60	3866.109
		IND	3	1.57 × 0.61	13.0	40	3866.157
		IND	3	2.07 × 0.61	16.2	40	3866.207
		IND	3	2.57 × 0.61	19.0	40	3866.257
		IND	3	3.07 × 0.61	22.5	40	3866.307
4	**U-Xtra-N deck, 0.32 m wide** constructed as Ref. No. 3866, as console or equalising deck, e.g. for birdcage scaffolding	IND	6	1.57 × 0.32	8.5	30	3877.157
		IND	5	2.07 × 0.32	10.7	30	3877.207
		IND	4	2.57 × 0.32	13.0	30	3877.257
		IND	3	3.07 × 0.32	15.2	30	3877.307
5	**U-stalu deck T21, 0.61 m wide** lightweight aluminium deck with sturdy, riveted steel caps	IND	6	0.73 × 0.61	6.7	34	3898.073
		IND	6	1.09 × 0.61	9.0	34	3898.109
		IND	6	1.40 × 0.61	11.0	34	3898.140
		IND	6	1.57 × 0.61	12.1	34	3898.157
		IND	6	2.07 × 0.61	15.3	34	3898.207
		IND	5	2.57 × 0.61	18.5	34	3898.257
		IND	4	3.07 × 0.61	21.7	34	3898.307
6	**U-stalu deck 50** for quick and economical decking of surface 1.09 m wide facade scaffolding with 2 decks or in surface scaffolding	IND	6	0.73 × 0.50	6.0	34	3855.073
		IND	6	1.09 × 0.50	8.0	34	3855.109
		IND	6	1.40 × 0.50	9.7	40	3855.140
		IND	6	1.57 × 0.50	10.3	34	3855.157
		IND	6	2.07 × 0.50	13.1	34	3855.207
		IND	5	2.57 × 0.50	15.9	34	3855.257
		IND	4	3.07 × 0.50	18.6	34	3855.307
7	**U-stalu deck T9, 0.32 m wide** as equalizing deck, e.g. for birdcage scaffolding	IND	6	1.57 × 0.32	7.4	30	3856.157
		IND	6	2.07 × 0.32	9.2	30	3856.207
		IND	5	2.57 × 0.32	11.0	30	3856.257
		IND	4	3.07 × 0.32	13.3	30	3856.307
8	**U-stalu deck T9, 0.19 m wide** as equalizing deck, e.g. for birdcage scaffolding	IND	6	1.57 × 0.19	5.6	50	3857.157
		IND	6	2.07 × 0.19	7.2	50	3857.207
		IND	5	2.57 × 0.19	8.7	50	3857.257
		IND	4	3.07 × 0.19	10.2	50	3857.307
9	**U-alu deck, perforated, 0.32 m wide** deck and caps of aluminium with robust steel claws, perforated, non-slip working surface		6	0.73 × 0.32	3.1	60	3803.073
			6	1.09 × 0.32	4.4	60	3803.109
			6	1.57 × 0.32	6.5	60	3803.157
			5	2.07 × 0.32	8.0	60	3803.207
			4	2.57 × 0.32	10.0	60	3803.257
			3	3.07 × 0.32	11.5	60	3803.307

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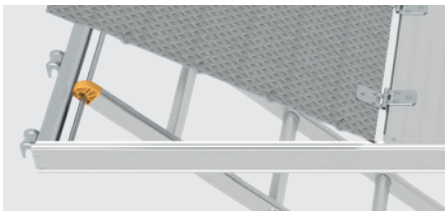
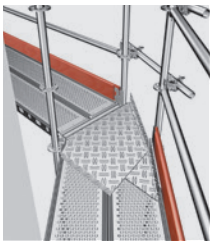
= delivery time on request = only available in this packaging unit = the approval process is not yet completed

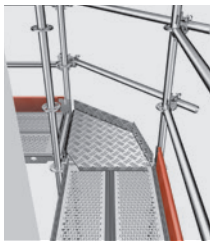
Internal accesses can be built into the scaffolding with the access decks. These decks conform to the requirements of DIN EN 12811 and are available with a separate or an integrated access ladder for internal access.



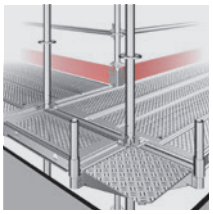
In the case of circular scaffolding, the corners are covered with the **corner deck, adjustable,** with toe board 9. System-conforming covers are thus no longer a problem. You obtain a continuous walk surface with integrated toe board.



Installation situation 45° 9



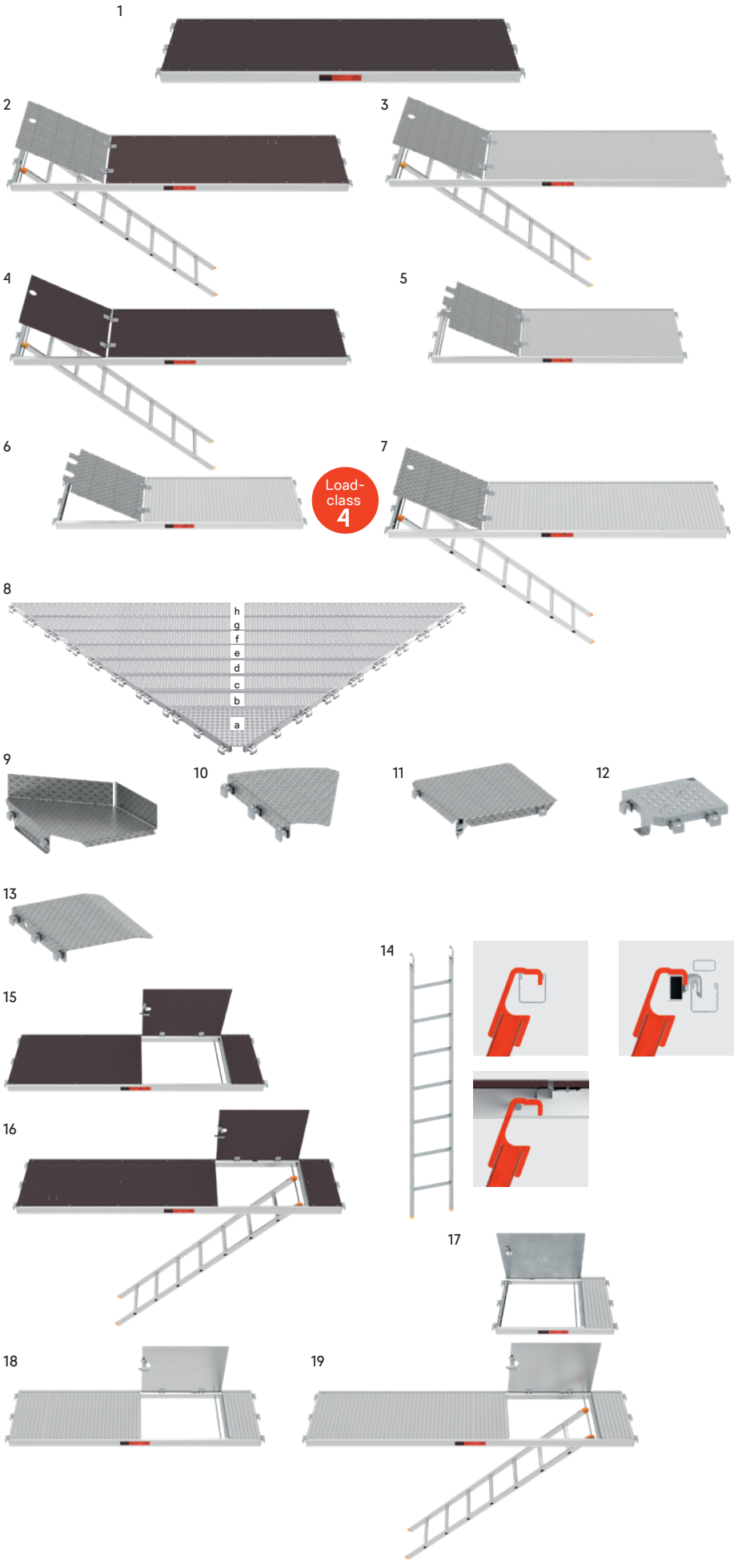
Installation situation 90° 9



Installation situation 90° 11

The **access ladder, T19** 14 is a flexible aid to climbing inside the scaffolding to a storey height of 2 m.

Installation situation U-robust access deck with hatch offset 16



Pos.	Description		LC	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**U-robust deck, 0.61 m wide** aluminium stile section, plywood panel BFU 100G, phenolic resin coating and rot protection, lightweight, non-slip, easily stackable	IND	3	1.57 × 0.61	13.1	40	3835.157
		IND	3	2.07 × 0.61	16.4	40	3835.207
		IND	3	2.57 × 0.61	19.3	40	3835.257
		IND	3	3.07 × 0.61	22.6	40	3835.307
2	**U-Xtra-N access deck 0.61 m wide, with integrated access ladder** deck surface of glass-fibre-reinforced plastic, aluminium access hatch	IND	3	2.57 × 0.61	25.4	40	3869.257
		IND	3	3.07 × 0.61	29.5	40	3869.307
3	**U-aluminium access deck, 0.61 m wide, with integrated access ladder** lightweight access deck with aluminium deck surface and aluminium access hatch	IND	3	2.57 × 0.61	24.0	40	3852.257
		IND	3	3.07 × 0.61	28.0	40	3852.307
4	**U-robust access deck, 0.61 m wide, with integrated access ladder**	IND	3	2.57 × 0.61	24.0	40	3838.257
		IND	3	3.07 × 0.61	27.4	40	3838.307
5	**U-aluminium access deck, 0.61 m wide** lightweight access deck with aluminium deck surface and aluminium access hatch	IND	3	1.57 × 0.61	15.1	40	3851.157
		IND	3	2.07 × 0.61	17.0	40	3851.207
		IND	3	2.57 × 0.61	20.0	40	3851.257
		IND	3	3.07 × 0.61	24.5	40	3851.307
6	**U-aluminium access deck LC 4, 0.61 m wide** lightweight access deck with aluminium deck surface and aluminium access hatch	IND	4	1.57 × 0.61	15.6	40	3886.157
		IND	4	2.07 × 0.61	17.6	40	3886.207
		IND	4	2.57 × 0.61	20.8	40	3886.257
7	**U-aluminium access deck LC 4, 0.61 m wide, with integrated access ladder** lightweight access deck with aluminium deck surface and aluminium access hatch	IND	4	2.57 × 0.61	24.3	40	3885.257
8	**U-steel deck 45°**						
	type a	◆	3	0.80 × 0.35	8.6	60	3868.101
	type b	◆	3	1.17 × 0.19	6.4	50	3868.102
	type c	◆	3	1.56 × 0.19	7.9	50	3868.103
	type d	◆	3	1.94 × 0.19	9.7	50	3868.104
	type e	◆	3	2.33 × 0.19	11.5	50	3868.105
	type f	◆	3	2.71 × 0.19	13.3	50	3868.106
	type g	◆	3	3.09 × 0.19	16.8	50	3868.107
	type h	◆	3	3.48 × 0.19	18.6	50	3868.108
9	**Corner deck, adjustable** steel, for angles from 45° – 90°, with toe board		3	0.61	21.5	30	3819.000
10	**U-corner deck for circular scaffolding 30°**		6	0.73	8.5	120	3868.000
11	**U-corner deck**						
	steel for 0.36 m wide scaffolding	◆	3	0.39 × 0.39	6.4	50	2630.037
	steel, for 0.73 m wide scaffolding	◆	3	0.73 × 0.73	20.8	30	2630.070
12	**U-console corner deck**	◆		0.19 × 0.19	2.1	100	3868.319
		◆		0.32 × 0.32	3.7	50	3868.332
13	**U-deck for equalisation bay** for bridings up to 0.50 m		6	0.50 × 0.19	4.7	100	3868.019
			6	0.50 × 0.32	7.5	100	3868.032
			6	0.50 × 0.61	14.8	100	3868.061
14	**Access ladder T19** steel, 7 rungs			2.15 × 0.35	7.6	70	4009.007
15	**U-robust hatch-type access deck, 0.61 m wide, hatch offset** aluminium stile section, plywood panel BFU 100G, phenolic resin coating and rot protection, lightweight, non-slip, easily stackable	IND	3	1.57 × 0.61	14.2	40	3858.157
		IND	3	2.07 × 0.61	17.2	40	3858.207
16	**U-robust hatch-type access deck, 0.61 m wide, hatch offset, with integrated access ladder** aluminium stile section, plywood panel BFU 100G, phenolic resin coating and rot protection, lightweight, non-slip, easily stackable	IND	3	2.57 × 0.61	25.2	40	3859.257
		IND	3	3.07 × 0.61	28.4	40	3859.307
17	**U-aluminium access deck, 1.00 m long** lightweight access deck with aluminium deck surface and aluminium access hatch	IND	3	1.00 × 0.61	10.0	40	3851.100
18	**U-aluminium access deck, 0.61 m wide, hatch offset** lightweight access deck with aluminium deck surface and aluminium access hatch	IND	3	2.07 × 0.61	17.6	40	3875.207
19	**U-aluminium access deck, 0.61 m wide, hatch offset, with integrated access ladder** lightweight access deck with aluminium deck surface and aluminium access hatch	IND	3	2.57 × 0.61	25.0	40	3875.257
		IND	3	3.07 × 0.61	29.0	40	3875.307

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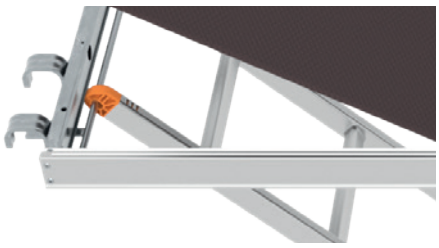
O-Scaffolding decks



Individual stamping

The Layher steel decks can be provided with individual lettering. Conspicuously visible on the side section, they give the Layher steel deck that certain something. These customised stampings also offer you high-quality theft protection.

Similar to the steel decks also the Stalu, Xtra-N and robust decks can be individualized. The stamping is particularly high-quality. The needle stamping process provides fine and very precise lettering.

CO2-reduced steel deck variant LW

Less CO_2 means more sustainability. The steel deck LW is also available in a CO_2-reduced version. When you purchase the CO_2-reduced version, you will receive a confirmation and a declaration of the CO_2 footprint for each item - with a TÜV stamp. Please contact us.

Further information can be found in the Layher Info 'CO_2-reduced steel deck LW'.

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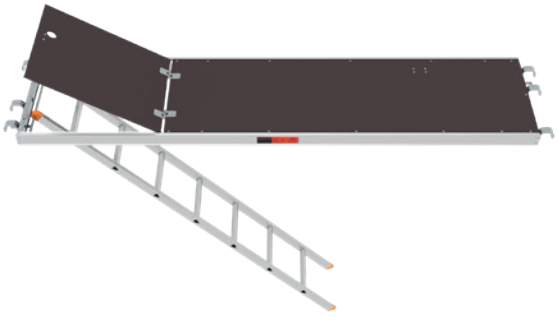

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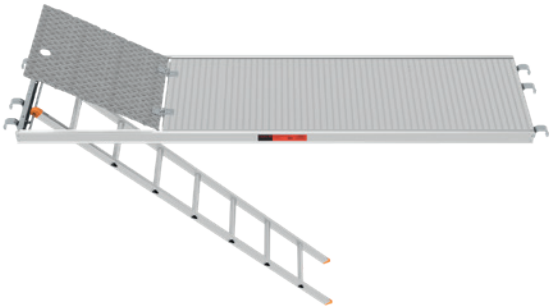

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Pos.	Description		LC	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**O-steel deck LW, 0.32 m wide** steel, hot-dip galvanised, with integrated swivelling lift-off and tilt preventer, perforated, non-slip working surface	IND	6	0.73 × 0.32	6.4	30	3890.073
		IND	6	1.00 × 0.32	7.6	30	3890.100
		IND	6	1.09 × 0.32	8.5	30	3890.109
		IND	6	1.29 × 0.32	9.3	30	3890.129
		IND	6	1.40 × 0.32	10.1	30	3890.140
		IND	6	1.50 × 0.32	10.8	30	3890.150
		IND	6	1.57 × 0.32	11.3	30	3890.157
		IND	6	2.00 × 0.32	13.7	30	3890.200
		IND	6	2.07 × 0.32	14.2	30	3890.207
		IND	5	2.50 × 0.32	16.9	30	3890.250
		IND	5	2.57 × 0.32	17.2	30	3890.257
		IND	4	3.00 × 0.32	19.6	30	3890.300
		IND	4	3.07 × 0.32	20.1	30	3890.307
2	**O-steel deck T9, 0.19 m wide** steel, hot-dip galvanised, with integrated swivelling lift-off and tilt preventer, perforated, non-slip working surface	IND	6	0.73 × 0.19	5.0	50	3863.073
		IND	6	1.09 × 0.19	7.0	50	3863.109
		IND	6	1.40 × 0.19	7.6	50	3863.140
		IND	6	1.57 × 0.19	8.4	50	3863.157
		IND	6	2.07 × 0.19	10.7	50	3863.207
		IND	5	2.57 × 0.19	13.0	50	3863.257
		IND	4	3.07 × 0.19	18.2	50	3863.307
3	**O-stalu deck T21** lightweight aluminium deck with sturdy, riveted steel caps	IND	6	1.57 × 0.61	12.9	30	3888.157
		IND	6	2.07 × 0.61	16.1	30	3888.207
		IND	5	2.57 × 0.61	19.3	30	3888.257
		IND	4	3.07 × 0.61	22.5	30	3888.307
4	**O-robust deck T9, 0.61 m wide** aluminium stile section, plywood panel BFU 100G, phenolic resin coating and rot protection, lightweight, non-slip, easily stackable	IND	3	0.73 × 0.61	8.7	60	3870.073
		IND	3	1.09 × 0.61	11.2	60	3870.109
		IND	3	1.57 × 0.61	14.6	40	3870.157
		IND	3	2.07 × 0.61	17.9	40	3870.207
		IND	3	2.57 × 0.61	21.9	40	3870.257
		IND	3	3.07 × 0.61	26.5	40	3870.307
5	**O-robust access deck T9, 0.61 m wide** with integrated access ladder	IND	3	2.57 × 0.61	25.9	40	3872.257
		IND	3	3.07 × 0.61	29.7	40	3872.307
6	**O-corner deck** steel, for 0.36 m wide scaffolding		3	0.34 × 0.34	6.9	50	2630.040
7	**Access ladder T19** steel, 7 rungs			2.15 × 0.35	7.6	70	4009.007
8	**O-access deck T9** aluminium 0.61 m wide, easy access with aluminium deck surface and aluminium access hatch	IND	3	1.57 × 0.61	14.9	40	3871.157
		IND	3	2.07 × 0.61	17.9	40	3871.207
9	**O-access deck** aluminium, 0.61 m wide with integrated access ladder	IND	3	2.57 × 0.61	26.5	40	3874.257
10	**O-access deck T9, 1.00 m long** aluminium 0.61 m wide, easy access with aluminium deck surface and aluminium access hatch	IND	3	1.00 × 0.61	10.0	40	3871.100

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Steel plank, cover plates

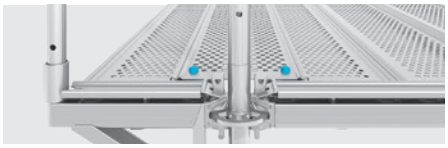
The **steel plank** 1 is a very safe bridging element capable of bearing high loads for all scaffolding systems. It is preferred to wooden planks for use in areas with stringent fire protection requirements.

The **steel plank Xtra-Slim** 2

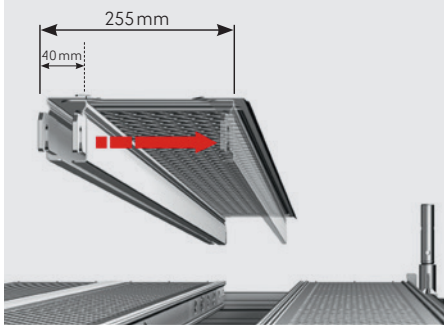
- Comfortable working environment with secure footing even at bridging structures in corner areas thanks to the low component height of only 20 mm, the proven surface structure and ease of securing.
- Ergonomic installation and removal thanks to the low weight of only 5.2 kg.
- Effective up to load class 6 and versatile enough to be used in bridging structures with spans of up to 80 cm.
- Rapid return on investment and resource-friendly in use thanks to long service life and flexible, system-independent usage in the Allround, AGS and SpeedyScaf systems.

The support length must be at least 10 cm at every support.

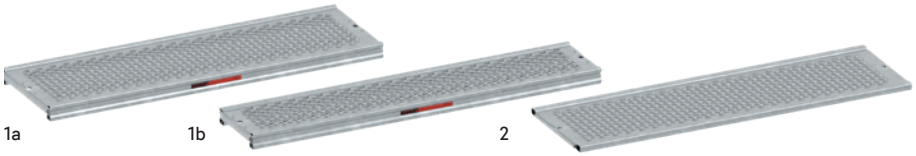
Every plank has to be secured at every bearing point with two **locking pins** 3 agains slipping and lifting-off. If **securing screws** 4 are used, one screw per end is enough.



The **cover plate 320** 5/6 can be used between two scaffolding decks on SpeedyScaf and Allround Scaffolding. For use on openings widths up to 20 cm.

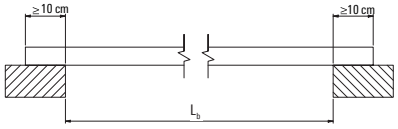


To create a completely closed deck surface, the **telescoping U-system deck** 7 can be used.

