

Quality management
certified according to
DIN EN ISO 9001

Energy management
certified according to
DIN EN ISO 50001

Environmental management
certified according to
DIN EN ISO 14001

Catalogue
2025/2026



LAYHER PROTECTIVE SYSTEMS

TABLE OF CONTENTS

01 Company	4
02 Software for scaffolding construction	6
03 Keder Roof XL	8
• System Components	10
• Roof Tarpaulins	14
• Example structures	16
• Keder halls	18
04 Mobile Roofs	20
• System Components	22
05 Cassette Roof	24
• System Components	26
• Roof cassettes	30
• Logistics	32
• Fall protection	33
• Rope Safety gear	34
06 Allround FW System Roof	36
• System Components	38
07 Protect System	40
• System Components	42
• Access protection with external stairs	44
• Index	46



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

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

Our deliveries shall be made exclusively in accordance with our at the conclusion of contract valid General Terms of Sale. These include the following provisions: The place of performance is Gueglingen-Eibensbach. Title to the delivered goods shall be retained until full payment has been made. The fully GTC you can find here: gtc.layher.com

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

01

THE

COM

PANY

Quality made by Layher comes from Gueglingen-Eibensbach. Our company has set down deep local roots since it was established. Right up until today, development, production and management are all in one place. This proximity creates advantages that benefit our customers all over the world: short distances, short response times, controlled quality and production.

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

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



Headquarters in Eibensbach



Plant 2 in Gueglingen



Plant 3 in Clebronn



Discover the world of
Layher in its company film.

WITH LAYHER, THERE ARE MORE POSSIBILITIES.

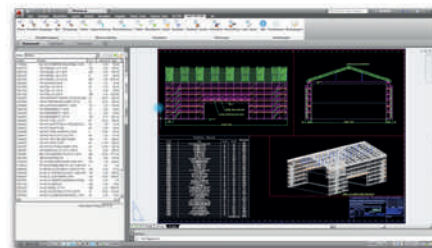
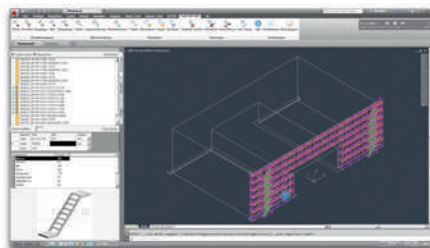
A comprehensive range of innovative products,
application-orientated solutions and comprehensive services
for easy, fast and safe working at height.

02

SOFTWARE



Time and materials are decisive factors in scaffolding construction. To utilise both as efficiently as possible, Layher has the practice-oriented scaffolding planning software LayPLAN in its range. The various LayPLAN CLASSIC and LayPLAN CAD software packages can be used to plan scaffolding constructions ranging from simple, small facade scaffolding to complex industrial scaffolding or even protective roofs and grandstands.



The data is then simply exported to LayPLAN CAD, which offers further options for detailed planning in 3D. A visual collision check is possible using the volume visualisation. Using a convenient search function with preview image, scaffolding planners can not only find an extensive library of Layher individual parts, but also prefabricated assemblies for even faster design. The detailed drawings are then available as a printout. Transfer to visualisation or animation software is also possible without any problems. In this way, projects can not only be planned economically and at the same time adapted precisely to requirements, but also presented professionally to clients.

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



LayPLAN SUITE



LayPLAN CLASSIC



LayPLAN CAD



LayPLAN MATERIALMANAGER



LayPLAN TO RSTAB



Learn more on YouTube
Layher SIM

How can I purchase LayPLAN?

Further information and registration for ordering processes can be conveniently accessed via the Layher website: <http://software.layher.com>

A contact form will provide you with access data to our software portal, where you can download a 30-day trial version and find the order form for the full version.

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

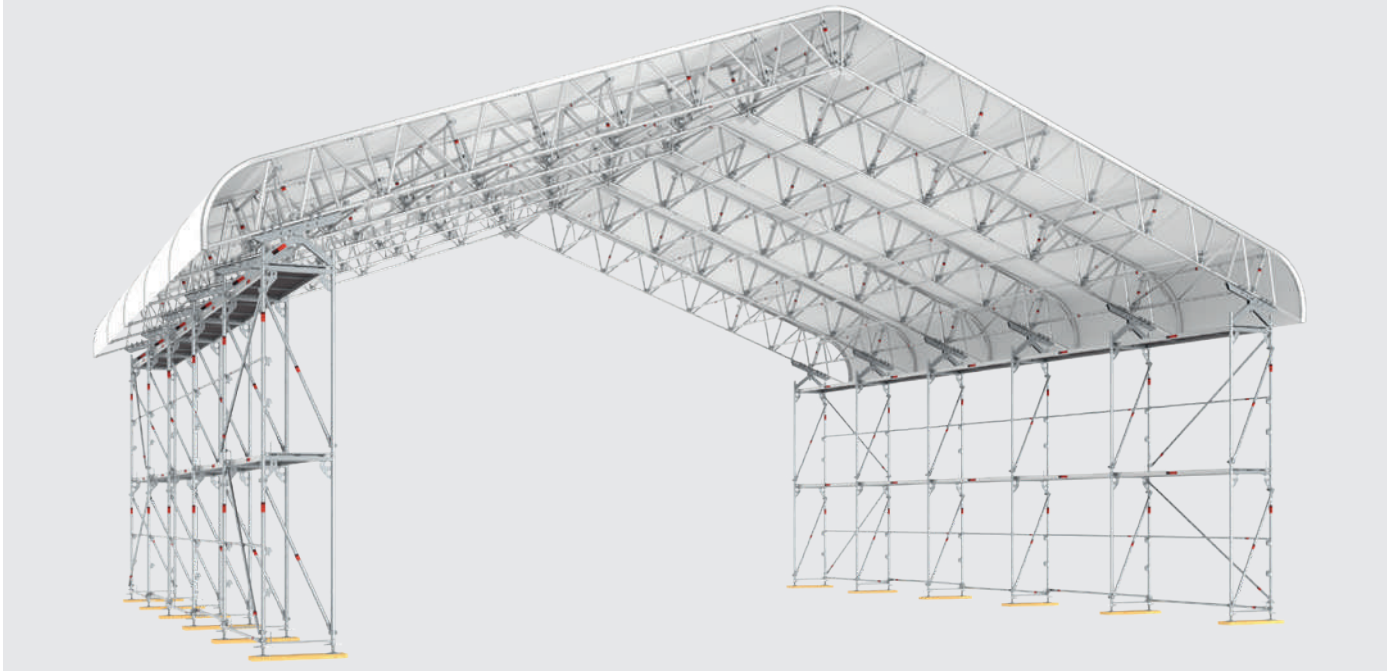
03

KEDER ROOF XL

The Layher Keder Roof XL is a lightweight and sustainable weather protection roof. According to the normal climatic conditions **spans of up to 30 m** are possible. Used in conjunction with Keder rails for wall cladding, it means that the entire construction can be designed to form a lightweight hall. The Layher Keder Roof XL is based on aluminium lattice beams 750 with integrated Keder section in the top chord.

The Layher Keder Roof has many areas of application, ranging from the **roofing during the addition of storeys**, the **repair of timber roofs and coverings**, **weather protection** for new structures, **refurbishment work on motorways and bridges**, and numerous applications for **events and normal work**.

It is a non-insulated cover, rainproof covering under normal conditions, under which condensation may form and drip uncontrolled, depending on the weather.



Notice: Potentially necessary stabilizing measurement are not illustrated.



The benefits for you:

- Span up to 30 m and inclinations of 18° are possible.
- High snow loads (up to 1.0 kN / m²) on intermediate spans.
- Adaptation to all conditions thanks to roof widths and different designs as double-pitch, mono-pitch and polygonal barrel roof.
- Economical use thanks to flexible, well-thought-out and durable components, lightweight aluminium components and time-saving assembly (e.g. faster and easier fitting of Keder tarpaulins).
- Material and load bearing-capacity tables are available to ease the planning.
- No interruption of working due to weather influence.
- Fully combinable to Layher Allround Scaffolding and Layher SpeedyScaf.

System Components

The Keder Roof XL is a lightweight, but very sturdy weather protection roof for great spans up to 30 m.

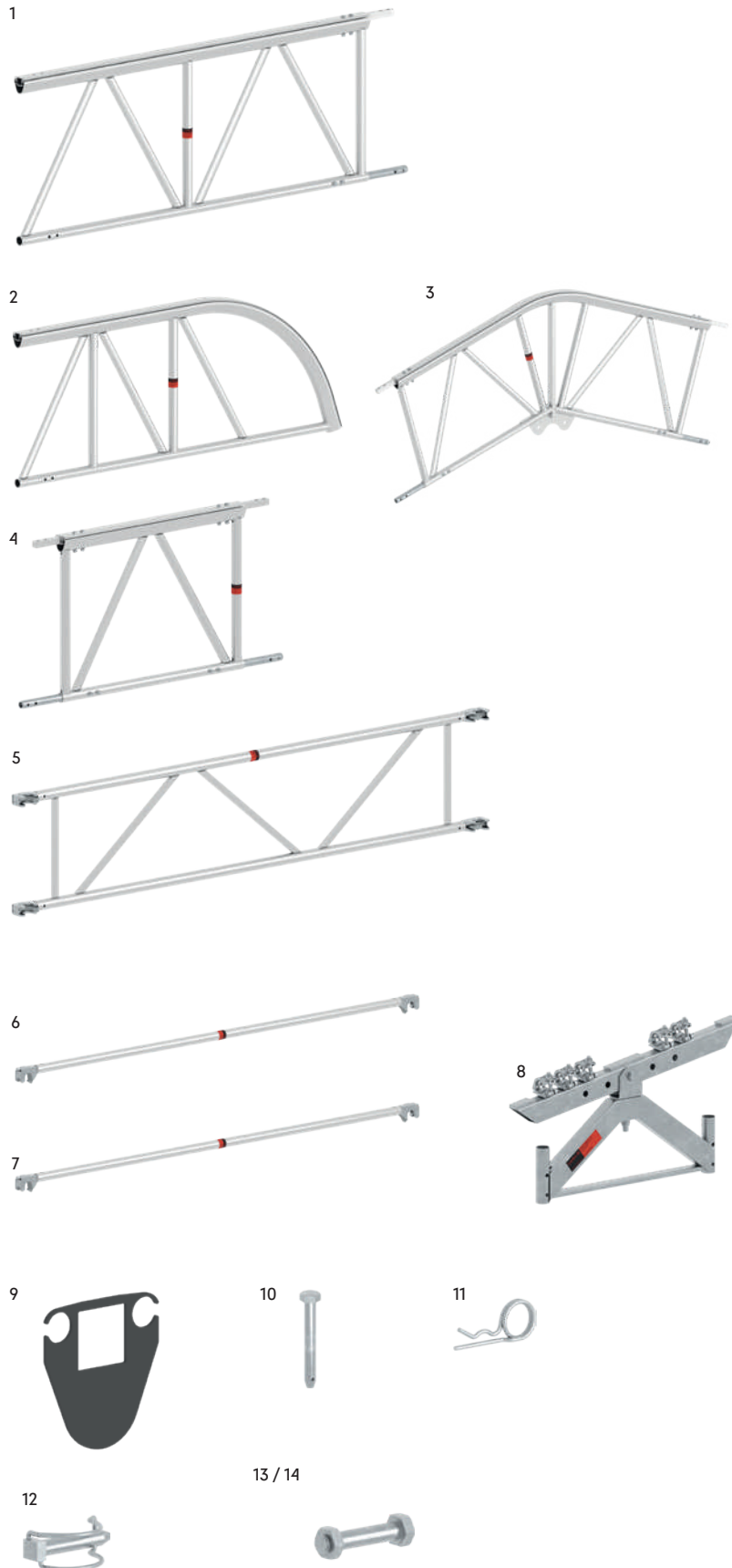
It has a standard roof angle of 18°.

