

LAYHER ALLROUND SCAFFOLDING SYSTEM® CATALOGUE



Edition 04.2016
Ref. No. 8116.253

Quality management
certified according
to ISO 9001:2008
by German TÜV-CERT





COMPANY

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More speed	5
More experience	5
More knowledge	5
More clarity	5
More quality	5

SCAFFOLDING

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BASIC

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PRODUCT- PORTFOLIO



The Layher product range –
all catalogues at a glance

Speedyscaf System	Ref. No. 8102.257
Allround Scaffolding System	Ref. No. 8116.253
System-free Accessories	Ref. No. 8103.255
Protective Systems	Ref. No. 8121.254
Event Systems	Ref. No. 8111.228
Rolling Towers Ladders and Stairs	Ref. No. 8118.227

NOTICE

All dimensions and weights are guideline values.
Subject to technical modification.

Steel components are galvanized according to
EN ISO 1461 and DAST guideline 022. Connection
parts are galvanized according to EN ISO 4042.

Our deliveries shall be made exclusively in
accordance with our currently valid General Terms
of Sale. These include the following provisions: The
place of performance is Gueglingen-Eibensbach.
Title to the delivered goods shall be retained until
full payment has been made.

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

QUALITY MADE BY LAYHER



Headquarter in Eibensbach



Plant 2 in Gueglingen

HERE IS THE BEATING HEART OF LAYHER.

Quality made by Layher comes from Gueglingen-Eibensbach. Our company has set down deep local roots since it was established. Right up until today, development, production, logistics and management are all in one place, where the conditions are best for achieving quality made by Layher: in Gueglingen-Eibensbach. The two locations together cover a surface area of 318,000 m². This includes more than 142,000 m² of covered production and storage areas. This is where our scaffolding systems are created by highly automated production. Short distances and short reaction times mean we can adapt production to suit our customers' requirements, flexibly and at any time.

MORE POSSIBILITIES. THE SCAFFOLDING SYSTEM.

This brand promise made by Layher is the expression of a brand philosophy that we've been living by for over 70 years. More speed, more safety, more proximity, more simplicity and more future: values with which we strengthen our customers' competitiveness in the long term. With our innovative systems and solutions, we're working all the time on making scaffolding construction even simpler, even more economical and, above all, even safer. With comprehensive services, a permanent range of training courses and an ethos of customer focus, more than 1,500 dedicated Layher employees are creating more possibilities for our customers every single day. In more than 35 countries all over the world.



MORE INFORMATION

Discover the world of Layher in its company film at:
grimageen.layher.com





MORE SPEED

We can supply any required quantity of the right products at the right time – to anywhere in the world. Layher has subsidiaries in more than 35 countries in all five continents, with a tight-knit network of national service centers. Speed is also the motto of our logistics concept. Customers have the choice of picking up their material at a Layher service center or having it delivered either to a warehouse or “just in time” directly to the site.



MORE EXPERIENCE

Tradition has grown into experience and expertise. Our experts pass on this knowledge – all over the world. Existing customers might want to try a different approach, while new customers might need support when assembling a Layher scaffolding structure. Layher’s specialists get to grips with the specific tasks and requirements, devising for our customers persuasive solutions that are both profitable and efficient. Good advice from Layher is guaranteed. We take care of our customers at every level, because cooperation with them on the basis of mutual trust as well as their success are important to us.



MORE KNOWLEDGE

Further training is the key to success. For this reason, Layher organizes regular training seminars that prepare our customers for current and future challenges specifically in scaffolding. This training scheme is backed up by many other options, for example practical product training courses and regular meetings for scaffolding erectors to promote the flow of information between experts and colleagues. And last but not least, Layher offers comprehensive publications on all topics to do with scaffolding construction.



MORE CLARITY

Saving time, using material in the best way, improving logistics. All that can be done with Layher’s planning software, LayPLAN, or the special Layher tools for AutoCAD®. Layher software means greater reliability when budgeting and planning scaffolding construction projects. Optimization of inventory management and complete cost transparency for the material used in a project. Once the dimensions and the required assembly variant have been entered, the Layher software supplies a scaffolding proposal with matching material list within seconds.



MORE QUALITY

People talk a lot about quality. We just produce it. Quality from Layher means state-of-the-art production processes, carefully selected materials, smart automation and a highly qualified workforce. Our products comply with the very latest security standards and possess DIN ISO certification, German TÜV approval, and many other German and international quality labels. 21,000 kilometres of steel tubing in high-quality workmanship are convincing testimony to Layher’s quality standards.

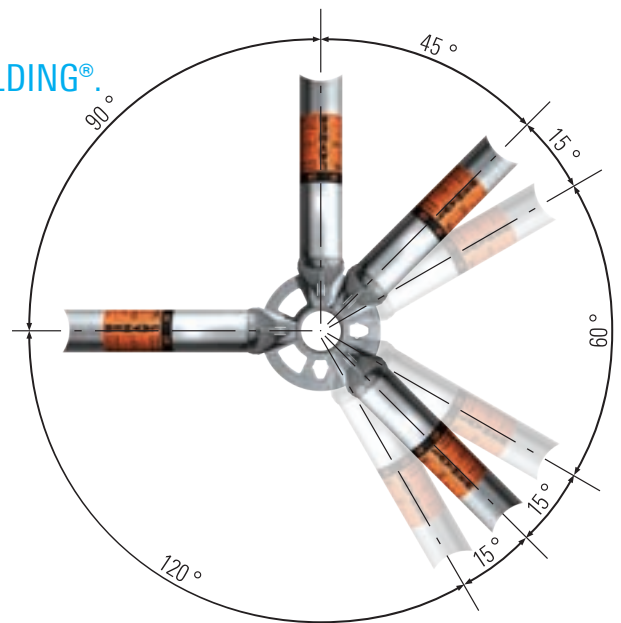


THE VERSATILE SOLUTION: LAYHER ALLROUND SCAFFOLDING®.

The unique combination of positive and non-positive connections in rapid bolt-free system technology with AutoLock function permits connections that are automatically right-angled, obtuse-angled and acute-angled as required, with built-in safety at the same time. Layher Allround Scaffolding has become a synonym in the marketplace for modular scaffolding.

This original system has been continually improved since it was launched in 1974, and offers an unmatched variety of uses: at every construction site, in industry, chemical plants, power stations, shipyards and for events. As scaffolding for working, protection, façades or for support, as internal or birdcage scaffolding, or as rolling towers.

Even with very difficult layouts and architecture styles and with heightened safety requirements, Allround Scaffolding is always the fastest, safest and most economical solution.

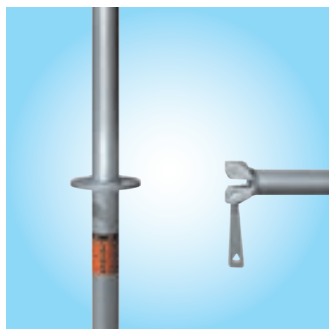


YOUR BENEFITS AT A GLANCE

- ▶ Higher fitting performance and higher and more shipping space thanks to special high-tensile steel and constructive improvement, reducing weight of components and raising load-bearing capacity.
- ▶ No time-consuming fitting of spigots and double storage, thanks to a single standard with integrated spigot for supported and suspended scaffolding.
- ▶ The integrated scaffolding system for easy and complicated applications is fully combinable with all former generations. Maximum investment protection thanks to long durability, purchase availability for decades and continuous enhancements.
- ▶ Improved working safety and time saving on assembly thanks to the AutoLock function.
- ▶ Improved working thanks to the lower weight of components and more headroom by approx. 10 cm.

As work scaffolding and safety scaffolding at the façade, as birdcage, trestle and suspended scaffolding, or as a rolling tower – the right scaffolding at all times and for every job and requirement. For very difficult ground plans and anchoring conditions, for very irregular structures, and for jobs with increased safety requirements.

General building authority approval: Z-8.22-64, Allround Scaffolding Steel, with connector approval and standard version ad work and protection scaffolding at the façade. The following further approvals have also been granted: Z-8.22-939, Allround Scaffolding Lightweight components and their combination with one another in Z-8.22-949 and Z-8.22-64.1 Allround Scaffolding Aluminium.



It's this easy: Turning the ledger and slightly tilting it before assembly activates the AutoLock function.



As the wedge-head is pushed over the rosette, the wedge drops automatically into the recess and is **immediately secured against any possibility of shifting or dropping out.**

This means: safe 1-man assembly, whatever the height.



The flat rosette without recesses or bulges prevents it getting clogged with the dirt, whatever the type, that makes assembly difficult.



A hammer blow on the wedge transforms the positive connection into a superbly strong non-positive one.

THE INTEGRATED SCAFFOLDING SYSTEM: APPLICATION-ORIENTED ACCESSORIES

Protective Roofs

Layher weather protection roofs can be used in a number of variants depending on their span, the snow load or the wind load. That saves you real money when planning temporary weather protection roofs. For easy use on the site, clearly set-out material and loading capacity tables for snow and wind loads are available for you. Protective roofs are not a one-off solution for Layher, but a standard product – this ensures readiness for immediate delivery.



Protect System

With its Protect System, Layher offers an enclosure system that fits in with Allround Scaffolding and SpeedyScaf. It is used for example for pedestrian protection in combination with the Allround bridging system and also for environmental protection and noise reduction. Highly economical to use thanks to quick and easy assembly in a simple and logical assembly sequence, and the frequent use of a few system components. The Layher Protect System is not a one-off solution for Layher, but a standard product – this ensures readiness for immediate delivery.



ANTI-THEFT PROTECTION AND ADVERTISING IN ONE

Layher Individual

Xtra-N-decks, Robust decks, Stalu decks, steel deckst can be stamped individually. Wooden toe boards can be printed according to your preferences.

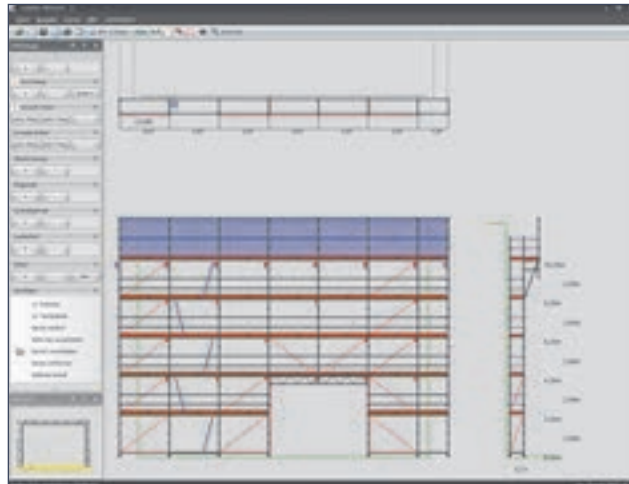


Layher LayPLAN

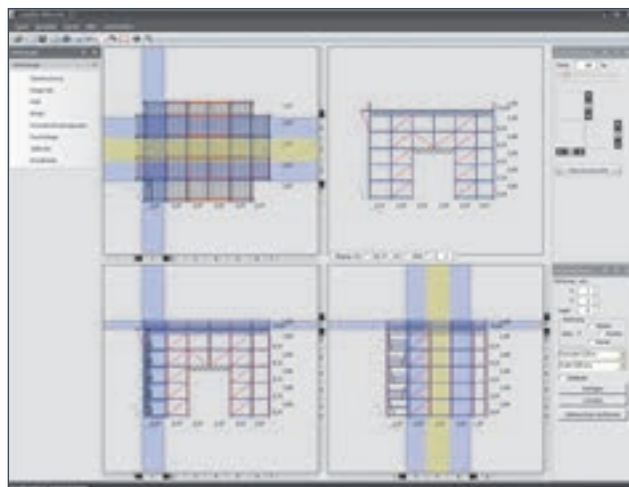
Planning of complex scaffolding constructions will be easier as ever by using a computer. The new LayPLAN software simply makes proposals for scaffolding, then calculates the expense of assembly and dismantling, and provides printed out plans for more safety at the site. Complete scaffolding in just three steps:

- ▶ Step 1: Plan out the scaffolding with the clearly structured LayPLAN software.
- ▶ Step 2: The printed-out plan provides you with the legal safeguard required by OH&S and assists you in your logistics.
- ▶ Step 3: Planning saves you time when assembling the scaffolding – all the material needed is at the site.

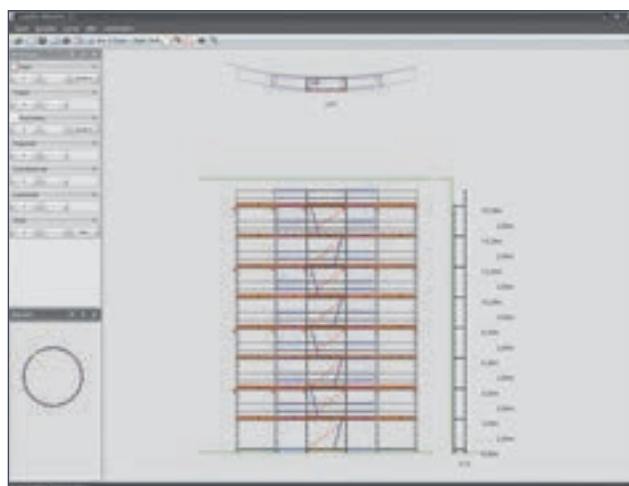
The clearly structured interface of LayPLAN is self-explanatory. This obviates the need for user courses or the study of thick manuals. A compact set of instructions is provided on the program CD.



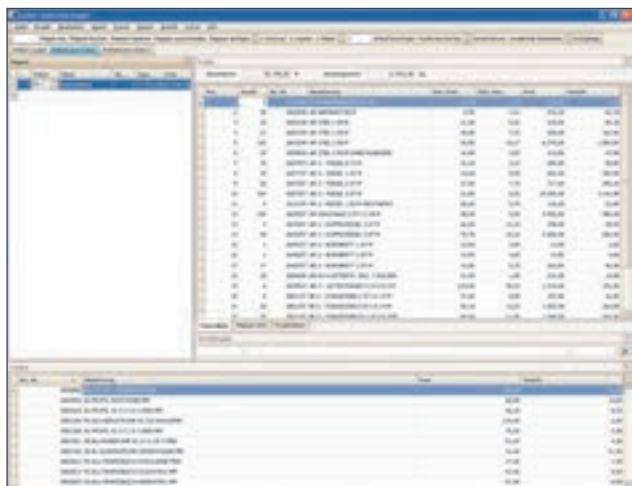
**Allround
façade
scaffolding**



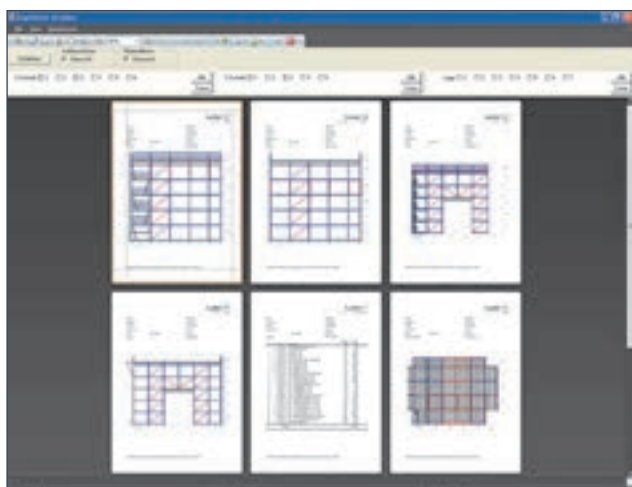
**Allround
birdcage
scaffolding**





**Allround
circular
scaffolding**







LayPLAN Materialmanager



LayPLAN Print Manager

Pos.	Description	Ref. No.
1	SINGLE LICENCE LayPLAN Allround Scaffolding System incl. Materialmanager	6345.400 
2	FOLLOW-UP LICENCE LayPLAN Allround Scaffolding System incl. Materialmanager	6345.401 

WS = wrench size PU = packaging unit  = available ex works  = delivery time on request  = only available in this packaging unit  = the approval process is not yet completed

IND = Layher Individual possible – see page 7

Scaffolding base plates

To adjust to the ground, 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 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.

Base plate (normal)	≧ 4.5 mm wall thickness
Base plate (reinforced)	≧ 6.3 mm wall thickness
Base plate/head jack solid	≧ solid material

Load capabilities of spindle cross-section as per DIN EN 12811-1

Spindle type	Npl,d [kN]	Mpl,d [kNm]	Vpl,d [kN]
normal	97.7	83.0	36.0
reinforced	119.9	94.5	44.1
solid	288.0	157.0	106.0

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

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.

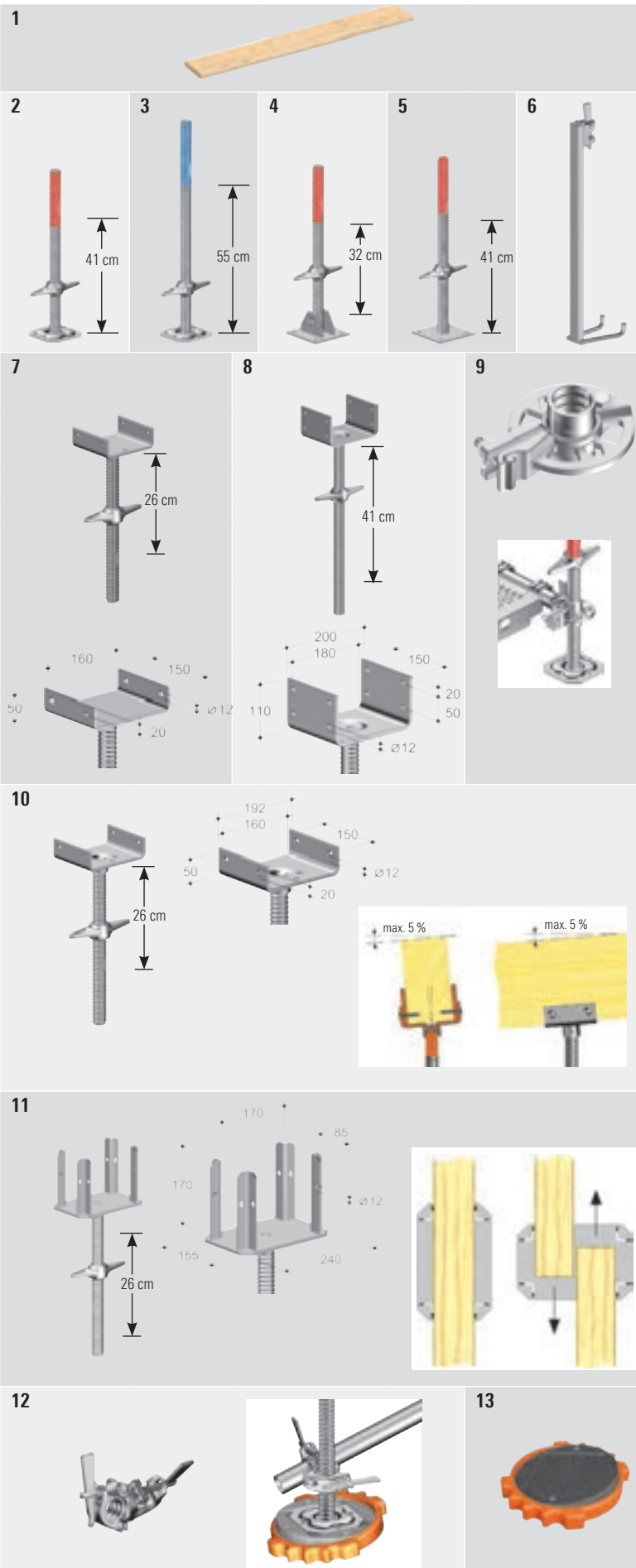
The **Swivelling top spindle 10** can be used to install supports (e.g. wood sections) with an inclination of up to max. 5 % to the horizontal in the longitudinal and transversal directions, thus eliminating the need to level with a wedge. Greater loads can be supported thanks to the articulated mounting 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 dia. 48.3 mm to a scaffolding spindle at any angle.