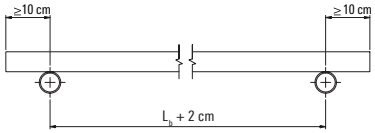


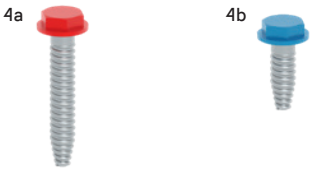
Bridging length for steel planks

plane bearing



punctual bearing

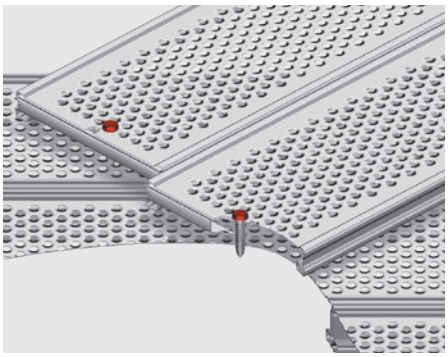




Maximum span L_b dependable on the used load class

	Permissible p[1]	max L_b	
	[kN/m²]	steel plank 300	steel plank 200
Load class 3	2.0	2.80	
Load class 4	5.0	2.10	2.43
Load class 5	7.5	1.73	2.10
Load class 6	10.0	1.50	1.82

1) on the whole deck surface



Pos.		Description		LC	WS [mm]	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1		**Steel plank**							
	a	0.30 m system-free, completely made of hot-dip galvanised steel		6		1.00 × 0.30	6.3	30	3880.100
				6		1.50 × 0.30	9.3	30	3880.150
				4		2.00 × 0.30	12.3	30	3880.200
				3		2.50 × 0.30	15.3	30	3880.250
			◀	3		3.00 × 0.30	18.5	30	3880.300
	b	0.20 m system-free, completely made of hot-dip galvanised steel		6		1.00 × 0.20	4.8	100	3878.100
				6		1.50 × 0.20	7.2	100	3878.150
				6		2.00 × 0.20	9.5	100	3878.200
				4		2.50 × 0.20	11.8	100	3878.250
			◀	3		3.00 × 0.20	14.8	50	3878.300
2		**Steel plank Xtra-Slim** 2 cm high, 0.30 m system-free, completely made of hot-dip galvanised steel	◀	6		1.00 × 0.30	5.2	30	3887.100
3		**Locking pin for steel plank** d=11 mm not for multiple use				0.08	0.5	100 ▦	3800.013
4		**Securing screw**							
	a	long (red), steel galvanised, for securing of steel planks on steel decks			19	0.08 × 0.03	4.0	50 ▦	3800.016
					22	0.08 × 0.03	3.9	50 ▦	3800.017
	b	short (blue), steel galvanised, for securing of cover plate 320 on steel decks			19	0.04 × 0.02	2.3	50 ▦	3800.018
					22	0.04 × 0.02	2.3	50 ▦	3800.019
5		**Cover plate 320, steel, 0.32 m**							
		for 0.73 m bay length		6		0.73 × 0.32	2.6	150	3881.000
		for 1.09 m bay length		6		1.09 × 0.32	3.8	150	3881.001
		for 1.57 m bay length		6		1.57 × 0.32	4.2	100	3881.002
		for 2.07 m bay length		6		2.07 × 0.32	6.3	100	3881.003
		for 2.57 m bay length		6		2.57 × 0.32	8.5	100	3881.004
		for 3.07 m bay length		6		3.07 × 0.32	12.0	100	3881.005
6		**Cover plate 320 with hooks, 0.32 m**							
		for 1.57 m bay length		6		1.57 × 0.32	4.5	100	3882.157
		for 2.07 m bay length		6		2.07 × 0.32	6.6	100	3882.207
		for 2.57 m bay length		6		2.57 × 0.32	8.8	100	3882.257
		for 3.07 m bay length		6		3.07 × 0.32	12.3	100	3882.307
7		**Telescoping U-system deck** closes openings from 40 to 255 mm, continously adjustable		6		0.73	5.2	40	3881.073
				6		1.09	7.8	40	3881.109
				6		1.40	10.1	40	3881.140
				6		1.57	11.4	40	3881.157
				6		2.07	14.9	40	3881.207
				5		2.57	18.6	40	3881.257
				4		3.07	22.3	40	3881.307
8		**U-deck 110** 0.11 m with wedge heads				0.73	4.5	150	2602.073
						1.09	5.9	50	2602.109
						1.40	6.9	50	2602.140
						1.57	7.8	50	2602.157
						2.07	8.5	50	2602.207
						2.57	10.1	50	2602.257
						3.07	13.5	50	2602.307
9		**U-cover ledger 80 LW** for a closed decking on surface scaffolding with the stalu-deck 50				0.73 × 0.08	4.6	200	2677.073
						1.09 × 0.08	6.7	50	2677.109
						1.40 × 0.08	8.5	50	2677.140
						1.57 × 0.08	9.5	50	2677.157
						2.07 × 0.08	12.4	50	2677.207
						2.57 × 0.08	15.4	50	2677.257

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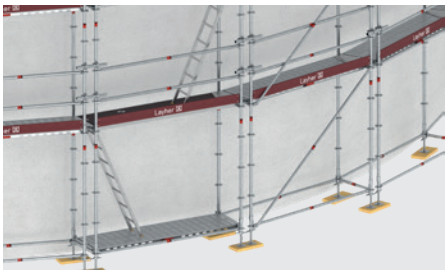
Toe boards

The **O-board bearer** 1 is used to provide trip-proof 1 decking surfaces with boards. For use of scaffolding boards see DIN 4420. Accesses with O-decks can also be provided.



The U-ledger LW, 0.73 m, 15° – 44°, WS 19 3 permitsl ow angles in large circular scaffolding structures.

The three-part side protection in the scaffolding bay and at the ends of the scaffolding is completed with toe boards. The fitting is positioned between vertical standard and wedge.

Individual toe boards

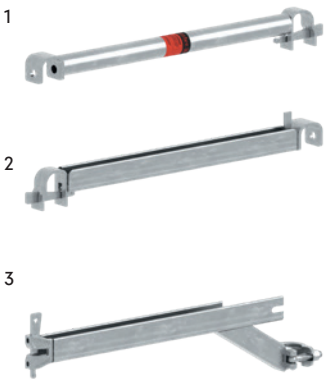
The toe boards can be personalised with your company name or logo and can be customised in terms of colour. RAL colour check on request.

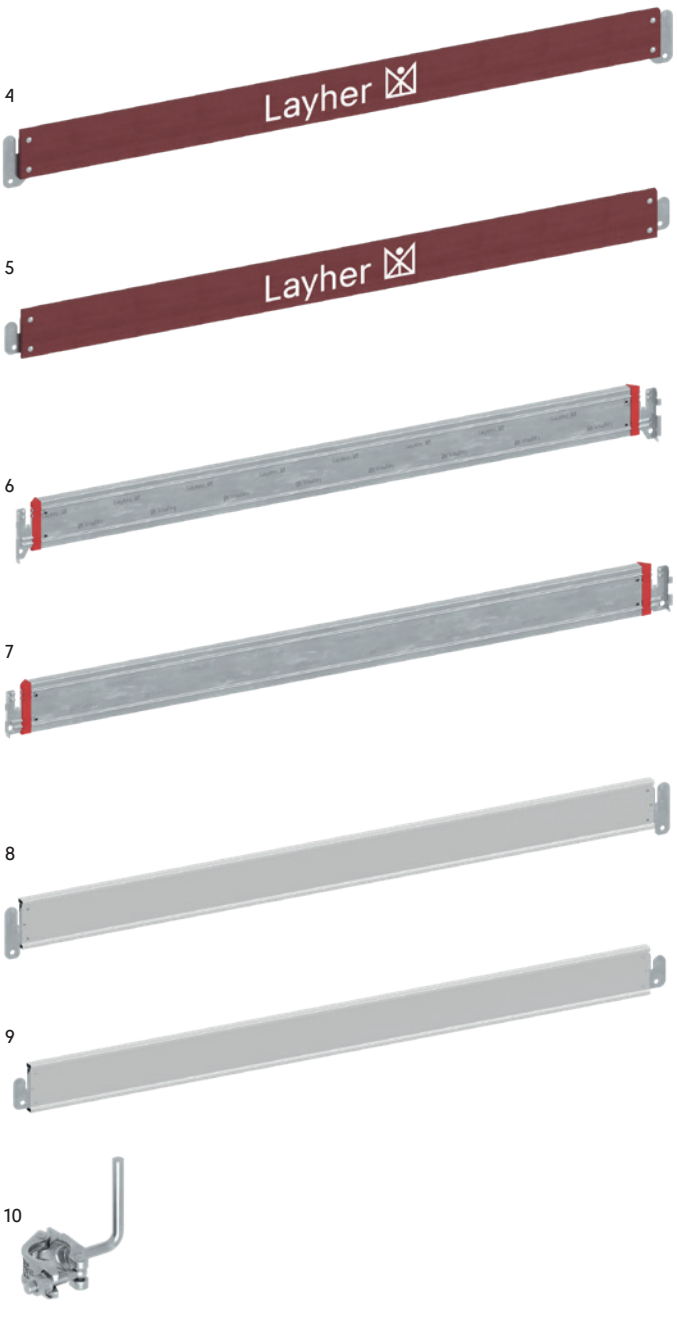
The **O-/U-steel toe board T18** 6/7 reduces the fire risk. The offset fittings permit a closed transition from the deck to the toe board. It features high stiffness and is easy to stack.

The **O-/U-toe board, aluminium** 8/9 is the lightweight alternative and can also be used in the case of special fire protection requirements..

Assembly of the wooden toe board

Assembly of the steel toe board



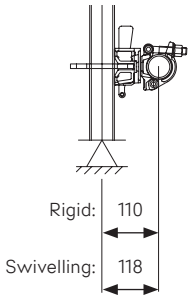


Pos.	Description		WS [mm]	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**O-board bearer** steel			0.73	3.7	50	2615.073
				1.09	4.6	50	2615.109
				1.40	5.3	50	2615.140
				1.57	7.4	50	2615.157
				2.07	10.3	50	2615.207
				2.57	12.5	50	2615.257
				3.07	15.0	50	2615.307
2	**U-board bearer** 0.73 m			0.73	3.6	50	2615.000
3	**U-ledger LW** 0.73 m, 15° – 44°		19	0.73	3.6	100	2618.000
4	**U-toe board, wood** for decks with U-insertion, for longitudinal and end sides	IND		0.73 × 0.15	1.9	140	2640.073
		IND		1.09 × 0.15	2.5	140	2640.109
		IND		1.40 × 0.15	3.1	140	2640.140
		IND		1.57 × 0.15	3.4	140	2640.157
		IND		2.07 × 0.15	4.3	140	2640.207
		IND		2.57 × 0.15	5.2	140	2640.257
		IND		3.07 × 0.15	6.1	140	2640.307
		IND		4.14 × 0.15	8.0	140	2640.414
5	**O-toe board, wood** for decks with O-insertion, for longitudinal and end sides	IND		0.73 × 0.15	1.7	140	2642.073
		IND		1.09 × 0.15	2.4	140	2642.109
		IND		1.40 × 0.15	2.9	140	2642.140
		IND		1.57 × 0.15	3.3	140	2642.157
		IND		2.07 × 0.15	4.1	140	2642.207
		IND		2.57 × 0.15	5.0	140	2642.257
		IND		3.07 × 0.15	5.9	140	2642.307
6	**U-steel toe board T18** for decks with U-insertion, for longitudinal and end sides			0.73 × 0.15	1.8	280	2644.073
				1.09 × 0.15	2.5	140	2644.109
				1.40 × 0.15	3.1	140	2644.140
				1.57 × 0.15	3.4	140	2644.157
				2.07 × 0.15	4.4	140	2644.207
				2.57 × 0.15	5.4	140	2644.257
				3.07 × 0.15	6.3	140	2644.307
7	**O-steel toe board T18** for decks with O-insertion, for longitudinal and end sides			0.73 × 0.15	1.7	280	2643.073
				1.09 × 0.15	2.4	140	2643.109
				1.40 × 0.15	3.0	140	2643.140
				1.57 × 0.15	3.3	140	2643.157
				2.07 × 0.15	4.3	140	2643.207
				2.57 × 0.15	5.3	140	2643.257
				3.07 × 0.15	6.2	140	2643.307
8	**U-toe board, aluminium** for longitudinal and end sides, lightweight and durable			0.73 × 0.15	1.5	210	2651.073
				1.09 × 0.15	2.2	210	2651.109
				1.40 × 0.15	2.9	70	2651.140
				1.57 × 0.15	3.1	210	2651.157
				2.07 × 0.15	3.7	210	2651.207
				2.57 × 0.15	4.7	210	2651.257
				3.07 × 0.15	5.7	210	2651.307
9	**O-toe board, aluminium** for longitudinal and end sides, lightweight and durable			0.73 × 0.15	1.5	210	2641.073
				1.09 × 0.15	1.7	210	2641.109
				1.40 × 0.15	2.9	70	2641.140
				1.57 × 0.15	3.1	210	2641.157
				2.07 × 0.15	3.3	210	2641.207
				2.57 × 0.15	4.1	210	2641.257
				3.07 × 0.15	4.9	210	2641.307
10	**Half-coupler with toe board pin**		19		1.0	25	4708.019
			22		1.0	25	4708.022

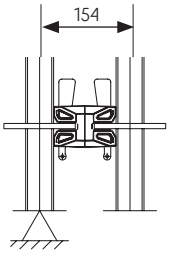
WS = wrench size LC = load class PU = packaging unit IND = products can be customized = new in the catalogue = available ex works
= delivery time on request = only available in this packaging unit = the approval process is not yet completed

Couplers, accessories and anchoring

The **wedge-head coupler** 1a/1b serves to connect d=48.3 mm scaffolding tubes to the rosettes of the standards.



The **wedge-head coupler double** 1c is for connecting several standards to each other, e.g. for combining standards in support scaffolding construction.



Scaffolding couplers 2–5 connections, in steel, drop-forged; as per DIN EN 74-1 or Z-8.331-947. Tightening torque of collar nuts 50 Nm.

Further information can be found in the catalogue for System-free Accessories.

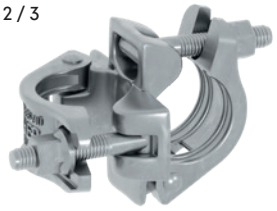
Scaffolding must be anchored vertically to and parallel with the facade with resistance to both tensile and compressive stress. The **Allround wall tie,** 0.80 m 7 must be secured with a standard coupler to the standard and supported with the fork plate on the U-section of the transverse ledger.

1a

1b

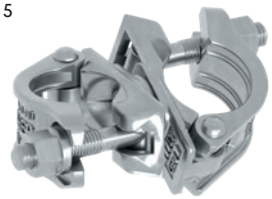
1c

2 / 3



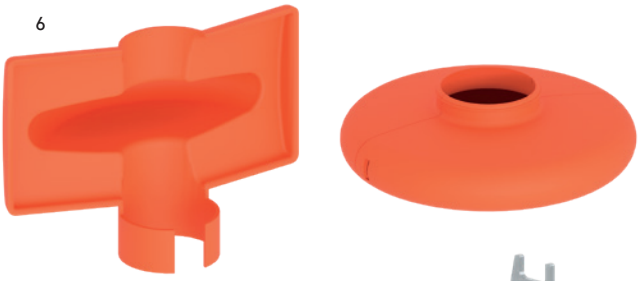
For right-angled connection of tubes with d=48.3 mm.

4 / 5



For connection at any angle of tubes with d=48.3 mm.

6



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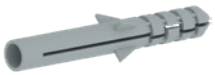
8

9



10

Pos.		Description	WS [mm]	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1		**Wedge-head coupler**					
	a	rigid	19		1.1	25	2628.019
			22		1.1	25	2628.022
	b	swivelling	19		1.5	25	2629.019
			22		1.5	25	2629.022
	c	double			1.2	25	2629.000
2		**Double coupler** steel, galvanised	19		1.3	25	4700.019
			22		1.3	25	4700.022
3		**Rapid double coupler** description as 4700.xxx, acc. to approval Z-8.331-947	19		1.3	25	4777.019
			22		1.3	25	4777.022
4		**Swivel coupler** steel, galvanised	19		1.5	25	4702.019
			22		1.5	25	4702.022
5		**Rapid swivel coupler** description as 4702.xxx, acc. to approval Z-8.331-947	19		1.5	25	4778.019
			22		1.5	25	4778.022
6		**Allround rosette cover**					
		with connected ledger, polyethylene, fixing with disposable tie			0.7	10 ▦	4007.012
		without connected ledger, polyethylene, fixing with disposable tie			0.9	10 ▦	4007.013
7		**Allround wall tie** 0.80 m		0.80	3.3	100	2639.080
8		**Wall tie**		0.20	0.9	250	1754.020
				0.38	1.6	250	1754.038
				0.69	2.8	50	1754.069
				0.95	3.7	50	1754.095
				1.45	5.7	50	1754.145
				1.75	5.8	50	1754.175
9		**Plastic wall insert** plastic drilled hole d=14 mm		70 mm	0.3	25 ▦	4008.072
				100 mm	0.3	25 ▦	4008.102
				135 mm	0.3	25 ▦	4008.137
10		**Ring screw** steel, galvanised d=12 mm, for expanding plug		95 mm	1.6	10 ▦	4009.097
				120 mm	1.8	10 ▦	4009.122
				190 mm	2.5	10 ▦	4009.192
				230 mm	3.0	10 ▦	4009.232
				300 mm	3.5	10 ▦	4009.302
				350 mm	5.0	10 ▦	4009.352

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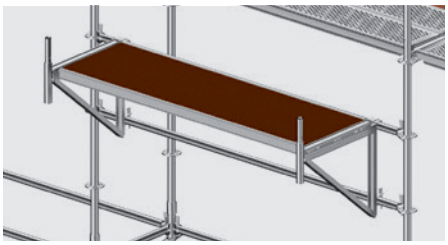
Brackets

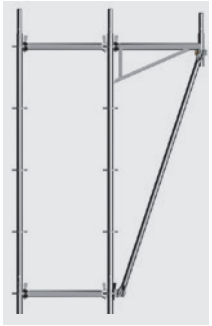
Widening of scaffolding can be easily performed by fitting brackets in the rosette on the standard. System decks in brackets must be secured against lifting off with the lift-off preventer.

Widened scaffolding can also be constructed with O-ledgers or U-transverse ledgers, base collar and diagonal braces in any projection depending on the working load. Structural strength verification is required here for each individual case.

The **O-console bracket LW,** 1.09 m wide 6f is used for widening birdcage scaffolding. Transverse ledger at the height of the lower bracket connection is required. Permissible load capacity: 2.0 kN / m² for bay widths 3.07 m.



U-console bracket, with 2 hooks 2, suspended from the ledgers, for projecting platforms.

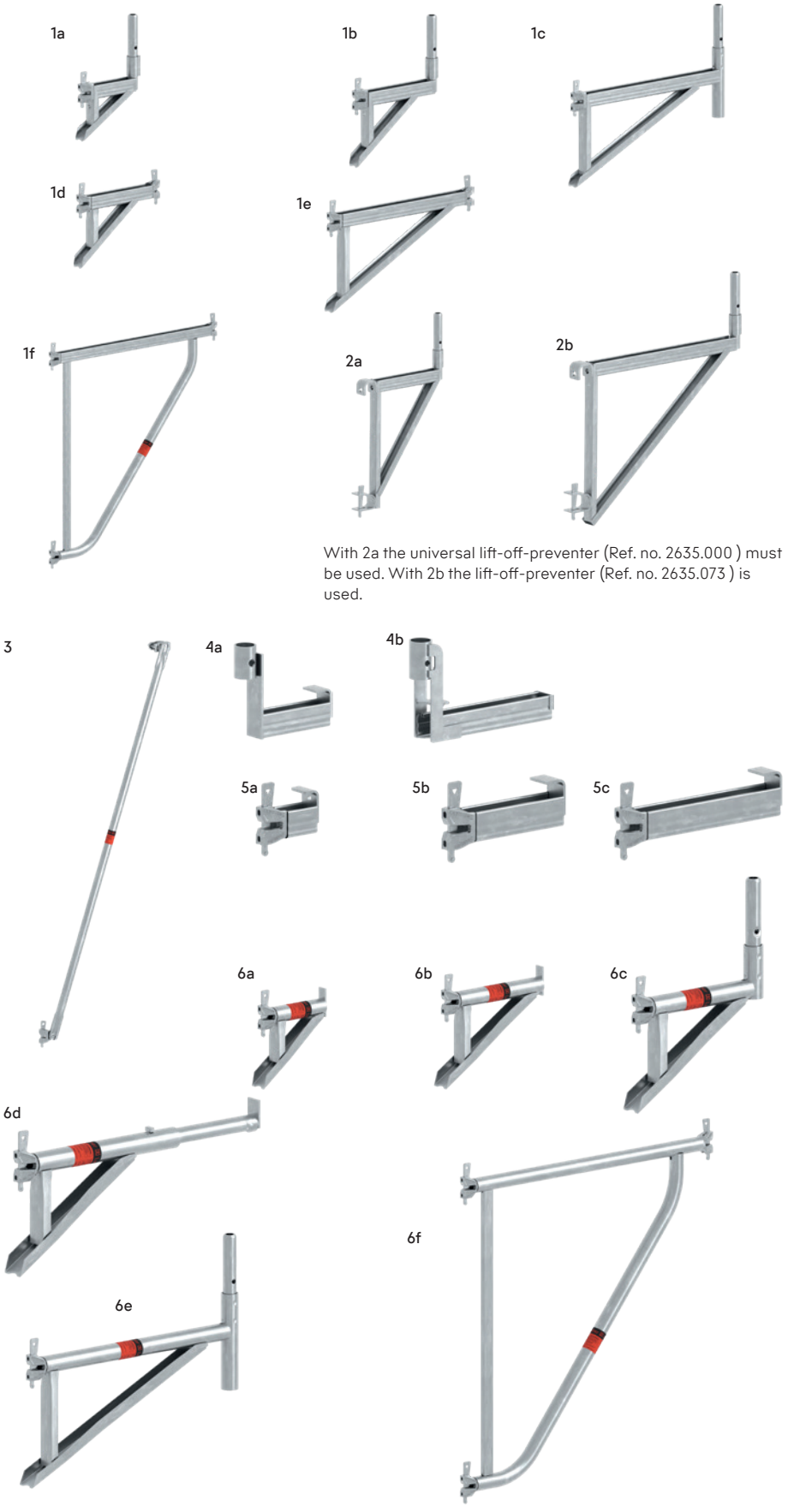


The **bracket brace** 2.05 m 3 is used to support the 0.73 m bracket.