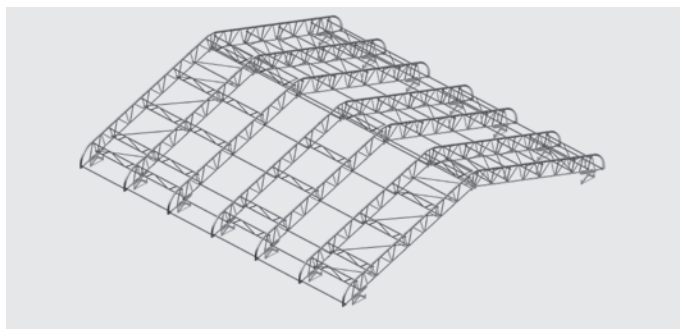


Stiffening variants

The Keder Roof XL permits, thanks to differing configurations of the stiffening components, three different stiffening variants for use depending on the span, snow load or wind load requirements.

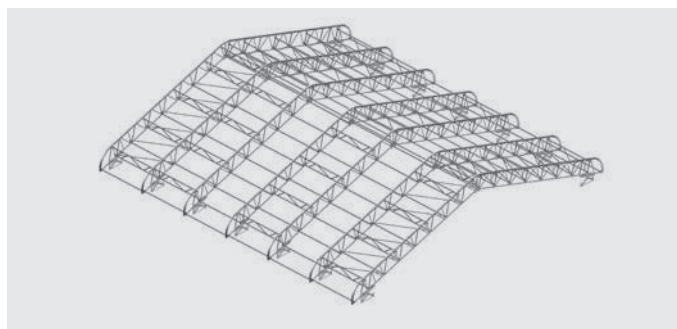
The Keder Roof XL can be planned by using LayPLAN software. Material lists and load bearing capacity lists are available. That saves you real money when planning temporary weather protection roofs.





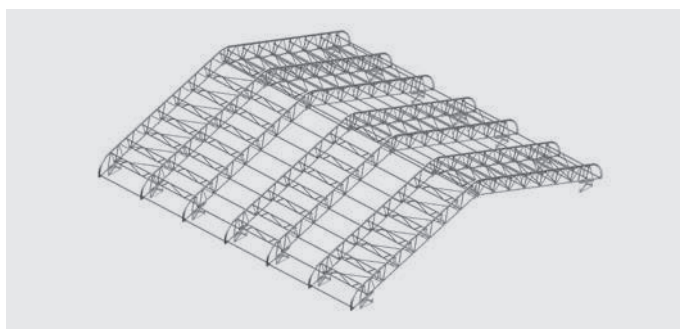
Type "Light"

Vertical stiffener: 2.00 m
Bottom chord stiffener: 2.00 m



Type "Standard"

Vertical stiffener: 2.00 m
Bottom chord stiffener: 1.00 m



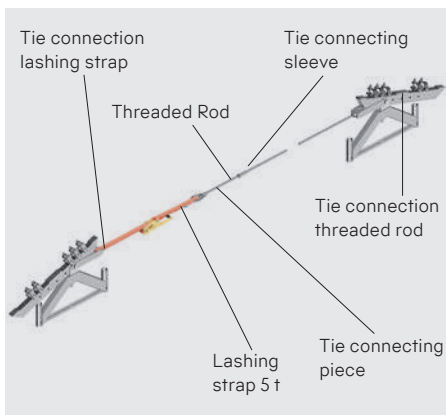
Type "Heavy"

Vertical stiffener: 1.00 m
Bottom chord stiffener: 1.00 m

Pos.	Description	WS [mm]	Dimensions L / H x W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	Keder Roof XL lattice beam aluminium		2.00 x 0.78	17.3	25	5975.200
			3.00 x 0.78	24.4	25	5975.300
2	Keder Roof XL eaves section aluminium		2.00 x 0.78	14.3	25	5975.100
3	Keder Roof XL ridge section					
	18°-Version		2.54 x 0.78	24.5	20	5975.110
	20°-Version		2.57 x 0.78	24.5	20	5975.120
4	Keder Roof XL mono-pitch lattice beam aluminium		1.06 x 0.78	14.5	25	5975.106
5	Keder Roof XL stiffener aluminium		2.57 x 0.55	10.0	50	5940.257
6	Keder Roof XL ledger aluminium		2.57	4.2	50	5972.257
7	Keder Roof XL horizontal diagonal brace aluminium		2.57 x 1.00	4.2	50	5939.100
			2.57 x 2.00	5.0	50	5939.200
8	Swivelling roof support		0.73	19.1	20	5975.073
			1.09	22.4	20	5975.109
9	Keder rail seal			0.5	50	5971.005
10	Bolt 12 x 95 mm	19		2.5	25	5976.092
11	Securing pin d=2.8 mm			0.5	50	4905.002
12	Hinged pin d=12 mm, with pan head			1.6	20	4905.668
13	Special bolt M12 x 60 mm with nut	19		4.0	50	4905.062
14	Special bolt M12 x 90 with nut	19		2.8	25	5975.092

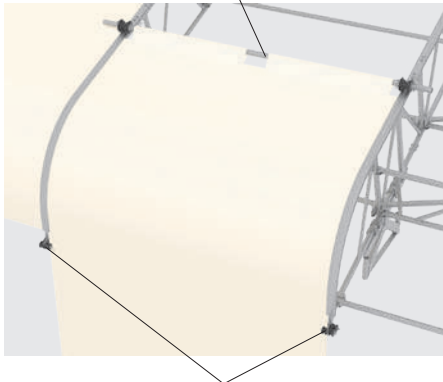
03 Keder Roof XL

Tie fastening to roof support*:

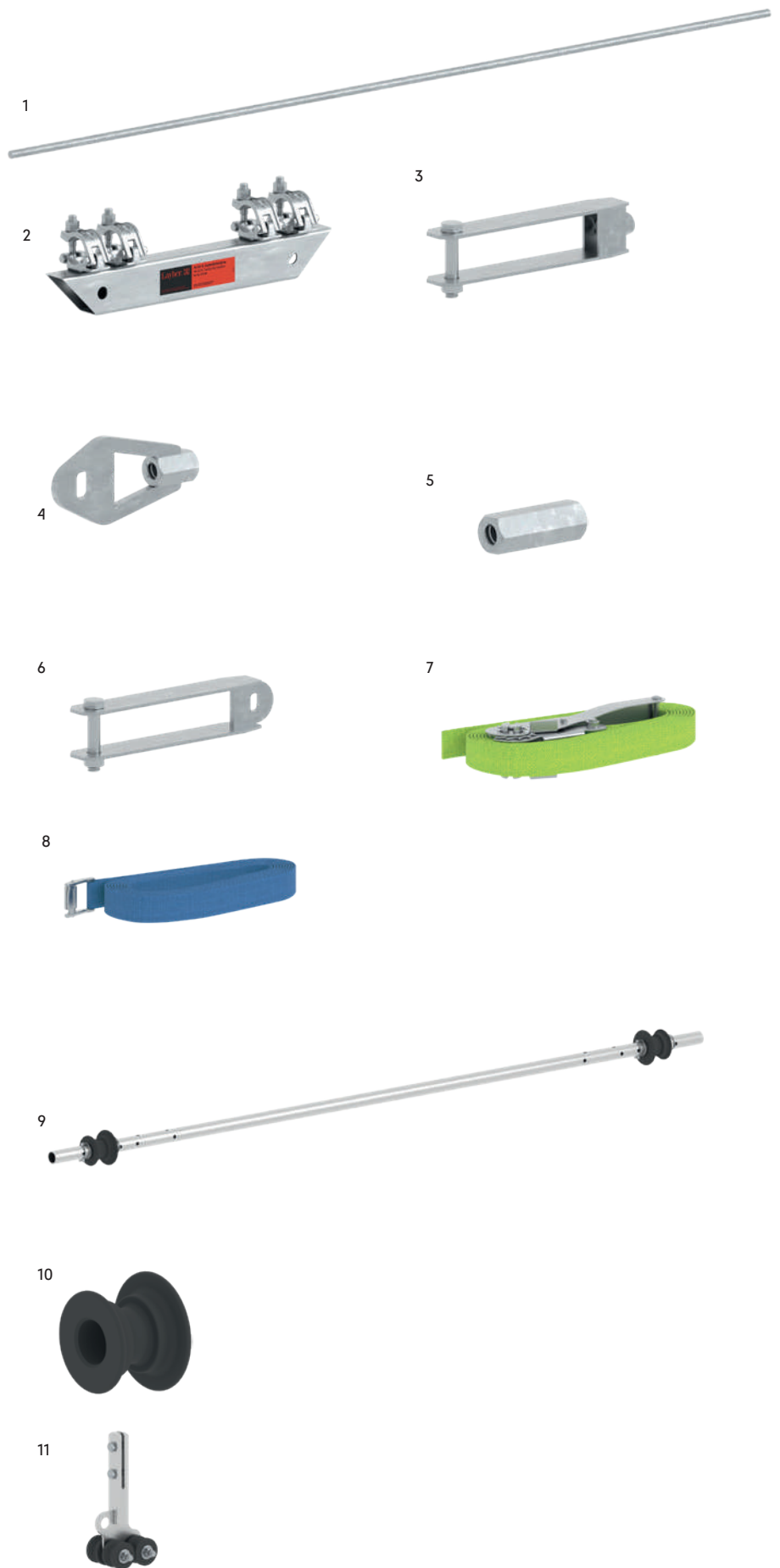
















* statically recommended

Set for tarpaulin pulling 9



Keder tarpaulin feeder 11



Pos.	Description	WS [mm]	Dimensions L / H x W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	Tie thread rod		2.00	2.9	100	5976.200 
			3.00	4.4	100	5976.300 
			4.00	5.8	100	5976.400 
			5.00	7.3	100	5976.500 
2	Keder Roof XL tie attachment	19		6.1	50	5975.000 
3	Keder Roof XL tie connection threaded rod	30		2.2	100	5975.020 
4	Keder Roof XL tie connecting piece	30		0.8	250	5975.030 
5	Keder Roof XL tie connecting sleeve	30		0.4	100	5976.000 
6	Keder Roof XL tie connection lashing strap	30		2.0	100	5975.010 
7	Keder Roof XL lashing strap 5 t 5.00 m with ratchet and ABS function for stepwise release		5.00	2.8	1	5976.600 
8	Keder Roof XL polyester lashing strap 6.00 m with clamp lock for setting the tie		6.00	0.2	1	5976.610 
9	Set for tarpaulin pulling consisting of 2 castors, 1 aluminium tube 3.00 m and 4 securing pins		3.00	5.8	1	5971.400 
10	Castor for tarpaulin pulling for 48.3 mm tube			0.4	2	5971.401 
11	Keder tarpaulin feeder			1.5	1	5971.410 

Roof Tarpaulins

Tarpaulins

Flammability acc. to DIN 4102

< 100 mm/min.