Scaffolding base plates



Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	Scaffolding plank for load distribution 45 mm high, freshly sawn, sorting category S 10	1.00 x 0.24	5.2	50	3816.100
		1.50 x 0.24	7.8	50	3816.150
2	Base plate 60 (max. spindle travel 41 cm)	0.60	3.6	200	4001.060
3	Base plate 80 , reinforced (max. spindle travel 55 cm)	0.80	4.9	200	4002.080
4	Swivelling base plate 60 , reinforced (max. spindle travel 32 cm), ensure sufficient structural strength	0.60	5.5	250	4003.000
5	Base plate 60 , solid, without lock (max. spindle travel 41 cm)	0.60	6.7	200	5602.060
6	Spindle attachment with wedge-head	0.60	2.0	150	2602.100
7	Head jack 45 , solid, 16 cm (max. spindle travel 26 cm), width of fork 16 cm	0.45	6.6	50	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 WS	1.7	100	2602.119
		22 WS	1.7	100	2602.122
10	Swivelling head jack 45 , solid (max. spindle travel 26 cm), width of fork 16 cm	0.45	7.3	50	5312.045
11	Cross head jack 45 , solid (max. spindle travel 26 cm), opening dimensions 8.5/17 cm	0.45	6.9	50	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 %	Ø 0.30	1.3	250	4000.400



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.



Spindle attachment with wedge-head

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 = Layher Individual possible – see page 7



Vertical support elements of steel and aluminium

Standards are available in hot-dip galvanized steel tubing, dia. 48.30 mm, and aluminium tubing, dia. 48.30 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 1c+e without spigot** together with **spigots 2**, **standards 1i** together with **spigots 2** or **standards LW 1d with integrated spigot**.

For connecting of each standard, you can use **hinged pins 3** or **special bolts M12 x 60 4**. The spigots should always be bolted into the standard with the special bolts.

The standard LW with integrated spigot 1d – only one standard for stand or suspended scaffolding structures. Thanks to the transmission of tension load no different standards are necessary.

The **Rosette, clampable 5**, can be connected to any point on the standard – tightening torque 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 7**, 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, long 8**, is required with aluminium Allround standards. For Allround rolling towers it facilitates a correct securing of the castors with locks against falling out.

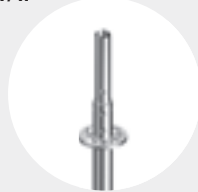
The **Standard lock 0.50 m 6** can be used to bridge standard joints, for example when moving scaffolding using a crane or for suspended scaffolding. Permissible load capacity: 18.8 kN.

Layher

More Possibilities. The Scaffolding System.

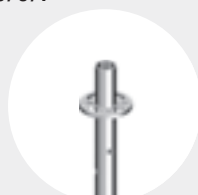
Vertical support elements of steel and aluminium

1a/h



pressed-in spigot

1c/e/i



1g

1f

1d

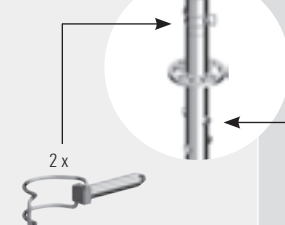


new integrated spigot with cross hole

2

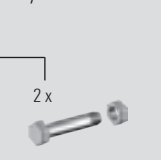


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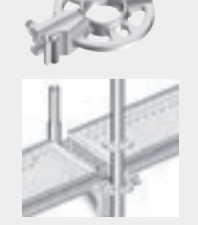


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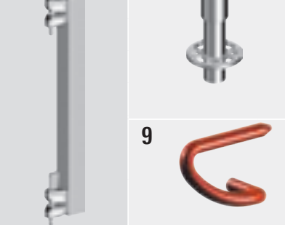
with spigot to be screwed in by others



5



6



7



8



9



100

Dimensions

500

400

Pos.	Description		Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1a	Standard, 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
1b	Initial standard LW, steel, with pressed-in spigot for use in the lowest scaffolding level without base collar or for assembly of the modular stairtower, with 5 rosettes		2.21	10.0	28	2617.221
1c	Standard, 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
1d	Standard LW, 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	
1e	Standard LW, steel without spigot for scaffolding layer		1.50	6.6	28	2619.150
		2.00	8.8	28	2619.200	
1f	Standard, 0.67 m, with 2 rosettes, without spigot with integrated base collar		0.67	3.6	200	2604.066
1g	Standard, 1.17 m, with 3 rosettes, without spigot with integrated base collar		1.17	6.1	28	2604.116
1h	Standard, 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
1i	Standard, 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
2	Spigot for Ref. No. 2604, steel		0.52	1.6	350	2605.000
	for Ref. No. 3209, aluminium		0.52	0.8	100	3209.000
3	Hinged pin, dia. 12 mm with pan-head			2.0	20	4905.667
4	Special bolt M12 x 60, with nut			4.0	50	4905.061
5	Rosette, clampable	19 WS	0.12	1.1	25	2602.019
		22 WS	0.12	1.0	25	2602.022
6	Standard lock, 0.50 m		0.58	4.0	100	2603.000
7	Base collar		0.24	1.4	500	2602.000
8	Base collar, long		0.43	2.2	400	2660.000
9	Locking pin, red, dia. 11 mm			0.2	100	4000.001

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IND = Layher Individual possible – see page 7

Horizontal support elements, side protection

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.

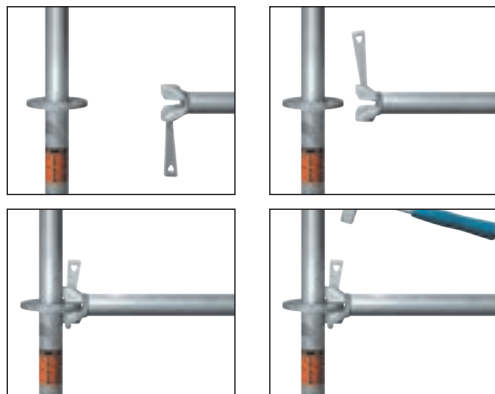
Load capacity of O-ledger, steel *

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

Allround O-ledger LW 1/2

The new **wedge-head design with AutoLock function** 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 **there is a weight saving of 12 %**. That leads to less strenuous working conditions. Additionally the **bending strength got increased about 24 %**.



Horizontal support elements, side protection

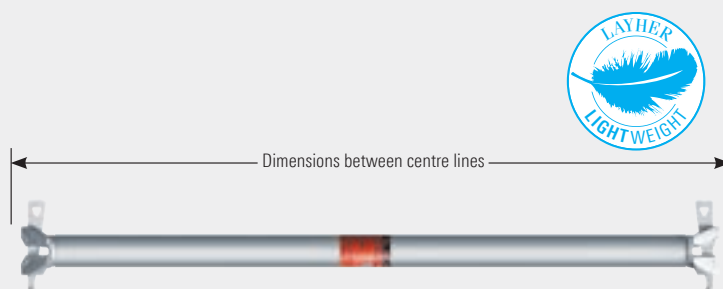


Slide the wedge-head over the rosette.

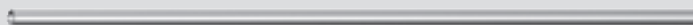
Insert the wedge into a hole. The component is secure against shifting and falling out.

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

1/2



3



























































4



Layher® 

More Possibilities. The Scaffolding System.

Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	Allround O-ledger LW, with AutoLock function  <p>The 0.39 m ledger is used on the 0.39 m bracket for fall protection at the end. The ledger 0.86 m is used for podia and stands. It fits to the Event deck width EV 86. The ledger 0.90 m is used for construction of the equalising modular stairway. The 1.04 m ledger corresponds to half the 2.07 m bay. The 1.29 m ledger corresponds to half the 2.57 m bay.</p>	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 
	O-ledger, aluminium	0.73	2.8	200	3201.073 
		1.09	3.5	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 
2	Allround O-ledger LW, 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 
3	Scaffolding tube, steel, hot-dip galvanized Scaffolding tubes dia. 48.3 x 4.0 mm, as per DIN EN 39	0.50	2.3	61	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	16.7	61	4600.400 
		5.00	22.7	61	4600.500 
		6.00	25.2	61	4600.600 
4	U-ledger LWT14, 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  
		1.09	4.4	50	2618.109  
		1.29	5.2	50	2618.129  
		1.40	5.4	50	2618.139  
	U-ledger, aluminium	0.73	1.5	200	3203.073 

WS = wrench size PU = packaging unit  = available ex works  = delivery time on request  = only available in this packaging unit  = the approval process is not yet completed

IND = Layher Individual possible – see page 7

U-ledger deck configuration

Bay width Deck width	0.19 m		0.32 m		0.61 m	
Version	A	B	A	B	A	B
0.45 m	0	–	1	–	0	–
0.50 m	2	–	0	–	0	–
0.73 m	0	0	2	0	0	1
1.00 m	3	–	1	–	0	–
1.09 m	0	0	3	1	0	1
1.29 m	1	1	1	3	1	0
1.40 m	0	0	4	0	0	2
1.50 m	2	–	3	–	0	–
1.57 m	1	–	4	–	0	–
2.00 m	0	3	4	4	1	0
2.07 m	0	–	6	–	0	–
2.50 m	0	4	5	5	1	0
2.57 m	1	–	7	–	0	–
3.00 m	2	0	6	9	1	0
3.07 m	0	–	9	–	0	–

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

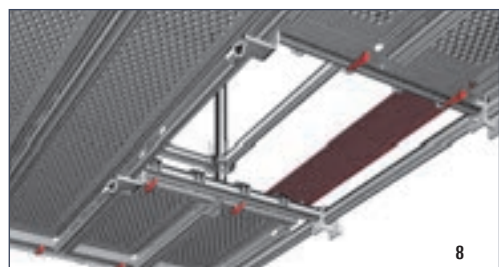
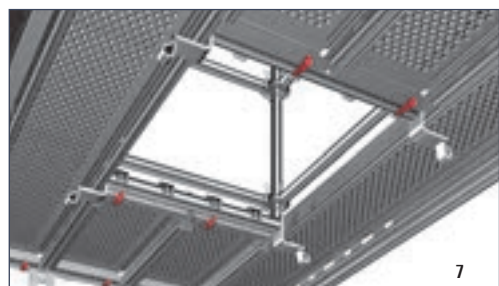
Loading capacity of U-ledger, U- and O-ledger, reinforced, steel*

Ledger type and length [m]	U 0,73	U-LW 1,09	U-LW 1,40	O-V 1,09	O-V 1,29
Evenly distributed line load q [kN/m]	19,0	17,5	10,8	21,8	15,6
Individual load P in bay centre [kN]	6,1	8,6	6,4	11,0	9,3

Loading capacity U-ledger reinforced LW T14*

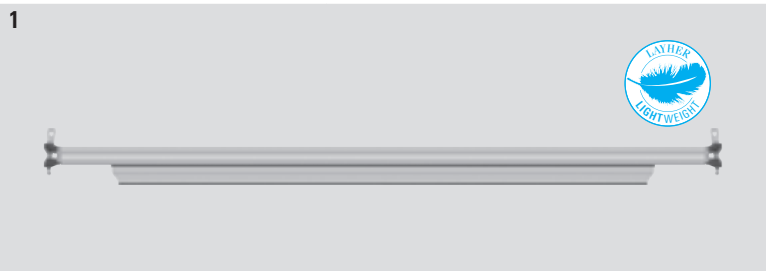
Length [m]	1,40	1,57	2,07	2,57	3,07
Evenly distributed line load q [kN/m]	17,1	17,7	13,0	8,4	5,0
Individual load P in bay centre [kN]	19,2	17,1	12,9	10,4	8,7

* permissible working load

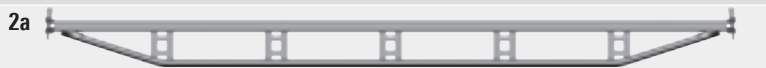


Horizontal support elements, side protection

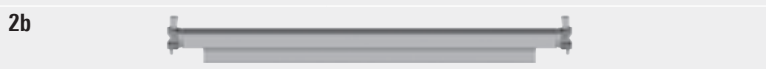
1



2a



2b

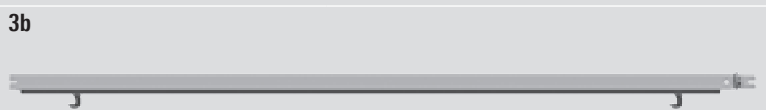


4a



The **U-Lift-off preventer 3** is for U-ledgers, U-bridging ledgers, U-ledgers reinforced and U-lattice beams. It serves to prevent scaffolding decks from being lifted off.

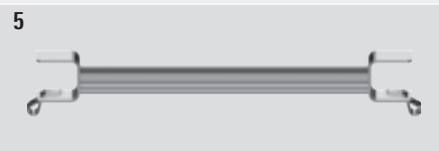
3b



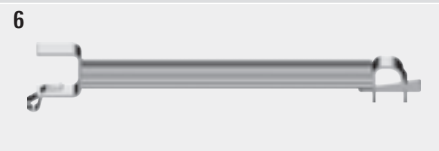
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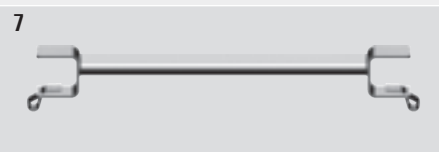
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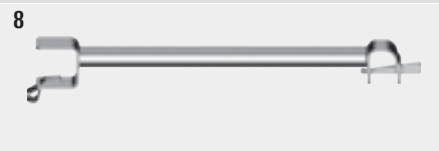
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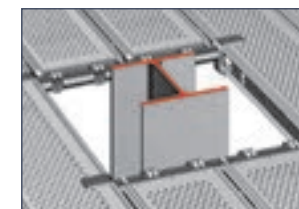
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8



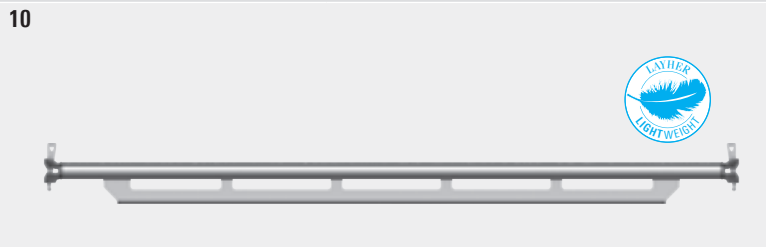
Openings, accesses and even conversions are easily constructed with **U- and O-ledgers 5-8** with lateral receiving elements












































9



10

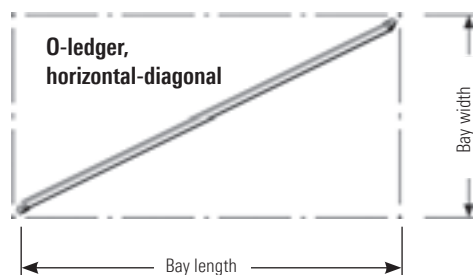


Pos.	Description		Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	U-ledger reinforced LW T14, steel.		1.40	8.9	50	2618.140 
			1.57	9.4	50	2618.157
			2.07	12.7	50	2618.207
			2.57	15.7	50	2618.257
			3.07	19.0	50	2618.307
	U-ledger reinforced LW T14, steel, metric		2.00	12.5	50	2618.200 
			2.50	15.5	50	2618.250 
			3.00	18.5	50	2618.300 
2a	U-bridging ledger, aluminium		1.57	4.3	20	3207.157 
			2.07	5.5	20	3207.207 
2b	U-ledger reinforced, aluminium		1.09	3.7	50	3203.109 
			1.40	4.5	50	3203.140 
3a	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 
3b	U-Lift-off preventer 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
4	Universal U-Lift-off preventer	19 WS		1.0	200	2635.000 
5	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 
6	U-ledger steel deck – O-ledger, one side for connection to the steel deck 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 
7	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 
8	O-ledger steel deck – O-ledger, one side for connection to the steel deck 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 
9	Guardrail, adjustable for use in compensation bays		1.57 – 2.57	8.5	50	2606.000 
			1.09 – 1.57	5.7	50	2606.001 
10	O-bridging ledger, 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  

WS = wrench size PU = packaging unit  = available ex works  = delivery time on request  = only available in this packaging unit  = the approval process is not yet completed

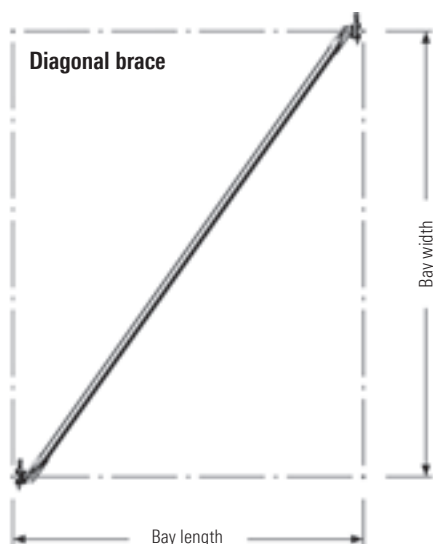
IND = Layher Individual possible – see page 7

Diagonal bracing



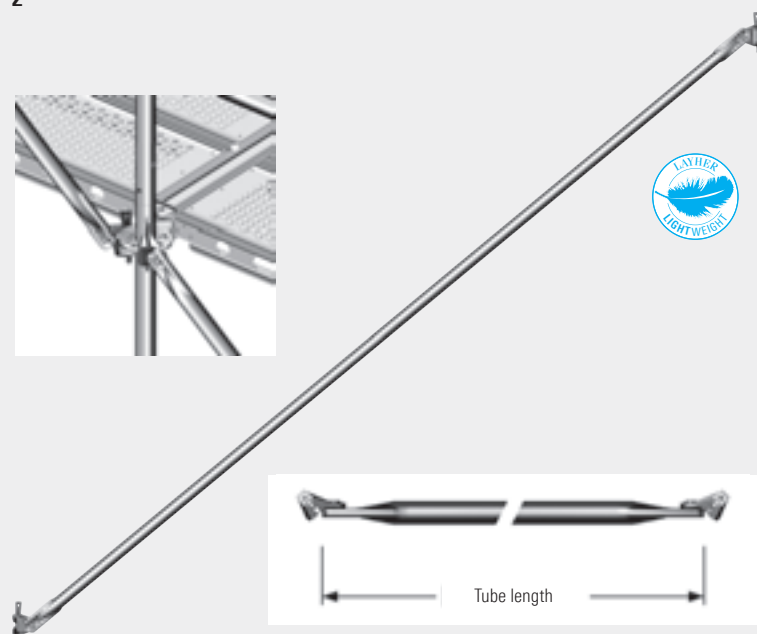
The **O-ledger, horizontal-diagonal 1**, with wedge-heads serves to brace horizontal levels in scaffolding without standard decks or in scaffolding with board decking.