The **U-extension bracket** 4 is used for quick conversion during construction, e.g. when installing external thermal insulation compound systems. It is simply plugged onto the spigot of Allround brackets. No tools are required.

The **O-console bracket,** 0.69 m wide, adjustable 6d is used incrementally and facilitates optimum stand height and wall distance.

Original Allround Scaffolding from Layher is made up of more than just standards and ledgers: complete system technology with additional parts and accessories to suit the construction site provides for safety and assembly benefits at all sites. System brackets are available for quickly widening scaffolding bays and for converting projecting building parts and eaves.



With 2a the universal lift-off-preventer (Ref. no. 2635.000) must be used. With 2b the lift-off-preventer (Ref. no. 2635.073) is used.

Assembly situation: **U-console bracket LW,** 0.73 m wide 1c (top) or alternatively **U-ledger 0.73 m** in conjunction with **bracket brace** 2.05 m 3 (left).

O- / U-cover ledgers 110 LW, 0.11 m wide are available in a variety of lengths for fully closed deckings between main scaffolding decks and console bracket decks.

Pos.		Description	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1		**U-console bracket LW**				
	a	0.28 wide for U-deck 0.19 m wide, lift-off preventer provided by customer or by 2635.002/003	0.28	3.4	100	2632.019
	b	0.39 m wide for U-deck 0.32 m wide	0.39	3.9	125	2632.039
	c	0.73 m wide for 2 U-decks 0.32 m or 1 U-deck 0.61 m wide	0.73	6.4	80	2632.073
	d	0.45 m wide, with 2 wedge heads for U-decks, 0.32 m wide	0.45	3.1	80	2632.045
	e	0.73 m wide, with 2 wedge heads for U-decks, 2 x 0.32 m wide or 1 x 0.61 m	0.73	5.0	80	2632.074
	f	1.09 m wide with U-section, for 3 U-decks 0.32 m wide	1.09	12.0	30	2632.109
2		**U-console bracket**				
	a	with 2 hooks, 0.36 m wide for U-decks, 0.32 m wide	0.36	6.6	80	4005.036
	b	with 2 hooks, 0.73 m wide for U-decks, 2 x 0.32 m wide or 1 x 0.61 m wide	0.73	8.5	40	4005.073
3		**Bracket brace** 2.05 m	2.05	8.8	50	2631.205
4		**U-extension bracket**				
	a	0.19 m wide for U-deck 0.19 m wide, with tilting preventer	0.19	1.6	125	2632.001
	b	0.32 m wide for U-deck 0.32 m wide, with tilting preventer	0.32	2.1	125	2632.002
5		**U-ledger bracket with 1 wedge head**				
	a	for widening the working space between scaffolding and wall	0.14	1.0	500	2618.014
	b	0.26 m wide for U-deck 0.19 m wide, with tiliting preventer	0.26	1.4	300	2618.026
	c	0.38 m wide for U-deck 0.32 m wide, with tilting preventer	0.38	1.5	250	2618.038
6		**O-console bracket**				
	a	0.26 m wide, without spigot for O-deck 0.19 m wide	0.26	2.3	250	2631.026
	b	0.36 m wide, without spigot for O-deck 0.32 m wide	0.36	3.4	125	2630.038
	c	0.39 m wide for O-deck 0.32 m wide	0.39	3.9	125	2631.039
	d	0.69 m wide, adjustable, pushed in: for accommodating 2 x 0.19 m O-steel decks T4, pulled out: for accommodating 3 x 0.19 m O-steel decks T4	0.69	4.2	125	2630.069
	e	0.73 m wide for 2 O-decks 0.32 m or 1 O-deck 0.61 m wide	0.73	6.8	80	2631.073
	f	1.09 m wide for 3 O-decks 0.32 m wide	1.09	12.0	30	2631.109

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Pedestrian protection, roof edge protection, scaffolding enclosure

The **U-walkway beam LW** 1 is designed for further construction with 0.73 m or 1.09 m wide scaffolding. Additional bracing is required for constructing pedestrian passages.

The heightened side protection specified for roofing work is swiftly assembled in Allround Scaffolding: The side protection nets are attached at the top, at scaffolding deck height, to the O-ledger. Without a quick strap fastener, the protection net is threaded with each loop of its mesh into the O-ledgers. With quick strap fasteners, the side protection net is attached to the O-ledgers at every 750 mm. Toe board and handrail are required.

To protect passers-by and traffic during spraying work and other site work causing dirt, facade scaffolding is covered with tarpaulins and nets.

Layher scaffolding tarpaulins and nets meet the requirements of DIN 4420-1. Compliance with design parameters prevents objects falling from the scaffolding level.

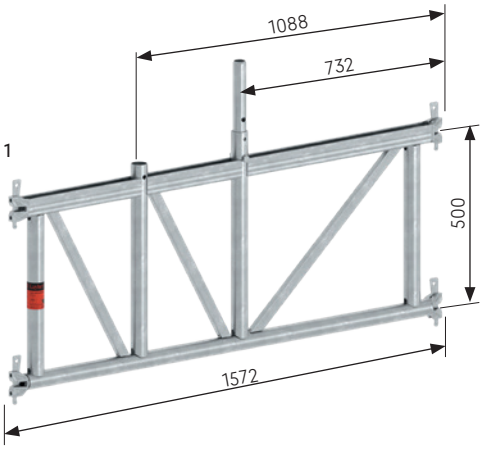
Further information can be found in the catalogue for System-free Accessories.

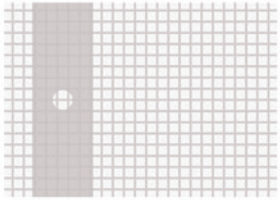
The **Protection nets** 2 are attached at the bottom (at scaffolding deck height) and at the top (2 m above the scaffolding deck) to the tubes at every 750 mm. Toe board and handrail are required.

Side protection net 10.00 x 2.00 m

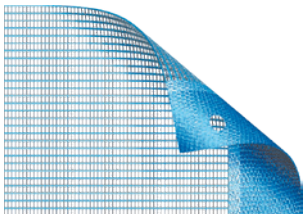
Specification:
Mesh width 100 mm, blue, made of PPM 4.5 mm, knotless, as per DIN EN 1263-1.

1

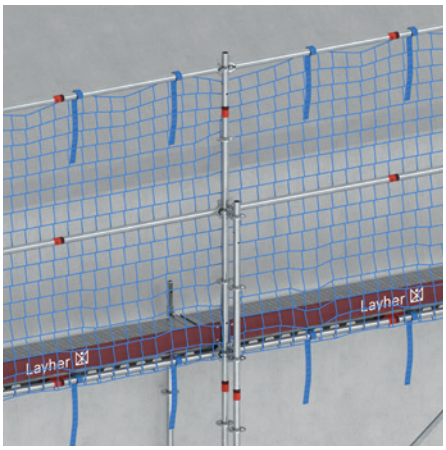




Scaffolding tarpaulin

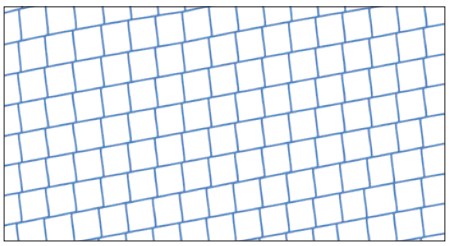


Scaffolding net



Roof edge protection

2



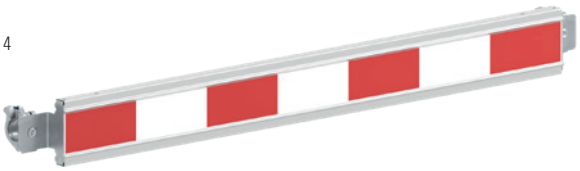
Please order a separate instruction manual for scaffolding nets.

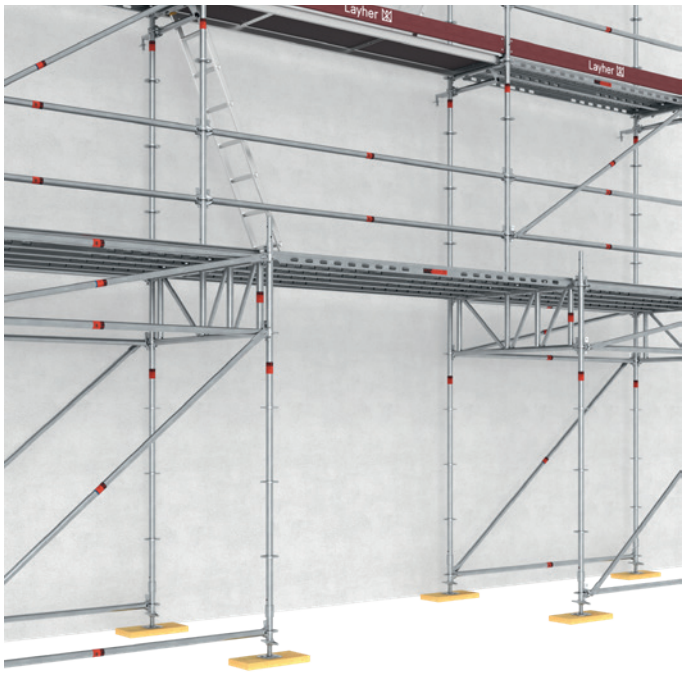
Side protection nets must be checked every year!
Side protection nets may only be used within a year of their being tested. If older protection nets are used, it must be verified in tests that the maximum tensile strength of the net yarn is still at least 2 kN. This testing of your Layher side protection nets is free of charge for you. To do so, a test mesh must be sent to Layher. In DIN EN 1263-1, Type U "Protection Nets and Protection Net Accessories, Safety Requirements, Testing" details are also given in 4.3 Instructions for Use, on the "time of removal from service".

3

In accordance with the guidelines for securing work sites on roads (RSA), scaffolding must be clearly visible from public traffic routes such as pedestrian or cycle paths.
Depending on local conditions, passageway markings may be required if the clearance height is reduced – for example, in pedestrian tunnels under scaffolding. In order to fulfil the requirements of RSA (Part A) for the protection of scaffolding and pedestrian passages, Layher has developed quickly reusable components made of galvanised steel with red and white retroreflective foil of reflection class RA 2.

4





Pos.	Description	WS [mm]	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**U-walkway beam LW** 1.57 m wide Steel up to load class 4, up to bay length 3.07 m and load class 4: max. assembly height 14 m		1.57 × 0.50	20.9	25	2666.157
2	**Protection net** with quick strap fastener, mesh width 100 mm, blue, made of PPM 4.5 mm, knotless, as per DIN EN 1263-1, type U		10.00 × 2.00	5.9	40	6232.002
3	**Quick strap fastener**		0.50	1.5	50	6235.002
4	**Passageway marking 1.50 m with rotating half-couplers**	19	1.50	5.6	50	4000.150

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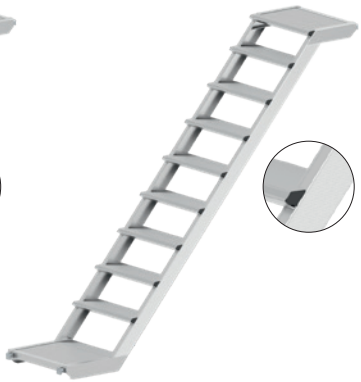
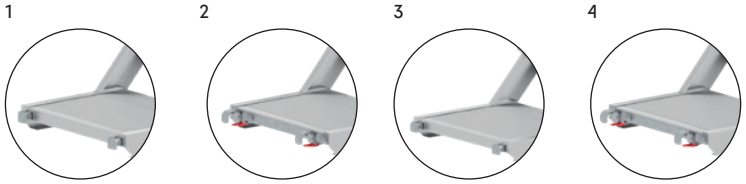
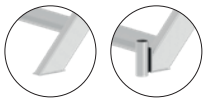
Platform stairway, Comfort stairway

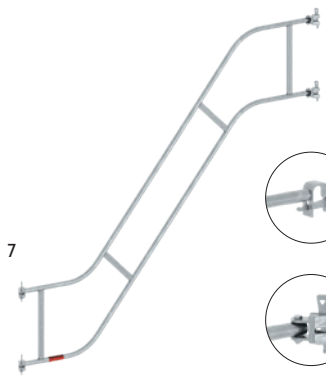
Safe, fatigue-free stairway ascent – also with transportation of materials – without impairment of the working surface. With the **platform stairway** 1/2, it is simple to construct a 4-standard stairtower, either integrated into the scaffolding or as a free-standing access structure anchored on the building. Both parallel and opposite stairways are possible here. There is no hindrance to work on scaffolding with this version. Permissible load capacity: 2.0 or 2.5 kN/m².





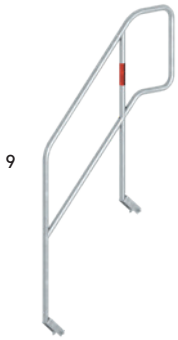
The **comfort stairway** 3/4 bases on the platform stairway. It is equipped with 175 mm wide, grooved steps. That leads to more comfortable access – especially for high access heights. The stronger stringer profile offers only small bending guardrails, internal guardrails and stairwell guardrails can be used from the platform stairway.



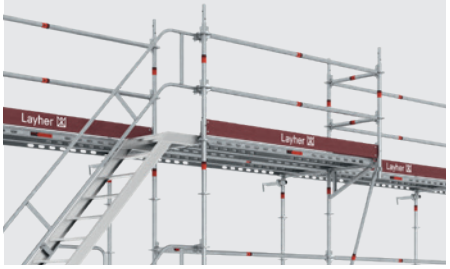


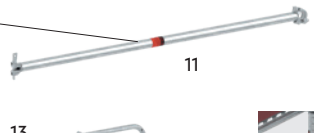
stairway guardrail for use with AGS System see page 16

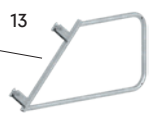
The **internal stairway guardrail T12** 8 is required for opposite stairways and serves to increase the stability of single-flight stairways.

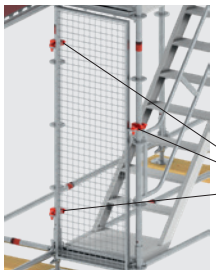


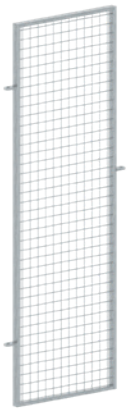
The **stair-guardrail post** 10 with the **O-ledger with wedge head and half-coupler** 11 is used for the stairwell at the top level. Optionally the exit of the top stair level can be assembled with console brackets. In that case, the stairwell guardrail is not needed.











Pos.	Description	WS [mm]	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**U-Platform stairway, aluminium, stair class A acc. to EN 12811-1**					
	0.64 m wide, 2.5 kN/m², 2.00 m high, for 2.57 m bay length, step height 0.20 m		2.57 × 0.64	21.9	10	1753.257
	0.64 m wide, 2.5 kN/m², 2.00 m high, for 3.07 m bay length, step height 0.20 m		3.07 × 0.64	26.3	10	1753.307
	0.64 m wide, 2.5 kN/m², 1.50 m high, for 2.57 m bay length, step height 0.18 m		2.57 × 0.64	21.5	10	1753.251
	0.94 m wide, 2.0 kN/m², 2.00 m high, for 2.57 m bay length, step height 0.20 m		2.57 × 0.94	33.7	10	1753.258
	0.94 m wide, 2.0 kN/m², 2.00 m high, for 3.07 m bay length, step height 0.20 m		3.07 × 0.94	40.1	10	1753.308
	0.94 m wide, 2.0 kN/m², 1.50 m high, for 2.57 m bay length, step height 0.18 m		2.57 × 0.94	36.6	10	1753.252
2	**O-Platform stairway, aluminium, stair class A acc. to EN 12811-1**					
	0.64 m wide, 2.5 kN/m², 2.00 m high, for 2.57 m bay length, step height 0.20 m		2.57 × 0.64	23.2	10	2633.257
	0.64 m wide, 2.5 kN/m², 2.00 m high, for 3.07 m bay length, step height 0.20 m		3.07 × 0.64	27.7	10	2633.307
	0.64 m wide, 2.5 kN/m², 1.50 m high, for 2.57 m bay length, step height 0.18 m		2.57 × 0.64	22.8	10	2633.258
3	**U-Comfort stairway, aluminium, stair class B acc. to EN 12811-1**					
	0.64 m wide, 2.5 kN/m², 2.00 m high, for 2.57 m bay length, step height 0.22 m		2.57 × 0.64	27.0	10	1755.257
	0.64 m wide, 2.5 kN/m², 2.00 m high, for 3.07 m bay length, step height 0.22 m		3.07 × 0.64	32.0	10	1755.307
	0.94 m wide, 2.0 kN/m², 2.00 m high, for 2.57 m bay length, step height 0.22 m		2.57 × 0.94	37.0	10	1755.258
4	**O-Comfort stairway, aluminium, stair class B acc. to EN 12811-1**					
	0.64 m wide, 2.5 kN/m², 2.00 m high, for 2.57 m bay length, step height 0.22 m		2.57 × 0.64	29.2	10	2635.257
	0.94 m wide, 2.0 kN/m², 2.00 m high, for 2.57 m bay length, step height 0.22 m		2.57 × 0.94	39.1	10	2635.258
5	**U-Starting stair, aluminium, stair class A acc. to EN 12811-1**					
	0.64 m wide, 2.5 kN/m², 1.00 m high, step height 0.20 m, base point A		1.00 × 0.64	11.5	10	1753.003
	0.64 m wide, 2.5 kN/m², 1.20 m high, step height 0.20 m, base point B		1.20 × 0.64	13.5	10	1753.002
	0.64 m wide, 2.5 kN/m², 1.70 m high, step height 0.19 m, base point B		1.70 × 0.64	18.3	10	1753.004
	0.94 m wide, 2.0 kN/m², 1.00 m high, step height 0.20 m, base point A		1.00 × 0.94	16.8	10	1753.005
	0.94 m wide, 2.0 kN/m², 1.20 m high, step height 0.20 m, base point B		1.20 × 0.94	17.6	10	1753.006
	0.64 m wide, 2.5 kN/m², 2.00 m high, step height 0.20 m, base point A		2.00 × 0.64	20.4	10	1753.007
6	**O-Starting stair, aluminium, stair class A acc. to EN 12811-1**					
	0.64 m wide, 2.5 kN/m², 1.00 m high, step height 0.20 m, base point A		1.00 × 0.64	13.8	10	2633.003
	0.64 m wide, 2.5 kN/m², 1.20 m high, step height 0.20 m, base point B		1.20 × 0.64	15.3	10	2633.002
7	**Stair guardrail, steel galvanised**					
	2.00 m high, for 2.57 m bay length, with U-forks		2.57	18.1	30	2638.257
	2.00 m high, for 3.07 m bay length, with U-forks		3.07	20.1	30	2638.307
	2.00 m high, for 2.57 m bay length, with swivelling wedge heads		2.57	18.1	30	2638.258
	2.00 m high, for 3.07 m bay length, with swivelling wedge heads		3.07	20.1	30	2638.308
	1.50 m high, for 2.57 m bay length, with U-forks		2.57	17.0	30	2638.251
	1.50 m high, for 2.57 m bay length, with swivelling wedge heads		2.57	17.0	30	2638.252
8	**Internal stairway guardrail T12**					
	for 2.57 x 2.00 m bay and 3.07 x 2.00 m bay	19	2.25	13.5	20	1752.007
		22	2.25	13.5	20	1752.008
	for 2.57 x 1.50 m bay	19	2.00	11.5	20	1752.012
	1.00 m high	19	0.90	7.8	20	1752.011
9	**Initial stair guardrail**	19	0.90 × 1.70	9.9	20	1752.009
		22	0.90 × 1.70	9.9	20	1752.013
10	**Stair-guardrail post** is used for the stairwell at the top level	19	1.30	6.1	28	2638.400
11	**O-ledger with wedge head and half-coupler**					
	for 2.57 m bay length, is used for the stairwell at the top level	19	1.90	7.8	50	2638.401
	for 3.07 m bay length, is used for the stairwell at the top level	19	2.15	9.7	50	2638.402
12	**Stairway guardrail adapter**			0.7	25	2637.000
13	**Stairwell guardrail**	19		6.2	40	1752.004
		22		6.2	40	1752.014
14	**Door lockable**		1.96 × 0.77	15.0	1	4780.732
15	**Half coupler with hanger for door**	19		1.2	25	4710.019

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Modular stairway, outside access, construction stairtower 200

With the modular stairway, accesses that always fit and that match the system can be constructed. Any intermediate dimension can be achieved simply by fitting together the individual stairway parts. The stairway rises 20 cm from step to step, and the bottom element with spindles is used for precise levelling. A wide variety of applications thanks to modular design. Little space needed for transport and assembly.

Constructing outward-facing access bays requires simple **scaffolding ladders** 4 / 5 together with the **swing door** 7 and the **guardrail standard,** 1.70 m, bended 9.

Layher pole ladders for scaffolding conform to DIN EN 131 individually or when connected to each other. The stile connections must have proper support and be secured with spring clips. The regulations in DGUV 38 must be followed.

Stairtowers can be used in many areas outside scaffolding construction, e.g. in public areas and as escape stairtowers. **The U- / O-stairway stringer 200,** 10-step 10 / 11 and the **platform stairway, aluminium** (see page 40) are not just a quick and comfortable means of upward access which permits problem-free vertical transporta-tion of materials and working on all scaffolding levels, they also easily enable stairtowers of differing widths and load capacities to be built for the purpose of rapidly linking up various construction site levels.