Cream-coloured PVC tarpaulins with a weight of 630 g/m².

Material:

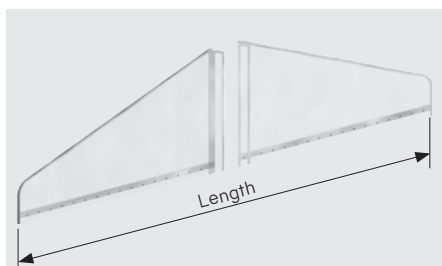
PVC-coated polyester fabric, heat and UV-resistant.

Flammability acc. to DIN 4102 B1,

low-inflammability.































































PVC tarpaulins with a weight of 650 g/m².

In the case of public events, the building inspection authorities usually demand low-inflammability tarpaulins.

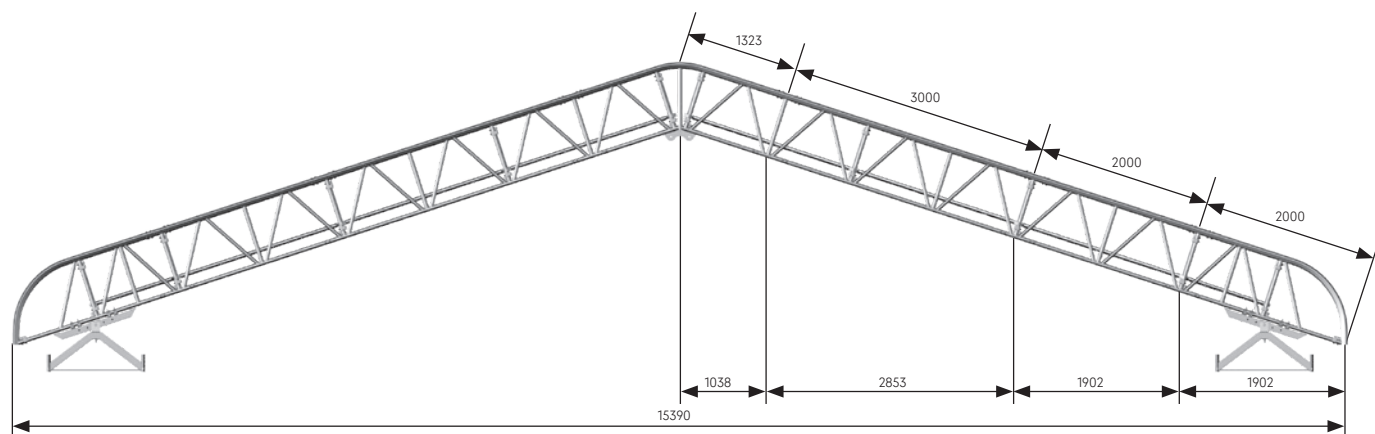


Other tarpaulins on request.



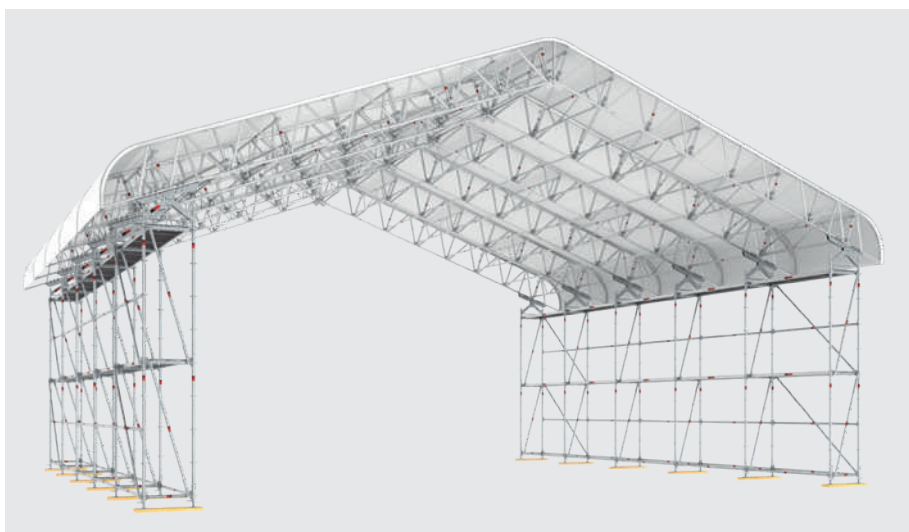
Pos.	Description	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	Keder Roof XL gable tarpaulin				
	flame-retarding, 2-part	9.6	13.8	1	5972.381 
		11.5	17.9	1	5972.382 
		13.4	22.1	1	5972.383 
		15.3	27.4	1	5972.384 
		17.2	33.1	1	5972.385 
		19.1	39.4	1	5972.386 
		21.0	44.7	1	5972.387 
		22.9	51.7	1	5972.388 
		24.8	59.5	1	5972.389 
		26.8	68.2	1	5972.390 
	flame-retarding, 4-part	28.7	76.7	1	5972.391 
		30.6	85.8	1	5972.392 
		32.5	95.5	1	5972.393 
	low-inflammability, flammability acc. to DIN 4102 B1, 2-part	9.6	13.8	1	5973.381 
		11.5	17.9	1	5973.382 
		13.4	22.1	1	5973.383 
		15.3	27.4	1	5973.384 
		17.2	33.1	1	5973.385 
		19.1	39.4	1	5973.386 
		21.0	44.7	1	5973.387 
		22.9	51.7	1	5973.388 
		24.8	59.5	1	5973.389 
		26.8	68.2	1	5973.390 
	low-inflammability, flammability acc. to DIN 4102 B1, 4-part	28.7	76.7	1	5973.391 
		30.6	85.7	1	5973.392 
		32.5	95.5	1	5973.393 
2	Keder Roof, roof tarpaulin				
	flame-retarding, design width 2.57 m	11.00 × 2.57	23.5	1	5972.306 
		14.00 × 2.57	28.2	1	5972.307 
		17.00 × 2.57	35.5	1	5972.308 
		20.00 × 2.57	40.7	1	5972.309 
		22.50 × 2.57	46.3	1	5972.370 
		24.50 × 2.57	50.4	1	5972.371 
		26.50 × 2.57	54.5	1	5972.372 
		28.50 × 2.57	58.5	1	5972.373 
		30.50 × 2.57	62.7	1	5972.374 
		32.50 × 2.57	66.8	1	5972.375 
		34.50 × 2.57	70.9	1	5972.376 
		36.50 × 2.57	75.0	1	5972.377 
		38.50 × 2.57	79.2	1	5972.378 
	flame-retarding, design width 2.07 m	11.00 × 2.07	18.4	1	5972.360 
		14.00 × 2.07	23.5	1	5972.361 
		17.00 × 2.07	28.5	1	5972.362 
		20.00 × 2.07	33.5	1	5972.363 
	low-inflammability, flammability acc. to DIN 4102 B1, design width 2.57 m	11.00 × 2.57	24.0	1	5973.306 
		14.00 × 2.57	28.8	1	5973.307 
		17.00 × 2.57	36.3	1	5973.308 
		20.00 × 2.57	41.6	1	5973.309 
		22.50 × 2.57	46.8	1	5973.370 
		24.50 × 2.57	51.0	1	5973.371 
		26.50 × 2.57	55.2	1	5973.372 
		28.50 × 2.57	59.3	1	5973.373 
		30.50 × 2.57	63.5	1	5973.374 
		32.50 × 2.57	67.7	1	5973.375 
		34.50 × 2.57	73.9	1	5973.376 
		36.50 × 2.57	76.0	1	5973.377 
		38.50 × 2.57	80.1	1	5973.378 
	low-inflammability, flammability acc. to DIN 4102 B1, design width 2.07 m	11.00 × 2.07	18.8	1	5973.360 
		14.00 × 2.07	24.0	1	5973.361 
		17.00 × 2.07	29.2	1	5973.362 
		20.00 × 2.07	34.4	1	5973.363 
3	Tarpaulin clip		2.0	50 	5971.142 

Example structures

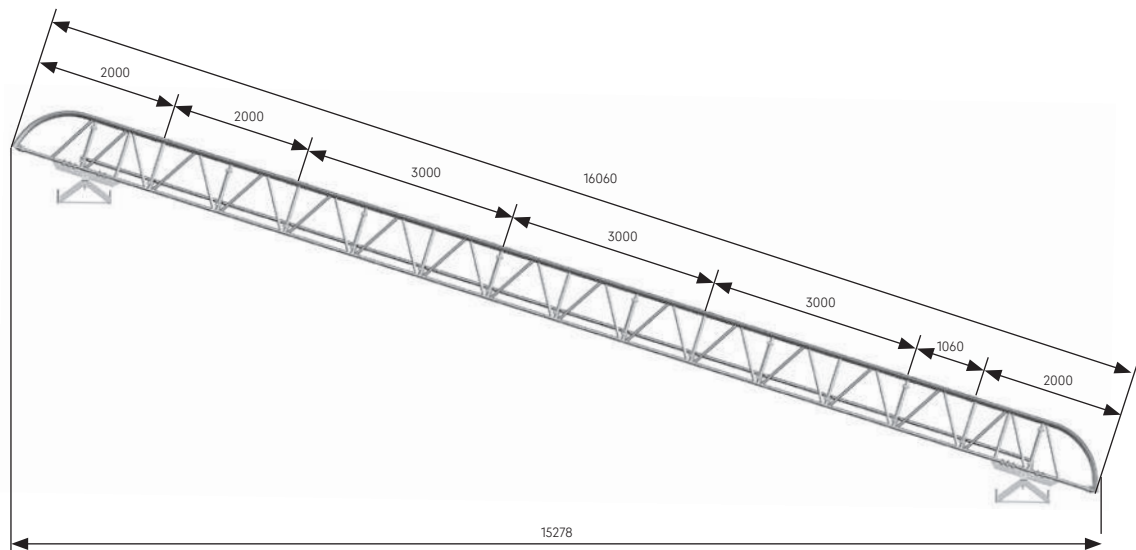


Roofed Base Area: 15.40 m x 12.86 m (5 bays each 2.57 m), without support scaffolding, weight: 1,942.3 kg (9.87 kg/m²)