The **Diagonal braces 2** with wedge locks further brace the basic system consisting of standards and ledgers, and thanks to their high connection values also facilitate special structures.



Diagonal bracing

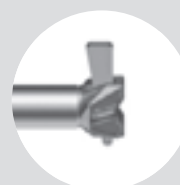
2



1






























































For rectangular floor plan, with offset welded wedge-heads.



For square floor plan, with straight welded wedge-heads.

Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	O-ledger, horizontal-diagonal, steel for 1.09 m bay length, 1.09 m bay width for 1.57 m bay length, 1.09 m bay width for 1.57 m bay length, 1.57 m bay width for 2.00 m bay length, 2.00 m bay width for 2.07 m bay length, 0.73 m bay width for 2.07 m bay length, 1.09 m bay width for 2.07 m bay length, 2.07 m bay width for 2.57 m bay length, 0.73 m bay width for 2.57 m bay length, 1.09 m bay width for 2.57 m bay length, 1.57 m bay width for 2.57 m bay length, 2.07 m bay width for 2.57 m bay length, 2.57 m bay width for 3.07 m bay length, 0.73 m bay width for 3.07 m bay length, 1.09 m bay width for 3.07 m bay length, 3.07 m bay width	1.54	6,2	50	2608.108
		1.94	6,9	50	2608.159
		2.22	8,7	50	2608.157
		2.83	11,3	50	2608.200
		2.19	9,0	50	2608.208
		2.34	9,3	50	2608.209
		2.93	11,5	50	2608.207
		2.67	10,8	50	2608.258
		2.79	9,7	50	2608.259
		3.01	11,7	50	2608.256
		3.30	12,8	50	2608.255
		3.64	14,0	50	2608.257
		3.16	12,3	50	2608.308
		3.26	11,0	50	2608.309
		4.34	15,8	50	2608.307

Pos.	Description		Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
2	Diagonal brace, steel					
	0.73 m bay length		2.12	6.8	50	2683.073 
	1.04 m bay length		2.23	7.6	50	2683.104 
	1.09 m bay length		2.25	7.0	50	2683.109 
	1.29 m bay length		2.35	7.8	50	2683.129 
	1.40 m bay length		2.40	7.5	50	2683.140 
	1.57 m bay length		2.49	7.7	50	2683.157 
	2.07 m bay length		2.81	8.9	50	2683.207 
	2.57 m bay length		3.18	9.5	50	2683.257 
	3.07 m bay length		3.58	10.5	50	2683.307 
	4.14 m bay length		4.51	14.0	50	2683.414 
	0.73 m bay length		1.65	5.4	50	2682.073 
	1.04 m bay length		1.79	6.5	50	2682.104 
	1.09 m bay length		1.81	5.8	50	2682.109 
	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 
	0.73 m bay length		1.20	4.2	50	2681.073 
	1.04 m bay length		1.39	5.2	50	2681.104 
	1.09 m bay length		1.41	4.8	50	2681.109 
	1.29 m bay length		1.55	5.3	50	2681.129 
	1.40 m bay length		1.64	5.8	50	2681.140 
	1.57 m bay length		1.79	6.3	50	2681.157 
	2.07 m bay length		2.20	7.4	50	2681.207 
	2.57 m bay length		2.66	8.8	50	2681.257 
	3.07 m bay length		3.13	9.9	50	2681.307 
	1.04 m bay length		1.08	4.3	50	2680.104 
	1.09 m bay length		1.10	4.0	50	2680.109 
	1.40 m bay length		1.38	5.1	50	2680.140 
	1.57 m bay length		1.55	5.7	50	2680.157 
	2.07 m bay length		2.03	7.2	50	2680.207 
	2.57 m bay length		2.51	8.4	50	2680.257 
	3.07 m bay length		3.00	9.6	50	2680.307 
	Diagonal brace, aluminium					
	0.73 m bay length		2.12	3.9	50	3204.073 
	1.09 m bay length		2.25	4.1	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 
	Diagonal brace metric LW, steel					
	1.00 m bay length		2.22	7.3	50	2683.100 
	2.00 m bay length		2.76	8.8	50	2683.200 
	2.50 m bay length		3.12	10.0	50	2683.250 
	3.00 m bay length		3.52	11.2	50	2683.300 
	1.00 m bay length		1.77	5.8	50	2682.100 
	2.00 m bay length		2.42	7.5	50	2682.200 
	2.50 m bay length		2.83	9.4	50	2682.250 
	3.00 m bay length		3.26	10.3	50	2682.300 
	1.00 m bay length		1.03	4.7	50	2681.100 
	2.00 m bay length		2.14	7.6	50	2681.200 
	2.50 m bay length		2.59	8.6	50	2681.250 
	3.00 m bay length		3.06	9.7	50	2681.300 
	1.00 m bay length		1.03	3.8	50	2680.100 
	2.00 m bay length		1.96	7.1	50	2680.200 
	2.50 m bay length		2.44	8.2	50	2680.250 
	3.00 m bay length		2.93	9.4	50	2680.300 

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IND = Layher Individual possible – see page 7

Scaffolding decks, U-suspension

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



U-suspension

In the Layher system, depending on the type of application and scaffolding group but also in accordance with your working requirements and priorities, choose from decks made of hot-dip galvanized steel, aluminium, 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-/O-sections of the transverse ledgers, ensuring unbeatable speed of assembly. Decks with round ledger supports are especially suitable for abrasive-blasting work in order to avoid blasting residue deposits.

The **U-Xtra-N deck 4** is identical in construction with the robust deck, but is equipped with a glass-fibre-reinforced plastic plate. It is very weather-resistant: No rotting, no fungus growth, no split-open rivet holes. The breaking load of the plastic plate is about 3 times that of dry plywood. 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.

Thanks to recesses in the webs, the optimized **Steel deck T4 1** offers not only savings on weight but also additional possibilities for use in conjunction with **33.70 m steel tubes 2**.



Thanks to optimization of the cap of the **Steel deck T4**, precision-fit decking above the rosette is possible.



The **Stalu deck 5-7**, is an extremely lightweight and durable aluminium deck with a sturdy, riveted steel cap.

Scaffolding decks, U-suspension

1



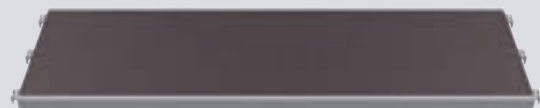
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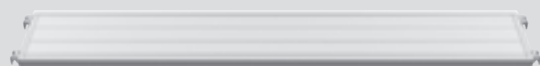
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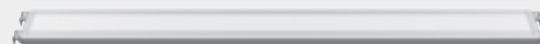
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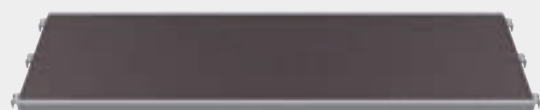
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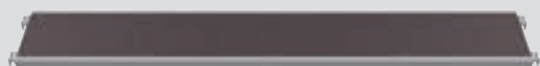
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9



10



Layher 

More Possibilities. The Scaffolding System.

Pos.	Description	Use up to load class	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	U-steel deck T4, 0.32 m wide steel, hot-dip galvanized perforated, non-slip working surface	IND	6 0.73 x 0.32	6.0	60	3812.073
			6 1.09 x 0.32	8.4	60	3812.109
			6 1.29 x 0.32	9.8	60	3802.129
			6 1.40 x 0.32	10.6	60	3802.140
			6 1.57 x 0.32	11.9	60	3812.157
			6 2.07 x 0.32	15.0	60	3812.207
			5 2.57 x 0.32	18.2	60	3812.257
			4 3.07 x 0.32	21.5	60	3812.307
			3 4.14 x 0.32	29.8	60	3812.414
2	Steel tube, dia. 33.70 mm , hot-dip galvanized Fits through the edge holes of Ref. No. 3812 and 3802		1.50	3.0	100	4603.150
3	U-steel deck, 0.19 m wide constructed as 3812 as console equalizing deck, e.g. for birdcage scaffolding	IND	6 0.73 x 0.19	5.1	50	3801.073
			6 1.09 x 0.19	6.4	50	3801.109
			6 1.29 x 0.19	7.4	50	3801.129
			6 1.40 x 0.19	8.0	50	3801.140
			6 1.57 x 0.19	8.5	50	3801.157
			6 2.07 x 0.19	10.2	50	3801.207
			5 2.57 x 0.19	13.2	50	3801.257
			4 3.07 x 0.19	15.3	50	3801.307
4	U-Xtra-N deck, 0.61 m wide aluminium stile section, glass-fibre-reinforced plastic plate extremley durable. lightweight, non-slip working surface	IND	3 0.73 x 0.61	7.0	60	3866.073
			3 1.09 x 0.61	9.5	60	3866.109
			3 1.57 x 0.61	13.0	40	3866.157
			3 2.07 x 0.61	16.2	40	3866.207
			3 2.57 x 0.61	19.0	40	3866.257
			3 3.07 x 0.61	23.5	40	3866.307
5	U-stalu deck T9, 0.61 m wide extremely lightweight aluminium deck with sturdy, riveted steel caps, stacking height only 54 mm	IND	6 0.73 x 0.61	6.6	40	3867.073
			6 1.09 x 0.61	8.8	40	3867.109
			6 1.57 x 0.61	11.7	40	3867.157
			6 2.07 x 0.61	14.8	40	3867.207
			5 2.57 x 0.61	17.9	40	3867.257
			4 3.07 x 0.61	21.0	40	3867.307
6	U-stalu deck T9, 0.32 m wide, constructed as 3867 as console or equalizing deck, e.g. with birdcage scaffolding	IND	6 1.57 x 0.32	7.4	30	3856.157
			6 2.07 x 0.32	9.2	30	3856.207
			5 2.57 x 0.32	11.0	30	3856.257
			4 3.07 x 0.32	13.3	30	3856.307
7	U-stalu deck T9, 0.19 m wide, constructed as 3867 as console or equalizing deck, e.g. with birdcage scaffolding		6 1.57 x 0.19	5.6	50	3857.157
			6 2.07 x 0.19	7.2	50	3857.207
			5 2.57 x 0.19	8.7	50	3857.257
			4 3.07 x 0.19	10.2	50	3857.307
8	U-aluminium deck, perforated, 0.32 m wide, deck and caps of aluminium with robust steel claws perforated, non-slip working surface		6 0.73 x 0.32	3.1	60	3803.073
			6 1.09 x 0.32	4.4	60	3803.109
			6 1.57 x 0.32	6.5	60	3803.157
			5 2.07 x 0.32	8.0	60	3803.207
			4 2.57 x 0.32	10.0	60	3803.257
			3 3.07 x 0.32	11.5	60	3803.307
9	U-robust deck, 0.61 m wide, aluminium stile section, plywood panel BFU 100 phenolic resin coating and rot protection; lightweight, non-slip, easily stackable	IND	3 0.73 x 0.61	7.2	60	3835.073
			3 1.09 x 0.61	9.7	60	3835.109
			3 1.57 x 0.61	13.1	40	3835.157
			3 2.07 x 0.61	16.4	40	3835.207
			3 2.57 x 0.61	19.3	40	3835.257
			3 3.07 x 0.61	24.2	40	3835.307
10	U-robust deck, 0.32 m wide, constructed as 3835 as console or equalizing deck, e.g. for birdcage scaffolding	IND	6 1.57 x 0.32	9.9	30	3836.157
			5 2.07 x 0.32	11.5	30	3836.207
			4 2.57 x 0.32	14.7	30	3836.257
			3 3.07 x 0.32	16.0	30	3836.307

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Access decks, corner-decks, U-suspension

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.



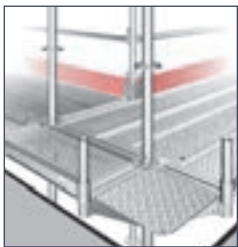
In the case of circular scaffolding, the corners are covered with the **U-corner deck, adjustable, with toe board 6a**. System-conforming covers are thus no longer a problem. You obtain a continuous deck surface with integrated toe board.



Installation situation 45° **6a**



Installation situation 90° **6a**

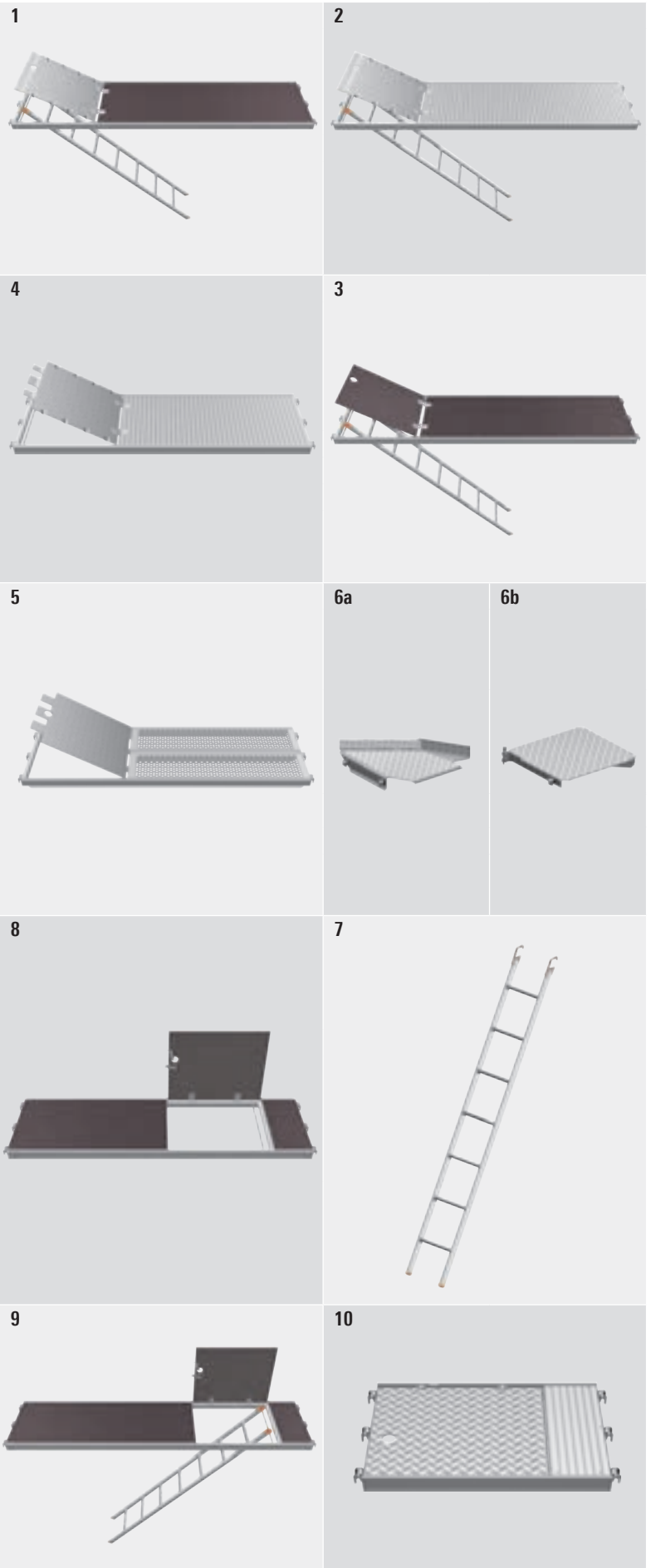


Installation situation 90° **6b**

The **Access ladder 7**, 7-rungs is a flexible aid to climbing inside the scaffolding to a storey height of 2 m.



Access decks, corner-decks, U-suspension



Layher 

More Possibilities. The Scaffolding System.

Pos.	Description	Use up to load class	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	U-Xtra-N hatch-type access deck 0.61 m wide, with integrated access ladder, deck surface of glass-fibre-reinforced plastic, aluminium access hatch	IND	3 2.57 x 0.61	25.4	40	3869.257
			3 3.07 x 0.61	29.5	40	3869.307
2	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 x 0.61	24.0	40	3852.257
			3 3.07 x 0.61	28.0	40	3852.307
3	U-robust access deck, 0.61 m wide, with integrated access ladder	IND	3 2.57 x 0.61	24.0	40	3838.257
			3 3.07 x 0.61	27.4	40	3838.307
4	U-aluminium access deck, 0.61 m wide lightweight access deck with aluminium deck surface and aluminium access hatch	IND	3 1.57 x 0.61	15.1	40	3851.157 
			3 2.07 x 0.61	17.0	40	3851.207
			3 2.57 x 0.61	20.0	40	3851.257
			3 3.07 x 0.61	24.5	40	3851.307
5	U-access deck, steel, 0.64 m wide aluminium access hatch		4 2.07 x 0.64	28.9	30	3813.207 
			4 2.57 x 0.64	38.0	30	3813.257 
6a	Corner deck, adjustable, for angles from 45° – 90°, with toe board, steel		3 0.61	21.5	50	3819.000 
6b	U-corner deck, steel for 0.36 m wide scaffolding for 0.73 m wide scaffolding					
			3 0.36 x 0.36	6.4	50	2630.037 
			3 0.73 x 0.73	20.8	24	2630.070 
7	Access ladder, 7 rungs T15, steel for access deck Ref. No. 3813, Ref. No. 3851, and Ref. No. 3858		2.15 x 0.35	7.8	70	4008.007
8	U-robust access deck, 0.61 m wide, hatch offset without ladder. For use with 4008.007	IND	3 1.57 x 0.61	14.2	40	3858.157 
			3 2.07 x 0.61	17.2	40	3858.207 
9	U-robust access deck, 0.61 m wide, hatch offset, with integrated access ladder	IND	3 2.57 x 0.61	25.2	40	3859.257 
			3 3.07 x 0.61	28.4	40	3859.307 
10	U-access deck, aluminium, 0.61 m wide	IND	3 1.00 x 0.61	10.0		3851.100 

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O-suspension



Individual stamping

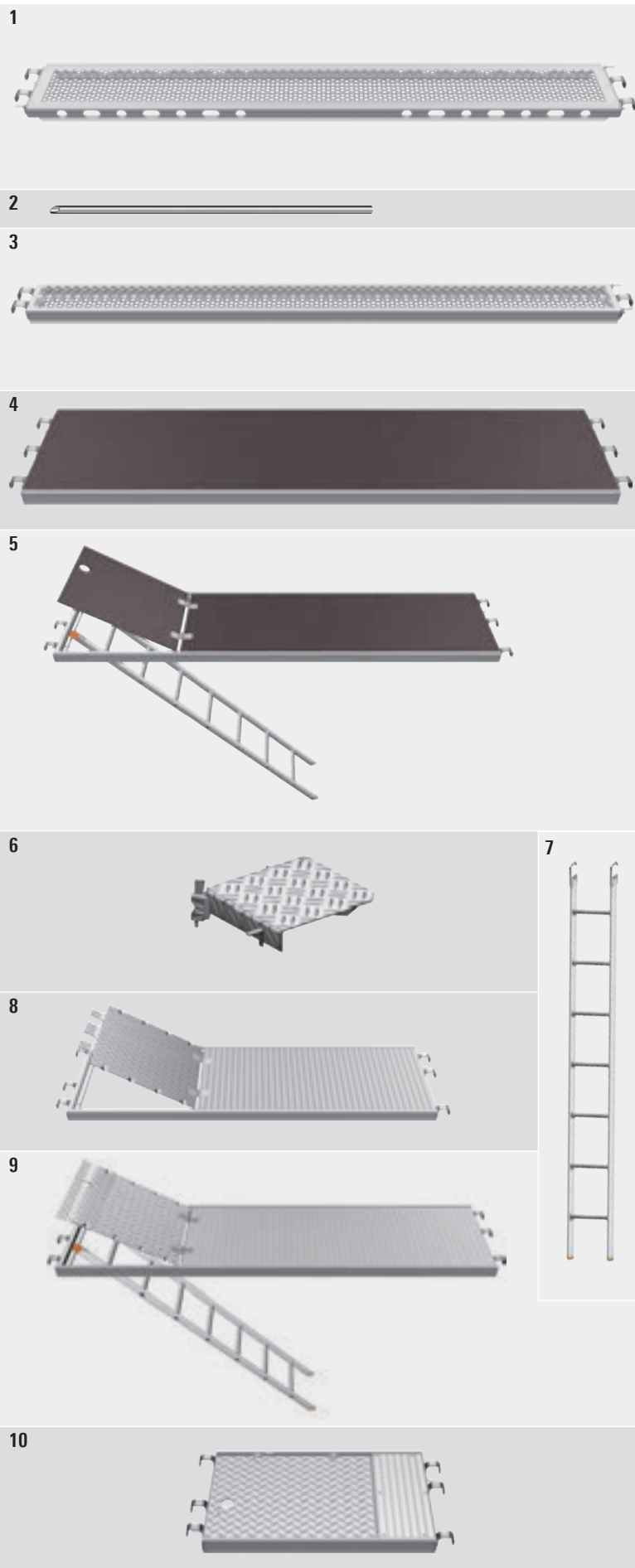
The Layher steel decks can be provided with individual lettering. Conspicuously visible on the side section, they give the Layher steel deck that certain something.