U- / O-stairway stringer 200

	10 steps	Permissible load with a stair flight width of 1.29 m
Riser s	20.0 cm	
Tread a	24.1 cm	2.0 kN / m²
Undercut u	7.9 cm	

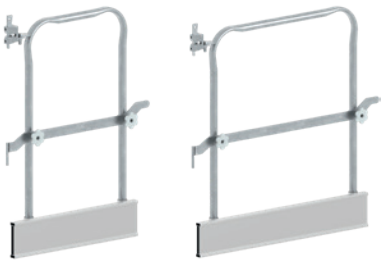
1 2 3

Height differences from 0.60 m to 1.60 m can be bridged. Load-bearing capacity: 3.0 kN/m². Design: steel, hot-dip galvanized. Connection of elements with bolt, d=12 x 55 mm and safety clip 2.8 mm (2 per joint). They are already included in the scope of delivery.

4 5

6

7



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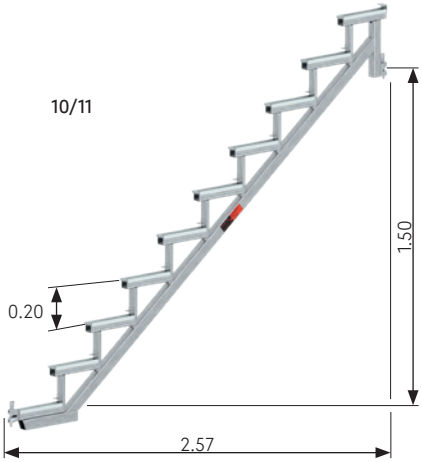
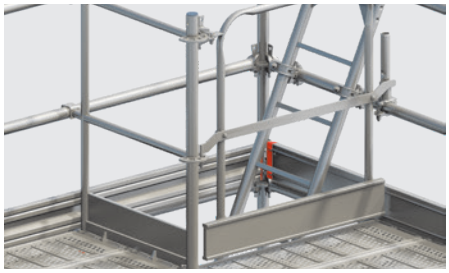
10/11



12

Locks the deck, which bears in the stringers against lift-off

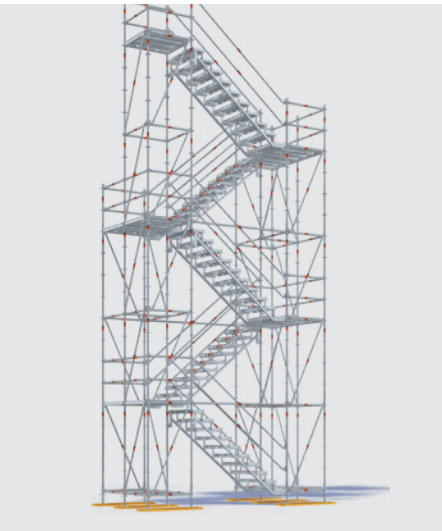


Installation situation of **Allround O-side part** 13

13

14

In the 12-standard construction stairtower 200, the stairways are made up of individual U-/O-stairway stringers 200, 10-step and steps made of standard decks. Thus the weights / volumes of the individual parts are lower, the proportions of standard material higher, and the additional costs lower. In addition, different variants of stairway widths are possible.



Pos.	Description	WS [mm]	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**U-stair head section, U-stair head section** Spigot preassembled with bolts and safety clips		0.60	10.7	15	2637.060
			0.95	11.7	50	2637.095
2	**Stair middle section** Spigot preassembled with bolts and safety clips		0.60	9.2	15	2638.060
			0.95	10.2	50	2638.095
3	**Stair foot section**		0.60	6.8	15	2639.060
			0.95	7.8	50	2639.095
4	**Pole ladder, aluminium**					
	extendable with 10 rungs		2.90 × 0.46	5.4	50	1004.010
	extendable with 14 rungs		4.00 × 0.46	8.1	50	1004.014
	extendable with 17 rungs		4.90 × 0.46	12.0	50	1004.017
	extendable with 20 rungs		5.70 × 0.46	16.9	50	1004.020
5	**Steel pole ladder**					
	extendable with 6 rungs		1.50 × 0.43	12.0	50	1002.006
	extendable with 8 rungs		2.00 × 0.43	15.0	50	1002.008
	extendable with 12 rungs		3.00 × 0.43	21.5	50	1002.012
	extendable with 16 rungs		4.00 × 0.43	28.0	50	1002.016
6	**Spring clip** steel			0.1	20	1250.000
7	**Swing door**					
	0.73 m, adjustable		0.73	7.8	40	2627.073
	1.00 m, adjustable		1.00	9.2	40	2627.100
8	**Ladder support**			7.4	50	2627.019
9	**Guardrail standard** 1.70 m, bended		1.70	8.5	50	2606.170
10	**U-stairway stringer 200** 10 steps, 2.00 m storey height		2.00 × 2.57	28.4	20	2639.010
11	**O-stairway stringer 200** 10 steps, 2.00 m storey height		2.00 × 2.57	28.4	20	2638.011
12	**Lift-off prevention clamp**			1.0	20	2634.032
13	**O-side part** 0.75 m	22	0.75 × 1.00	11.2	30	2627.016
		19	0.75 × 1.00	11.2	25	2627.018
14	**U-side part** 0.75 m	22	0.75 × 1.00	11.9	30	2627.015
		19	0.75 × 1.00	11.9	25	2627.017

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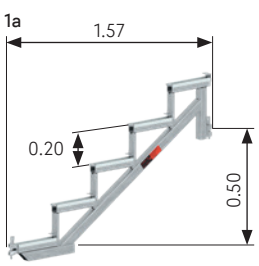
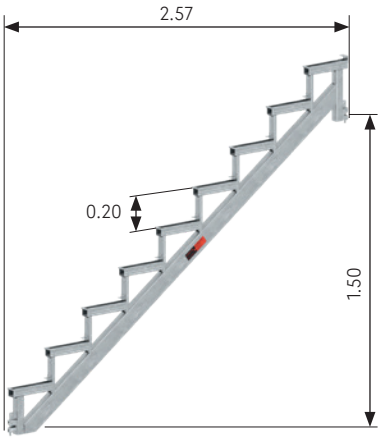
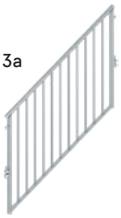
Stairtowers 500 and 750

Separate stringers and standard decking ensure variable widths for the stairway (1.09 m, 1.57 m, 2.07 m). This keeps the weight and the volume of the components low and permits a high proportion of standard Layher Allround material to be used. The 16-standard ground plan of the **stairtowers 500** and 750 allows both temporary and stationary stairtower structures of high loading capacity to be built. The stairtower 500 is used for preference in non-public areas, e.g. as access to the construction site, as non-public road crossings during construction work or as additional escape stairtower. In special cases it also can be used in public areas.







U-/O-stairway stringer 500
(with a stair flight width of 2.07 m)

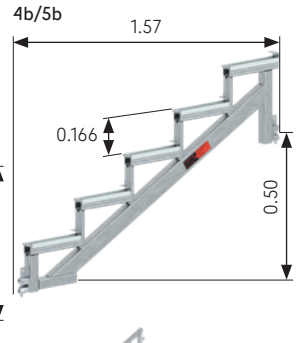
	10 steps	5 steps (U-version)	Permissible load
Riser s	20.0 cm	20.0 cm	
Tread a	27.5 cm	29.0 cm	5.0 kN/m²
Undercut u	4.5 cm	3.0 cm	

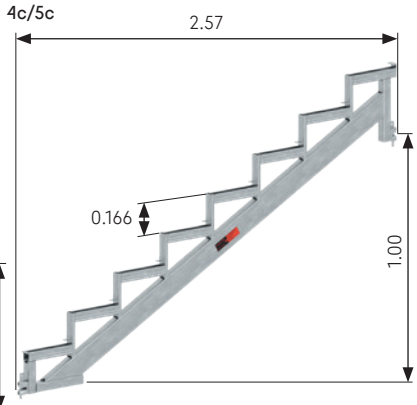
The **stairtower 750** with child protected guardrail is thanks to its riser measures mainly used in public areas and event constructions as access to stages and grandstands. Its features are the high load-bearing capacity and the reduced stairway riser.

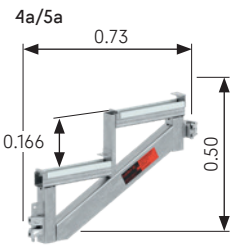
U-/O-stairway stringer 750
(with a stair flight width of 2.07 m)

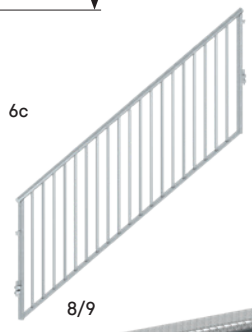
	8 steps	5 steps	2 steps	Permissible load
Riser s	16.6 cm	16.7 cm	16.7 cm	
Tread a	31.0 cm	29.0 cm	32.7 cm	7.5 kN/m²
Undercut u	1.0 cm	3.0 cm	-0.7 cm	

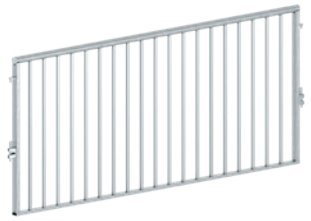
A height adjustment outside the 2.00 m or 1.50 m standard dimension is achieved with 5-step stairway stringers (1.00 m high). Alternatively, the stairway stringers 500 and 750 can also be combined in the stairtower structure, while the riser needs to be constand within one storey stairway. The stairtower structures must be verified for each single structure as regards structural strength.





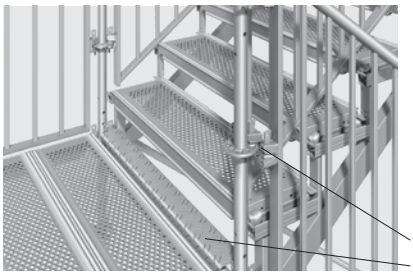






The deck ledger 110 LW is needed at the start and end of a stairway to an intermediate landing (in conjunction with U-steel decks).

Assembly situation
Initial guardrail 6d



Installation situation of **guardrail fixing device** 11
Installation situation of the **U-cover ledger 110 LW** 8

Pos.		Description	LC	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1		**U-stairway stringer 500 LW**					
	a	5 steps (1.00 m storey height)		1.00 × 1.57	18.0	20	2639.004
	b	9 steps (2.00 m storey height)		2.00 × 2.57	34.0	20	2639.009
2		**O-stairway stringer 500 LW** 9 steps (2.00 m storey height)		2.00 × 2.57	36.0	20	2638.012
3		**Stair guardrail 500 T12 with child protection**					
	a	5 steps (1.00 m storey height)		1.00 × 1.57	24.8	25	2616.104
	b	9 steps (2.00 m storey height)		2.00 × 2.57	35.8	25	2616.100
4		**U-stairway stringer 750 LW**					
	a	2 steps (0.50 m storey height)		0.50 × 0.73	8.9	20	2639.002
	b	5 steps (1.00 m storey height)		1.00 × 1.57	19.2	20	2639.005
	c	8 steps (1.50 m storey height)		1.50 × 2.57	36.4	20	2639.008
5		**O-stairway stringer 750 LW**					
	a	2 steps (0.50 m storey height)		0.50 × 0.73	10.8	20	2638.013
	b	5 steps (1.00 m storey height)		1.00 × 1.57	19.9	20	2638.014
	c	8 steps (1.50 m storey height)		1.50 × 2.57	37.2	20	2638.015
6		**Stairway guardrail 750, with child protection**					
	a	2 steps (0.50 m storey height)		0.50 × 0.73	14.8	25	2616.110
	b	5 steps (1.00 m storey height)		1.00 × 1.57	24.3	25	2616.105
	c	8 steps (1.50 m storey height)		1.50 × 2.57	34.6	25	2616.101
	d	Initial guardrail, 1 step, with U-section		1.16	9.7	40	2616.102
7		**Guardrail T12 with child protection**		0.45	10.4	25	2616.045
				0.73	14.1	25	2616.073
				1.09	17.8	25	2616.109
				1.29	19.4	25	2616.129
				1.40	20.6	25	2616.140
				1.57	22.7	25	2616.157
				2.07	27.7	25	2616.207
				2.57	32.7	25	2616.257
8		**U-cover ledger 110 LW** 0.11 m wide		0.73	5.2	200	2675.073
				1.09	7.6	50	2675.109
				1.29	8.9	50	2675.129
				1.40	9.7	50	2675.140
				1.57	10.8	50	2675.157
				2.07	14.2	50	2675.207
				2.57	17.6	50	2675.257
9		**O-cover ledger 110 LW** 0.11 m wide		0.73	5.2	200	2675.074
				1.09	7.5	50	2675.110
				1.29	9.0	50	2675.130
				1.40	9.4	50	2675.141
				1.57	11.0	50	2675.158
				2.07	14.1	50	2675.208
				2.57	18.1	50	2675.258
10		**U-transition deck 154 with claws**	6	1.09	5.0	50	3868.109
			6	1.29	6.0	50	3868.129
			6	1.40	6.5	50	3868.140
			6	1.57	7.3	50	3868.157
			6	2.07	9.7	50	3868.207
11		**Guardrail fixing device**			0.8	25	2636.000

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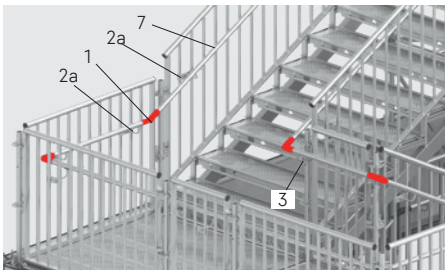
System handrail, Step cover

Stairtowers, wheelchair ramps or bridges open to the public must, to conform to German state building regulations, be provided with continuous handrails. With the system handrail, complex one-off designs and assembly work can be avoided. With just three parts – handrail holder, joint and handrail tube – the guardrail can be installed quickly and easily in line with regulations for every stair type. The lightweight aluminium handrail tubes of d=42.3 mm for a comfortable grip are easy to cut and drill holes into, and also quick to clean. They are simply riveted to the fitted handrail holders.

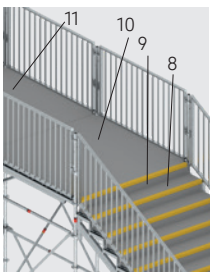
With rotating joints that permit any angle between 90° and 180° to be set and used, all transitions between the handrail tubes are smooth and pleasant to the touch.

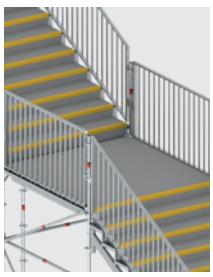


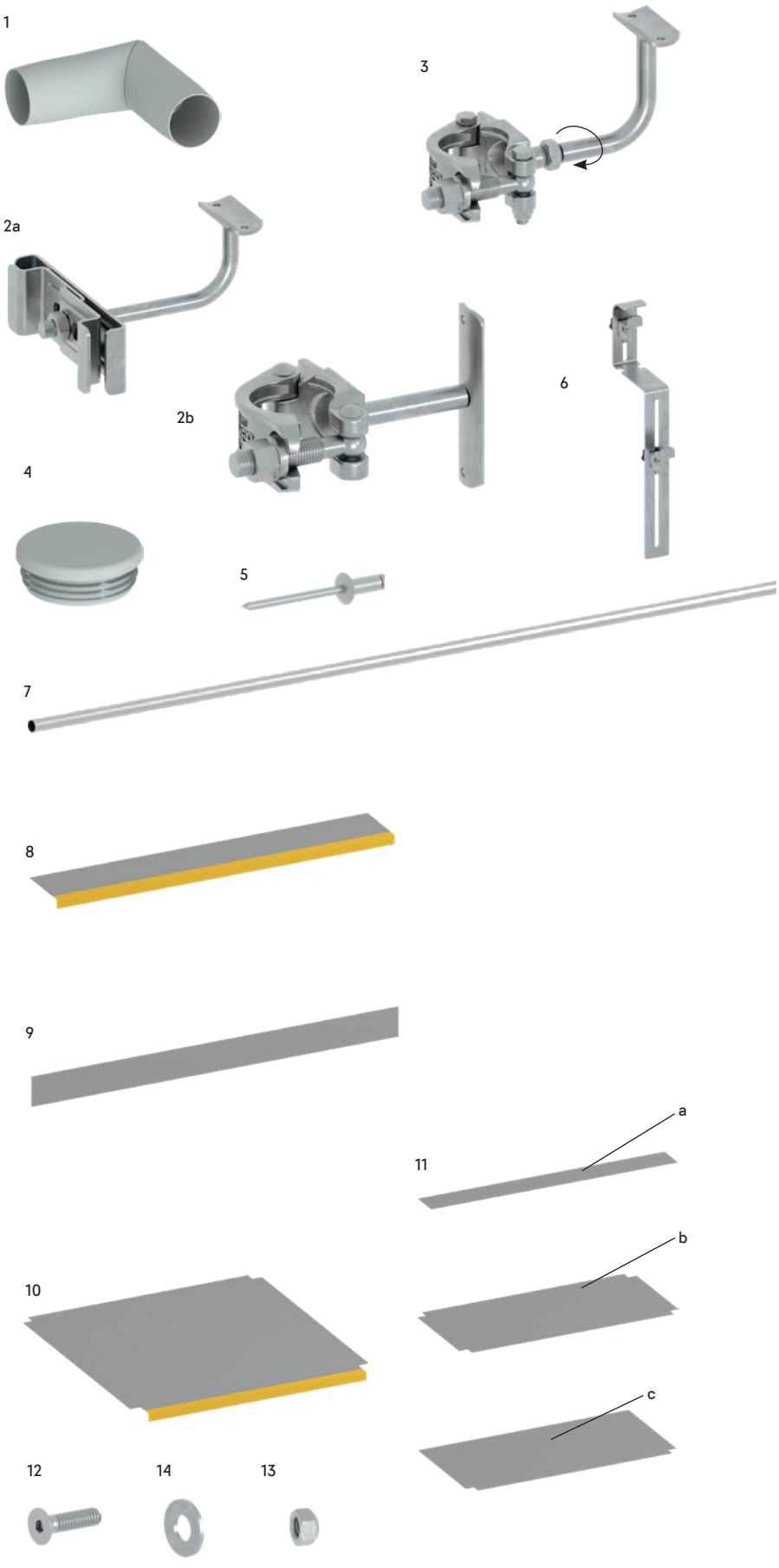
For information about the assembly, see the instructions for assembly and use for the system handrail.

Sure footing with Layher step covers. With their non-slip surface using quartz sand, they ensure maximum safety on Layher stairways in rain, snow and ice conditions. The step covers are made from glass-fibre-reinforced plastic. They are permanently resistant to weather effects, easy to clean, electrically non-conductive and flame-retardant. They can be fitted quickly and are optimally matched to the Layher stairway range.

A dependable solution for safe footing in all weather conditions. The risers and the step covers correspond to the non-slip value R13 according to DIN EN 51130.