Following material is needed	Quantity	PU [pcs.]	Ref. No.
Safety clips 2.8 mm (72 pcs. needed)	2	50	4905.002
GI Securing pins (72 pcs. needed)	4	20	4905.668
Horizontal diagonal brace 1.00 m x 2.57 m	28		5939.100
Stiffener 2.57 m	30		5940.257
Keder rail seal (36 pcs. needed)	1	50	5971.005
Tarpaulin clips (100 pcs. needed)	2	50	5971.142
Ledger 2.57 m	60		5972.257
Tarpaulin 2.57 x 20.00 m	5		5972.309
Support 0.73 m	12		5975.073
Eaves section	12		5975.100
Ridge section	6		5975.110
Lattice beam 2.00 m	12		5975.200
Lattice beam 3.00 m	12		5975.300
Bolt d=12 x 95 mm (72 pcs. needed)	3	25	5976.092

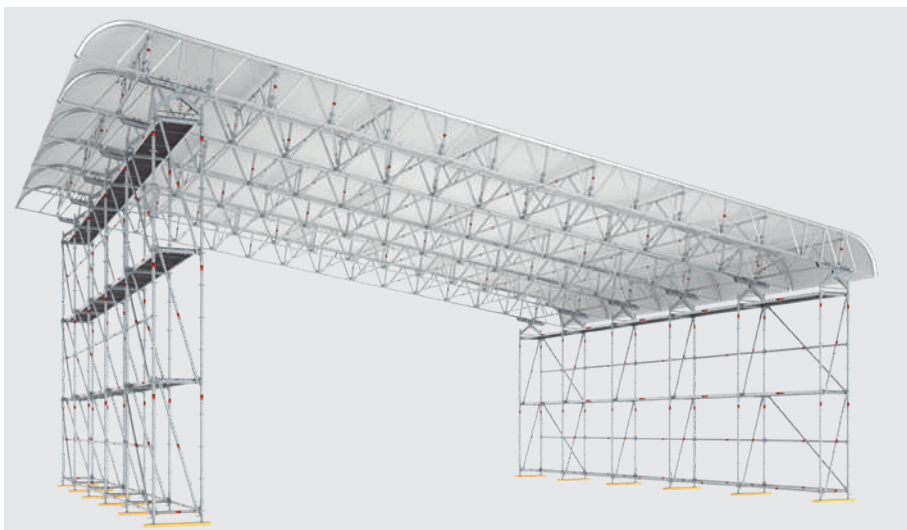


Notice: Potentially necessary stabilizing measurement are not illustrated.








Roofed Base Area: 15.30 m x 12.86 m (5 bays each 2.57 m with a roof angle of 18°), without support scaffolding, weight: 1,869.1 kg (9.50 kg/m²)

Following material is needed	Quantity	PU [pcs.]	Ref. No.
Safety clips 2.8 mm (72 pcs. needed)	2	50	4905.002
GI Securing pins (72 pcs. needed)	4	20	4905.668
Horizontal diagonal brace 1.00 m x 2.57 m	28	—	5939.100
Stiffener 2.57 m	30	—	5940.257
Keder rail seal (36 pcs. needed)	1	50	5971.005
Tarpaulin clips (100 pcs. needed)	2	50	5971.142
Ledger 2.57 m	61	—	5972.257
Tarpaulin 2.57 x 20.00 m	5	—	5972.309
Support 0.73 m	12	—	5975.073
Eaves section	12	—	5975.100
Ridge section	6	—	5975.106
Lattice beam 2.00 m	6	—	5975.200
Lattice beam 3.00 m	18	—	5975.300
Bolt d=12 x 95 mm (72 pcs. needed)	3	25	5976.092



Notice: Potentially necessary stabilizing measurement are not illustrated.

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

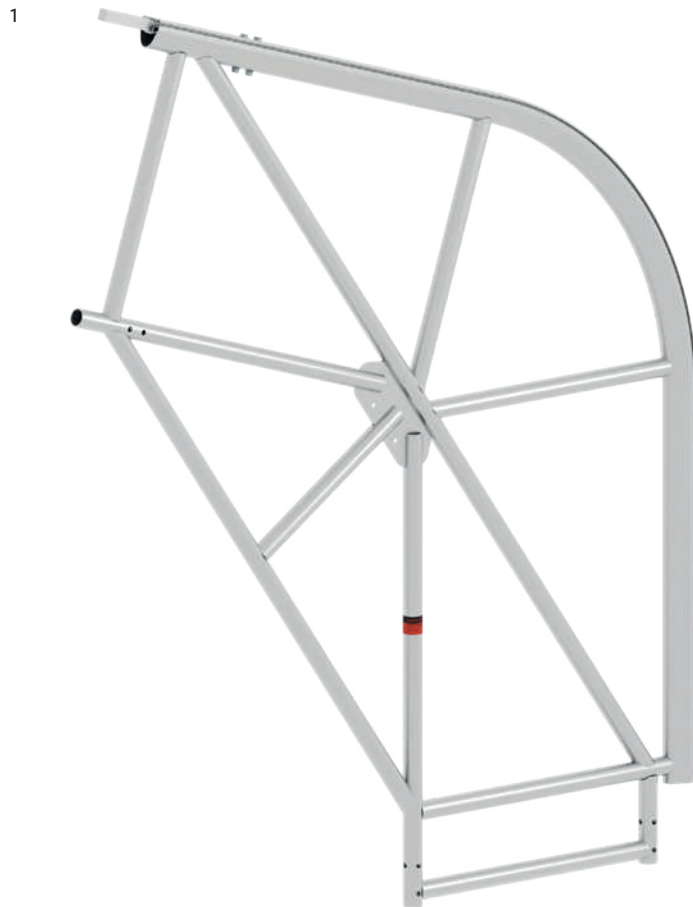
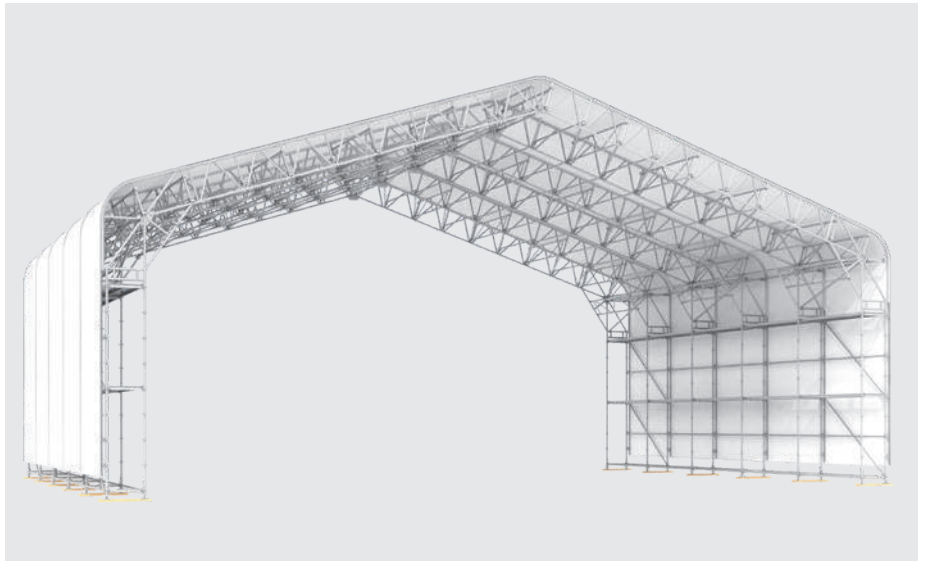
Keder halls

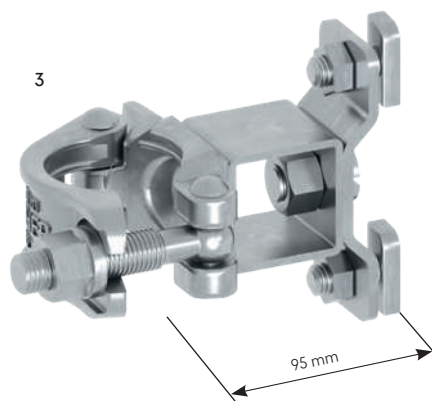
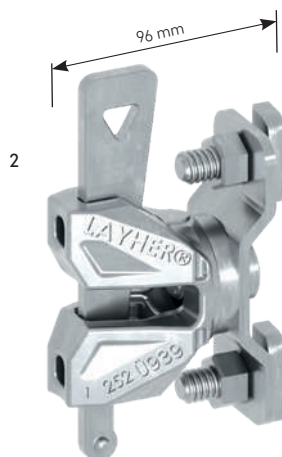
Keder halls

The Bending-Resistant Corner is available as a special roof support, to create visually attractive and closed halls with wide spans using the Keder Roof XL. It can be mounted on support scaffolding made from Allround parts, on Speedy-Scaf and on AGS systems.

This means that only one additional component – the bending-resistant corner – is required to construct closed keder halls. The support scaffolding can be fully utilised as working scaffolding and the attachment of brackets or cantilevers to the inside is easily possible with parts from the Layher construction kit.

The bending-resistant corner XL 1 is quickly connected by simply placing it on the spigots of the support structure.





The roof tarpaulins are joined to the wall covering using rotatable **keder rail holders 2/3** and **keder rails 2000 4** from the Layher accessories range.