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.



Scaffolding decks, access decks, O-suspension



Pos.	Description	Use up to load class	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	O-steel deck T9, 0.32 m wide steel, hot-dip galvanized; with integrated swivelling lift-off and tilt preventer perforated, non-slip working surface	IND	6 0.73 x 0.32	7.0	30	3862.073
			6 1.09 x 0.32	9.4	30	3862.109
			6 1.29 x 0.32	10.1	30	3862.129
			6 1.40 x 0.32	10.8	30	3862.140
			6 1.57 x 0.32	12.5	30	3862.157
			6 2.07 x 0.32	16.0	30	3862.207
			5 2.57 x 0.32	18.9	30	3862.257
			4 3.07 x 0.32	22.5	30	3862.307
2	Steel tube , dia. 33.7 mm		1.50	3.0	100	4603.150
3	O-steel deck T9, 0.19 m wide steel, hot-dip galvanized; with integrated swivelling lift-off and tilt preventer perforated, non-slip working surface	IND	6 0.73 x 0.19	5.0	50	3863.073
			6 1.09 x 0.19	7.0	50	3863.109
			6 1.40 x 0.19	9.0	50	3863.140
			6 1.57 x 0.19	10.0	50	3863.157
			6 2.07 x 0.19	12.7	50	3863.207
			5 2.57 x 0.19	15.5	50	3863.257
			4 3.07 x 0.19	18.2	50	3863.307
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 x 0.61	8.7	60	3870.073
			3 1.09 x 0.61	11.2	60	3870.109
			3 1.57 x 0.61	14.6	40	3870.157
			3 2.07 x 0.61	17.9	40	3870.207
			3 2.57 x 0.61	21.9	40	3870.257
			3 3.07 x 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 x 0.61	25.9	40	3872.257
			3 3.07 x 0.61	29.7	40	3872.307
6	U-corner deck , steel for 0.36 m wide scaffolding	3	0.34 x 0.34	6.9	50	2630.040
7	Access ladder for access deck Ref. No. 3871		2.15 x 0.35	7.8	70	4008.007
8	O-access deck T9 , aluminium, 0.61 m wide easy access with aluminium deck surface and aluminium access hatch	IND	3 1.57 x 0.61	14.9	40	3871.157
			3 2.07 x 0.61	17.9	40	3871.207
9	O-access deck , aluminium, 0,61 m wide with integrated access ladder	IND	3 2.57 x 0.61	26.5	40	3874.257
10	O-access deck , aluminium, 0.61 m wide	IND	3 1.00 x 0.61	10.0		3871.100

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Steel plank, gap decks

The **Steel plank 1/2** is a 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.

- ▶ Long service life, reusable
- ▶ Lower weight compared with wooden planks
- ▶ Non-slip and non-inflammable
- ▶ If at least 2 steel planks are adjacent to one another, they may also be used in brick guards.

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



Scaffolding planks can be found in the catalogue for System-free Accessories.



Secure the planks with locking pins or 1 securing screw **4a** for each end.

Gap covers



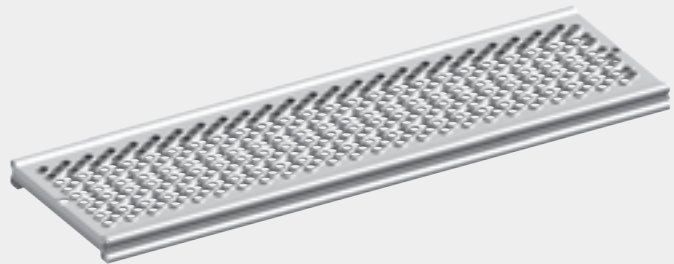
The **steel-gap cover 5** can be used between two scaffolding decks on SpeedyScaf and Allround Scaffolding. For use on gap widths up to 13 cm.



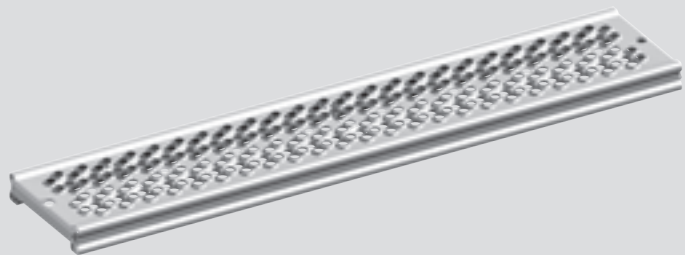
For closing of system caused gaps the **telescopic gap deck 6** can be used. Even with mounted ledgers, it is possible to create a closed decking over the rosette.

Steel plank, Gap decks

1



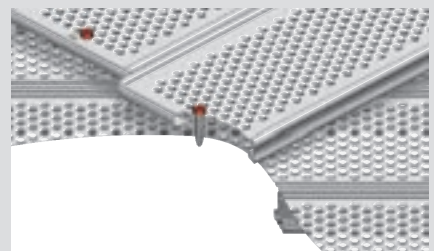
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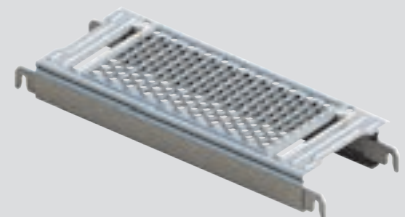
4a/b



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6



Further information about the telescopic gap deck can be found in the product video: qrsben.layher.com



Layher

More Possibilities. The Scaffolding System.

Pos.	Description	Use up to load class	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	Steel plank, 0.30 m system-free, completely made of hot-dip galvanized steel	6	1.00 x 0.30	6.5	60	3880.100
		6	1.50 x 0.30	10.3	60	3880.150
		5	2.00 x 0.30	12.8	60	3880.200
		3	2.50 x 0.30	15.3	60	3880.250
2	Steel plank, 0.20 m system-free, completely made of hot-dip galvanized steel	6	1.00 x 0.20	4.8	100	3878.100
		6	1.50 x 0.20	7.2	100	3878.150
		5	2.00 x 0.20	9.5	100	3878.200
		3	2.50 x 0.20	11.8	100	3878.250
3	Locking pin for steel plank, dia. 11 mm not for multiple use		0.08	0.6	100	3800.006
4a	Securing screw, long (red), steel, galvanized For securing of steel planks on steel decks	19 WS	0.08 x 0.03	4.0	50	3800.009
		22 WS	0.08 x 0.03	3.9	50	3800.010
4b	Securing screw, short (blue), steel, galvanized For securing of steel gap covers on steel decks	19 WS	0.04 x 0.02	2.3	50	3800.011
		22 WS	0.04 x 0.02	2.3	50	3800.012
5	Steel gap cover, 0.32 m Use up to load class 6 with maximum gap widths of 20 cm for 0.73 m bay length for 1.09 m bay length for 1.57 m bay length for 2.07 m bay length for 2.57 m bay length for 3.07 m bay length					
		6		2.6	150	3881.000
		6		4.0	150	3881.001
		6		6.0	100	3881.002
		6		8.0	100	3881.003
		6		10.0	100	3881.004
		6		10.7	100	3881.005
6	Telescopic U-gap deck for closing gaps from 40 to 255 mm	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

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Toe boards

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



The **U-ledge 0.73 m, 15° – 44°, 19 WS 2** permits low 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 individually designed in printing and painting.



The **O-/U-steel toe board 6/7** reduces the fire risk. The offset fittings permit a gap-free 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

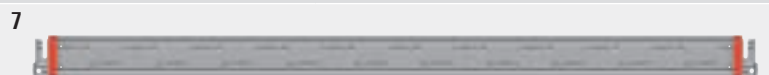
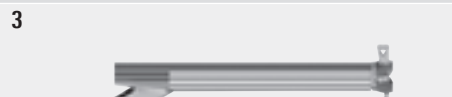
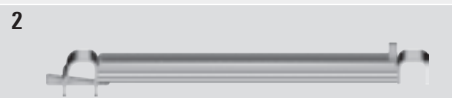


Assembly of the steel toe board

Toe boards

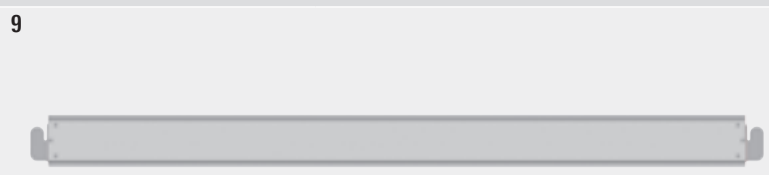
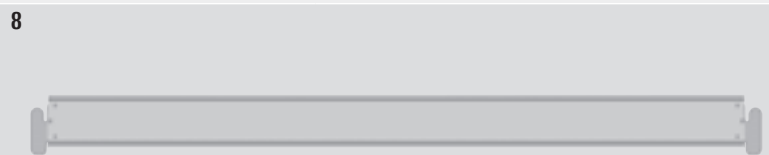


The lift-off prevention of the planks is provided by customer.



Advantages:

- ▶ Reduction of fire risk
- ▶ High stiffness and sturdiness
- ▶ Easy stacking of the toe boards
- ▶ No gap between toe board and deck



Layher 

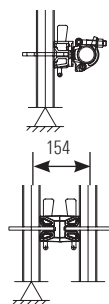
More Possibilities. The Scaffolding System.

Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	O-board bearer steel	0.73	3.5	50	2615.073
		1.09	4.6	50	2615.109
		1.40	6.7	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		2615.000
3	U-ledger, 0.73 m, 15° – 44°. 19 WS	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 x 0.15	140	2640.073
			1.09 x 0.15	140	2640.109
			1.40 x 0.15	140	2640.140
			1.57 x 0.15	140	2640.157
			2.07 x 0.15	140	2640.207
			2.57 x 0.15	140	2640.257
			3.07 x 0.15	140	2640.307
5	O-toe board, wood for decks with O-insertion. for longitudinal and end sides	IND	0.73 x 0.15	140	2642.073
			1.09 x 0.15	140	2642.109
			1.40 x 0.15	140	2642.140
			1.57 x 0.15	140	2642.157
			2.07 x 0.15	140	2642.207
			2.57 x 0.15	140	2642.257
			3.07 x 0.15	140	2642.307
6	U-steel toe board		0.73 x 0.15	280	2649.073
			1.09 x 0.15	140	2649.109
			1.40 x 0.15	140	2649.140
			1.57 x 0.15	140	2649.157
			2.07 x 0.15	140	2649.207
			2.57 x 0.15	140	2649.257
			3.07 x 0.15	140	2649.307
7	O-steel toe board		0.73 x 0.15	280	2648.073
			1.09 x 0.15	140	2648.109
			1.40 x 0.15	140	2648.140
			1.57 x 0.15	140	2648.157
			2.07 x 0.15	140	2648.207
			2.57 x 0.15	140	2648.257
			3.07 x 0.15	140	2648.307
8	U-toe board, aluminium for longitudinal and end sides, lightweight and durable		0.73 x 0.15	210	2651.073
			1.09 x 0.15	210	2651.109
			1.40 x 0.15	210	2651.140
			1.57 x 0.15	210	2651.157
			2.07 x 0.15	210	2651.207
			2.57 x 0.15	210	2651.257
			3.07 x 0.15	210	2651.307
9	O-toe board, aluminium for longitudinal and end sides, lightweight and durable		0.73 x 0.15	210	2641.073
			1.09 x 0.15	210	2641.109
			1.40 x 0.15	210	2641.140
			1.57 x 0.15	210	2641.157
			2.07 x 0.15	210	2641.207
			2.57 x 0.15	210	2641.257
			3.07 x 0.15	210	2641.307
10	Half-coupler with toe board pin	19 WS		25	4708.019
		22 WS		25	4708.022

WS = wrench size PU = packaging unit = available ex works = delivery time on request = only available in this packaging unit = the approval process is not yet completed

IND = Layher Individual possible – see page 7

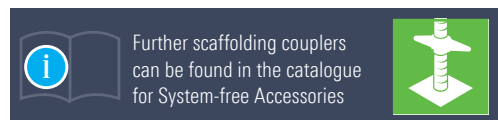
Couplers



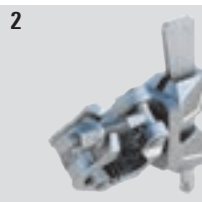
The **wedge-head coupler 1/2** serves to connect 48.30 mm dia. scaffolding tubes to the rosettes of the standards.

The **twin wedge coupler 3** is for connecting several standards to each other, e.g. for combining standards in support scaffolding construction.

Scaffolding couplers 4/5 connections, in steel, drop-forged; as per DIN EN 74. Tightening torque of collar nuts 50 Nm.



Couplers



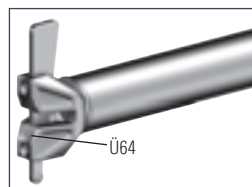
For right-angled connection of tubes with dia. 48.30 mm



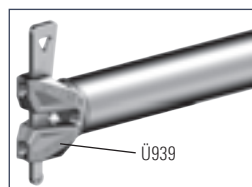
For connection at any angle of tubes with dia. 48.30 mm

Spare Parts, Accessories and Anchoring

The **wedge 6a** is made for wedge-heads with Ü64-imprinting (2000+ and Variant II)

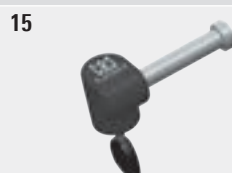
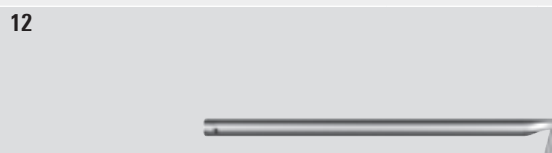
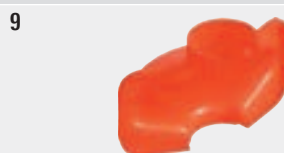


The **wedge LW 6b** is made for wedge-heads with Ü939-imprinting (Lightweight).



Scaffolding must be anchored vertically to and parallel with the façade with resistance to both tensile and compressive stress. The **Allround wall tie 0.80 m 11** must be secured with a standard coupler to the standard and supported with the fork plate on the U-section of the transverse ledger.


Spare Parts, Accessories and Anchoring



































By using the **scaffolding lock**, you can secure your scaffolding against unauthorized alteration or dismantling. Use in topmost level instead of locking pins.

Layher

More Possibilities. The Scaffolding System.

Pos.	Description		Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	Wedge-head coupler, rigid	19 WS		1.4	25	2628.019
		22 WS		1.4	25	2628.022
2	Wedge-head coupler, swivelling	19 WS		1.5	25	2629.019
		22 WS		1.5	25	2629.022
3	Twin wedge coupler			1.2	25	2629.000 
4a	Double coupler Class BB. EN 74-1 RA BB C3 M quality-monitored, for use in class B and BB on steel and aluminium tube	19 WS		1.3	25	4700.019
		22 WS		1.3	25	4700.022
4b	Rapid double coupler Description as Pos. 4a acc. to approval Z-8.331-947	19 WS		1.3	25	4777.019
		22 WS		1.3	25	4777.022
5a	Swivel coupler Class B. EN 74-1 SW B C3 M. quality-monitored, for use in class B on steel and aluminium tube	19 WS		1.4	25	4702.019
		22 WS		1.5	25	4702.022
5b	Rapid swivel coupler Description as Pos. 5a acc. to approval Z-8.331-947	19 WS		1.5	25	4778.019
		22 WS		1.5	25	4778.022

Pos.	Description		Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
6a	Wedge. 6 mm with truss head rivet 5 x 11 mm			3.3	25 	6494.916
	Wedge. 6 mm without rivet 5 x 11 mm			13.0	100 	6494.918 
6b	Wedge LW. 6 mm with truss head rivet 5 x 11 mm			3.3	25 	6494.896 
	Wedge LW. 6 mm without rivet 5 x 11 mm			12.0	100 	6494.899 
7	Truss head rivet. 5 x 11 mm for securing the wedge			1.0	100 	6494.836 
8	Blind rivet. 4.80 x 12 mm for securing the wedge			0.5	100 	6493.323 
9	Allround rosette cover with connected ledger Polyethylene. fixing with disposable tie			0.7	10 	4007.007 
10	Allround rosette cover without connected ledger Polyethylene. fixing with disposable tie			0.9	10 	4007.008 
11	Allround wall tie. 0.80 m	0.80		3.3	100	2639.080
12	Wall tie	0.38		1.6	250	1754.038
		0.95		3.7	50	1754.095
		1.45		5.7	50	1754.145
		1.75		5.8	50	1754.175
13	Plastic wall insert. plastic drilled hole dia. 14 mm	70 mm		0.3	25 	4008.071
		100 mm		0.3	25 	4008.101
		135 mm		0.3	25 	4008.136
14	Ring screw. steel. galvanized. dia. 12 mm. for expanding plug	95 mm		1.6	10 	4009.096
		120 mm		1.8	10 	4009.121
		190 mm		2.5	10 	4009.191
		230 mm		3.0	10 	4009.231
		300 mm		3.5	10 	4009.301
		350 mm		5.0	10 	4009.351
15	Scaffolding lock basic set. 20 locks. 2 keys and code card basic set. 50 locks. 4 keys and code card Expansion set with same locking as basic set. 20 locks Expansion set with same locking as basic set. 50 locks			4.2	20 	4000.004  
				10.5	50 	4000.005  
				4.2	20 	4000.006  
				10.5	50 	4000.007  

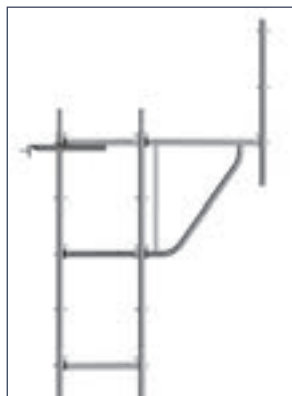
WS = wrench size PU = packaging unit  = available ex works  = delivery time on request  = only available in this packaging unit  = the approval process is not yet completed

 = Layher Individual possible – see page 7

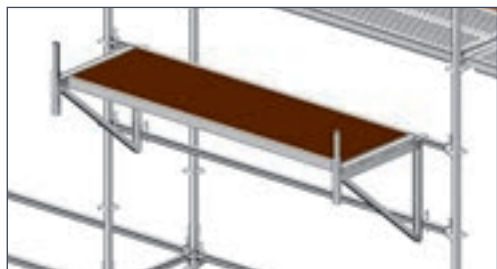
Brackets

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** (page 17).