Pos.		Description	WS [mm]	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1		**Joint for system handrail** infinitely adjustable from 90 to 180°			1.0	10	2616.007
2		**System handrail holder**					
	a	for child proof guardrail	19		0.7	20	2616.001
	b	with half-coupler, vertical	19		0.9	20	2616.004
3		**System handrail holder, rotating** with half-coupler	19		1.0	20	2616.008
4		**End cap for system handrail tube** Plastic			0.1	10	2616.009
5		**Blind rivet 4.8 x 12 mm** for fastening the handrail tubes to the handrail holder			0.5	100	6493.357
6		**Assembly aid for system handrail**			1.1	1	2616.005
7		**System handrail tube, aluminium, d=42.3 mm, 6.00 m**			4.3	138	2616.003
8		**Step cover** necessary fixation material: each 3 pcs. (of PU 50 pcs.) 6495.069, 6494.580 and 6495.070		1.57 × 0.33	8.7	20	4000.157
				2.07 × 0.33	11.5	20	4000.207
9		**Riser** necessary fixation material: each 2 pcs. (of PU 50 pcs.) 6495.069, 6494.580 and 6495.070		1.57 × 0.16	2.0	20	4001.157
				2.07 × 0.16	2.5	20	4001.207
10		**Landing cover with nose** with nose, for adjacent stair, necessary fixation material: each 21 pcs. (of PU 50 pcs.) 6495.069, 6494.580 and 6495.070		1.57 × 1.57	15.3	20	4002.157
				2.07 × 2.07	26.6	20	4002.207
11		**Landing cover, flat**					
	a	flat, for use in intermediate bay, necessary fixation material: each 4 pcs. (of PU 50 pcs.) 6495.069, 6494.580 and 6495.070		1.57 × 0.15	1.5	20	4003.015
				2.07 × 0.15	2.0	20	4003.016
	b	flat, for use in intermediate bay, necessary fixation material: each 6 pcs. (of PU 50 pcs.) 6495.069, 6494.580 and 6495.070		1.57 × 0.73	7.1	20	4003.073
				2.07 × 0.73	9.4	20	4003.074
	c	flat, for use on platforms, necessary fixation material: each 18 pcs. (of PU 50 pcs.) 6495.069, 6494.580 and 6495.070		1.57 × 1.57	17.8	20	4003.157
				2.07 × 2.07	26.6	20	4003.207
12		**Countersunk bolt M8 x 30 mm**	5		0.6	50	6495.069
13		**Locking nut M8**			0.2	50	6494.580
14		**Spring washer A 8.4 x 18 mm**			0.3	50	6495.070

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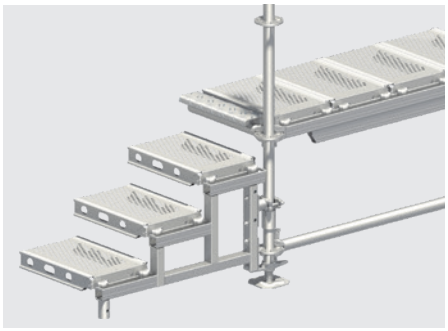
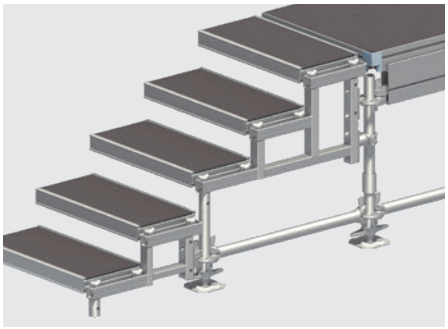
= delivery time on request = only available in this packaging unit = the approval process is not yet completed

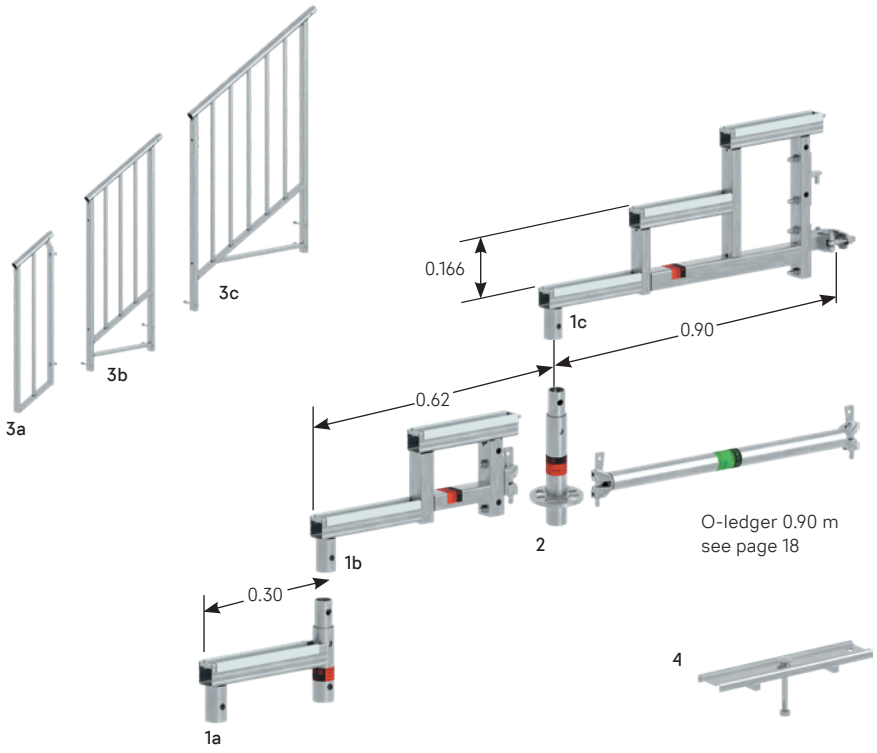
Allround modular stairway

Modular stairway at scaffolding



Modular stairway at Event stage





Pos.		Description	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1		**Stringer for modular stairway**				
	a	1-step	0.30	2.4	50	5407.001
	b	2-step	0.60	5.5	50	5407.002
	c	3-step	0.90	8.0	20	5407.003
2		**Base collar 0.26 m** for modular stairway with spigot	0.26	2.0	450	5407.021
3		**Guardrail for modular stairway**				
	a	1-step	0.30 × 1.10	6.5	40	5407.011
	b	2-step	0.60 × 1.10	14.0	25	5407.012
	c	3-step	0.90 × 1.10	16.0	25	5407.013
4		**Lift-off preventer with bolt**	0.29	0.4	500	5407.030

Lattice beams

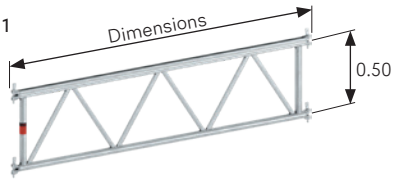
The **U-lattice beam LW,** steel 1 and the **U-lattice beam,** aluminium 2, with 4 wedge heads for locating on standards are used to construct birdcage scaffolding or in conjunction with the **spigot** for **U-lattice beam** 5, for further construction in the scaffolding standard dimension or for bridging.

O-lattice beam LW, with 4 wedge heads 3, steel, is used for further construction in the scaffolding standard dimension. The top and bottom cylindrical tube chords are secured to the standard with the wedge heads.

U-ledger for lattice beam 4 for accommodating scaffolding decks for bridging with Allround lattice beams.

Applicable to lattice beams: when lattice beams are used, the stability of the scaffolding must be verified in each case. Loading tables available on request. The scaffolding deck must be secured against lifting off in each case with U-lift-off preventer.

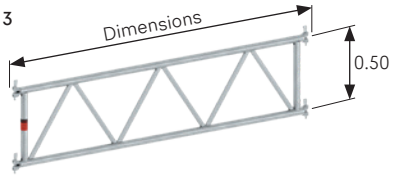
1



U-lattice beam deck configuration

2.07 m	6 x 0.32 m
2.57 m	7 x 0.32 m and 1 x 0.19 m
3.07 m	9 x 0.32 m
4.14 m	12 x 0.32 m and 1 x 0.19 m
5.14 m	15 x 0.32 m and 1 x 0.19 m
6.14 m	18 x 0.32 m and 1 x 0.19 m

3



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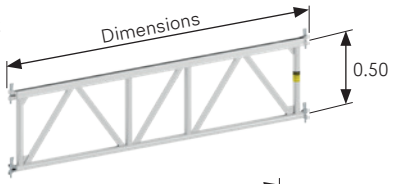

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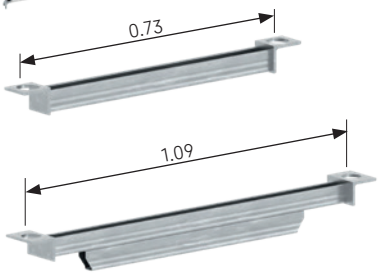

5a
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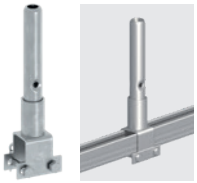

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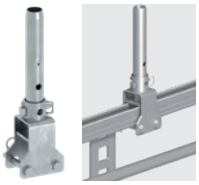

5c
Ref. No. 2656.002

6

Pos.		Description	WS [mm]	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1		**U-lattice beam LW** with 4 wedge heads, steel		2.07 × 0.50	21.4	40	2673.207
				2.57 × 0.50	24.9	40	2673.257
				3.07 × 0.50	31.9	40	2673.307
				4.14 × 0.50	40.0	40	2673.414
				5.14 × 0.50	51.2	40	2673.514
				6.14 × 0.50	60.5	40	2673.614
2		**U-lattice beam** with 4 wedge heads, aluminium		1.57 × 0.50	8.6	50	3206.157
				2.07 × 0.50	12.3	50	3206.207
				2.57 × 0.50	15.2	50	3206.257
				3.07 × 0.50	17.0	50	3206.307
				4.14 × 0.50	24.6	50	3206.414
				5.14 × 0.50	30.2	50	3206.514
3		**O-lattice beam LW** with 4 wedge heads, steel		2.07 × 0.50	22.2	40	2674.207
				2.57 × 0.50	25.5	40	2674.257
				3.07 × 0.50	30.9	40	2674.307
				4.14 × 0.50	40.2	40	2674.414
				5.14 × 0.50	51.2	40	2674.514
				6.14 × 0.50	59.2	40	2674.614
				7.71 × 0.50	71.0	40	2674.771
4		**U-ledger for lattice beam** only in conjunction with Ref. No. 2656.000		0.73	3.1	42	4923.073
				1.09	7.8	42	4923.109
5		**Spigot for U-section**					
	a	only for uses without lift-off preventer, incl. 2 bolts			1.8	250	2656.000
	b	for lattice beam, incl. 2 bolts, also for U-bridging ledger			2.1	250	2656.001
	c				2.1	180	2656.002
6		**Spigot for O-section** with half-coupler, for lattice beam and ledger	19	0.30	1.8	25	4706.019
			22	0.30	1.8	25	4706.022

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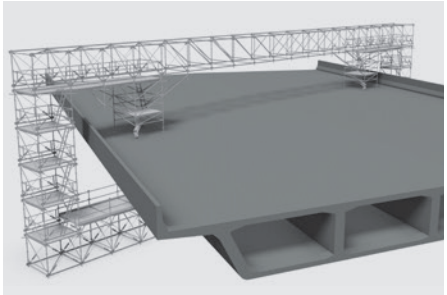
Allround FW System

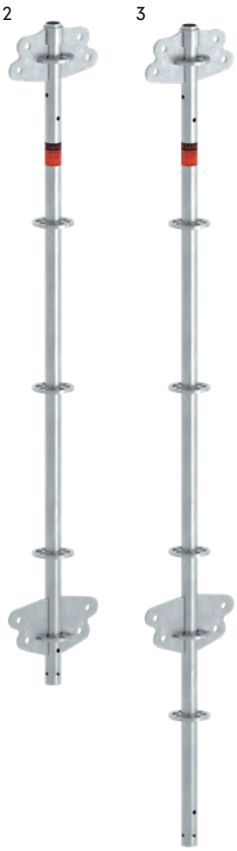
The Allround FW System to provide wide-span bridging too, or to support heavier loads, This additional Allround component is a modulardesigned lattice beam of high load-bearing capacity that can be completely integrated into the Allround construction kit thanks to the standardised system dimensions. For lattice structures, only three essential supplementary components are needed, and they can be rapidly connected using pins: a **post** 2, a sturdy **chord** 1 as the top and bottom chord, and a length-adjustable **diagonal rod consisting of** 4 / 6. A contribution to the high load-bearing capacity of the new product is made on the one hand by the use of efficient steel grades and the design height of the Allround FW System, and on the other hand by its installation in the Allround system standard dimension. This ensures a structurally advantageous and central force transmission – an offset is prevented.

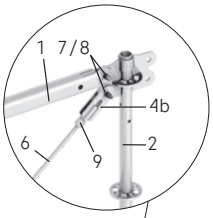
A further special feature is the stepless adjustment of the diagonal rods using a **turnbuckle** 4a – for example to build slightly higher structures. This compensates for unwelcome sagging. A crossed diagonal configuration is also possible for transmitting both positive and negative lateral forces.

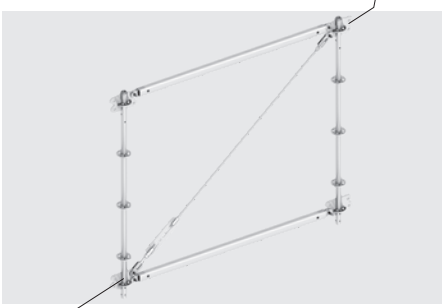
The modular design of the Allround FW System not only permits flexible heights, widths and lengths for optimum adjustment to load and geometry requirements, but also ensures economical transport and assembly thanks to bolt-free connection technologies and the low weight of the handy individual components, which is 19 kilograms maximum. If no crane is available at the site, the Allround FW System can be assembled manually without any problem – also in cantilevered construction from a secured level.

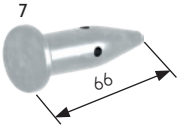
The **lock nut** 9 is used to prevent the diagonal rod from twisting during the clamping process.

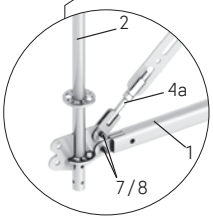






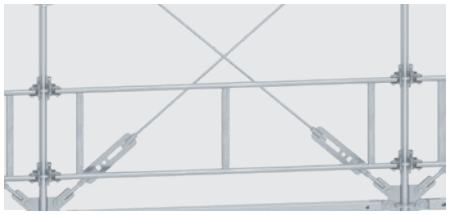




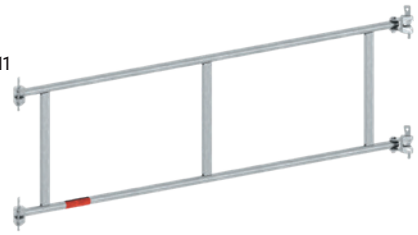


The **FW System double guardrail** 11 has swivelling wedge heads to position it off-axis due to the diagonal bars. The **FW System guardrail adapter** 10 is used for the application of child-safe guardrails.

10



11



Pos.		Description	WS [mm]	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1		**FW chord**		1.57	10.5	20	2646.157
				2.07	13.9	20	2646.207
				2.57	17.4	20	2646.257
2		**FW post**		1.00	12.6	28	2646.100
				1.50	15.4	28	2646.150
				2.00	17.2	28	2646.200
3		**FW post, extended** for accessible bridgings		2.50	19.9	28	2646.250
4		**FW endfitting**					
	a	with turnbuckle			3.8	250	2646.202
	b	w/o turnbuckle			0.9	500	2646.203
5		**FW post, single-side-connection**					
		for connection to the Allround Scaffolding in longitudinal direction		1.00	9.5	28	2646.105
				1.50	12.3	28	2646.155
				2.00	14.6	28	2646.205
		extended, for connection to the Allround Scaffolding in longitudinal direction		2.50	17.3	28	2646.255
6		**FW diagonal rod**					
		for 2.57 x 2.00 m bay		2.37	3.3	100	2646.210
		for 2.07 x 2.00 m bay		1.96	2.8	100	2646.211
		for 2.57 x 1.50 m bay		2.07	2.9	100	2646.213
		for 2.07 x 1.50 m bay and 1.57 x 2.00 m bay		1.63	2.4	100	2646.214
		for 1.57 x 1.50 m bay		1.23	1.9	100	2646.215
		for 2.07 x 1.00 m bay		1.40	2.1	100	2646.216
		for 1.57 x 1.00 m bay		0.96	1.4	100	2646.217
7		**Bolt 20 x 66 mm**			1.6	10	2646.221
8		**Securing pin d=4 mm**			1.5	50	5905.002
9		**Lock nut 30 x 15 mm**	30		1.5	10	2646.231
10		**FW guardrail adapter** for mounting of child proof guardrails			1.2	300	2646.001
11		**FW double guardrail** with swivelling wedge heads		1.57	9.2	30	2647.157
				2.07	11.9	30	2647.207
				2.57	13.6	30	2647.257

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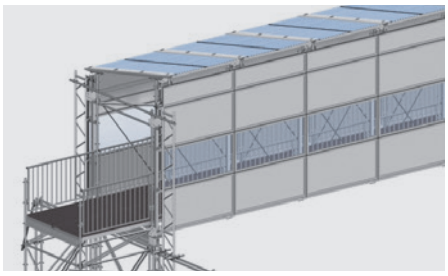
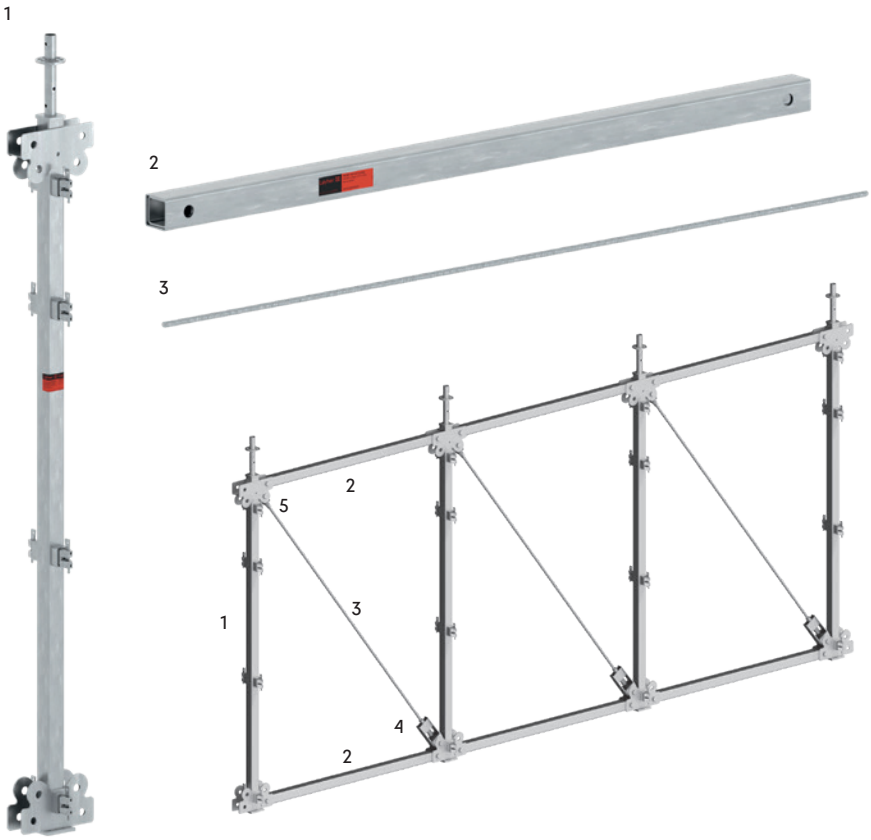
Bridging system

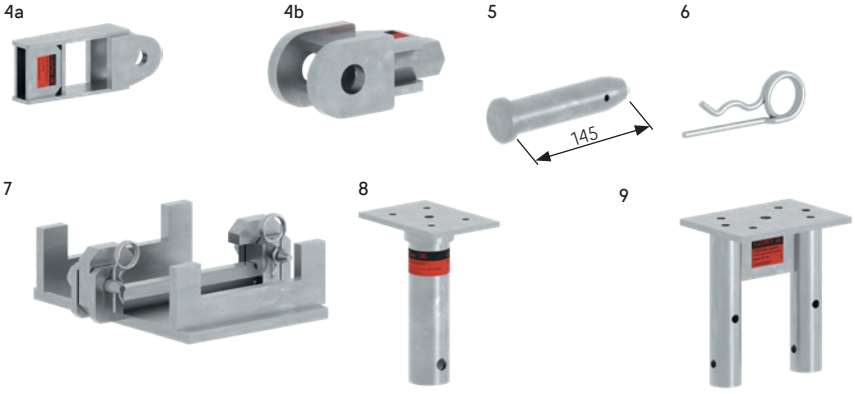
The **Allround bridging system** is the ideal complement to Layher Allround equipment. With just a few additional components, the load-bearing capacity of the proven All-round system can be increased enough to create, for example, wide-span footbridges or support structures for heavy loads. The bridging system is available in the familiar Layher dimensions of 2.07 m and 2.57 m, with its unique wedge head connection making it fully compatible with Layher Allround equipment. Simple bolt connections enable the components of the bridging system to be connected up, resulting in quick and easy assembly.

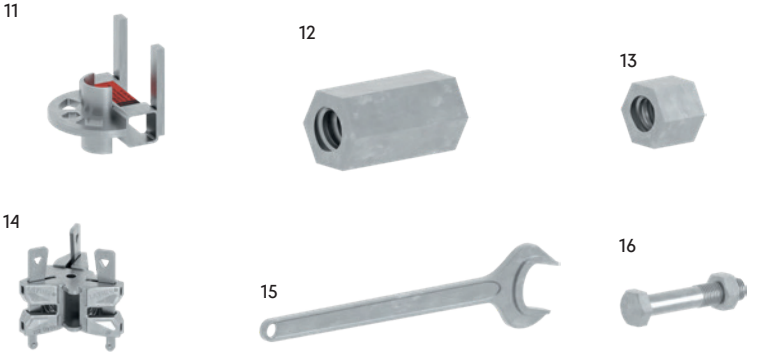
When used as a support beam for a scaffolding structure, podium or roof structure, the Allround bridging system is connected to the structure above it by using Allround standards integrated into the top. Using the wedge heads welded onto the sides, even suspended scaffolding structures can be connected, or several bridging units can be connected next to one another for a further increase in the load bearing capacity.

When a footbridge is built, the Allround bridging system is connected to Allround standards using the wedge heads provided on the sides of the posts. Depending on application, either Event decks or steel decks can be used. The bridge can also be clad using Layher Protect cassettes and roofed. The bridge is mounted on Layher heavy-duty columns with specially designed support elements. These support elements permit pre-assembly on the ground and subsequent insertion by crane, which is a major advantage when spanning bridges across roads.









Pos.		Description	WS [mm]	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1		**Bridging system post**		3.22	57.3	18	2671.000
2		**Bridging system chord**					
		for 2.07 m bay length		1.97	20.8	45	2671.010
		for 2.57 m bay length		2.47	25.8	45	2671.020
3		**Bridging system diagonal rod**					
		for 2.07 m bay length		3.05	7.9	75	2671.030
		for 2.57 m bay length		3.37	8.7	75	2671.040
4		**Bridging system diagonal anchoring**					
	a	without nut			5.5	300	2671.050
	b	with nut	36		2.9	300	2671.060
5		**Bolt 30 x 145 mm**			8.0	10	2671.072
6		**Securing pin d=4 mm**			1.5	50	5905.002
7		**Bridging system support element**			4.8	80	2671.080
8		**Bridging system adapter for heavy-duty column**			5.5	124	2671.090
9		**Bridging system support for double standard**			4.9	50	2671.140
10		**Bridging system support beam**					
		for bridge width 1.57 m			119.2	4	2671.095
		for bridge width 2.07 m			145.8	4	2671.100
		for bridge width 2.57 m			167.0	4	2671.105
11		**Protect holder**			1.0	250	2671.110
12		**Clamping nut** for diagonal rod, WS 36 x 70, galvanised	36		4.0	10	2671.122
13		**Locking nut** for diagonal rod, WS 36 x 30, galvanised	36		4.0	20	2671.132
14		**Wedge-head coupler** triple			2.3	250	2671.150
15		**Open ended wrench WS 36**	36		0.5	1	2671.135
16		**Hexagon head bolt M12 x 35 mm** with nut	19		5.0	50	2671.162

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Aluminium FlexBeam

Rapid assembly and optimum use of materials ensure economical scaffolding structures. The **aluminium FlexBeam** 1 makes it possible. It enables surface scaffolding to be efficiently assembled both suspended and upright.

Compared with the steel lattice beam 450:

- The **bending load capacity is up to 2.5 times higher,** meaning that larger support and suspension configurations are possible.
- The structural height with just **280 mm (U-FlexBeam) or 290 mm (O-FlexBeam) is about 40% lower**, resulting in lower construction heights and thus expanded possibilities for use.
- As a rule **no compression chord bracing** is required.
- A channel-shaped upper side of the section is provided for **direct suspension of U- or O-system decks** which are also secured in position by the use of a new and easy-to-fit lift-off preventer.