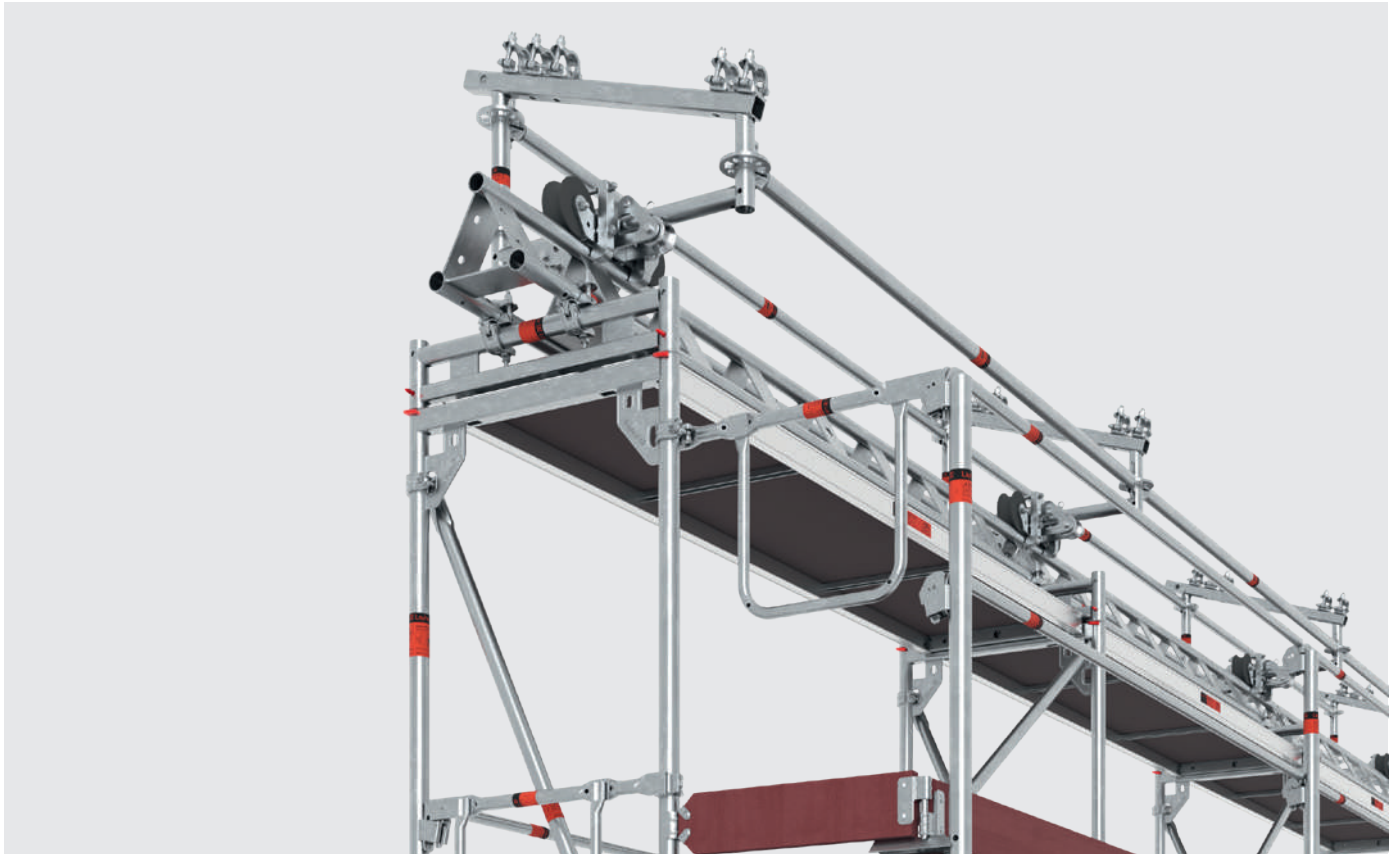
Pos.	Description	WS [mm]	Dimensions L / H x W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	Bending-resistant corner XL aluminium			34.7	10	5975.160
2	Keder rail holder with wedge head rotatable, incl. 2 groove bolts		0.10	0.9	25	5573.000
3	Keder rail holder with half-coupler rotatable, incl. 2 groove bolts	19	0.16	1.0	25	5573.006
4	Aluminium keder rail 2000		1.30	1.9	50	4201.130
			2.00	3.0	50	4201.200
			2.25	3.3	50	4201.220
			2.50	3.8	50	4201.250
			3.00	4.5	50	4201.300
			4.00	6.0	50	4201.400

04

MOBILE ROOFS

Whether on a rapidly advancing construction site or under cramped conditions, you can get Layher's protective roofs rolling to where the action is with only a few extra components.

Flexibility and economy to the highest degree with mobile roofs from Layher.



The benefits for you:

- Extension for the Layher weather roofs.
- Flexibility is guaranteed thanks to possible openings to slide the roof apart. Also overlapping roofs are possible.
- Flexible and economic solution by moving the roof if the complete site is not needed to be covered.
- Slight variations in the alignment of the rails can be compensated with a transverse adjustment on the trolley.
- Fully combinable with Layher SpeedyScaf and Layher Allround Scaffolding.



System Components

Mobile Roofs

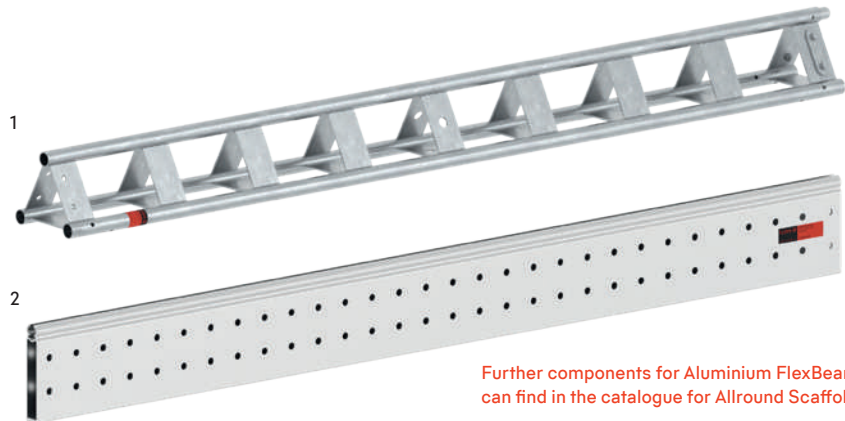
Layher wheather protection roofs can easily be made mobile with a few additional parts. This can then be moved section by section to keep pace with construction progress, so it's no longer essential to provide a roof over the entire surface, or alternatively to dismantle and rebuild a roof for each stage of building work. The mobile roofs fit onto all scaffolding systems and are also flexible and economical to use. The **rails 1** or **Aluminium O-beam FlexBeam 2** don't need to be laid exactly parallel, since the **trolley 3** permits equalization in the transverse direction.



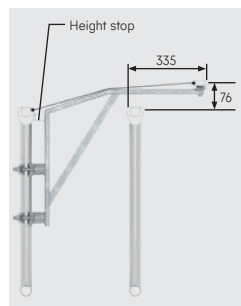
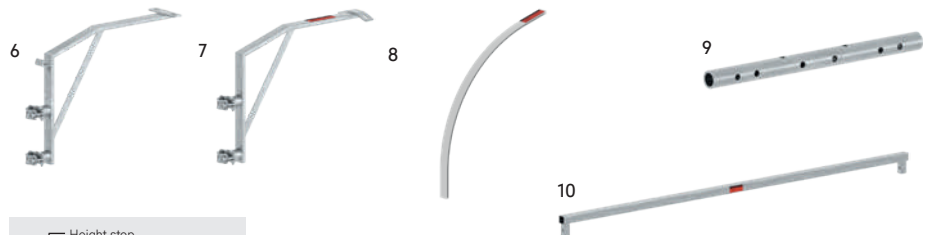
The support scaffolding bay widths are completely independent of the mobile roof, allowing the scaffolding to be built with wider bays. Besides faster assembly, the supporting structure also permits material savings. The assembly of the roofs themselves is also simple and quick: the roof bays can for example be assembled at a readily accessible point at the gable end of the building, from an auxiliary scaffolding or using a crane. One bay at a time is assembled, then moved, and has the next bay attached to it.



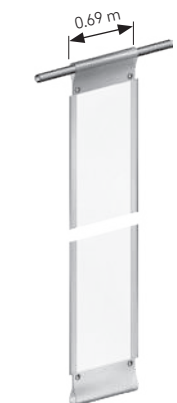
The **overlap bracket T18 6** can be used, when the roof binders are mobile. If separate segments of the roof must be put together, there will be a gap in the roof. By using the **overlap bracket T18 6** combined with aluminium **keder rails 2000 16** and roof tarpaulins 0.69 m wide, these gaps can be closed. For the eaves, the **overlap bracket eaves T18 7** and the **overlap keder bow 2000 8** is used.


































Further components for Aluminium FlexBeam, you can find in the catalogue for Allround Scaffolding.



A height stop replaces tedious measuring during installation and prevents the bracket from twisting sideways. The 30 cm overlap ensures a high level of protection against precipitation.



Keder tarpaulin for overlap bracket on request

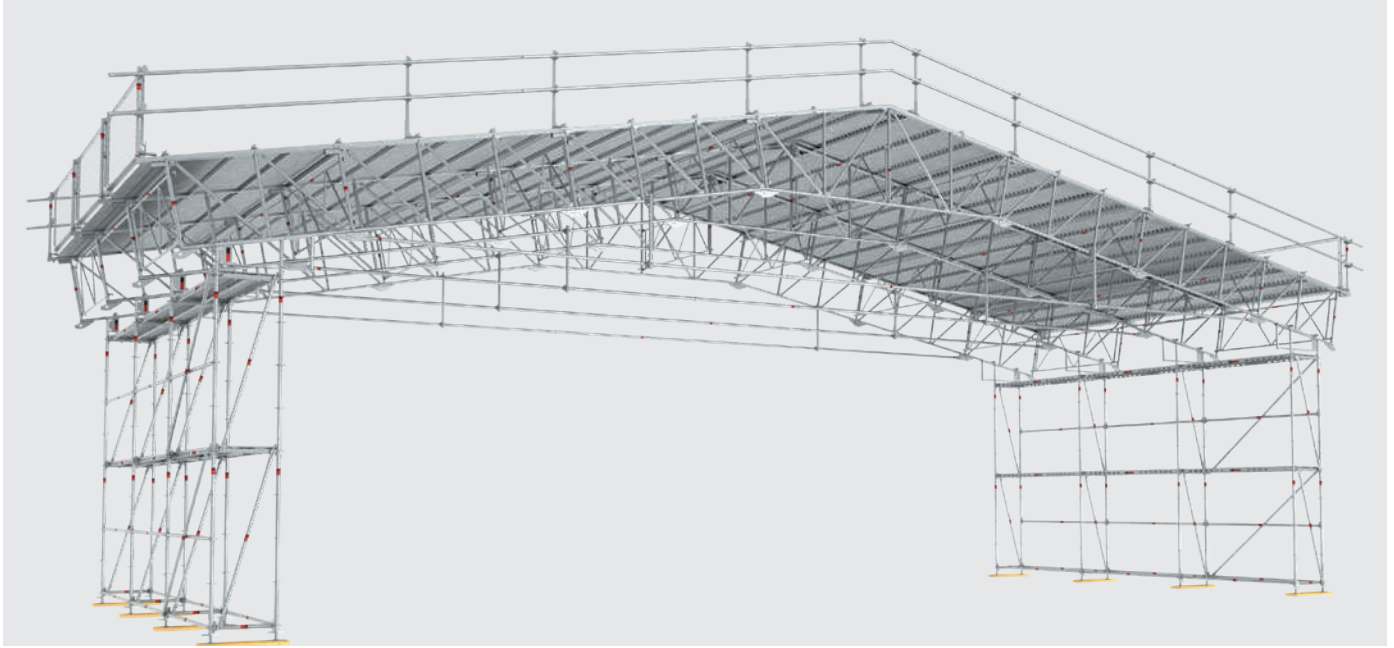
Pos.	Description	WS [mm]	Dimensions L / H x W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	Rail T19 3.00 m	22	3.00 x 0.30	58.8	21	5938.041 
2	Aluminium O-beam FlexBeam		3.00	30.6	12	2657.301 
			4.00	40.8	12	2657.401 
			5.00	51.0	12	2657.501 
			6.00	61.2	12	2657.601 
			7.00	71.4	12	2657.701 
3	Trolley T17 Castors of Polyamide, permanent lift-off preventer	19	0.40 x 0.45	16.2	50	5938.040 
4	Adapter for rail T12		0.73 x 0.17	5.5	100	5938.027 
			1.09 x 0.17	11.5	100	5938.028 
5	Roof support					
a	20° rigid, 0.73 m (for Keder Roof)		0.51 x 0.80	12.4	20	5938.022 
b	18° rigid, 0.73 m (for Keder Roof XL) with Allround rosettes		0.51 x 0.80	15.5	20	5938.073 
6	Overlap bracket T18	19		5.5	25	5938.044 
7	Overlap bracket eaves T18	19		5.4	25	5938.043 
8	Overlap Keder bow 2000			2.3	50	5938.042 
9	Lattice beam connector T16 d=38 mm for straight extension of lattice beam 450 of steel and aluminium, 750 sluminium and rails T19		0.54	2.4	350	4925.000
10	Connector for trolley for roof support 5938.022		2.63 x 0.13	11.1	50	5938.019 
11	Bolt 12 x 65 mm			3.5	50 	4905.067
12	Securing pin d=2.8 mm			0.5	50 	4905.002
13	Hinged pin d=12 mm, with pan head			1.6	20 	4905.668
14	Rapid double coupler Description as 4700.xxx, acc. to approval Z-8.331-947	19		1.3	25	4777.019
		22		1.3	25	4777.022
15	Locking pin red, d=11 mm			0.1	100	4000.001
16	Aluminium keder rail 2000		1.30	1.9	50	4201.130 
			2.00	3.0	50	4201.200 
			2.25	3.3	50	4201.220 
			2.50	3.8	50	4201.250 
			3.00	4.5	50	4201.300 
			4.00	6.0	50	4201.400 
17	Groove bolt for keder rail M12 x 25 mm, with nut			4.3	50 	4206.004 