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 **Bracket, 1.09 m wide 6** 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-bracket, with 2 hooks 7/8, suspended from the ledgers, for projecting platforms.

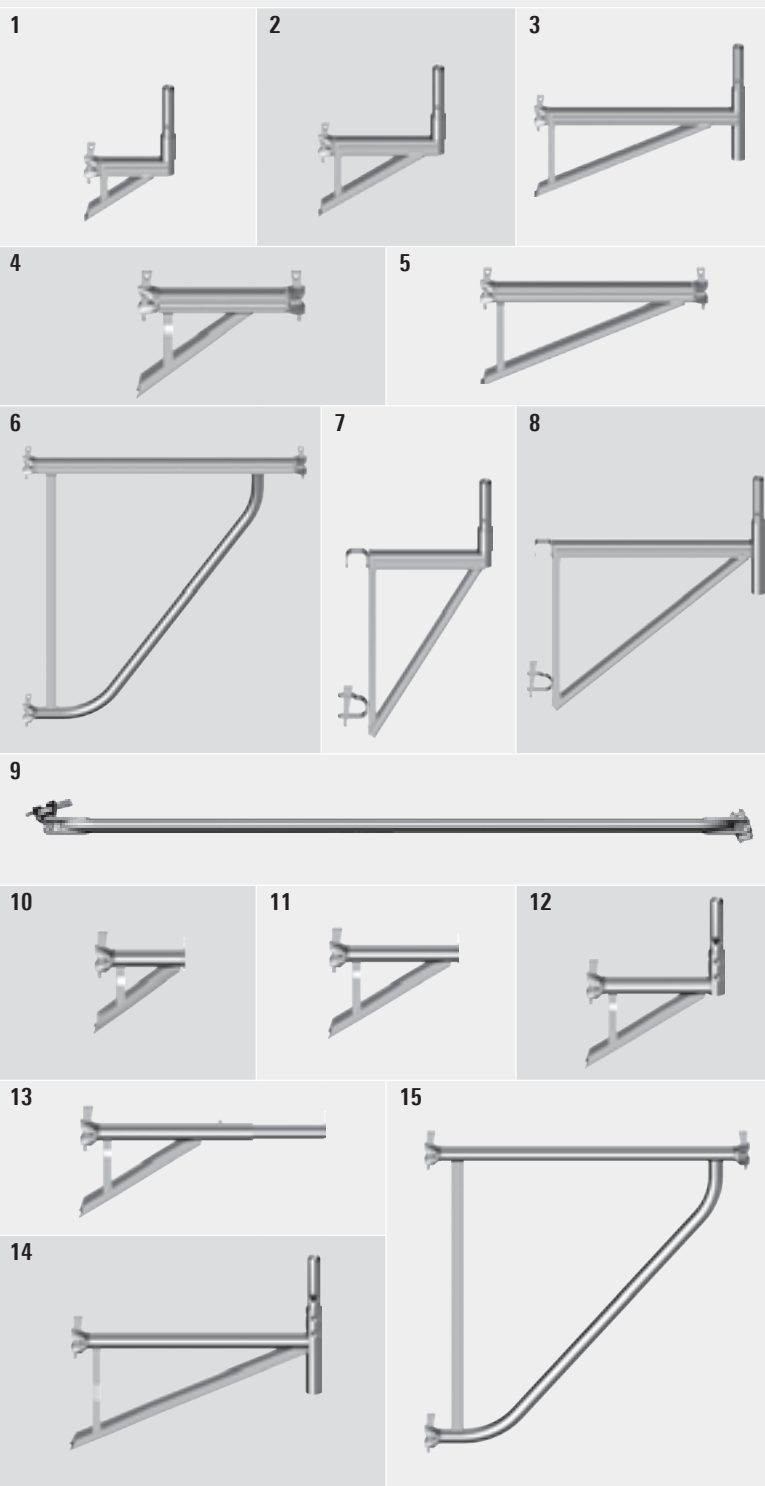


The **Bracket brace 2.05 m 9** is used to support the 0.73 m bracket.











The **O-bracket, 0.69 m wide, adjustable 13** is used incrementally and facilitates optimum stand height and wall distance.

Brackets

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.



U-lift-off-preventers can be used for all U-console brackets.

Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	U-console bracket LW , 0.28 m wide for U-deck 0.19 m wide, lift-off preventer provided by customer	0.28	3.4	100	2632.019  
2	U-console bracket LW , 0.39 m wide for U-deck 0.32 m wide	0.39	3.9	100	2632.039 
3	U-console bracket LW , 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 
4	U-console bracket LW , 0.45 m wide, with 2 wedge-heads for U-decks, 0.32 m wide	0.45	3.1		2632.045  
5	U-console bracket LW , 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  
6	U-console bracket LW , 1.09 m wide with U-section, for 3 U-decks 0.32 m wide	1.09	12.0	30	2632.109  
7	U-console bracket , with 2 hooks, 0.36 m wide for U-decks, 0.32 m wide	0.36	6.6	80	4005.036 
8	U-console bracket , with 2 hooks, 0.73 m wide for U-decks, 2 x 0.32 m or 1 x 0.61 m wide	0.73	8.5	40	4005.073 
9	Bracket brace , 2.05 m	2.05	8.8	50	2631.205 
10	O-console bracket , 0.26 m wide, without spigot for O-deck 0.19 m wide	0.26	2.3	250	2631.026 
11	O-console bracket , 0.36 m wide, without spigot for O-deck 0.32 m wide	0.36	3.4	100	2630.038 
12	O-console bracket , 0.39 m wide for O-deck 0.32 m wide	0.39	3.9	250	2631.039 
13	O-console bracket , 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 
14	O-console bracket , 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 
15	O-console bracket , 1.09 m wide for 3 O-decks 0.32 m wide	1.09	12.0	30	2631.109 



Assembly situation: **U-console bracket, 0.73 m wide 3** (top) or alternatively **U-ledger 0.73 m** in conjunction with **Bracket brace 2.05 m 9** (left).



U-ledgers with gap cover, 0.11 m wide are available in a variety of lengths for gap-free work surfaces between U-main scaffolding decks and U-console bracket decks (see pages 40/41).

Pedestrian protection, brick guard, scaffolding enclosure

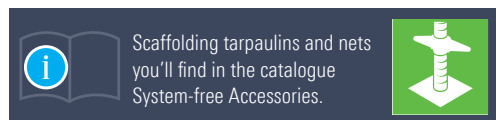
The **U-walkway beam 1** is designed for further construction with 0.73 m or 1.09 m wide scaffolding. Additional bracing is required for constructing pedestrian passages.

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.

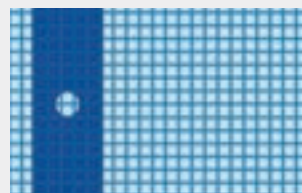
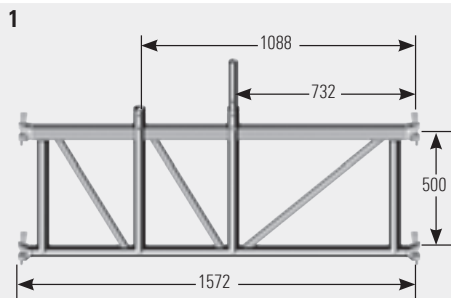
Side protection net 10.00 x 2.00 m,
Specification: Mesh width 100 mm, blue, made of PPM 4.5 mm, knotless, as per DIN EN 1263-1, type U

Scaffolding tarpaulins and nets

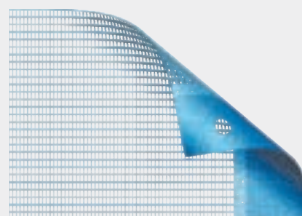
To protect passers-by and traffic during spraying work and other site work causing dirt, façade scaffolding is covered with tarpaulins and nets. Layer scaffolding tarpaulins and nets meet the requirements of DIN 4420-1. Compliance with design parameters prevents objects falling from the scaffolding level.



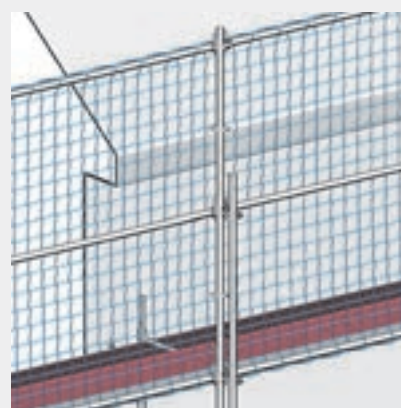
Pedestrian protection, brick guard, scaffolding enclosure



Scaffolding tarpaulin



Scaffolding net



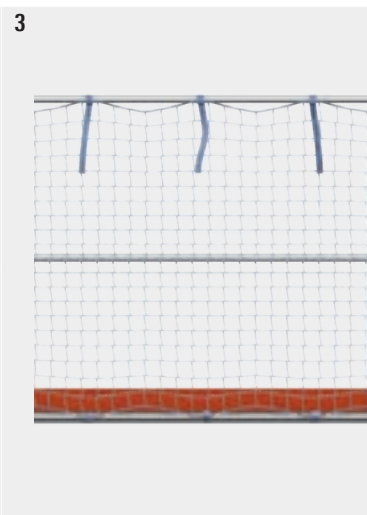
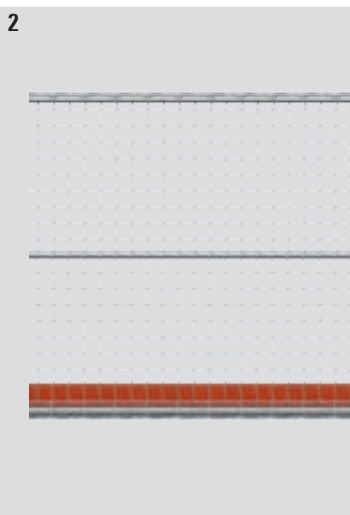
Brick guard

Brick guard 2/3

The nets are attached at the bottom (at scaffolding deck height) and at the top (2 m above the scaffolding deck) to a tube.

Without a **quick strap fastener 4**, the protection net is threaded with each loop of its mesh into the tubes. With quick strap fasteners, the side protection net is attached 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 4.50 mm, knotless, as per DIN EN 1263-1.



Layher®

More Possibilities. The Scaffolding System.

Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	U-walkway beam , 1.57 m wide steel, for scaffolding group 4, up to bay length 3.07 m; max. assembly height 14.00 m	1.57 x 0.50	21.9	25	2665.157 ⌚



U-walkway beam

2	Protection net without quick strap fastener	10.00 x 2.00	4.5	100	6232.000
3	Protection net with quick strap fastener	10.00 x 2.00	5.9	50	6232.002
4	Quick strap fastener	0.50	1.5	50 🏠	6235.001



Safe, fatigue-free stairway ascent – also with transportation of materials – without impairment of the working surface. With the **platform stairway 1**, 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 2** 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.

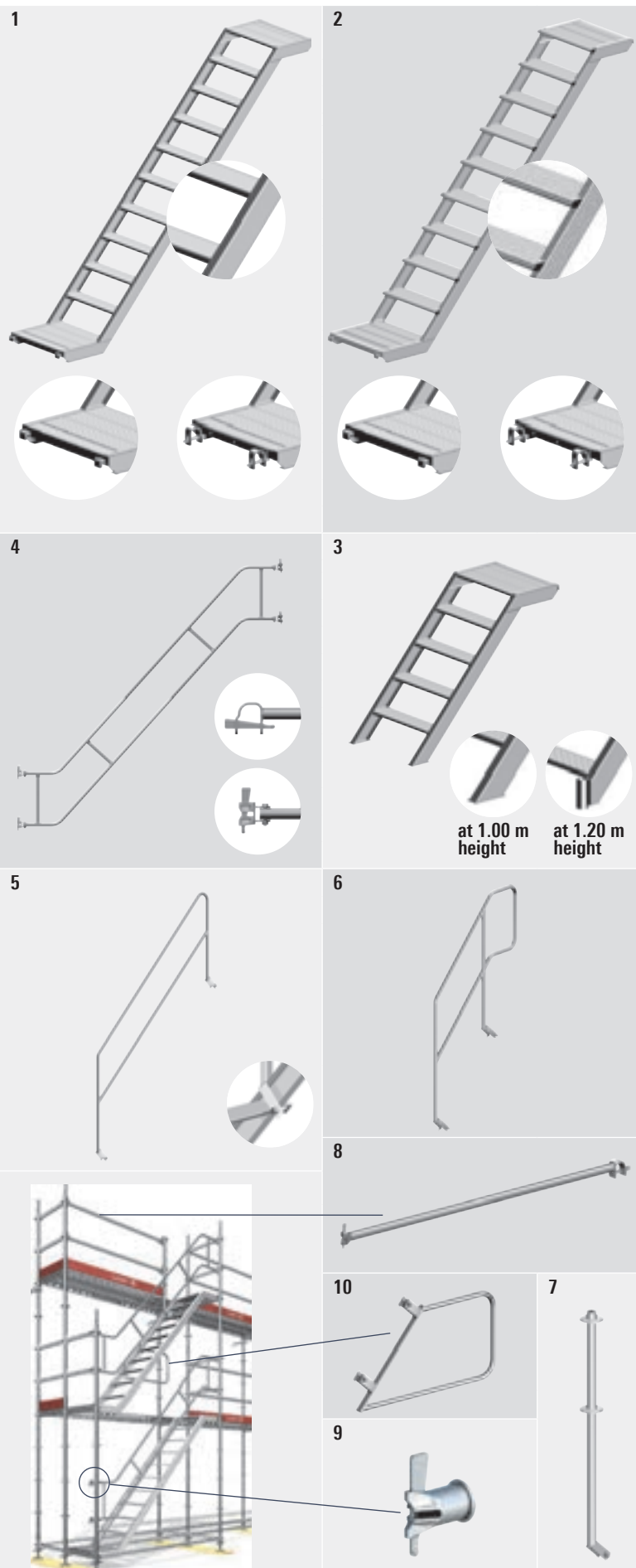


The **Internal stairway guardrail 5** is required for opposite stairways and serves to increase the stability of single-flight stairways.

The **stairway guardrail post 7** with the **O-ledger with wedge-head and U-fork 8** 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.



Platform stairway, Comfort stairway



Layher 

More Possibilities. The Scaffolding System.

Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	Platform stairway , aluminium, stair class A acc. to EN 12811-1				
	U-version, 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 x 0.64	21.9	10	1753.257
	U-version, 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 x 0.64	26.3	10	1753.307
	U-version, 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 x 0.64	21.5	10	1753.251
	U-version, 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 x 0.94	33.7	10	1753.258
	U-version, 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 x 0.94	40.1	10	1753.308
	U-version, 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 x 0.94	36.6	10	1753.252
	O-version, 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 x 0.64	23.2	10	2633.257
	O-version, 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 x 0.64	27.7	10	2633.307
	O-version, 0.64 m breit, 2.5 kN/m², 1.50 m high, for 2.57 m bay length; step height 0.18 m	2.57 x 0.64	22.8	10	2633.258
2	Comfort stairway , aluminium, stair class B acc. to EN 12811-1				
	U-version, 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 x 0.64	27.0	10	1755.257
	U-version, 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 x 0.64	32.0	10	1755.307
	O-version, 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 x 0.64	29.2	10	2635.257
	O-version, 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 x 0.94	39.1	10	2635.258
3	Starting stairway , aluminium, stair class A acc. to EN 12811-1				
	U-version, 0.64 m wide, 2.5 kN/m², 1.00 m high, step height 0.20 m	1.20 x 0.64	11.5	10	1753.003
	U-version, 0.64 m wide, 2.5 kN/m², 1.20 m high, step height 0.20 m	1.60 x 0.64	13.5	10	1753.002
	U-version, 0.94 m wide, 2.0 kN/m², 1.00 m high, step height 0.20 m	1.20 x 0.94	17.0	10	1753.001
	O-version, 0.64 m wide, 2.5 kN/m², 1.00 m high, step height 0.20 m	1.20 x 0.64	13.8	10	2633.003
	O-version, 0.64 m wide, 2.5 kN/m², 1.20 m high, step height 0.20 m	1.60 x 0.64	15.3	10	2633.002
4	Stairway guardrail , steel galvanized, for Pos. 1, 2, 3				
	2.00 m high, for 2.57 m bay length with U-fork	2.57	18.1	70	2638.257
	2.00 m high, for 3.07 m bay length with U-fork	3.07	20.1	70	2638.307
	2.00 m high, for 2.57 m bay length with swivelling wedge-head	2.57	18.0	70	2638.258
	2.00 m high, for 3.07 m bay length with swivelling wedge-head	3.07	21.0	70	2638.308
	1.50 m high, for 2.57 m bay length with U-fork	2.57	17.0	70	2638.251
	1.50 m high, for 2.57 m bay length with swivelling wedge-head	2.57	16.7	70	2638.252
5	Internal stairway guardrail T12 , steel galvanized, mandatory for opposite-direction stairways				
	2.00 m high	19 WS 2.25	13.5	20	1752.007
	2.00 m high	22 WS 2.25	13.5	20	1752.008
	1.50 m high	19 WS 2.00	11.5	20	1752.012
	1.00 m high	19 WS 0.90	7.8	20	1752.011
6	Initial stairway guardrail	19 WS 0.90 x 1.70	9.9	20	1752.009
7	Stair guardrail post is used for the stairwell at the top level	19 WS 1.30	6.1	50	2638.400
8	O-ledger with wedge-head and U-fork , is used for the stairwell at the top level				
	for 2.57 m bay length	1.90	7.8	50	2638.401
	for 3.07 m bay length	2.15	8.8	50	2638.402
9	Stairway guardrail adaptor		0.7	25	2637.000
10	Stairwell guardrail	19 WS	6.2	40	1752.004
		22 WS	6.2	40	1752.014

WS = wrench size PU = packaging unit = available ex works = delivery time on request = only available in this packaging unit = the approval process is not yet completed

= Layher Individual possible – see page 7

Modular stairway, outside access, construction staitower 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.

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 dia. 12 x 55 mm** and **Safety clip dia. 2.8 mm** (2 per joint). (They are already included in the scope of delivery).

Constructing outward-facing access bays requires simple **Scaffolding ladders** together with the **Swing door** and the **Guardrail standard, 1.70 m, bended**.



Layher simple 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.