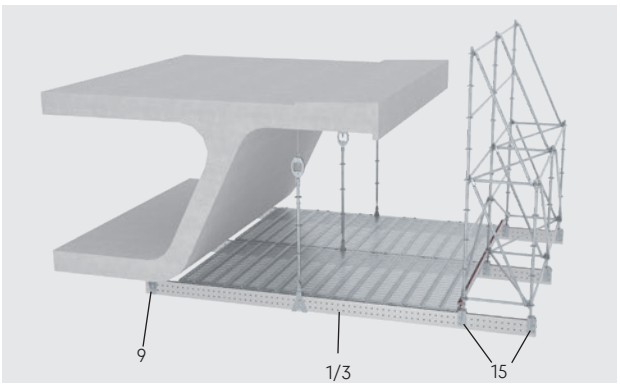
The aluminium FlexBeam is also available as **O-version** 3. This is designed for supporting O-shaped scaffolding decks and for use as a rail for mobile scaffolding structures or mobile weather protection roofs.

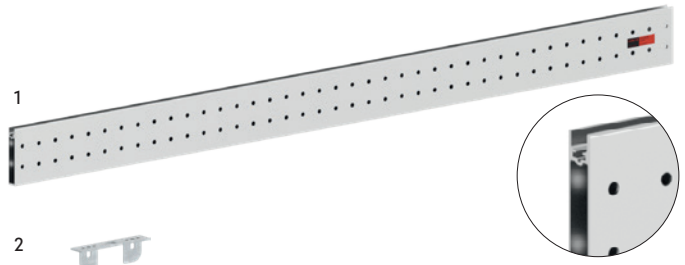
Further expansion using standard Allround components is also possible. In the case of use as suspended scaffolding the **anchor plate** 9 and the **suspension shoe** 10 are available for receiving the beam. The **anchor plate** 9 is intended for direct wall-plug connection to the structure.

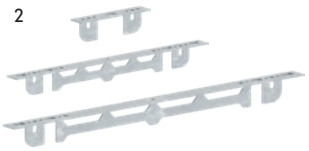
The **suspension shoe** 10 can be directly connected to the **tie rod adapter** 12. Optionally the suspension can be extended in length by Allround standards using the **standard adapter male / female** 13 / 14. The tie rod adapter is used for connection to a tie rod firmly anchored in the structure and suitable for this purpose.

To extend the length of beams the **FlexBeam spigot** 7 is available, which is inserted into the hollow chamber of the beam section and then pinned to the beam.

The **suspension shoe for standard** 11 extends the application possibilities of the FlexBeam and can be used for elevated scaffolding constructions and for arched step scaffolding.







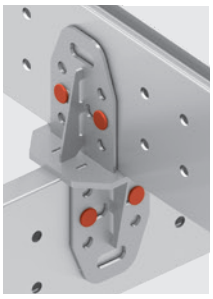
Learn more on YouTube
Aluminium FlexBeam

Pos.	Description		Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**Aluminium U-beam FlexBeam**		3.00	30.0	12	2657.300
			4.00	40.0	12	2657.400
			5.00	50.0	12	2657.500
			6.00	60.0	12	2657.600
			7.00	70.0	12	2657.700
2	**FlexBeam U-lift-off preventer**		0.26	0.7	250	2657.026
			0.76	2.2	150	2657.076
			1.00	3.3	50	2657.100
3	**Aluminium O-beam FlexBeam**		3.00	30.6	12	2657.301
			4.00	40.8	12	2657.401
			5.00	51.0	12	2657.501
			6.00	61.2	12	2657.601
			7.00	71.4	12	2657.701
4	**FlexBeam O-lift-off preventer**		0.61	1.1	225	2657.061
			0.92	1.8	225	2657.092
5	**FlexBeam U-lift-off preventer lock** for U-FlexBeam			8.1	50	2657.111
6	**FlexBeam lift-off preventer bolt** for U- and O-FlexBeam			2.8	20	2657.121
7	**FlexBeam spigot** for stiff connections of FlexBeams aluminium U-beam		0.80	16.4	50	2657.010
8	**FlexBeam anchor plate tube**			1.3	200	2657.020
9	**FlexBeam anchor plate**			12.0	50	2657.030
10	**FlexBeam suspension shoe** vertical bearer for the FlexBeam			9.3	50	2657.040
11	**FlexBeam suspension shoe for standard** vertical bearer for the FlexBeam			13.0	15	2657.045
12	**FlexBeam tie rod adapter** as connection between Allround standards (w/ o spigot) to the diagonal rod			5.7	100	2657.050
13	**FlexBeam standard adapter male** for further construction with Allround standards (w / o spigot)			1.7	300	2657.060
14	**FlexBeam standard adapter female** for connection between Allround standard and suspension shoe			2.9	250	2657.070
15	**FlexBeam standard connector** for protective wall structures			6.6	100	2657.080

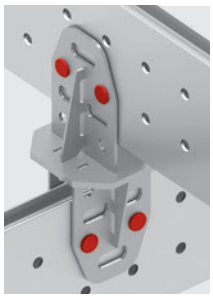
WS = wrench size LC = load class PU = packaging unit IND = products can be customized = new in the catalogue = available ex works
= delivery time on request = only available in this packaging unit = the approval process is not yet completed

The **timber beam support** 1 for U-FlexBeam permits lateral fitting of an extra beam, for example to act as a basis for providing fitted bays in curved sections.

The **cross-connector** 8 allows FlexBeams, positioned one above the other and at right angles, to be turned into a grid structure. Special structures produced specifically for projects – e.g. welded steel structures – can simply be replaced by them, not only resulting in economic benefits but also saving on raw material resources.

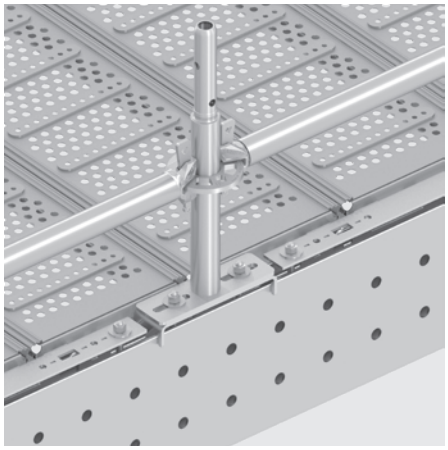


Securing positions of beams



Suspended beams

Using existing Allround system components to provide side protection on the FlexBeam permits economical system solutions without the need for costly improvisation. Where necessary the **guardrail adapter** 9 can also be used as a connecting piece for elevated scaffolding – only for use with U-FlexBeam.



The **length adapter** 10 has a horizontal adjustment range of 148 mm and allows the metric hole pattern of the FlexBeam aluminium beam to be adapted with the Layher system dimensions.

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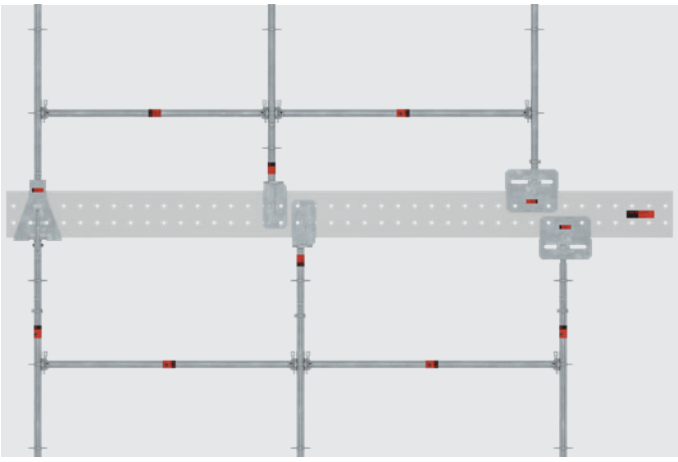

The **clamping plate** 11 / 12 – available in 2 different sizes – can be used as an anchorage device for under-bridge scaffolding or other suspended scaffolding structures on steel beams.

11

12

Pos.	Description	WS [mm]	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**FlexBeam timber beam support** use for e.g. trapeziform adjustment bays, for U-FlexBeam			3.4	150	2657.090
2	**FlexBeam head jack 60, swivelling**			11.2	50	2657.160
3	**Base plate support** for U-FlexBeam			1.8	100	2657.150
4	**FlexBeam rosette adapter** for the lateral connection of Allround O-ledgers and horizontal diagonal braces to the beam, including 4 bolts and nuts	30		2.7	150	2657.130
5	**Bolt 20 x 113 mm**			3.0	10	2646.281
6	**Securing pin d=4 mm**			1.5	50	5905.002
7	**FlexBeam end bracket adapter** for connection to an Allround standard in system level at beam end	24		11.8	20	2657.015
8	**FlexBeam cross-connector**			10.4	30	2657.140
9	**FlexBeam guardrail adapter** for U-FlexBeam	19		3.8	72	2657.085
10	**FlexBeam length adapter**	19		12.6	50	2657.180
11	**Clamping plate 70 to 210 mm** perm. load 59.5 kN, drill d=21 mm, flange width 5 to 26 mm		0.29 × 0.26	12.5	50	4015.210
12	**Clamping plate 190 to 330 mm** perm. load 59.5 kN, drill d=21 mm, flange width 5 to 46 mm		0.30 × 0.26	21.7	25	4015.211

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Using the cantilever method for the FlexBeam aluminium U-beam, U-FlexBeams can be used to assemble surface scaffolding underneath a bridge – incrementally, quickly, without improvisation and more safely too. To do so, only three components are needed as tools – the roller unit, the receiving bracket and the fitting retainer.

The **castor unit** 1 is used for moving the beam. The FlexBeam aluminium U-beam is placed onto the **support bracket** 2, and the **assembly support** 3 secures the positioned beam. The basis for the cantilevered structure is formed by an already suspended scaffolding.

Step 1: Fit the receiving bracket to the frontmost FlexBeam. Then fasten the front and rear roller units of the longitudinal beams to the already assembled U-FlexBeams with a spacing appropriate for high structural strength. After that, insert the longitudinal beams into the roller unit.

Step 2: Place the transverse U-FlexBeams, with pre-fitted suspension shoes, onto the receiving brackets and secure them. Opposite the receiving bracket, hook in the fitting retainer and connect it to the receiving bracket by means of a double wedge head coupler. The wedges are only inserted here, not hammered in.

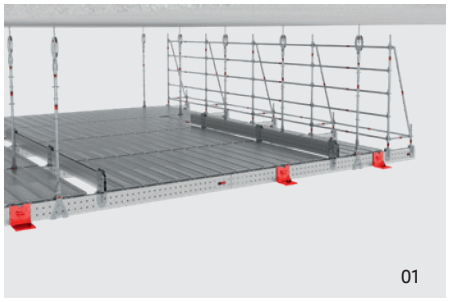
Step 3: Fit the roller unit to the transverse beam positioned at the front. Push out the longitudinal beams a very short way and secure them with pins as stops.

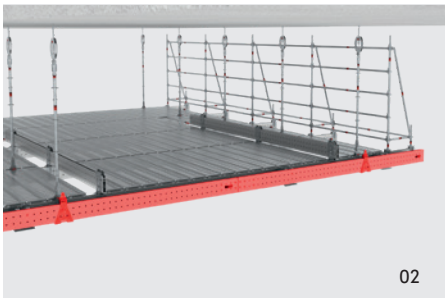
Step 4: Push the longitudinally extending U-FlexBeam one bay forwards. The beam is also secured at the rear with a pin as the stop.

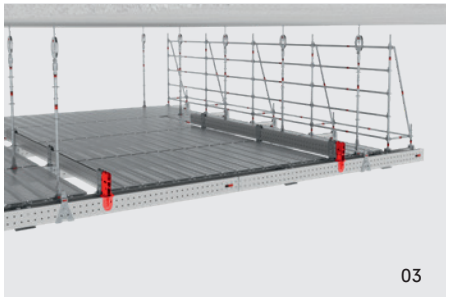
Step 5: Undo the double wedge head coupler, remove the fitting retainer and push the transverse beam section one bay in the construction direction using decks.

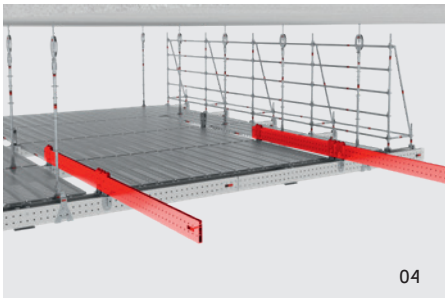
Step 6: Lay out decks and fit the suspension parts.

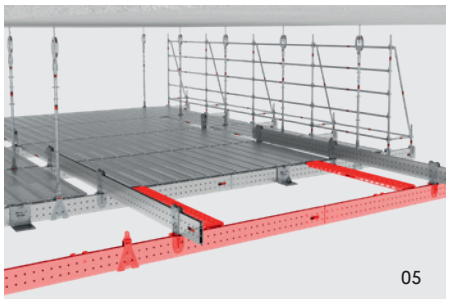
Assembly steps

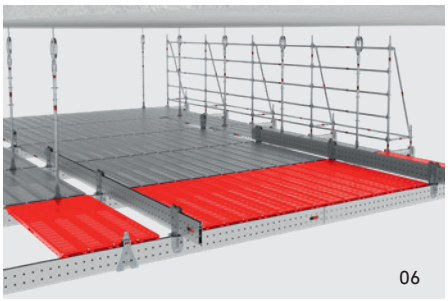












Repeat these steps bay by bay. Reposition the rearmost roller unit onto the frontmost transverse beam (see step 3). Secure all components with a pin.

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Pos.	Description	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**Castor unit for U-FlexBeam** for cantilevered construction	13.4	25	2657.190
2	**Support bracket for U-FlexBeam** for cantilevered construction	10.3	50	2657.191
3	**Assembly support for U-FlexBeam** for cantilevered construction	3.4	250	2657.192

Allround Wall Bracket

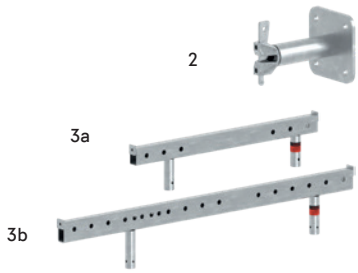
A wall bracket is used in scaffolding construction to support scaffolding on the facade. The conventional and previously known brackets are steelwork-based designs made from, for example, I-sections which are heavy and awkward to handle. This greatly hinders assembly.

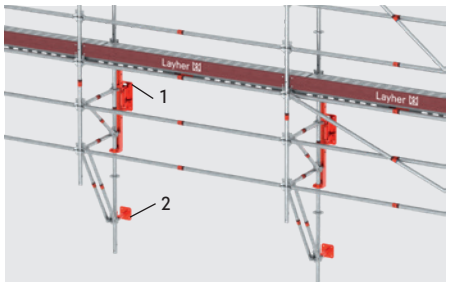
The new Allround wall bracket – consisting of the **wall connection unit** 1 and **pressure support** 2 – is by contrast lightweight, small and handy. That makes it ideal for quick attachment to the facade. In combination with the components from the Allround construction kit, they enable a wide range of possible configurations to be created. Building of the facade scaffolding can continue using both Allround components and the modular access system AGS for facades.

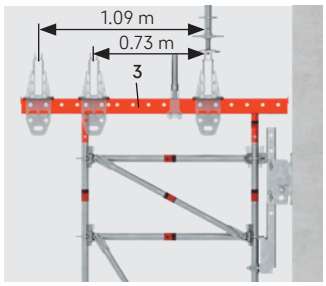
If one or more wall brackets cannot be arranged on the wall in the axis dimension of the scaffolding structure (e.g. in the case of window openings), or to further reduce the assembly effort, the Aluminium FlexBeam can be used to absorb the loads.

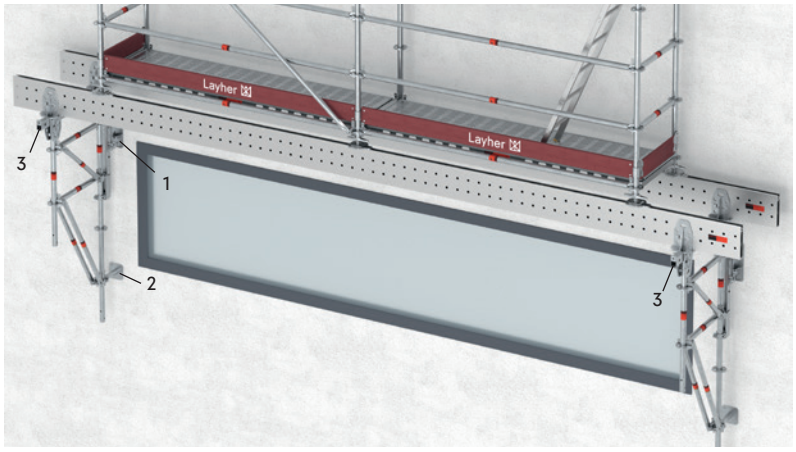
The transition between the wall bracket and the Aluminium FlexBeam is created with a **FlexBeam crosspiece** 3 and the cross-connector (see page 56).

The wall connection unit can be dismantled completely









Pos.	Description	WS [mm]	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**Allround wall connection unit**	19		25.8	40	2632.500
2	**Allround pressure support**			2.4	100	2632.501
3	**FlexBeam crosspiece**		0.73	7.1	50	2657.073
			1.09	22.7	50	2657.109

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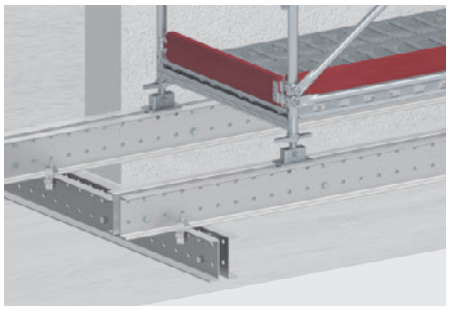
Aluminium TwixBeam

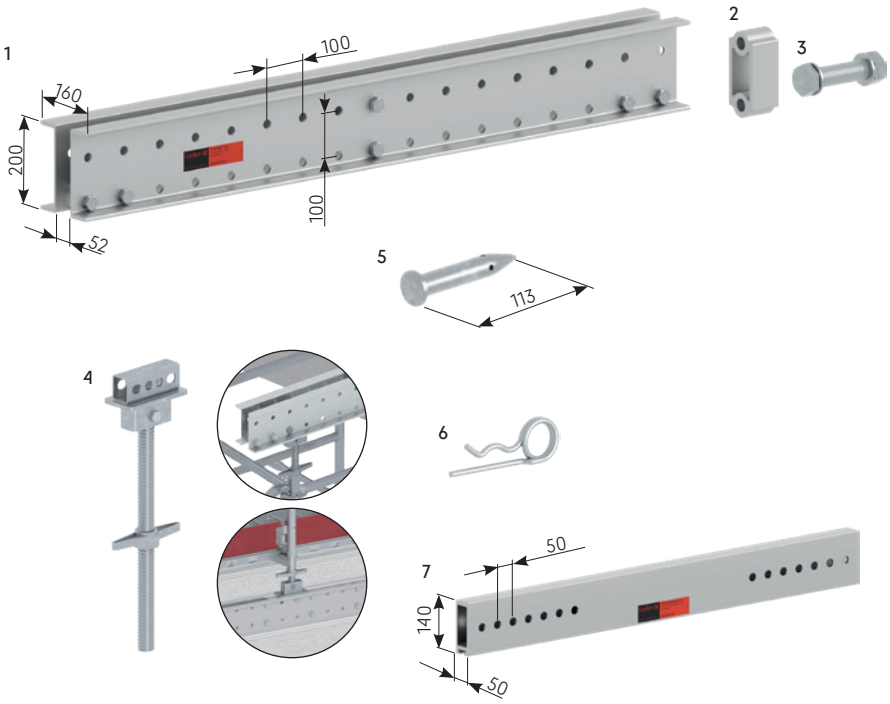
The high-strength, multifunctional **aluminium TwixBeam** 1 from Layher – consisting of two bolted aluminium U-sections with a height of 200 mm – has a wide range of possible uses, both in shoring construction and in scaffolding construction. The TwixBeam is available in lengths from 0.80 m to 6.60 m. The beam is characterised by high load-bearing capacity yet low weight. The bolted structure permits dismantling of the beam for different applications.

	TwixBeam	Beam connector
Height [mm]	200	140
Width [mm]	160	50
Weight [kg/m] completely assembled	ca. 13.0	ca. 7.0
Bending stiffness EI [kNm²] gross	1.760	440
Bending moment M_{Rd} [kNm]	57.1	22,2
Shear force V_{Rd} [kN]	226	138

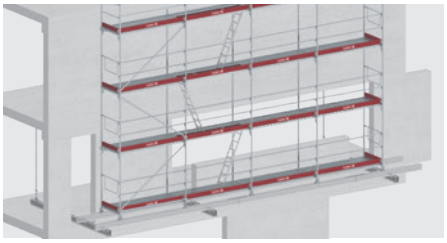
The **articulated TwixBeam spindle 60** 4 is inserted into the 52 mm-wide intermediate area of the beam and pinned in place. It can be used as a head jack or base plate. Standard or suspended structures can be built by passing through an Allround standard or the swivelling spindle. The spindle strut (patent pending) permits stiffening or bracing of various structures – it can transmit tensile and compressive forces. Beam connector and **insertion beam** 7 complete the system for flexible adaptability to all site conditions and contours.

For grid structures, the TwixBeam can be placed above the other. The connection is made by beam clamps or the corner connector 4041.012.