05

CASS
ETTE
ROOF

Layher cassette roofs have established themselves as a firm favourite at construction sites for conversion, renovation and restoration. The structure itself and all the equipment is protected during the conversion or roof refurbishment and normal business operations can continue under a wheather protection proof roof.



Notice: Potentially necessary stabilizing measurement are not illustrated.

Long, useful service life

The Layher cassette roof is almost indestructible. Its practical design coupled with the chosen materials are key reasons making it an investment that will retain its value over many years. The use of cassette roof girders ensures rapid assembly. The roof trusses are assembled astonishingly quickly at ground level, then mounted on the supporting structure using a crane. The roof cassettes for the intermediate bays are inserted into the channel section and locked in place with clamping plates and wedges. That's all there is to it! No tensioning or tying is required. The cassettes act as bracing elements. Only every second bay is assembled as a so-called truss bay, and there are no doubled roof trusses. This represents an additional saving of material and, consequently, also of money and assembly time.

Economical modular system and vast spans

Variable roof areas are possible thanks to the well-conceived section lengths of the roof trusses chord. Depending on the static system and the climatic conditions, it is possible to create roof structures with spans of more than 45 m.

Easy to open for material supply

To permit material supply to the site, the Layher cassette roof can be opened at any location by simply removing one or more roof cassettes. No crane is needed.

System-independent

The Layher cassette roof does not require any specific substructure. This means that no unwanted additional investments are required. The Layher cassette roof can be mounted easily on almost any scaffolding or other suitable substructure.

Total weatherproofing

Rainwater is excluded effectively thanks to the overlapping, shaped-roof surface elements. This is a basic requirement for any weather-proofing roof.

Notes on construction and use

When assembling and using the roof, it is essential to observe the applicable regulations and the manufacturer's assembly instructions. Personal safety apparatus (PSA) for protection against falls must be used. All data is calculated to the best of Layher's knowledge and

based on relevant technical regulations or is adopted from other regulations. It is necessary to check the stability of the supporting structure (e.g. scaffolding) and the roof structure. The Layher cassette roof is made for high snow loads up to approx. 120 kg/m². This cassette roof is a non-insulated covering under which condensation may form and drip depending on the outside weather. The connections between the cassettes are not sealed and rainwater may penetrate due to unfavourable wind conditions. We cannot therefore accept any liability for damage to the covered structure. However, additional sealing options exist.



The benefits for you:

- Economical thanks to well-thought-out and durable components and time-saving assembly.
- Investment protection thanks to long, useful service life and high-quality components, specially equipped for recurrent, changing assembly and dismantling operations.
- Application as temporary storehouse, the repair of timber roofs and coverings, refurbishment work on motorways or over bridges and applications for events.
- No interruption of working due to weather influence.
- Fully combinable to Layher Allround Scaffolding and Layher SpeedyScaf.

System Components

The system for large spans and rapid assembly for everyday use

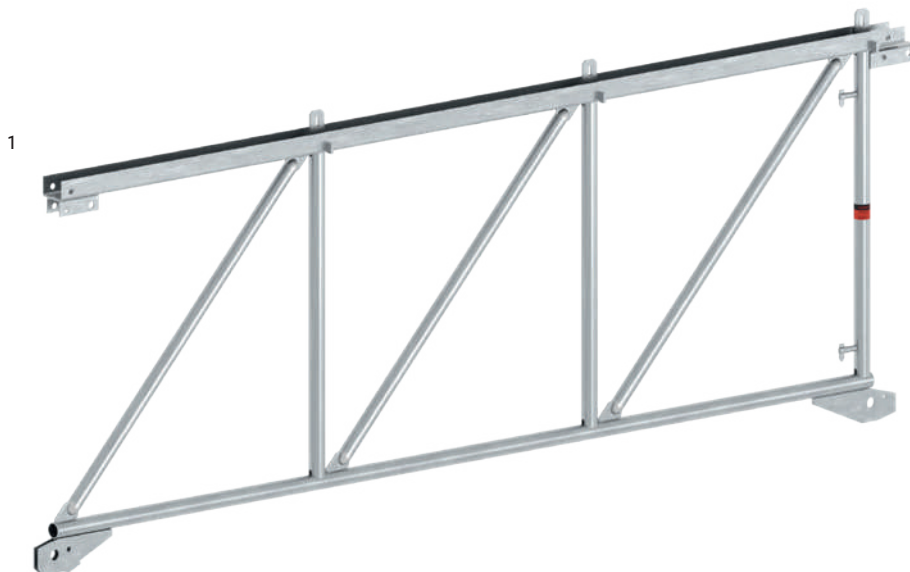
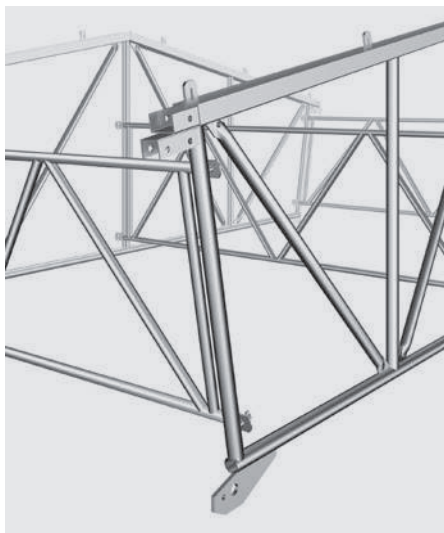
Truss elements

These one metre high **roof beams 1** are the elements that support the cassette roof (U-shaped top chord for the insertion of the roof cassettes, tubular bottom chord and posts of diameter $d=48.3$ mm). The **ridge support 2** is intended for the construction of double-pitch roofs with a roof angle of approximately 11° .

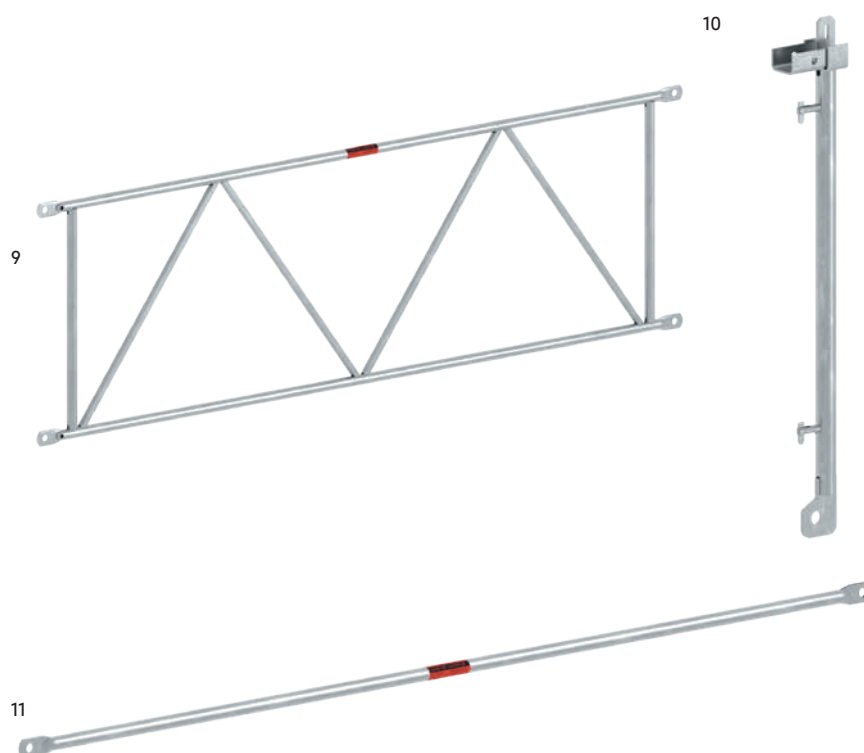
The **roof beams 1** or **ridge supports 2** are connected to one another at the bottom chord with **bolts 30 x 50 mm 3** and **securing pins $d=4$ mm 4**. At the top chord, it is possible to use either two **M14 x 80 bolts 8** with nuts or **14 x 77 mm bolts 5** with **securing pins $d=2.8$ mm 6**.

Depending on the structural documentation some construction variants may require the use of a third **bolts 14 x 107 mm 7** and **securing pin $d=2.8$ mm 6** at the top chord.

A truss bay consisting of a pair of roof trusses connected to **beam stiffeners 9** is pre-assembled at ground level and the roof cassettes are mounted on it and wedged in place.



A crane is used to place the pre-mounted truss bays on the scaffolding at intervals of 2.57 m, while the unoccupied intermediate bays are reinforced with **tubular stiffeners 11** and then closed using roof cassettes.



Pos.	Description	WS [mm]	Dimensions L / H x W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	Roof beam					
	2.00 m		2.00 x 1.00	48.2	16	5902.200
	3.00 m		3.00 x 1.00	64.5	16	5902.300
2	Ridge support		4.30 x 1.00 / 1.50	106.0	10	5901.000
3	Bolt 30 x 50 mm		0.05	3.0	10	5903.002
4	Securing pin d=4 mm			1.5	50	5905.002
5	Bolt 14 x 77 mm	22		2.2	20	5906.079
6	Securing pin d=2.8 mm			0.5	50	4905.002
7	Bolt 14 x 107 mm		0.11	3.0	20	5906.109
8	Bolt M14 x 80 mm with washer and nut	22		2.8	20	5906.082
9	Beam stiffener		2.57	15.2	35	5907.000
10	End post for mono-pitch roofs			6.6	50	5901.100
11	Tubular stiffener		2.57	5.1	150	2504.257

05 Cassette Roof

Tie elements

In the case of high levels of snow and/or large spans, it is necessary to install a **tie 2**. The **end pieces of the ties 1** are connected to the last bottom chord joint using **bolts 30 x 64 mm 3** and extended by one or more tie spacers. The tie elements are joined to one another using **lattice beam connectors 5** and are suspended using scaffolding tubes and couplers. When mounting ties, it is necessary to install a 2.00 m long roof girder as the external roof girder.