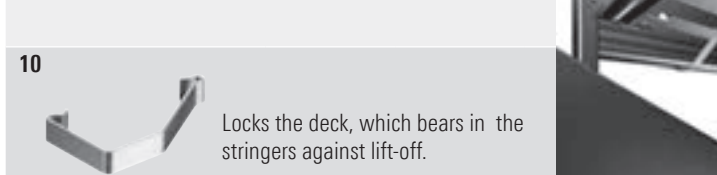
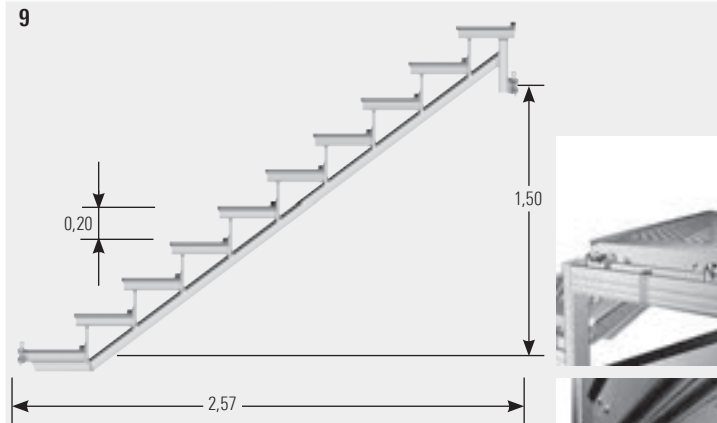
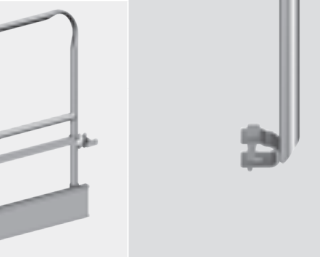
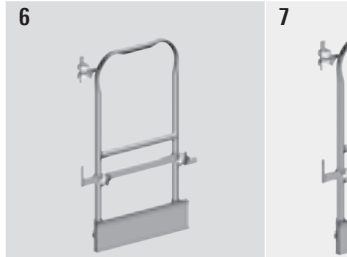
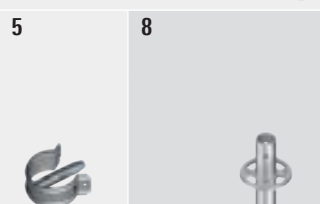
The **U-/O-stairway stringer 200, 10-step 9** and the **Landing-type stairway, aluminium** (see page 36) are not just a quick and comfortable means of upward access which permits problem-free vertical transportation of materials and working on all scaffolding levels, they also easily enable stairtowers 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 loading for a stair flight width of 1.29 m
Riser s	20.0 cm	2.0 kN/m ²
Tread a	24.1 cm	
Undercut u	7.9 cm	

















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More Possibilities. The Scaffolding System.

Modular stairway, outside access, construction staitower 200



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

Pos.	Description		Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	U-stair head section, 0.60 m		0.60	10.7	15	2637.060
	U-stair head section, 0.95 m Spigot preassembled with bolts and safety clips		0.95	11.7	50	2637.095 
2	Stair middle section, 0.60 m		0.60	9.2	15	2638.060
	Stair middle section, 0.95 m Spigot preassembled with bolts and safety clips		0.95	10.2	50	2638.095 
3	Stair foot section, 0.60 m		0.60	6.8	15	2639.060
	Stair foot section, 0.95 m		0.95	7.8	50	2639.095 
4	Pole ladder, aluminium	10 rungs	2.90 x 0.46	7.2	50	1004.010
		14 rungs	4.00 x 0.46	10.0	50	1004.014
		17 rungs	4.90 x 0.46	12.0	50	1004.017
		20 rungs	5.70 x 0.46	14.1	50	1004.020
	Pole ladder, steel	6 rungs	1.50 x 0.43	12.0	50	1002.006 
		8 rungs	2.00 x 0.43	15.0	50	1002.008 
		12 rungs	3.00 x 0.43	21.5	50	1002.012 
		16 rungs	4.00 x 0.43	28.0	50	1002.016 
5	Spring clip, 11 mm pin for securing the joint connections of the extended simple steel/aluminium scaffolding ladder Ref. No. 1002/1004			0.1	200	4106.000
6	Swing door, 0.73 m, adjustable		0.73	8.8	40	2627.011  
7	Swing door, 1.00 m, adjustable		1.00	10.5	40	2627.012  
8	Guardrail standard, 1.70 m, bended		1.70	8.5	50	2606.170 
9	U-stairway stringer 200, 10-step, 2.00 m storey height		2.00 x 2.57	28.4	20	2638.010 
	O-stairway stringer 200 LW, 10-step, 2.00 m storey height		2.00 x 2.57	28.4	20	2638.011 
10	Lift-off prevention clamp			1.0	20 	2634.031 

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.



WS = wrench size PU = packaging unit  = available ex works  = delivery time on request  = only available in this packaging unit  = the approval process is not yet completed

 = Layher Individual possible – see page 7

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

	9 steps	5 steps (U-Version)	Permissible load with a stair flight width of 2.07 m
Riser s	20.0 cm	20.0 cm	
Tread a	27.5 cm	29.0 cm	
Under-cut 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 grand-stands. Its features are the high load-bearing capacity and the reduced stairway riser.

U-stairway stringer 750

	8 steps	5 steps	2 steps	Permissible load with a stair flight width of 2.07 m
Riser s	16.6 cm	16.7 cm	16.7 cm	
Tread a	31.0 cm	29.0 cm	32.7 cm	
Under-cut u	1.0 cm	3.0 cm	-0.7 cm	

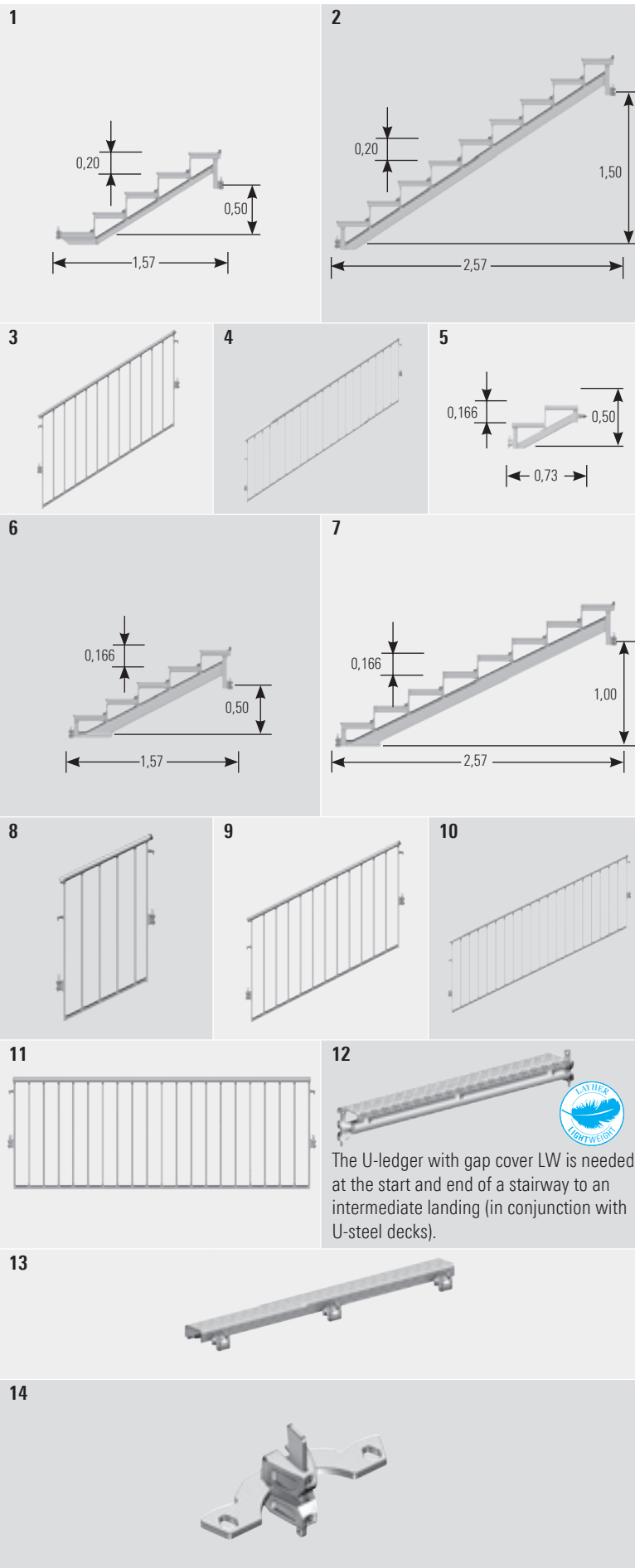
A height adjustment outside the 2.00 m or 1.50 m standard dimension is achieved with 5-step stairway stringers (1.00 m high). Alternatively, the stairway stringers 500 and 750 can also be combined in the stairtower structure.




















































The stairtower structures must be verified for each single structure as regards structural strength.

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Stairway towers 500 and 750



Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	U-stairway stringer 500 LW, 5 steps (1.00 m storey height)	1.00 x 1.57	21.0	20	2639.004  
2	U-stairway stringer 500 LW, 9 steps (2.00 m storey height)	2.00 x 2.57	34.0	20	2639.009  
	O-stairway stringer 500, 9 steps (2.00 m storey height)	2.00 x 2.57	35.8	20	2638.012 
3	Guardrail for stairs 500 T12, 5 steps (1.00 m storey height)	1.00 x 1.57	24.8	25	2616.104 
4	Guardrail for stairs 500 T12, 9 steps (2.00 m storey height)	2.00 x 2.57	35.8	25	2616.100 
5	U-stairway stringer 750 LW, 2 steps (0.50 m storey height)	0.50 x 0.73	10.6	20	2639.002  
	O-stairway stringer 750 LW, 2 steps (0.50 m storey height)	0.50 x 0.73	10.8		2638.013  
6	U-stairway stringer 750 LW, 5 steps (1.00 m storey height)	1.00 x 1.57	28.7	20	2639.005  
	O-stairway stringer 750 LW, 5 steps (1.00 m storey height)	1.00 x 1.57	19.9	20	2638.014  
7	U-stairway stringer 750 LW, 8 steps (1.50 m storey height)	1.50 x 2.57	36.4	20	2639.008  
	O-stairway stringer 750 LW, 8 steps (1.50 m storey height)	1.50 x 2.57	37.2	20	2638.015  
8	Guardrail for stairs 750 T12, 2 steps (0.50 m storey height)	0.50 x 0.73	14.8	25	2616.110 
9	Guardrail for stairs 750 T12, 5 steps (1.00 m storey height)	1.00 x 1.57	24.3	25	2616.105 
10	Guardrail for stairs 750 T12, 8 steps (1.50 m storey height)	1.50 x 2.57	34.6	25	2616.101 
11	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 
12	U-ledger with gap cover LW, 0.11 m width	0.73	5.2	250	2675.073  
		1.09	7.6	250	2675.109  
		1.29	8.9	250	2675.129  
		1.40	9.7	250	2675.140  
		1.57	10.8	250	2675.157  
		2.07	14.2	250	2675.207  
		2.57	17.6	250	2675.257  
13	U-gap cover with claws	1.09	5.0	50	3868.109 
		1.29	6.0	50	3868.129  
		1.40	6.5		3868.140 
		1.57	7.3	50	3868.157 
		2.07	9.7	50	3868.207 
14	Guardrail fixing device		0.8	25	2636.000 



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Step cover

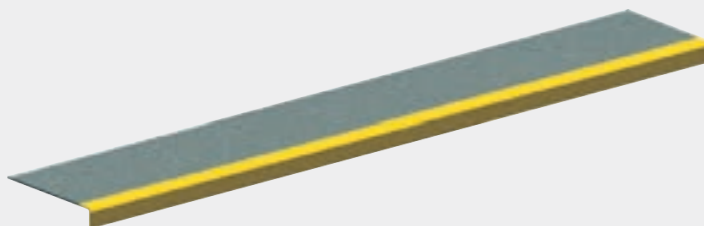
Sure footing with **Layher step covers**. With their non-slip surface using quartz sand, they ensure maximum safety on Layher stair-ways in rain, snow and ice conditions. The step covers are made from glass-fibre-reinforced plastic. They are permanently resistant to weather effects, easy to clean, electrically 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.



Step cover

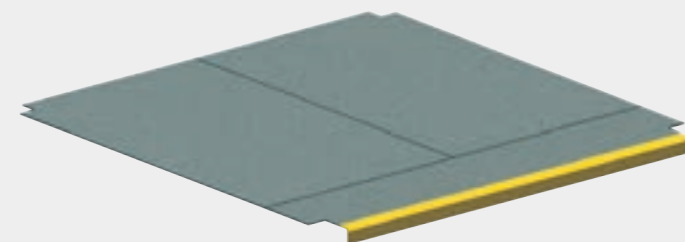
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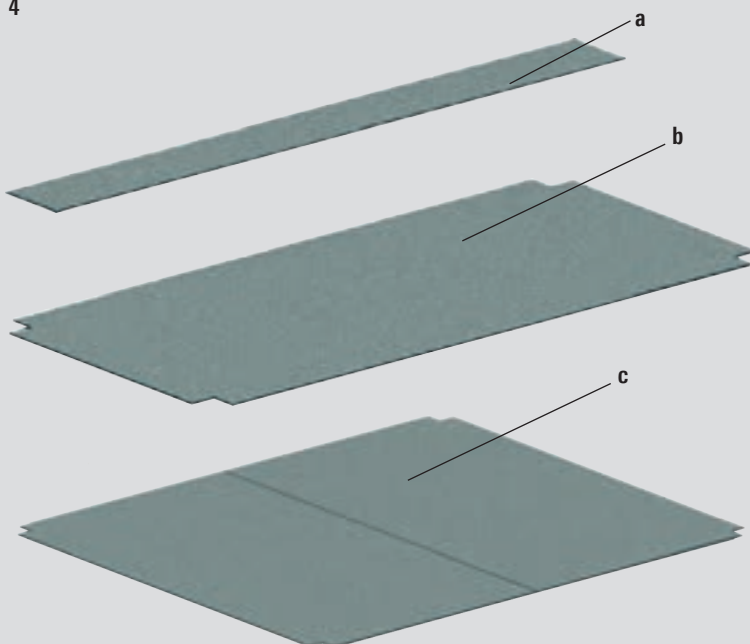
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3



4



5-7



Layher 

More Possibilities. The Scaffolding System.

Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	Step cover Necessary fixation material: each 3 pcs. (of PU 50 pcs.) Pos. 5–7	1.57 x 0.33	3.2		4000.157
		2.07 x 0.33	4.2		4000.207
2	Riser Necessary fixation material: each 2 pcs. (of PU 50 pcs.) Pos. 5–7	1.57 x 0.16	1.6		4001.157
		2.07 x 0.16	2.0		4001.207
3	Landing cover with nose for adjacent stair Necessary fixation material: each 21 pcs. (of PU 50 pcs.) Pos. 5–7	1.57 x 1.57	15.3		4002.157
		2.07 x 2.07	26.6		4002.207
4	Landing cover a) flat, for use in intermediate bay Necessary fixation material: each 2 pcs. (of PU 50 pcs.) Pos. 5–7 b) flat, for use in intermediate bay Necessary fixation material: each 6 pcs. (of PU 50 pcs.) Pos. 5–7 c) flat, for use on platforms Necessary fixation material: each 18 pcs. (of PU 50 pcs.) Pos. 5–7				
		1.57 x 0.15	1.5		4003.015
		2.07 x 0.15	2.0		4003.016
		1.57 x 0.73	7.1		4003.073
		2.07 x 0.73	9.4		4003.074
		1.57 x 1.57	15.3		4003.157
		2.07 x 2.07	26.6		4003.207
5	Countersunk bolt M8 x 30		0.6	50	6495.016
6	Securing nut M8		0.2	50	6494.513
7	Spring washer A 8.4 x 18 mm		0.3	50	6495.017

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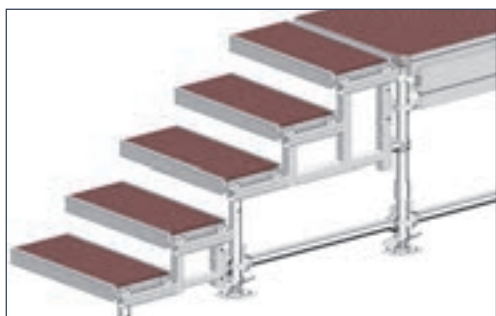
IND = Layher Individual possible – see page 7

Stringers and guardrails for Modular stairway

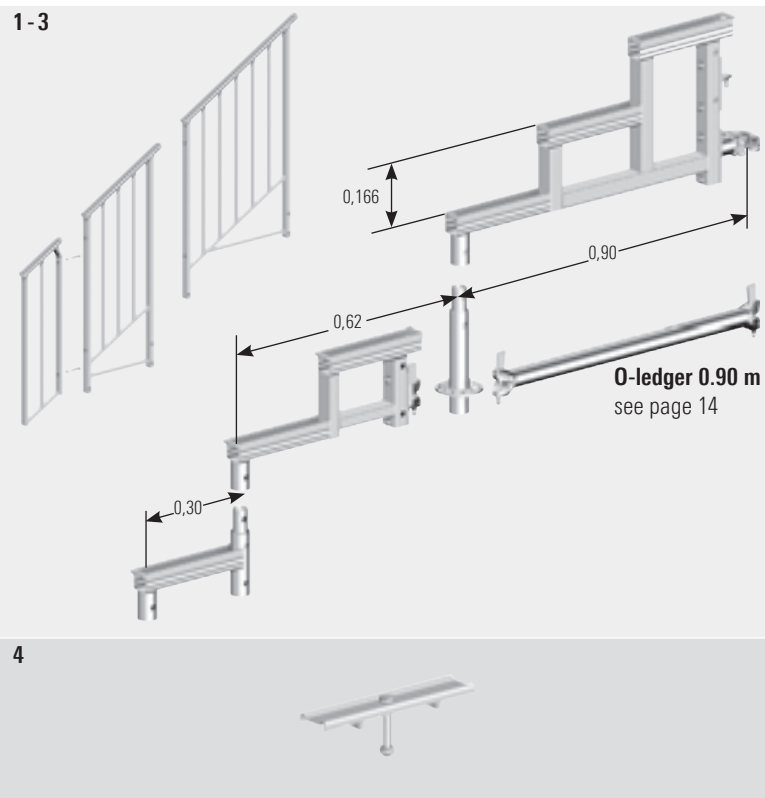
Modular stairway at scaffolding



Modular stairway at Event stage



Stringers and guardrails for Modular stairway



Lattice beams

The **U-lattice beam, steel 6** and the **U-lattice beam, aluminium 6**, with 4 wedge-heads for locating on standards are used to construct birdcage scaffolding or in conjunction with the **Spigot for U-lattice beam 9**, for further construction in the scaffolding standard dimension or for bridging.

O-lattice beam, with 4 wedge-heads 5, 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 8 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**.