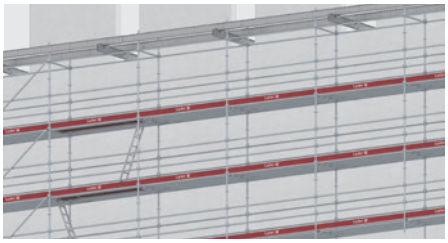




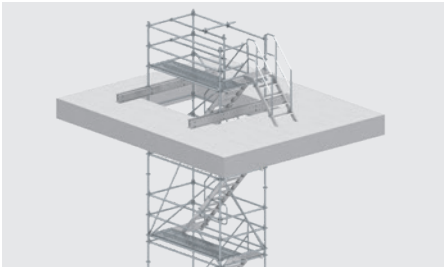
Application examples in scaffolding construction



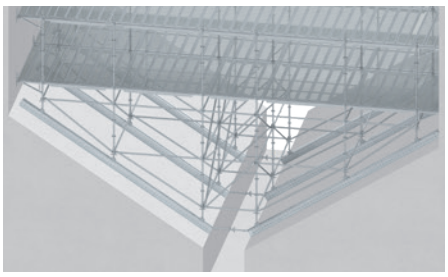
Standard structures
Standard bracket scaffolding – TwixBeam structure assembled as a grid



Suspended structures
Suspended bracket scaffolding – Twix- Beam structure assembled as a grid. Suspension made by through-passing standards.



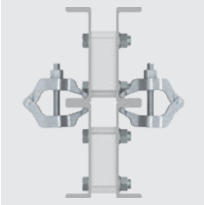
Staircase suspension
The slab cut-out can be bridged by using the Twix-Beam. The staircase can be assembled suspended, from the top downwards.

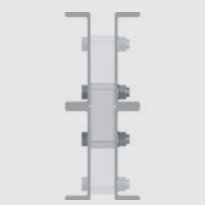


Further application examples
E.g. Beam structures for adjustment to funnel-like boiler.

Learn more on YouTube
Aluminium TwixBeam in scaffolding construction

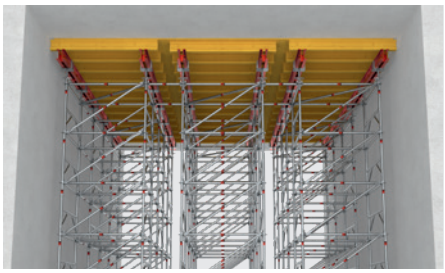
To increase the loading capacity, the beams can also be mounted one above the other in the same direction. They are secured using beam clamps or by an offset arrangement of the spacer.



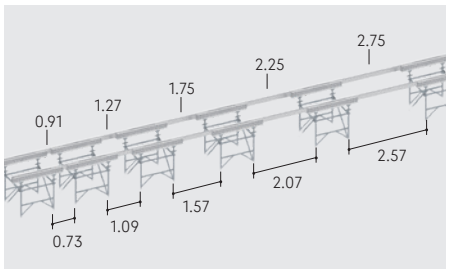


Learn more on YouTube
Aluminium TwixBeam in shoring construction

Application examples in shoring construction

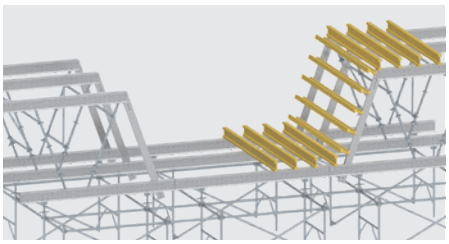


Main beam
Thanks to the high load capacity of the TwixBeam, the TG 60 can be used to the full and the weight advantage allows an easy striking.



Use as continuous beam
With the aid of the insertion beam in the intermediate area of the aluminium TwixBeam, or by using the beam connector, main beams can also be constructed as genuine continuous beams.

Adjustment to the wall construction
The insertion beam permits, thanks to varying extension lengths, easy adjustment of the edge areas.



Further application examples
E.g. trussed-beam framework made of TwixBeam, insertion beam and TwixBeam struts – mounted on Shoring TG 60

Pos.	Description	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**Aluminium TwixBeam** completely assembled, with spacer, bolts and nuts	0.80	11.6	20	4041.080
		1.30	17.3	20	4041.130
		1.70	23.1	20	4041.170
		2.10	27.6	20	4041.210
		2.60	34.6	20	4041.260
		3.10	40.3	20	4041.310
		3.60	47.3	20	4041.360
		4.60	60.0	20	4041.460
		5.60	72.6	20	4041.560
		6.60	85.3	20	4041.660
2	**TwixBeam Spacer**		0.5	250	4041.000
3	**Bolt M20 x 90 mm** with nut an washer		3.8	10 ▦	4041.004
4	**Articulated TwixBeam spindle 60** solid, for the head and bottom area, max. inclination angle 45°	0.60	8.2	100	4041.002
5	**Bolt 20 x 113 mm**		3.0	10 ▦	2646.281
6	**Securing pin d=4 mm**		1.5	50 ▦	5905.002
7	**TwixBeam insertion beam**	0.49	3.4	30	4042.049
		0.91	6.3	30	4042.091
		1.27	8.9	30	4042.127
		1.75	12.4	30	4042.175
		2.25	15.9	30	4042.225
		2.75	19.5	30	4042.275

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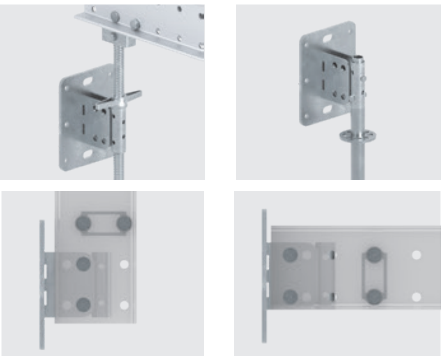
= delivery time on request ▦ = only available in this packaging unit = the approval process is not yet completed

The **wall shoe for TwixBeam aluminium beam** 4 allows the TwixBeam to be used directly on the wall. The tube at the front with the integrated cross hole allows a threaded spindle to be attached to support the TwixBeam beam or to suspend Allround Scaffolding standards. Upright scaffolding constructions are also possible by bolting in a tube connector.



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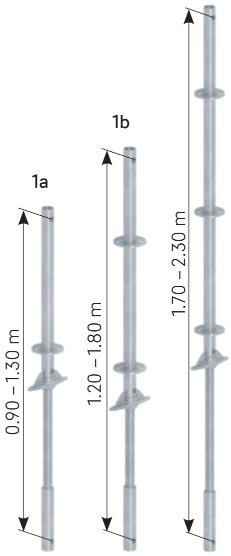

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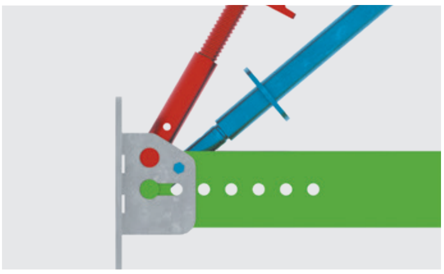
The **wall shoe for TwixBeam insertion beam** 5 has connection options for either standards (blue), TwixBeam spindle struts (red) or for the insertion beam (green).



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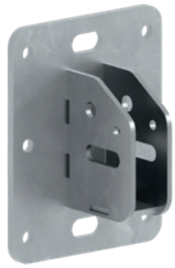
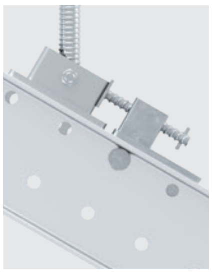


The **spindle and standard adapter** 6 allows a spindle or an Allround Scaffolding standard to be attached.

6

The **TwixBeam Stopper** 7 counteracts the downward force of the TwixBeam spindle on inclined constructions outside the hole pattern of the TwixBeam. The stopper is simply connected to the TwixBeam with bolts and pins.



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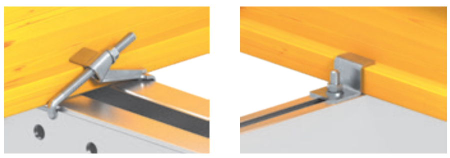

The **TwixBeam H-20 beam clamp** 8 and the **TwixBeam H-20 beam clamp for insertion beams** 9 secure the H-20 wooden formwork beam.

The **TwixBeam corner connector** 10 allows several TwixBeam supports to be connected at an angle. It is secured with bolts and locking pins.

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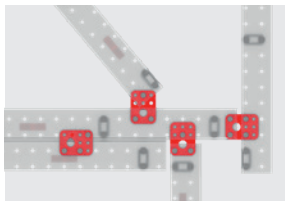
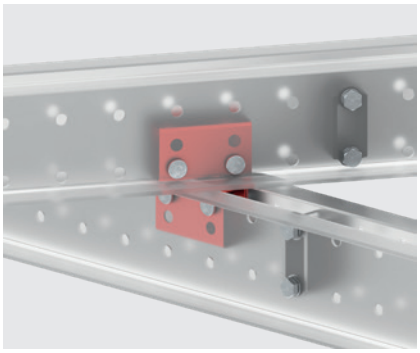


The **TwixBeam corner connector** 10 allows several TwixBeam supports to be connected at an angle. It is secured with bolts and locking pins.

The **TwixBeam cross-connector** 11 allows two TwixBeam beams mounted on top of each other to be connected at any angle. The cross connector is inserted into the space between the two beams and secured with bolts or screws.

11



Pos.	Description	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**TwixBeam Spindle strut** to transmit tensile and compressive forces	0.90 – 1.30	11.0	50	4043.130
		1.20 – 1.80	15.3	50	4043.180
		1.70 – 2.30	18.1	50	4043.230
2	**TwixBeam beam connector**	0.80	16.4	50	4041.001
3	**TwixBeam standard connection**	0.54	2.3	100	4041.003
4	**Wall shoe for TwixBeam aluminium beam**		10.3	50	4041.005
5	**Wall shoe for TwixBeam aluminium insertion beam**		10.5	50	4041.006
6	**TwixBeam spindle and standard adapter**		2.9	100	4041.007
7	**TwixBeam Stopper**		2.8	100	4041.008
8	**TwixBeam H-20 beam clamp**		0.8	250	4041.009
9	**TwixBeam H-20 beam clamp for aluminium insertion beams**		0.3	1000	4041.010
10	**TwixBeam corner connector**		2.8	150	4041.011
11	**TwixBeam cross-connector**		2.1	200	4041.012

WS = wrench size **LC** = load class **PU** = packaging unit IND = products can be customized = new in the catalogue = available ex works
= delivery time on request = only available in this packaging unit = the approval process is not yet completed

Shoring TG 60

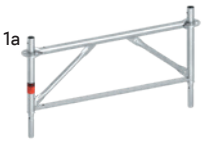
The shoring TG 60 ensures a fast, flexible and safe assembly of shoring towers. The heart of the TG 60 are the **shoring frames TG 60** 1 with integrated rosettes. All frames are symmetrical parts, thus the orientation of the diagonal braces can be varied. The Allround shoring TG 60 is able to bear up to 6 tons per standard.

The structural analysis of the Allround shoring TG 60 complies to DIN EN 12812. The adaptation to the dimension of the formwork beams can be easily made by using different Allround ledgers and diagonal braces from 1.09 m to 3.07 m (see figure "bay length adaptation").

Thanks to the perfect compatibility to Allround Scaffolding, the towers of the TG 60 can be adapted flexibly to any building condition. The shoring tower TG 60 can be assembled in horizontal position on the ground. Then the tower will be placed by crane. Otherwise it can be assembled in vertical position – optionally directly at the place of action or somewhere else, with placing it with its quickly mounted castors.

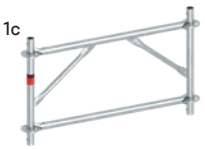
The Allround shoring TG 60 has an integrated advanced guardrail without any accessories for assembly in vertical position. For the Allround shoring TG 60, only solid base plates may be used.

1a



1b

1c



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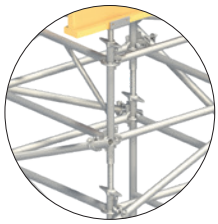


3

4

Castor
see page 74

Combination variants

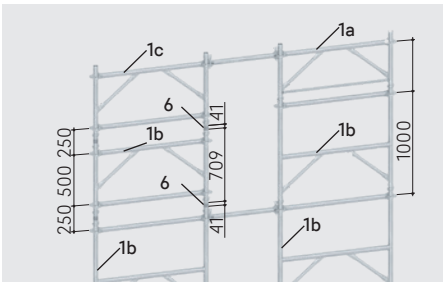
Tower variant 1
Base frame mounted at tower head

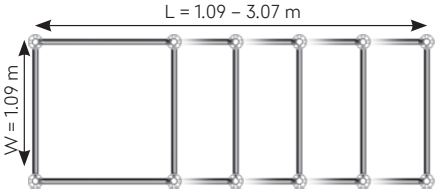
Tower variant 2
Spacer frame mounted at tower head

5

6

7





Bay length adaptation with Allround serial ledgers from 1.09 m to 3.07 m.

8a

8b

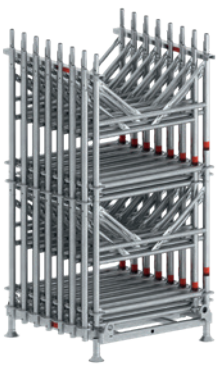
9

10

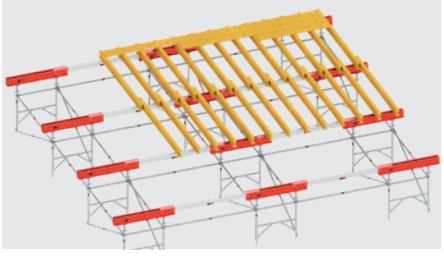
11

13

14

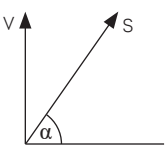


Learn more on YouTube
Allround Shoring TG 60



TwixBeam combined with Allround Shoring TG 60

12



Load-capacity:
α = 90 – 60°: 17.5 kN
α = 60 – 45°: 11.2 kN
α = 45 – 30°: 7.3 kN

Pos.		Description	WS [mm]	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1		**Shoring frame TG 60**					
	a	spacer fram, with spigot at the bottom, steel, hot-dip galvanised		0.50 × 1.09	13.0	21	2602.036
	b	standard frame, with spigot at the bottom, steel, hot-dip galvanised		1.00 × 1.09	17.7	21	2602.035
	c	base frame, without spigot, steel, hot-dip galvanised		0.71 × 1.09	15.9	21	2602.034
2		**Intermediate jack** for height adjustment or inclined ceilings		0.80	8.3	100	2602.038
3		**Spindle support** for placement by crane or by castors, steel, hot-dip galvanised			0.8	450	2602.033
4		**Castor adapter** with 2 wedge heads			6.4	50	2602.040
5		**Shoring spigot** for use of the initial frame as tower head, spigot is secured with 2 hinged pins			1.1	350	2602.032
6		**Shoring spacer with spigot** for use of the base frame at the tower head, spigot is secured by 2 hinged pins, the spacer allows the combination of the shoring towers			1.3	250	2602.037
7		**Shoring frame pallet** for use with 22 shoring frames each level, stackable, craneable, optimised for truck beds		1.20 × 1.10	53.7	10	5113.003
8		**Loading and stacking securing profile**					
	a	for use at the stack head with upwards pointing spigots		1.20	3.9	50	5113.004
	b	for use at the stacking head without upwards pointing spigots (e.g. for stacking of initial frames)		1.20	3.4	10	5113.005
9		**Aluminium section beam with wood**					
		3.00 m long, with riveted-in wood section, with holes drilled for connection by means of beam connectors		3.00	18.0	48	4026.300
		4.00 m long, with riveted-in wood section, with holes drilled for connection by means of beam connectors		4.00	24.0	48	4026.400
10		**Beam connector**		1.20	6.6	100	4026.000
11		**Beam connector bolt** M12 x 70 mm, with nut			0.7	10	4026.003
12		**Fastening for crane transport**			3.4	100	2630.000
13		**Adapter for ledger connection**	19		1.0	500	4719.019
14		**Shoring TG 60 frame set**					
		consisting of 88 shoring frames 2602.036 on frame pallet			1.205.5	1	2602.043
		consisting of 44 shoring frames 2602.035 on frame pallet			840.3	1	2602.041
		consisting of 22 shoring frames 2602.034 on frame pallet			410.3	1	2602.042

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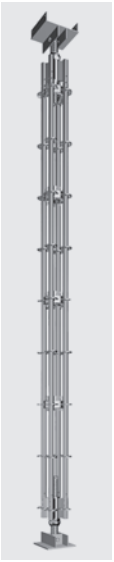
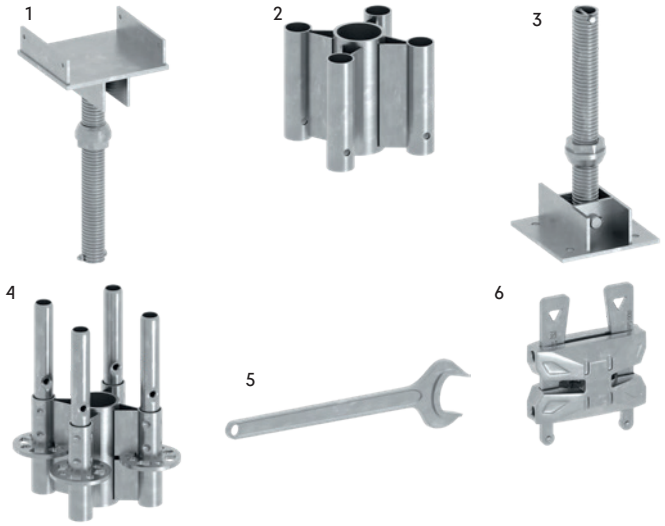
Heavy-duty column / Heavy Duty Tower

An extremely high load-bearing capacity is achieved by combining four Allround standards. Specially developed top and base pieces, and heavy-duty spindles fitted into the latter, permit a multiplication of the individual load capacities of each standard.

These individual elements can then be expanded, with the aid of further Allround standard elements, into any spatial structures required.

A comprehensive type test TP-24-0005 is available for the heavy-duty support and the heavy-duty tower.

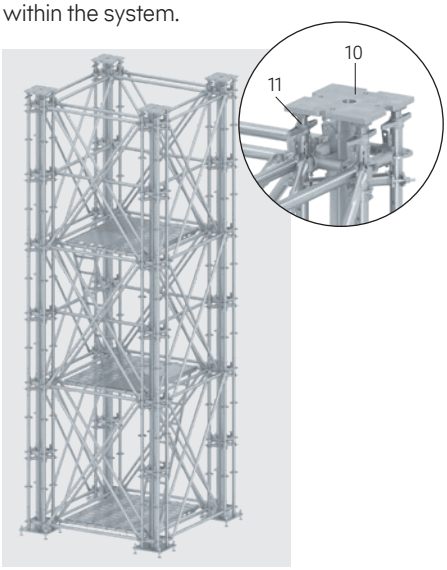


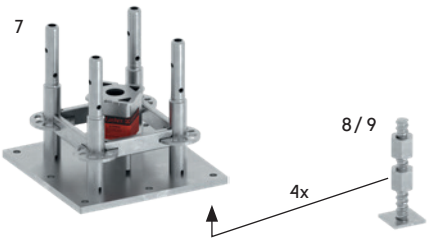


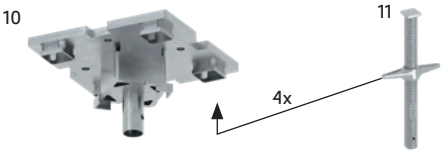
Heavy Duty Tower XL

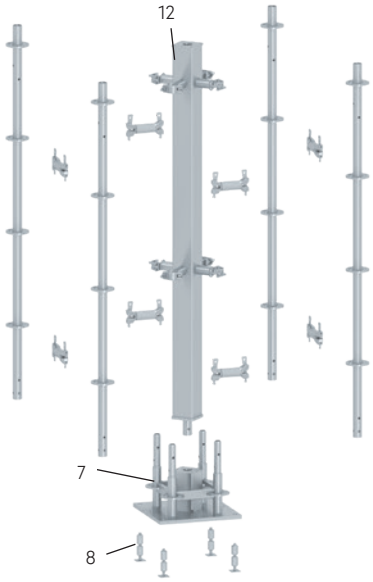
For construction projects where very high loads have to be transmitted at some points, for example in bridge building, shoring of particularly high load capacity is needed. Heavy shoring structures using steel sections are frequently used here. With the Allround Heavy Duty Tower XL, Layher is now offering a modular and system-integrated shoring tower based on standard Allround Scaffolding parts.

With a few lightweight components supplementing the proven Allround Scaffolding construction kit, load capacities in the mega newton class are attained, yet easy to handle for better logistics and assembly – even when no crane is available – and permitting integrated work platforms and accesses within the system.









Pos.		Description	WS [mm]	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1		Head jack for heavy-duty column		0.70	30.9	25	5312.004
2		Head part for heavy-duty column		0.21	7.1	100	5312.003
3		Base plate for heavy-duty column		0.70	24.1	40	5312.001
4		Base piece for heavy-duty column		0.40	11.5	48	5312.002
5		Single open-end wrench	95	0.60	7.0	1	5312.005
6		Wedge-head coupler double			1.2	25	2629.000
7		Base plate XL		0.45 × 0.45	46.9	8	2612.000
8		Adjustable foot without nut			6.0	20	2612.005
9		Nut 30 x 15 mm	30		1.5	10	2646.231
10		Head plate XL		0.35 × 0.35	21.7	20	2612.002
11		Head jack		0.46	3.0	250	2612.003
12		Section	19	0.50	13.5	50	2612.050
			19	1.00	21.0	15	2612.100
			19	1.50	32.5	20	2612.150
			19	2.00	40.0	8	2612.200
13		Lowering wedge, 1000 kN	80		53.3	12	2612.004
14		Beam clamp					
	a	clamping width 5 to 70 mm, with approval Z-8.34-873			1.6	600	5310.001
	b	clamping width 12 to 50 mm			1.5	450	5310.000
15		Compensation element		0.20	5.0	50	2612.020

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Allround Modular stairtower

Layher has now further optimized the use of the Allround system as a scaffolding stair-tower – assembled from standard scaffolding components and prefabricated stairways with integrated platforms. Thanks to a newly developed 2.21 m long vertical Allround standard, this tower can now be preassembled as required, on the ground and section by section, before being moved by crane to form a tower with unidirectional or alternating stairways. Construction companies benefit in this way from an even easier, faster and above all safer assembly and modification, and from an increased height clearance of 2.20 m that makes its use even more convenient.