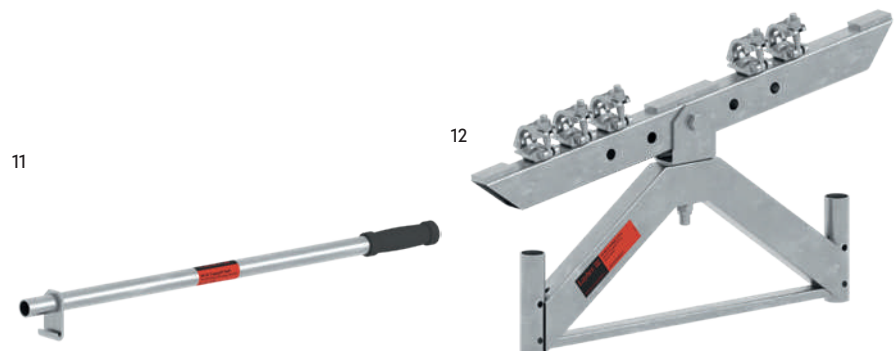
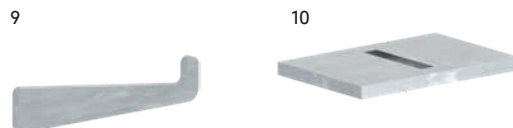
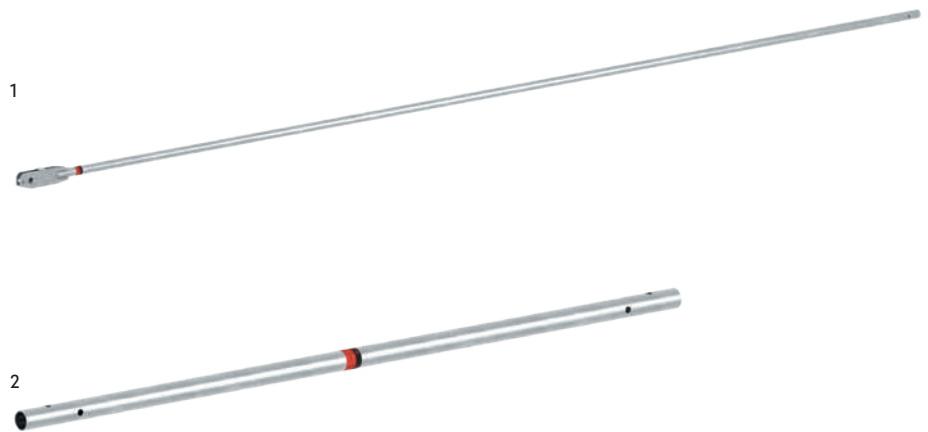
Lattice beam connectors 5 are used to connect the tie end pieces or spacers. Each of these requires either two **bolts M14 x 65 6** with nuts or four **bolts 14 x 77 mm 7** with **securing pins d=2.8 mm 8**.



Tie connection

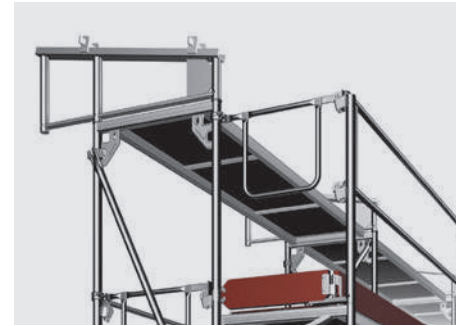
Wedges and clamping plates 9/10 for securing the roof cassettes both on the roof trusses and in the intermediate bay.

The **carrying handles 11** are inserted in the edge section of the roof cassettes and simplify the insertion and removal of individual roof cassettes without there being any need to bend or go too close to the opening.



Roof supports as connecting elements for the supporting structure

For the cassette roof, 2 types of roof supports are available. The **swivelling roof support 12** has a movable seesaw, which also can be used for mono-pitch roofs. The rigid **roof support 13** fits for support scaffolding with widths of 0.73 m and 1.09 m. The premounted truss bays are inserted in the roof support and secured using 2 **wedges 14** with **securing pins 4** to ensure that they cannot lift out of position. And if the roof has to be mounted on another structure: our engineers have even found solutions for this requirement. Please consult us.



Top scaffolding guardrail, secure assembly thanks to lower bracket levels



Detail for roof support

Pos.	Description	WS [mm]	Dimensions L / H x W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	Tie end piece, for roof girder		6.00	29.5	50	5917.000
2	Tie		2.00	7.1	50	5918.200
			4.00	17.0	50	5918.400
			6.00	25.5	50	5918.600
3	Bolt 30 x 64 mm		0.06	4.0	10	5904.002
4	Securing pin d=4 mm			1.5	50	5905.002
5	Lattice beam connector, round steel d=38 mm for straight extension of lattice beam Ref. No. 4906.xxx		0.44	3.4	500	4916.000
6	Bolt M14 x 65 mm nut, strength class 8.8	22		6.5	50	4908.067
7	Bolt 14 x 77 mm	22		2.2	20	5906.079
8	Securing pin d=2.8 mm			0.5	50	4905.002
9	Wedge, for fixing cassette		0.18	7.5	25	5913.004
10	Clamping plate, for fixing cassette		0.12 x 0.08	15.0	25	5914.002
11	Carrying handle for roof cassette, steel		0.75	1.2	2	5931.100
12	Swivelling roof support		0.73	19.1	20	5975.073
			1.09	22.4	20	5975.109
13	Roof support rigid, 0.73 / 1.09 m 2 wedges Ref. No. 5913.003 and 2 safety clips Ref. No. 5905.001 are required for each roof support		1.14 x 0.47	15.3	20	5915.000
14	Wedge for roof support		0.18	7.5	25	5913.005

Roof cassettes

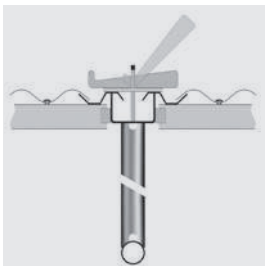
Roof cassettes with corrugated sheet

The **roof cassettes T20 1** consist of a robust, hot-dip galvanized steel frame with shaped steel sheets and have a load capacity of 120 kg/m². The cassettes improve the horizontal rigidity of the roof. They can be supplied in lengths of 1.00 m and 2.00 m. The roof cassettes are inserted in the channel section of the top chord and are secured positively and non-positively using wedges and clamping plates. In this case, the clamping plate acts as a force-distributing base while the specially shaped wedge prevents slippage.

The 2.00 m-long cassette is also available with an **access hatch 2** to provide you with a safe, easy way onto the roof.

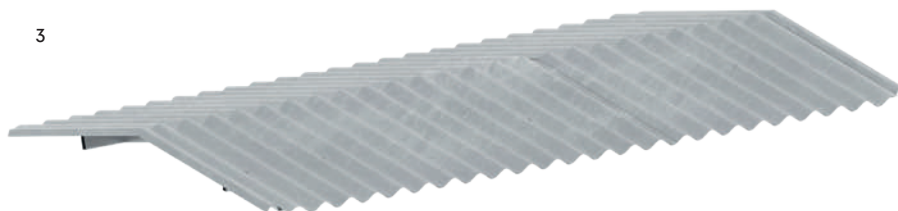
Ridge cassettes T20 3 for use with roof trusses consisting of roof girders and ridge supports.

Support scaffolding for cassette roofs is usually clad with translucent scaffolding tarpaulins. If additional light is required, **light cassettes T20 4** can also be installed. The light cassettes are fitted with transparent corrugated plastic panels together with a grid at the bottom to prevent people falling through. There is therefore no need for safety guards around the light cassette.



Cassette fixing

3



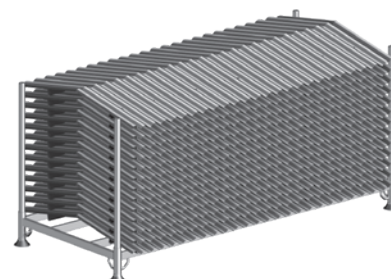
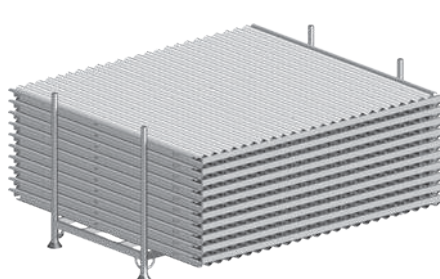
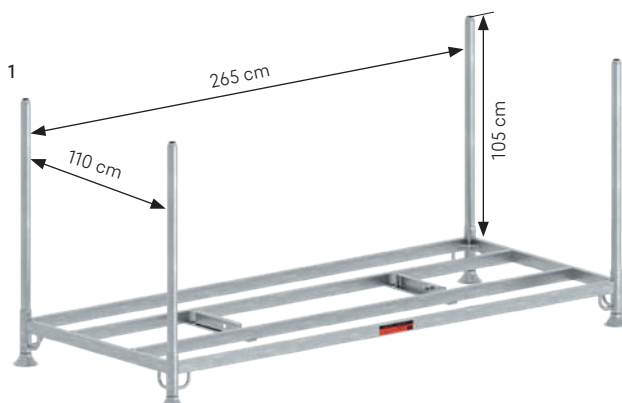
4



Pos.	Description	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	Roof cassette T20				
	1.00 m, corrugated sheet	1.00 × 2.57	43.6	20	5911.100
	2.00 m, corrugated sheet	2.00 × 2.57	71.4	20	5911.200
2	Roof cassette with access hatch T20	2.00 × 2.57	82.7	5	5911.210
	2.00 m, corrugated sheet				
3	Ridge cassette T20	1.45 × 2.57	43.9	10	5911.001
	with corrugated sheet				
4	Light cassette T20	2.00 × 2.57	50.0	10	5911.205
	2.00 m, with corrugated plastic panels, installation only in intermediate bays in alternation with roof cassettes				

Logistics

Tubular pallet 1 for the transport and storage of 13 ridge cassettes or 20 roof cassettes, also suitable for brick guards.
Design: hot-dip galvanised




The **modular skeleton box 2** in standardized European dimensions has a carrying capacity of 2 t and is stackable with Euro pallets. The upper part has crane eyelets.

A side opening makes it possible to remove the stacked items even if several pallets are positioned on top of one another.
Design: hot-dip galvanised



More logistic solutions you'll find in the catalogue **System-free Accessories**.