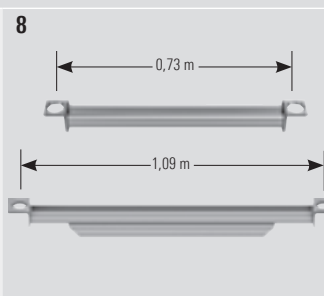
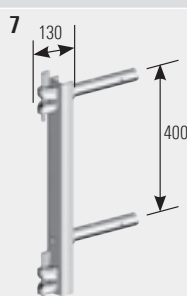
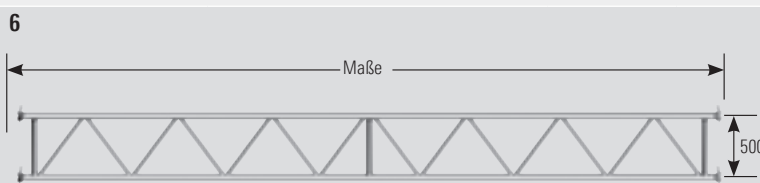
The **Lattice beam connection 0.50 m, with 2 wedge-heads 7** permits a connection between non-system aluminium or steel lattice beams 450 and Allround standards.

Lattice beams











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



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More Possibilities. The Scaffolding System.

Pos.	Description		Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	Stringer for modular stairway	1-step		2.4	50	5407.001 
		2-step		5.5	50	5407.002 
		3-step		8.0	20	5407.003 
2	Base collar 0.26 m, for modular stairway with spigot			2.0	450	5407.021 
3	Guardrail for modular stairway	1-step		6.5	40	5407.011 
		2-step		14.0	25	5407.012 
		3-step		16.0	25	5407.013 
4	Lift-off preventer with bolt		0.29	0.4	300	5407.030 

Pos.	Description		Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
5	U-lattice beams LW, with 4 wedge-heads, steel		2.07 x 0.50	21.4	40	2673.207  
			2.57 x 0.50	24.9	40	2673.257  
			3.07 x 0.50	31.9	40	2673.307  
			4.14 x 0.50	40.0	40	2673.414  
			5.14 x 0.50	51.2	40	2673.514  
			6.14 x 0.50	60.5	40	2673.614  
	U-lattice beam, with 4 wedge-heads, aluminium		1.57 x 0.50	8.6	40	3206.157 
			2.07 x 0.50	12.3	40	3206.207 
			2.57 x 0.50	15.2	40	3206.257 
			3.07 x 0.50	17.0	40	3206.307 
			4.14 x 0.50	24.6	40	3206.414 
			5.14 x 0.50	30.2	40	3206.514 
6	O-lattice beam LW, with 4 wedge-heads, steel		2.07 x 0.50	22.2	40	2674.207  
			2.57 x 0.50	25.5	40	2674.257  
			3.07 x 0.50	30.9	40	2674.307  
			4.14 x 0.50	40.2	40	2674.414  
			5.14 x 0.50	51.2	40	2674.514  
			6.14 x 0.50	59.2	40	2674.614  
			7.71 x 0.50	71.0	40	2674.771  
7	Lattice beam connection, 0.50 m, with 2 wedge-heads for system-free lattice beams		0.58	8.3	100	4920.050 
8	U-ledger for lattice beam only in conjunction with pos. 9a/b	0.73 m	0.73	3.1	42	4923.073
		1.09 m	1.09	4.3	42	4923.109 
9a	Spigot for U-lattice beam incl. 2 bolts, also for U-bridging ledger			2.1		2656.001
9b	Spigot for U-lattice beam, reinforced, for lattice beam incl. 2 bolts			2.1		2656.002
10	Spigot for O-lattice beam, with half-coupler for lattice beam and ledger	19 WS		1.8	250	4706.019
		22 WS		1.8	250	4706.022 

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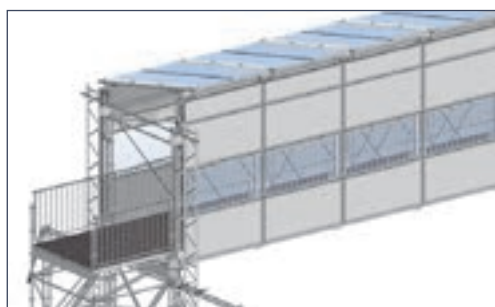
Bridging system

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 Allround system can be increased enough to create, for example, wide-span footbridges or support structures for heavy loads.

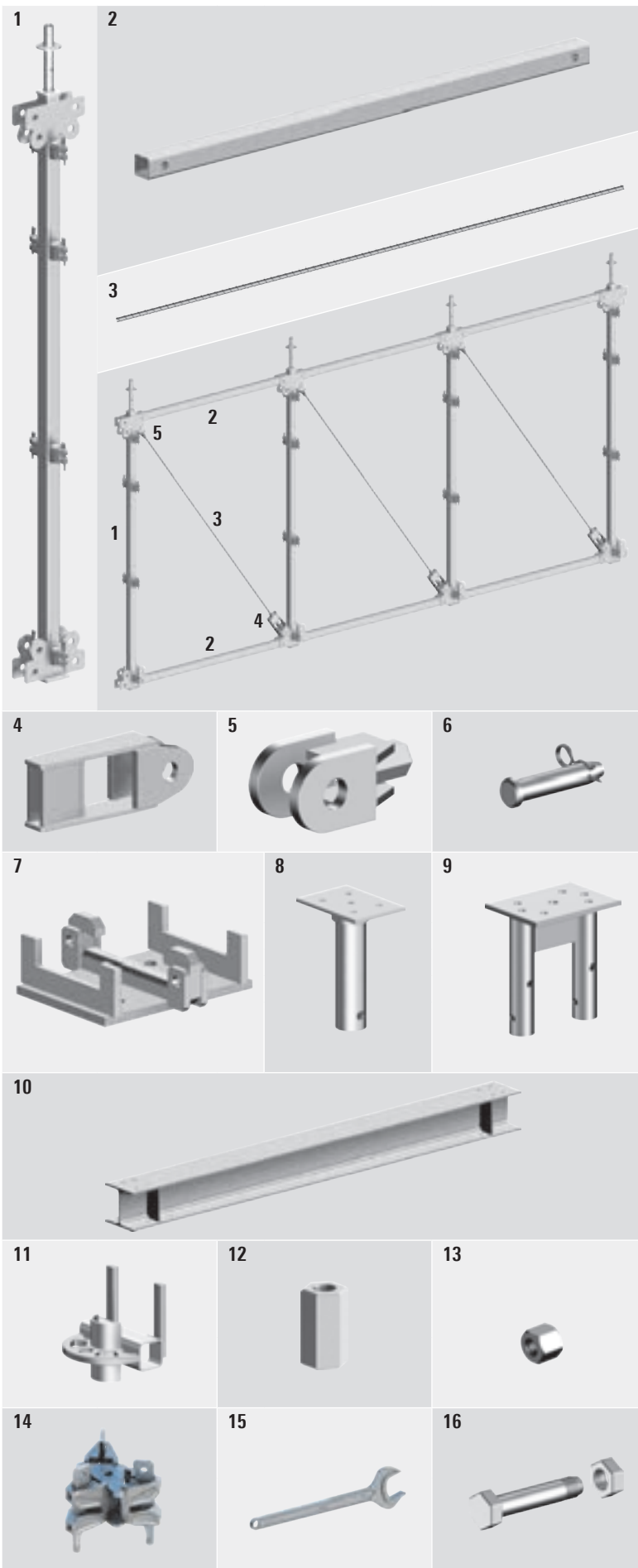
The Allround bridging system is available in the familiar Layher dimensions of 2.07 m and 2.57 m, with its unique wedge-head connection making it fully compatible with Layher Allround equipment. Simple bolt connections enable the components of the bridging system to be connected up, resulting in quick 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.





























Bridging system



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Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	Post	3.22	56.0	18	2671.000 
2	Chord for 2.07 m bay length for 2.57 m bay length				
		1.97	20.8	45	2671.010 
		2.47	25.8	45	2671.020 
3	Diagonal rod for 2.07 m bay length for 2.57 m bay length	3.05	7.9	100	2671.030 
		3.37	8.7	100	2671.040 
4	Diagonal anchoring, without nut		5.5		2671.050 
5	Diagonal anchoring, with nut		2.9		2671.060 
6	Bolt 30 mm dia.		8.0	10 	2671.071 
	Securing pin 4 mm dia.		1.5	50 	5905.001 
7	Support element		4.8	80	2671.080 
8	Adapter for heavy-duty column		5.5	124	2671.090 
9	Support for double standard		4.9		2671.140 
10	Support beam for bridge width 1.57 m for bridge width 2.07 m for bridge width 2.57 m				
			119.2	10	2671.095 
			145.8	10	2671.100 
			167.0	10	2671.105 
11	Protect holder		1.0		2671.110 
12	Clamping nut for diagonal rod, WS 36 x 70, galvanized		4.0	10 	2671.121 
13	Locking nut for diagonal rod, WS 36 x 70, galvanized		4.0	20 	2671.131 
14	Wedge-head coupler, triple		2.3		2671.150 
15	Open ended wrench WS 36		0.5		2671.135 
16	Hexagon head bolt M12 x 35, with nut		5.0	50 	2671.161 

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The great advantage of the **STAR Frame** is its unrestricted integration into the existing Allround module system.

- ▶ Only one system for both façade and industrial scaffolding.
- ▶ Rapid assembly and new possibilities for using the Allround equipment.
- ▶ Use of the STAR Frame in conjunction with basic components of the Allround equipment.



Revolutionary, the new guardrail attachment – rapid assembly without tools and increased safety thanks to rapid recognition of the closed state thanks to the red bar.

Layher® 

More Possibilities. The Scaffolding System.

Pos.	Description		Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	U-STAR frame Standard frame 2.00 x 0.73 m		2.00 x 0.73	18.0	22	2602.001
2	U-STAR frame LW Standard frame 2.00 x 1.09 m		2.00 x 1.09	23.6	13	2602.056
3	U-STAR frame LW a) Adjustment frame 0.50 x 0.73 m b) Adjustment frame 1.00 x 0.73 m c) Adjustment frame 1.50 x 0.73 m					
			0.50 x 0.73	9.0	22	2602.050
			1.00 x 0.73	12.4	22	2602.051
			1.50 x 0.73	15.9	22	2602.052
4	O-STAR frame Standard frame 2.00 x 0.73 m		2.00 x 0.73	16.5	22	2602.002
5	O-STAR frame LW Standard frame 2.00 x 1.09 m		2.00 x 1.09	21.8	13	2602.057
6	O-STAR frame LW a) Adjustment frame 0.50 x 0.73 m b) Adjustment frame 1.00 x 0.73 m c) Adjustment frame 1.50 x 0.73 m					
			0.50 x 0.73	7.9	22	2602.053
			1.00 x 0.73	11.3	22	2602.054
			1.50 x 0.73	14.8	22	2602.055
7	STAR guardrail lightweight guardrail made of 33.70 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	2602.008
			2.07	3.7	140	2602.009
			2.57	4.5	140	2602.010
			3.07	5.5	140	2602.011
8	Roof guard support for STAR frame			7.2	20	2602.020
9	STAR double end guardrail closure of the scaffolding at its end. This permits the use of internal guardrails up to the end.	0.73 m	0.73	4.3	80	2602.014
		1.09 m	1.09	5.6	80	2602.018
10	STAR lift-off preventer The welded-on toe board pin requires the use of the lift-off preventer before the toe boards as specified can be installed at the working levels, (only necessary for STAR U-frame)	0.73 m	0.73	1.4	150	2602.015
		1.09 m	1.09	2.1	150	2602.017
11	STAR guardrail support top scaffolding closure of STAR type		1.00	4.7	50	2602.013
12	STAR internal guardrail fixing device rapid tool-less assembly by swinging in the bar. for the connection of internal guardrails			0.3	160	2602.012
13	STAR guardrail adaptor for lateral guardrail connection of STAR and Allround system			0.3	100	2602.016
14	STAR pallet, without parts 19 STAR frames (0.73 m wide) loading capacity with vertical storage and transport in the STAR pallet		1.20 x 0.91	42.3	10	5113.001
15	STAR transport safeguard prevents the STAR frames (0.73 m wide) from being pulled together on the truck when being secured. This ensures safe transportation. The top frame is secured with pins.		0.80	2.4	200	6309.001
16	STAR O-ledger with half-coupler end guardrail in prepositioned platform access bay	19 WS	0.73	3.5	200	2607.074

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= Layher Individual possible – see page 7

Shoring TG 60

The **Shoring TG 60** ensures a fast, flexible and safe assembly of shoring towers. 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 heart of the TG 60 are the **Shoring frames TG 60** with integrated rosettes. All frames are symmetrical parts, thus the orientation of the diagonal braces can be varied. 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**.

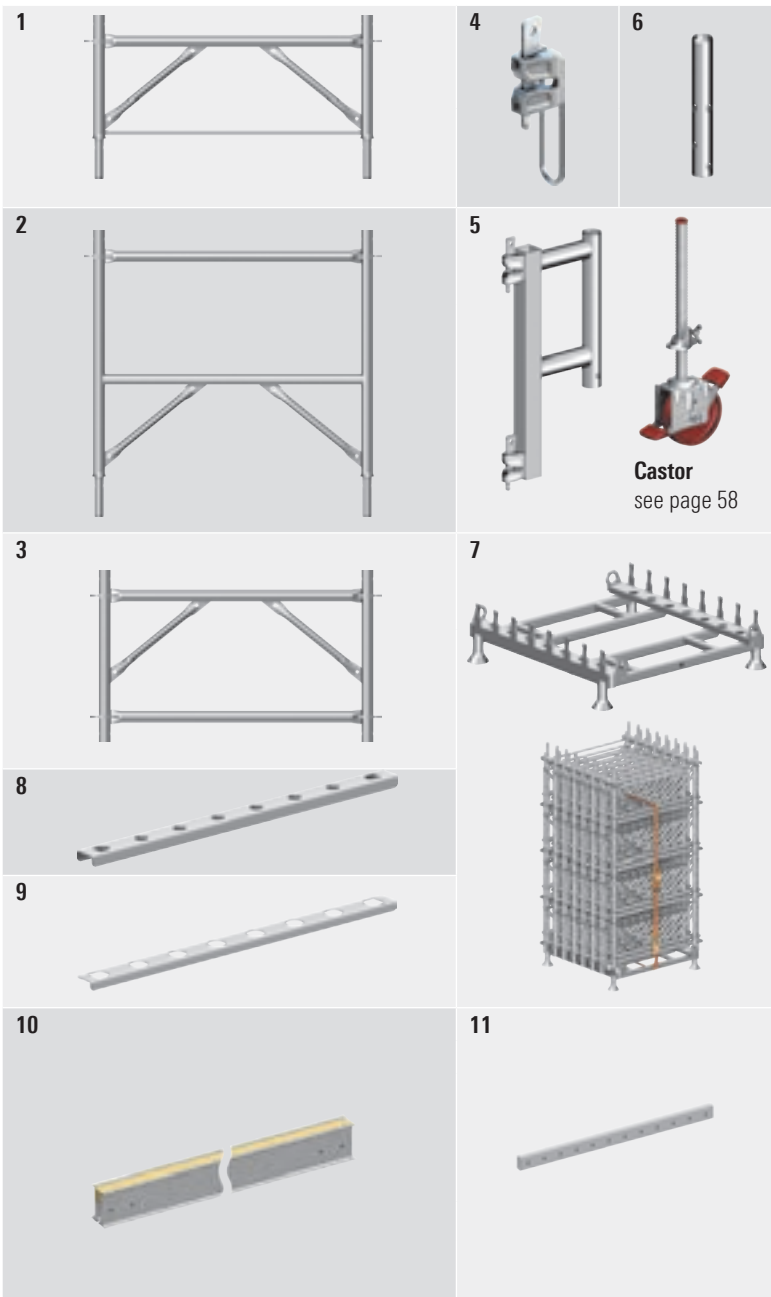
The Allround Shoring TG 60 has an integrated advanced guardrail without any accessories for assembly in vertical position. For the Allround Shoring TG 60, only solid base plates (see page 10) may be used.



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



Shoring TG 60



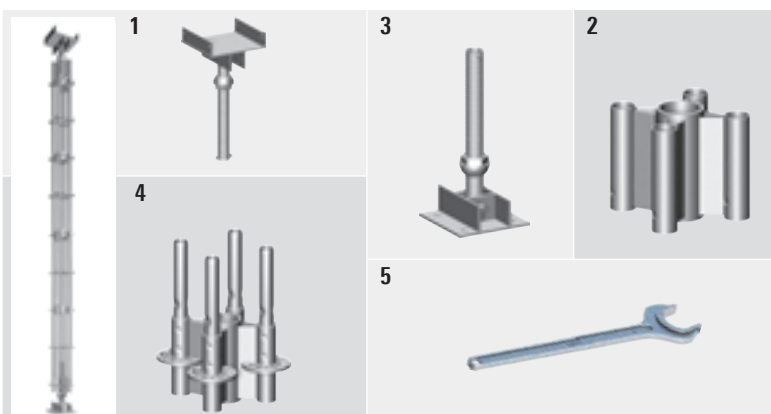
Heavy-duty column

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.















Load-bearing capacities as **single support**, **double support** or **tower**, you can get upon request.



Heavy-duty column




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Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	Shoring frame TG 60 spacer frame; with spigot at the bottom steel, hot-dip galvanized	0.50 x 1.09	13.0	21	2602.036 
2	Shoring frame TG 60 standard frame; with spigot at the bottom steel, hot-dip galvanized	1.00 x 1.09	17.7	21	2602.035 
3	Shoring frame TG 60 base frame, without spigot; steel, hot-dip galvanized	0.71 x 1.09	15.9	21	2602.034 
4	Spindle support for placement by crane or by castors steel, hot-dip galvanized		0.8	25	2602.033 
5	Castor adapter with 2 wedge-heads		6.4	50	2602.040 
6	Horing spigot for use of the initial frame as tower head, spigot is secured with 2 hinged pins		1.1		2602.032 
7	Shoring frame pallet for use with 22 shoring frames each level, stackable, craneable, opitimized for truck beds	1.20 x 1.10	53.7	10	5113.003 
8	Loading and stacking securing profile for use at the stack head with upwards pointing spigots	1.20	3.9	50	5113.004 
9	Loading and stacking securing profile for use at the stacking head without upwards pointing spigots (e.g. for stacking of initial frames)	1.20	3.4	50	5113.005 
10	Aluminium section beam with wood , with riveted-in wood section, with holes drilled for connection by means of beam connectors 3.00 m long 4.00 m long	3.00	18.0		4026.300 
		4.00	24.0		4026.400 
11	Beam connector , 1.20 m	1.20	6.6	100	4026.000 
12	Beam connector bolt , M12 x 70, with nut		0.7	10 	4026.002 

Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	Head jack for heavy-duty column	0.70	30.9	40	5312.004 
2	Head part for heavy-duty column	0.21	7.1	40	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	40	5312.002 
5	Single open-end wrench , WS 95	0.60	7.0		5312.005 

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 IND = Layher Individual possible – see page 7


Modular Stairtower

Layher has now further optimized the use of the Allround system as a scaffolding stairtower – 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 (see page 12).