The advantages over expensive one-off structures or ad-hoc solutions made of timber are persuasive: rapid and economical assembly, optimum conditions for construction workers thanks to a high degree of safety during use, and exact matching to existing conditions.

For securing of every floor, hinged pins are used.

For the Allround modular stairtower, a type testing for assembly heights up to 115 m is available.

Additional equipment for end module (O-version)

Description	PU [pc.]	Ref. No.
Internal stairway guardrail 1.50 m*	1	1752.012
Standard LW 1.00 m	4	2617.100
O-ledger LW 1.40 m	4	2601.140
O-ledger LW 2.57 m	4	2601.257
Guardrail post 1.30 m	1	2638.400
O-ledger LW 1.90 m with wedge head and U-fork	2	2638.401
O-steel deck LW 2.57 x 0.32 m	2	3890.257

* only for alternating assembly

Stairway module, unidirectional (O-version)

Description	PU [pc.]	Ref. No.
O-comfort stairway 2.57 x 0.65 m	1	2635.257
Stairwell guardrail 1.00 x 0.50 m, WS 19	1	1752.004
Internal stairway guardrail	1	1752.007
Initial standard LW 2.21 m	4	2617.221
O-ledger LW 1.40 m	8	2601.140
O-ledger LW 2.57 m	8	2601.257
Diagonal brace LW 1.40 x 2.00 m	2	2683.140
Diagonal brace LW 2.57 x 2.00 m	2	2683.257
O-steel deck LW 2.57 x 0.32 m	2	3890.257

Compact stairtower

In its standard version, the **compact stair-tower** conforms to German regulations on "stairways for building work" and fits into many stairway recesses in buildings to house one or more families. The stairway can be integrated into Allround work scaffolding. The use of standard parts means that only a few additional parts are needed.

Surface area without brackets:
1.57 x 1.40 m.
Exit clearances:
2.50, 2.75 or 3.00 m possible.

Permissible load capacity: 2.0 kN/m²

1

2

3

4

Pos.	Description	WS [mm]	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**U-stair** 1.25 x 0.60 m, steel for 1.57 m bay, step height 0.25 m		1.25 × 0.60	32.5	12	2636.125
2	**U-ledger with bearer** 1.40 m for compensating 25 cm		1.40	9.0	50	2618.141
3	**Compact stairtower ledger** 0.79 m	19	0.79	3.4	100	2636.078
4	**Adapter plate** steel when placing the compact stair tower onto this adapter plate, it is easily possible to lay the screed.		0.15 × 0.15 × 0.20	1.3	100	2636.124

Stairway module, alternating (O-version)

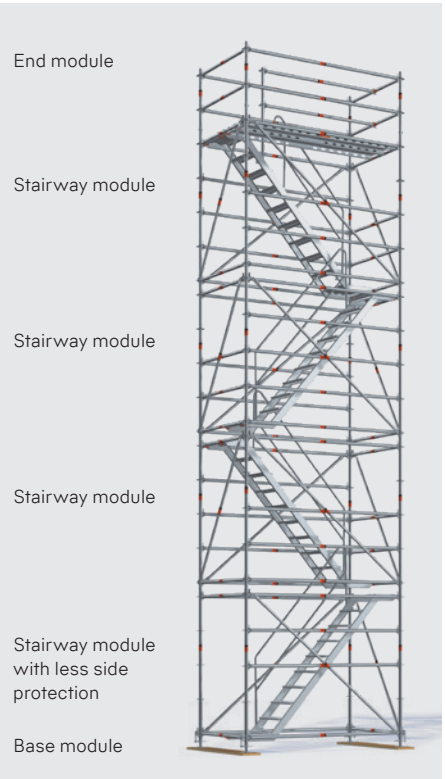
Description	PU [pc.]	Ref. No.
O-comfort stairway 2.57 x 0.64 m	1	2635.257
Internal stairway guardrail WS 19	1	1752.007
Initial standard LW 2.21 m	4	2617.221
O-ledger LW 1.40 m	6	2601.140
O-ledger LW 2.57 m	9	2601.257
Diagonal brace LW 1.40 x 2.00 m	2	2683.140
Diagonal brace LW 2.57 x 2.00 m	2	2683.257

Base

Description	PU [pc.]	Ref. No.
Base plate 60	4	4001.060
Spindle support	4	2602.033

Learn more on YouTube
Allround Modular Stairtower

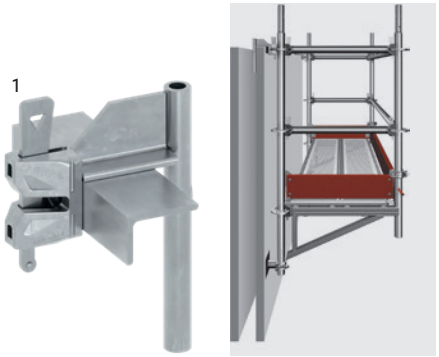
Alternating (O-version)



Hollow wall bracket

The **hollow wall bracket** allows concreting work on prefabricated element walls. Forget about timeconsuming timber structures – simply suspend the bracket from the top of the wall and lay system decks on it – that's all.

1



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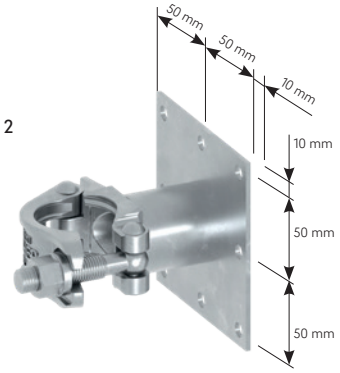

Pos.	Description	WS [mm]	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**Hollow wall bracket adapter** steel, hot-dip galvanised			2.3	200	2602.400
2	**Half-coupler with plate** for supporting the scaffolding structure against the wall; 120x120 mm; drillings d=10 mm	19	0.12 × 0.12	1.5	25	4705.019

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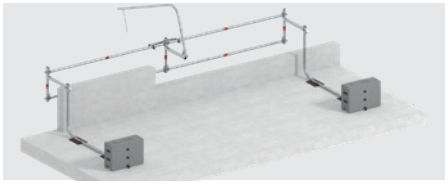
Fall protection

According to German regulations DGUV 101-038 relating to construction work, a fall protection system must be provided for work areas and walkways on roofs and ceilings with more the 22.5° inclininationation where the height of the fall is more than 3.00 m. The flat roof guardrail meets these requirements for safeguarding flat roofs. A few parts (e.g. **flat roof guardrail post** 1, **flat roof shift preventer** 5, **flat roof guardrail stiffener** 4, **flat roof ballast 19 kg** 8, **support for flat roof guardrail** 7, **wheel set** and **flat roof wheel set** 3) in addition to the already provided ledgers enable variable fall protection systems to be assembled quickly and easily. The maximum ledger length between two **flat roof guardrail posts** 1 is 3.07 m.

Flat roof without fascias

Flat roof with fascias

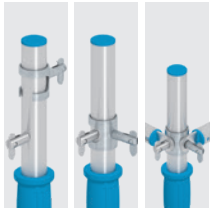


Flat roof with high fascias

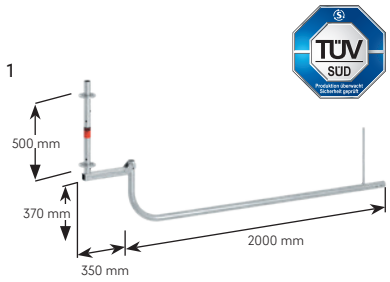
The **advance guardrail post** 11, the **telescoping assembly guardrail** 12 and the **advance end guardrail** 13 are used to assembly from secured position.

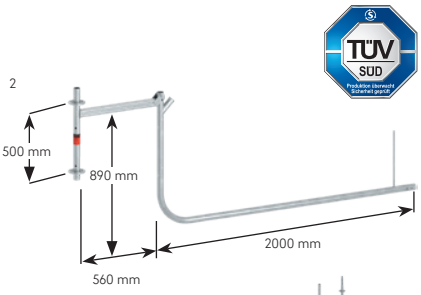
Extension lengths

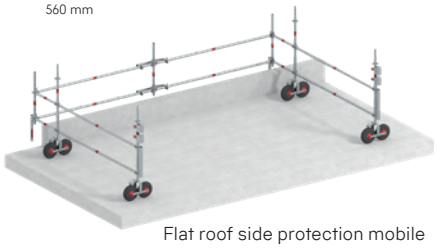
Article	L_{min}	L_{max}
Advance guardrail 1.57 / 2.07 m	1.57 m	2.90 m
Advance guardrail 2.07 / 3.07 m	2.07 m	3.70 m



With the **tilting pin adapter** 14 two guardrails can be fittet to one guardrail post at a 90° angle to one another.

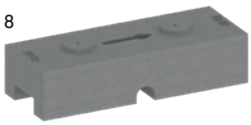






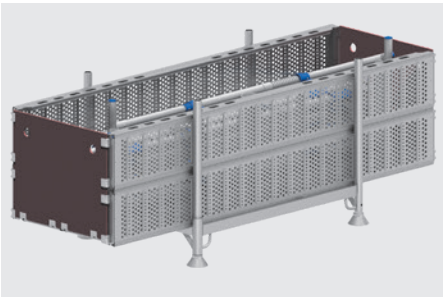
Flat roof side protection mobile

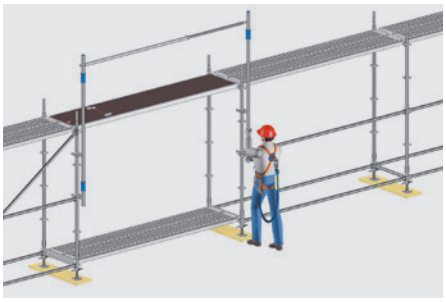
Always comply with instructions for assembly and use.



Color may vary
(grey / black)

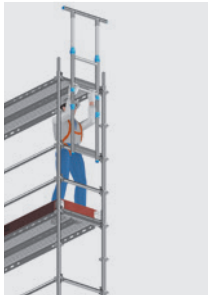
The box can contain approx:
36 Advance Guardrail Posts
36 Assembly Guardrails
2 Advance End Guardrails





The advance guardrail an be used for the access bay or over several bays.

The instructions for assembly and use of the Allround Scaffolding System must be complied with.



The advance end guardrail is used by placing the bottom U-section on the lower guardrail. The upper U-section must been pulled down to fit into place under the deck ledger. By letting go the advance end guardrail will be secured.

Pos.	Description	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**Flat roof guardrail post** steel, for low roof edges	2.40	13.1	20	2666.010
2	**Flat roof guardrail post, offset** steel, for high roof edges	2.70	16.2	20	2666.011
3	**Flat roof wheel set**	0.60 × 0.50	6.4	20	2666.015
4	**Flat roof guardrail stiffener** steel	0.60	4.1	60	2666.030
5	**Flat roof shift preventer** steel	0.50	1.9	200	2666.020
6	**Standard lock** 0.50 m	0.58	4.0	100	2603.000
7	**Support for flat roof guardrail**	0.30 × 0.23	0.6	400	2666.050
8	**Flat roof ballast 19 kg**	0.69 × 0.25 × 0.16	19.0	50	2666.060
9	**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	100	1249.000
10	**Flat roof toe board support**	0.04 × 0.13 × 0.13	0.7	300	2666.070
11	**Advance guardrail post T19** aluminium for two advance guardrails (0.50 m and 1.00 m height), rapid guardrail assembly with a tilting pin		6.0	50	4031.003
12	**Assembly guardrail T19**				
	1.57 / 2.07 m, aluminium, telescopic	1.70	2.9	50	4030.207
	2.07 / 3.07 m, aluminium, telescopic	2.30	3.7	50	4030.307
13	**Advance end guardrail** aluminium for securing the scaffolding end, for bay width of of 0.73 m to 1.40 m	2.20 × 0.70	9.8	1	4031.000
14	**Tilting pin adapter** for use of the advance guardrail at outer and inner corners		0.3	10	4031.005
15	**End plate for transport box** plywood, easy fixation by the u-claws of the scaffolding decks	0.72 × 0.60	2.4	120	5105.072

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Safety gear

The **PPE safety harness** 1 has impressive features:

- Comfortable, padded and ergonomic back support.
- Convenient tool holders and click-locks for easy fastening.
- High operational dependability and absolute freedom from maintenance, plus very simple fastening.
- Operating errors are not possible, as the equipment operates in any position.
- Excellent running, even under gruelling working conditions.
- Enormous distribution of forces in the event of a fall

Before use, visual checks must be performed regularly to ensure correct working order. In accordance with German BGR 198 regulations, all personal safety equipment must be inspected at least once a year by an expert. The maximum permissible period of use for the equipment must not be exceeded.

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Pos.	Description	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.	
1	**PPE safety harness** with extension 0.50 m conforms to EN 361		1.8	1	5969.161	
2	**PPE flex safety rope** 2.00 m with fall arrester and snap hook FS 90, as per EN 354 / EN 355, self-shortening to reduce tripping hazards	2.00	1.1	1	5969.501	
3	**PPE scaffolding construction set** Backpack, safety harness and flex-safety rope 2.00 m (use exclusively for scaffolding construction)		3.5	1	5969.171	

Railing clamp

According to German regulations DGUV 38 relating to construction work, a fall protection system must be provided for work areas and walkways on roofs and intermediate levels. The **railing clamp** 1 meets these requirements for securing of concrete floors and fascias of 16 – 33 cm height and of flat roofs.

The back guard must be made in accordance with applicable regulations from tube / coupler, modular or frame scaffolding. The bay widths can be freely selected, max. 3.07 m long.

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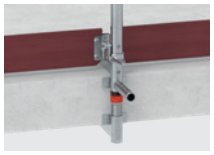
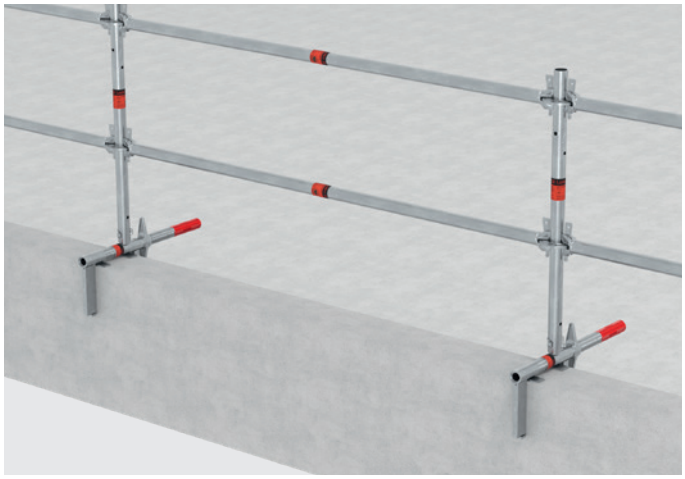
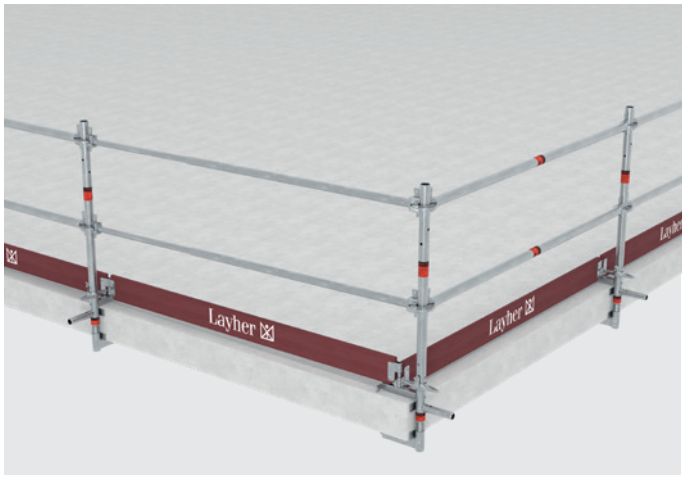


When attached to floors, toe boards must be provided, and the vertical stile must be attached over the spindle.

When attached to fascias, no toe boards are required, and the vertical stile must be attached over the spigot.



Example for use on fascia Example for



Example for use on floor slab

Pos.	Description	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**Railing clamp** Application height max. 100 m above ground; temporary side protection system according to DIN EN 13374 Class A	0.58	7.0	40	4015.100

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Mobile scaffolding, pallets, tools

If scaffolding is made mobile using castors, DIN 4420-3 applies. A structural analysis is generally required for this mobile scaffolding.

Robust **castors** 1 with twin brake (it brakes wheel and slewing ring) for various loads, offer a safer mobility of the scaffolding – without high effort.

Tube pallets in square shape (85) 5 or in **rectangular shape (125)** 4. The pallets are open on all sides. Tubes, standards, guardrails, diagonal braces, toe boards are transported and stored with this pallet. The empty pallets, stored permanently in the base frame using pallet posts, can be transported and stored in a space-saving way.

Following can be transported: 80 standards or 99 toe boards or 155 ledgers (pay attention to the perm. load of 1,500 kg) or 28 steel decks 0.32 m.

The **Modular pallet and skeleton box** 10/11 can be stacked with Euro pallets. Crane eyelets at top; an opening allows stacked material to be removed even if several pallets are stacked one above the other. The integrated timber base plate is 30 mm thick and it's nailed onto 50 x 50 mm square timbers.

The three-piece **scaffolding identification pad** 14 with carbon copy developed to tag work scaffolding. The right part is the inspection record for your files. Your client gets the carbon. On the back side of the carbon, important application notes are listed.

Identification and prohibition signs for work scaffolding as per DIN EN 12811-1. Suitable **see-through pocket T17 with STOP** 16 made of transparent plastic for weather protection.

The **scabbling pick, 600 g reinforced** 15 on the hammer head ensures a consistently safe use. The additional hardened inner tube provides a standard breaking strength. In addition, the reinforced scabbling pick has a patented head-stem-connection, which also forgives failures. The orange handle provides good handling, good cushioning and low-fatigue working.

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Application examples: Base plate 60 solid with double flange castor on tracks

Application examples: Double flange castor on tracks

Application examples: Base plate 60 solid with flange castor on 48.3 mm tube

Application examples: Flange castor on 48.3 mm tube

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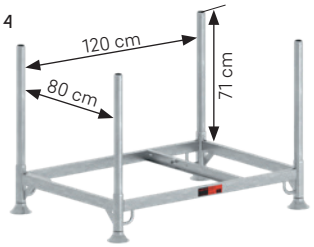

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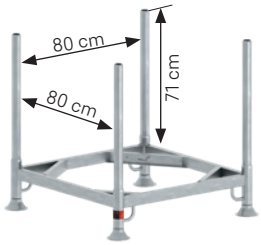

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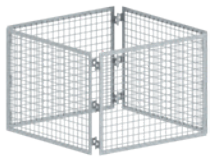

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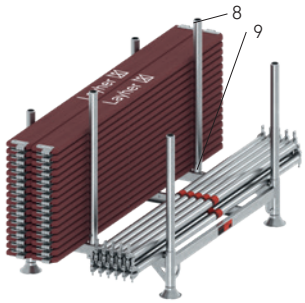

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Pos.	Description	WS [mm]	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	**Castor 1000** plastic wheel d=200 mm of polyamide. With base plate, adjustment range 0.30 – 0.60 m, spindle nut lock, with twin brake lever and load centering when braked. Permissible load capacity: 10 kN (≈ 1,000 kg)		d=0.20	6.3	70	1260.201
2	**Double flange castor T17** 75 mm secured by top plate, hole pattern 170 x 170 mm, d=18 mm, external d=238 mm, internal d=200 mm, without brake. Permissible load 31 kN		d=0.238	21.4	40	5216.076
3	**Flange castor** for 48.3-mm-tube, secured by top plate, outer hole pattern 170 x 170 mm, d=18 mm, inner hole pattern 126 x 126 x 13 mm (slot hole 13 x 28 mm), without brake. Permissible load: 31 kN		d=0.23	16.8	40	5221.048
4	**Tube pallet 125** steel, hot-dip galvanized, length of push-on tubes: 0.86 m, load 1500 kg		1.37 × 0.97	32.0	10	5105.125
5	**Tube pallet 85** steel, hot-dip galvanised, length of pallet posts: 0.86 m, load 1,500 kg, external dimensions 0.97 x 0.97 m		0.97 × 0.97	30.8	10	5105.085
6	**Timber base plate**		0.88 × 0.88	4.1	50	5104.088
7	**Mesh box insert** steel, hot-dip galvanised, load 1,500 kg			22.0	10	5104.086
8	**Plug tubes 860** for tube pallet 125 and 85		0.86	2.6	50	6494.751
9	**Spigot for tube pallet** to create partitions with the plug tube 860 for stocking of different components		0.31 × 0.06	1.5	200	5105.000
10	**Euro modular pallet H=61 cm** steel, hot-dip galvanised, Internal dimensions 1.08 x 0.68 x 0.61 m, load 2,000 kg, perm. onload 6,000 kg, stackable with Euro pallets		1.20 × 0.80	45.0	5	7042.004
11	**Modular skeleton box with timber base plate**		1.20 × 0.80	85.8		5113.002
12	**Ratchet wrench** for WS 19 and 22 mm, with reversing lever for right-hand and left-hand operation, mandrel for ring bolts	19 & 22	0.32	0.6	1	4747.000
13	**Magnetic spirit level**			0.4	1	4006.666
14	**Scaffolding identification pad** pad with 50 + 50 pieces (Original + Carbon) with centre perforation and foldover as carbon-block		DIN A4	0.5	1	6344.500
15	**Scabbling pick, 600 g reinforced**		0.32	0.8	1	4421.051
16	**See-through pocket** for Ref. No. 6344.400, 10 pcs. with integrated prohibition sign		0.30 × 0.17	0.3	10	6344.011

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Layher

More Possibilities. The Scaffolding System.

Customer proximity is a key success factor for Layher – also in a geographical sense. That is why we are present with ideas and solutions wherever our customers need us.

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