Further information about the Allround Modular Stairtower can be found in the product video: qrmten.layher.com



ADDITIONAL EQUIPMENT FOR END MODULE (O-VERSION)

Description	PU [pcs.]	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 1.90 m with wedge-head and U-fork	2	2638.401
O-steel deck T9 2.57 x 0.32 m	2	3862.257

* only for alternating assembly

STAIRWAY MODULE, UNIDIRECTIONAL (O-VERSION)

Description	PU [pcs.]	Ref. No.
O-comfort stairway 2.57 x 0.65 m	1	2635.257
Stairwell guardrail	1	1752.004
Internal stairway guardrail	1	1752.007
Initial standard 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 1.40 x 2.00 m	2	2620.140
Diagonal brace 2.57 x 2.00 m	2	2620.257
O-steel deck T9 2.57 x 0.32 m	2	3862.257

Compact stairtower

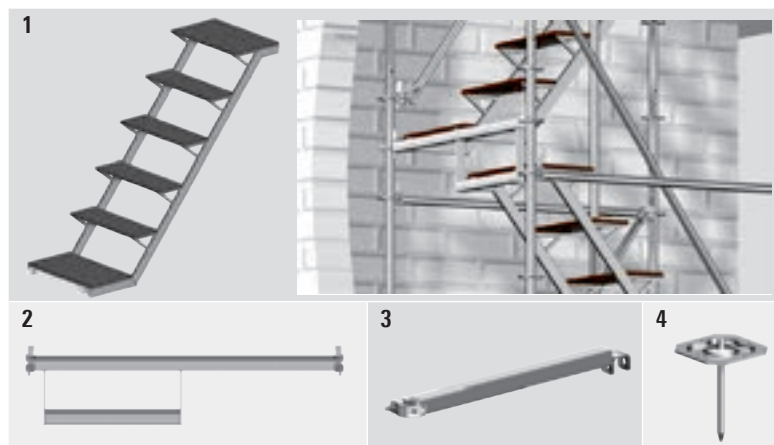
In its standard version, the compact stairtower conforms to German regulations on "stairways for building work" and fits into many stairway recesses in buildings to house one or more families.

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 or 2.75 or 3.00 m possible.

Permissible load capacity: 2.0 kN/m²

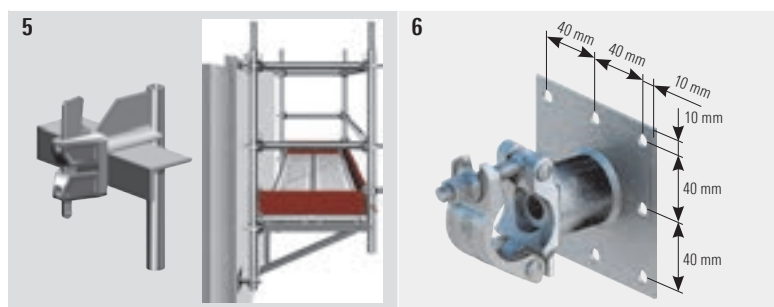
Compact stairtower



Hollow wall bracket

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

Hollow wall bracket



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STAIRWAY MODULE, ALTERNATING (O-VERSION)

Description	PU [pcs.]	Ref. No.
O-comfort stairway 2.57 x 0.64 m	1	2635.257
Internal stairway guardrail 19 WS	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 1.40 x 2.00 m	2	2620.140
Diagonal brace 2.57 x 2.00 m	2	2620.257

BASE

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

ALTERNATING VERSION

End module

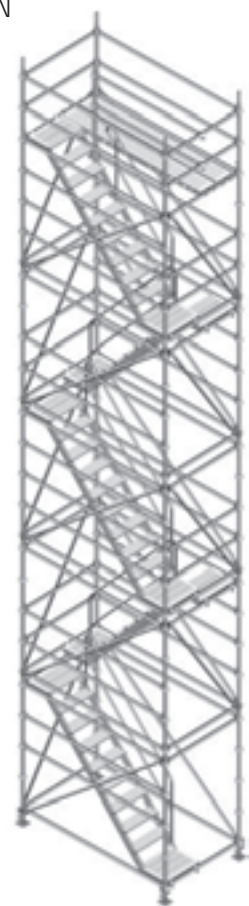
Stairway module

Stairway module

Stairway module

Stairway module
with less side
protection

Base module



Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	U-stair , 1.25 x 0.60 m, steel for 1.57 m bay, step height 0.25 m	1.25 x 0.6	32.5	8	2636.125
2	U-ledger with bearer , 1.40 m for compensating 25 cm, see detailed sketch on left	1.40	9.0	50	2618.141
3	Gap cover , 0.79 m	0.79	3.4	50	2636.078
4	Adaptor plate , steel When placing the compact stair tower onto this adaptor plate, it is easily possible to lay the screed	0.15 x 0.15 x 0.20	1.3	20	2636.124

Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
5	Hollow wall bracket adaptor steel, hot-dip galvanized		2.3		2602.400
6	Half-coupler with plate for supporting the scaffolding structure against the wall	19 WS 0.12 x 0.12	1.5	250	4705.019

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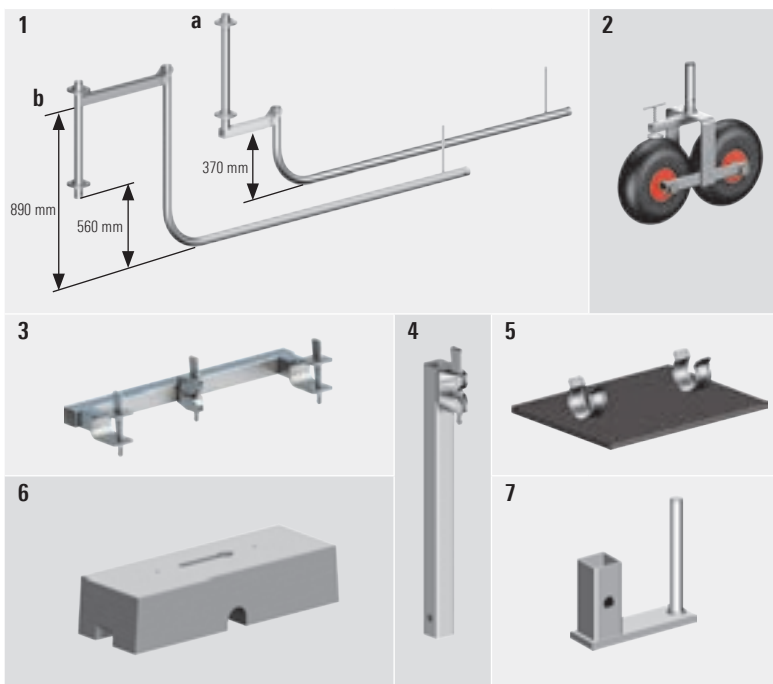
= Layher Individual possible – see page 7

Flat roof side protection

According to German regulations DGUV 38 relating to construction work, a fall protection system must be provided for work areas and walkways on roofs 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 4**, **Flat roof guardrail stiffener 3**, **Flat roof ballast 19 kg 6**, **Support for flat roof guardrail 5**, **Wheel set and Toe board support 2**) 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 side protection



Always comply with instructions for assembly and use.

Fall protection

Preventing falls during assembly, modification or dismantling of the scaffolding

In line with local regulations or as the result of a risk analysis performed by the scaffolding erector, personal protection equipment (PPE), an advance guardrail or a combination of the two may be necessary for assembly, modification or dismantling of the scaffolding.

The Layher advance guardrail system (AGS) consists of two basic components – advance guardrail post and advance telescopic guardrail. The advance guardrail post must be used depending on local regulations.

The **advance guardrail post 8/9**, the **advance telescopic guardrail 1.57/2.07 m**, the **advance telescopic guardrail 2.57/3.07 m 10**, and the **End-AGS 11** are used for temporary protection against falls during assembly of scaffolding parts on the uppermost, unsecured scaffolding level.

Fall protection






10

Extension lengths






Article	L min.	L max.
Advance guardrail 1.57/2.07 m	1.57 m	2.90 m
Advance guardrail 2.57/3.07 m	2.20 m	3.70 m

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Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1a	Flat roof guardrail post steel, for low roof edges	2.40	13.7	20	2666.010 
1b	Flat roof guardrail post, offset steel, for high roof edges	2.70	15.8	20	2666.011 
2	Flat roof wheel set	0.60 x 0.50	6.4	200	2666.015 
3	Flat roof guardrail stiffener steel	0.60	4.1	60	2666.030
4	Flat roof shift preventer steel	0.50	1.9	60	2666.020
5	Support for flat roof guardrail	0.30 x 0.23	0.6		2666.050
6	Flat roof ballast 19 kg	0.69 x 0.25 x 0.16	21.2	50	2666.060
7	Flat roof toe board support	0.04 x 0.13 x 0.13	0.7		2666.070



Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
8	Advance guardrail post , aluminium for advance guardrail (1.00 m height); fast guardrail assembly with a tilting pin		4.2	50	4031.001 
9	Advance guardrail post , aluminium for two advance guardrails (0.50 m and 1.00 m height); fast guardrail assembly with a tilting pin		4.3	50	4031.002 
10	Advance guardrail , 1.57 / 2.07 m, aluminium Advance guardrail , 2.57 / 3.07 m, aluminium	1.70	3.2	50	4031.207 
		2.30	4.0	50	4031.307 
11	Advance guardrail system (AGS) for scaffolding end Aluminium, single-part	2.20 x 0.70	9.8	6	4031.000 



The advance guardrail system (AGS) can 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.

Detail of assembly of the AGS in the access bay



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

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 = Layher Individual possible – see page 7

Safety gear

According to German DGUV 38 regulations, equipment to prevent falls by personnel must be provided for work areas and walkways where the height of the fall is more than 2.00 m.

The **PSA safety harness AX 60 C** 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.

Safety gear

1



3



2



Railing clamp

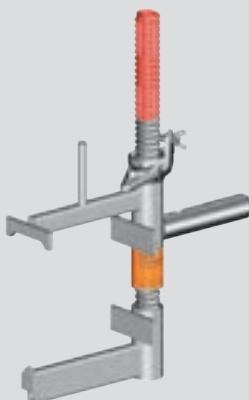
Railing clamp

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 where the height of the fall is more than 2.00 m. The Layher railing clamp meets these requirements for securing of concrete floors and fascias of 16 – 33 cm height and of flat roofs.

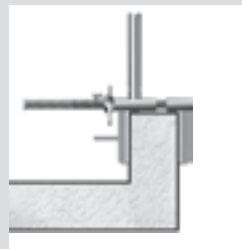
The back guard must be made in accordance with applicable regulations from tube/coupler, modular or frame scaffolding. The bay widths can be freely selected, max. 3.07 m long.

Railing clamp

4



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.

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Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	PSA safety harness AX 60 C with extension 0.50 m conforms to EN 361		1.8		5969.160 🕒
2	PSA-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 m	1.1		5969.501 📦
3	PSA Scaffolding construction set Pos. 1 and 3 Safety harness, safety rope 2.00 m, backpack (use exclusively for scaffolding construction)		3.5		5969.170 📦

Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
4	Railing clamp	0.58	7.0	50	4015.100 📦

Example for use of the railing clamp on fascia:



Example for use of the railing clamp on floor slab:



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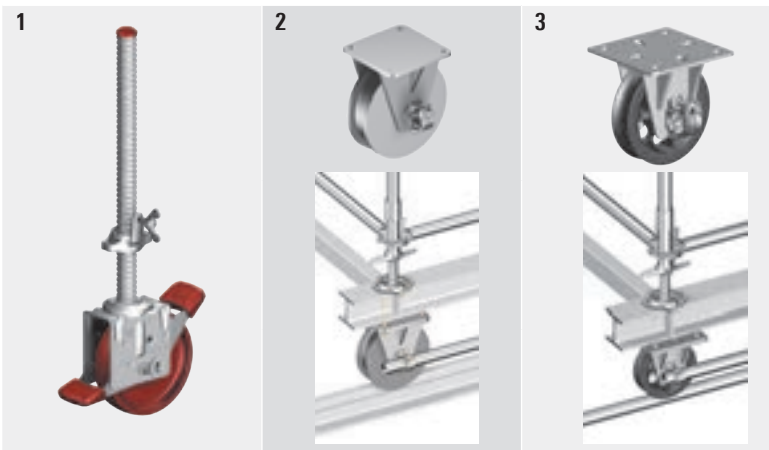
Parts for mobile scaffolds

Castors

The mobile solution for birdcage, bridge or suspended scaffolding is often the best alternative in terms of technical suitability, scheduling and price. In this field too, the choice, the delivery capability and not least the experience of the manufacturer point to Layher. If scaffolding is made mobile using castors, DIN 4420-3 applies. For these rolling towers, verification of structural strength is required.

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

Parts for mobile scaffolds



Scaffolding pallets

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.

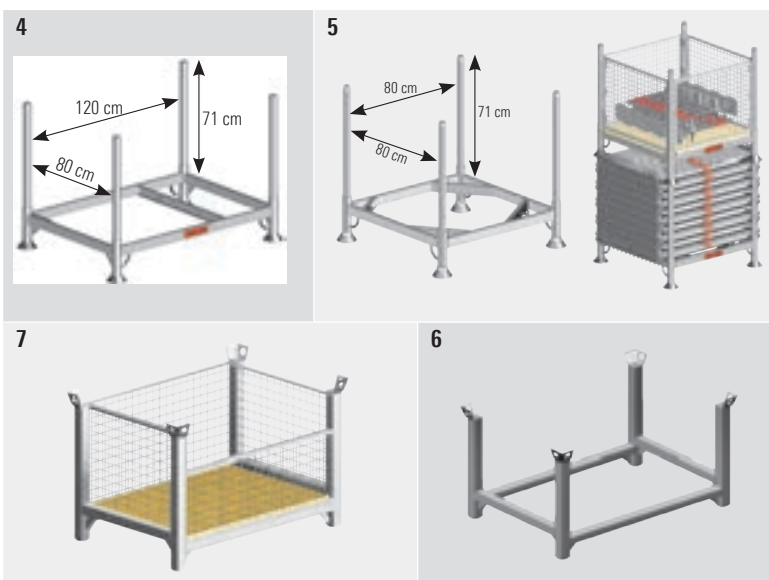
Tube pallet 125 **4**

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.

Modular pallet and skeleton box **6/7**

The palette or the skeleton box 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.

Scaffolding pallets



Tools

Identification and prohibition signs for work scaffolding as per DIN EN 12811-1. Suitable **see-through pocket 13** made of transparent plastic for weather protection.

The three-piece **scaffolding identification pad 10** 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.



Tools









Layher 

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also see
download.layher.com

Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	Castor 1000 Plastic wheel, dia. 200 mm. With base plate, adjustment range 0.30 – 0.60 m, spindle nut with lock, with twin brake lever and load centering when braked. Wheel and slewing ring can be locked. Permissible load 10 kN (braked and unbraked)	dia. 0.20	6.3	70	5219.201
2	Double flange castor , 75 mm Secured by top plate, hole pattern 170 x 170 mm, dia. 18 mm, external dia. 285 mm, internal dia. 242 mm, without brake. Permissible load 20 kN	dia. 0.285	28.0	40	5216.075 
3	Flange castor for 48.30 mm tube Secured by top plate, outer hole pattern 170 x 170 mm, dia. 18 mm, inner hole pattern 126 x 126 x 13 mm (slot hole 13 x 28 mm) without brake. Permissible load 31 kN	dia. 0.23	16.8	40	5221.048 

Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
4	Tube pallet 125 Steel, hot-dip galvanized, length of pallet posts: 0.86 m, load 1.500 kg	1.37 x 0.97	32.0	10	5105.125
5	Tube pallet 85 Steel, hot-dip galvanized, length of pallet posts: 0.86 m, load 1.500 kg	0.97 x 0.97	30.8	10	5105.085
	Mesh box insert Steel, hot-dip galvanized, length of pallet posts: 0.86 m, load 1.500 kg		22.0	10	5104.086 
6	Modular pallet Steel, hot-dip galvanized, fill height 0.74 m, load 2.000 kg, external dimensions 1.26 x 0.86 m	1.26 x 0.86	45.0	5	5101.061 
7	Modular skeleton box Steel, hot-dip galvanized, fill height at front 0.53 m, fill height at rear 0.74 m, load 2.000 kg, external dimensions 1.26 x 0.86 m consisting of 5113.000 modular skeleton box and 6494.514 timber base plate	1.26 x 0.86	85.8		5113.002

Pos.	Description	Dimensions L/H x W [m]	Weight approx. [kg]	PU [pcs.]	Ref. No.
8	Ratchet spanner with reinforced head	19 WS	0.32	0.7	4740.019
		22 WS	0.32	0.7	4740.022
9	Magnetic spirit level		0.4		4006.666
10	Scaffolding identification pad Pad with 50 + 50 pieces (Original + Carbon) with centre perforation and foldover as carbon-block	DIN A4	0.5		6344.500 
11	Scabbling pick, 600 g , with steel tube handle and rubber safety grip	0.32	0.9		4421.050 
12	Prohibition sign	0.18 x 0.14	0.2	20 	6344.201
13	See-through pocket for Ref. No. 6344.200/400 and 500	0.24 x 0.16	0.1	10 	6344.001

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 = Layher Individual possible – see page 7

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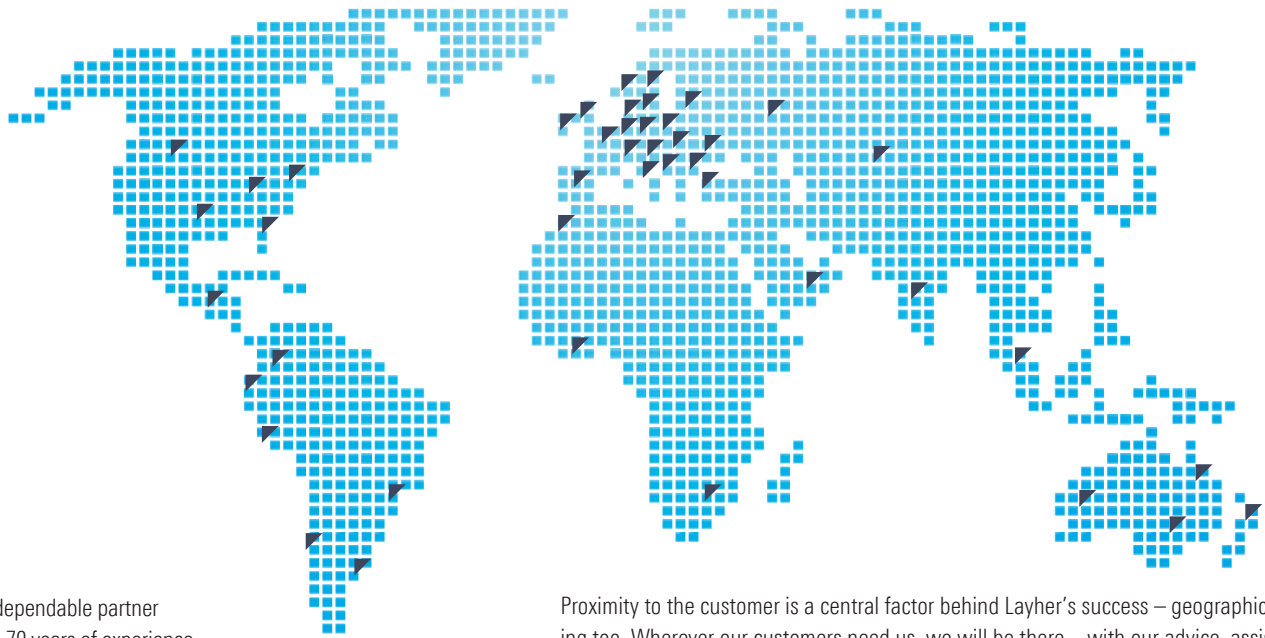
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