Pos.	Description	Dimensions L / H x W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	Tubular pallet 265 steel, hot-dip galvanised, length of pallet posts 1.20 m, load 1,300 kg	2.77 x 1.22	50.6	10	5113.265 
2	Modular skeleton box with timber base plate steel, hot-dip galvanised, Internal dimensions 1.08 x 0.68 x 0.61 m, load 2,000 kg, perm. onload 6,000 kg, stackable with Euro pallets	1.20 x 0.80	85.8		5113.002

Fall protection

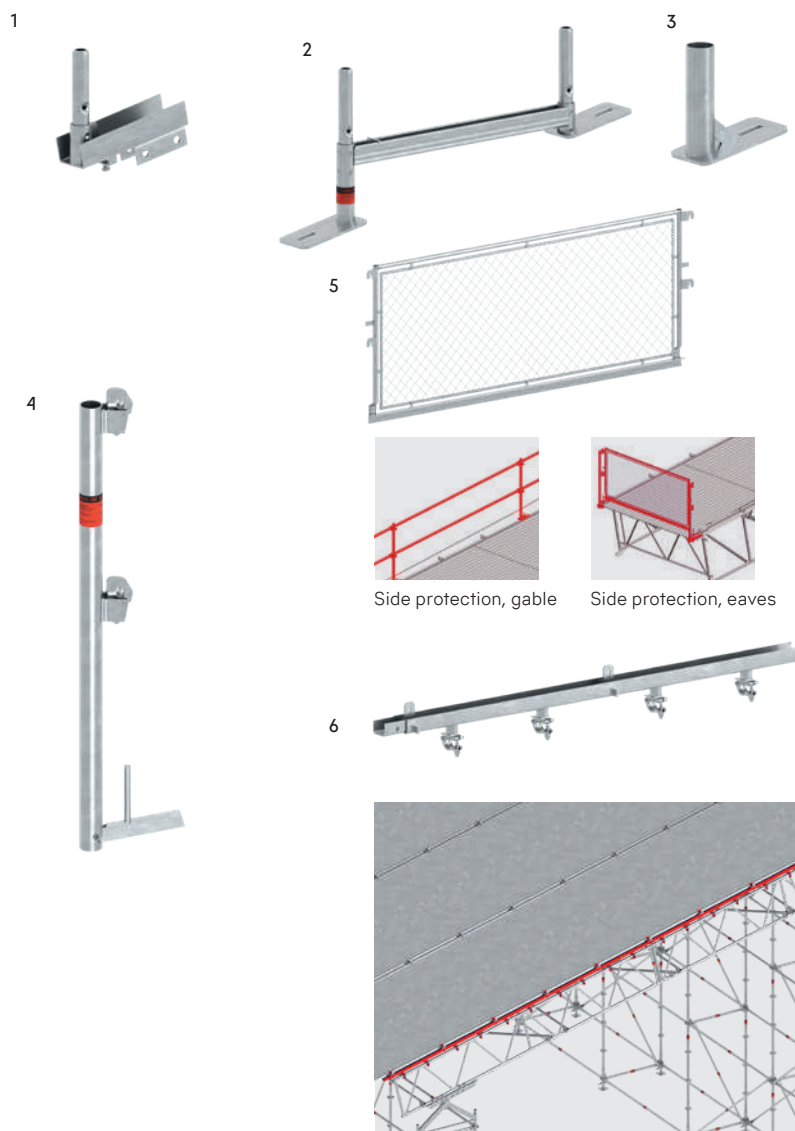
Safety when walking on the roof:
Safety when walking on the roof and the fall protection of anyone who slips on the roof is provided by **roof guards 5** in the eaves area of the side protection.

To this end, the **connecting piece 1** accommodates the **guardrail support 4** and, if necessary, commercially available semicircular gutter supports can be installed on the structure for the controlled removal of water from the roof.

A **standard connection 3** is provided for the construction of the side protection in the gable area or at the barge board and for the Allround scaffolding of openings on the roof surface.

This is installed instead of the clamping plate. The standard connector accommodates a steel scaffolding tube as a guardrail post. Max. distance between posts: 3.00 m.

The **base support for walkway 2** can be used alternatively to the **connecting piece 1** at the eaves area for fixation of the fall protection. It can additionally bear scaffolding decks for a horizontal walkway. It's mounted to the top chord of the lattice beam with 2 wedges.



Pos.	Description	Dimensions L / H x W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	Connecting piece for cassette supports	0.3	4.1	100	5932.000
2	Base support for walkway steel, for assembly of a walkway at the eaves area	0.73	8.7	40	5916.073
3	Standard connection	0.22	3.2	100	5934.000
4	Guardrail support single with guardrail wedge housings, steel	1.00	5.5	100	1716.000
5	Roof guard	1.00 x 2.57	21.1	30	1749.257
6	U-section steel	2.00	18.0	63	5919.219

Rope safety gear

Rope safety gear system 20 m / 40 m 1/2

- **Oval carabiner:** Connection element between end fastener and fall arrester
- **Fall arrester:** Reduction of the impact force when falling. Element for one-time operation
- **Rope pre-tensioner:** Tensioning unit for the safety rope
- **Runner:** Connection element between PSA-connecting line and roof safety rope
- **Fork head:** Fixation for the safety rope
- **Intermediate element:** For installation on ridge fastener and intermediate fastener

1/2



4



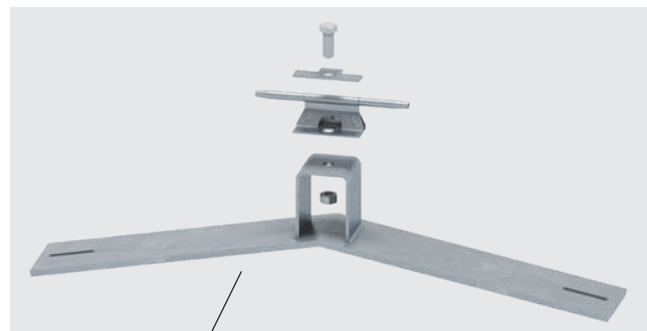
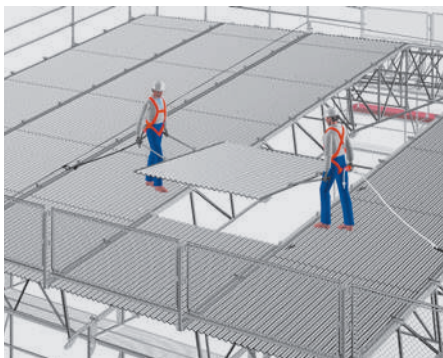
End fastener 3 for suspending fall arrester / pre-tensioner. Fastened in each case with wedge.

Intermediate fastener 4 for assembly of an intermediate element, max. distance 15 m. Each fastening with wedge.

5



Ridge fastener 5 for fitting of an intermediate element in the ridge area. Fastened in each case with wedge.



Assembly of intermediate element on ridge fastener

Attachment Device with horizontally movable guide in accordance with EN 795 class C.

Rope pre-tensioner (incl. screw-lock shackle)

Oval carabiner

Fall arrester

End fastener

Runner

Intermediate fastener with intermediate element

Ridge fastener with intermediate element

Intermediate fastener with intermediate element

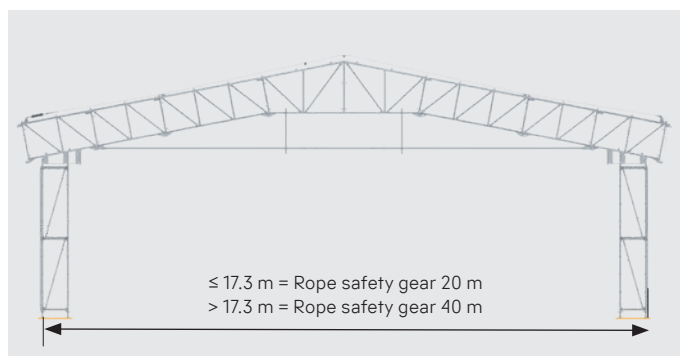
Fork head (incl. pin and circlip)

End fastener

Safety rope 20/40m



Assembly intermediate fastener on intermediate element



KIT 1 – Rope safety gear system up to span of 20 m Ref. No. 5969.120		Quantity
Safety rope, Length 20 m		1
Fall arrester		1
Rope pre-tensioner		1
Fork head		1
Runner		1
Oval carabiner		1
Intermediate element		1
Instructions for assembly and use		1
Identification sign		1
Spare part for tensioning element		1

KIT 2 – Rope safety gear system up to span of 40 m Ref. No. 5969.140		Quantity
Safety rope, Length 40 m		1
Fall arrester		1
Rope pre-tensioner		1
Fork head		1
Runner		1
Oval carabiner		1
Intermediate element		3
Instructions for assembly and use		1
Identification sign		1
Spare part for tensioning element		1

The **PPE safety harness 6** has impressive features:

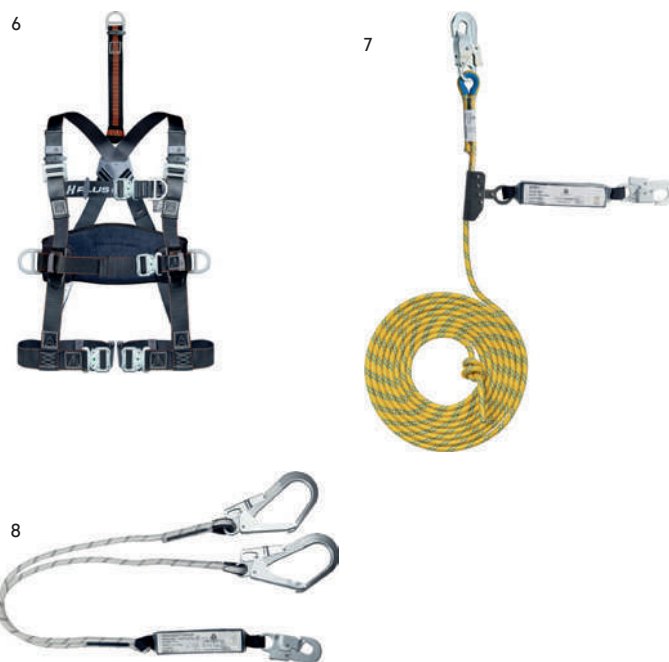
- Comfortable, padded and ergonomic back support.
- Convenient tool holders and click-locks for easy fastening.
- High operational dependability and absolute freedom from maintenance, plus very simple fastening.
- Operating errors are not possible, as the equipment operates in any position.
- Excellent 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.

Travelling arrester system ASK 1 7

Travelling rope shortener made of stainless steel, firmly sewn belt fall arrester (conforms to EN 355) with snap hook, rope length 5.00 m, conforms to EN 353-2.

PPE connecting line Y-version 8 Belt fall arrester with two coated-core ropes, d=12 mm. Aluminium one-hand snap hook and two tube hooks FS 90 (conforming to EN 354 / EN 355).



Pos.	Description	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	Rope safety gear system 20 m KIT 1	20.00	10.0	1	5969.120
2	Rope safety gear system 40 m KIT 2	40.00	13.0	1	5969.140
3	End fastener steel, hot-dip galvanised	0.23 × 0.12	3.1	1	5969.010
4	Intermediate fastener steel, hot-dip galvanised	0.23 × 0.12	1.8	1	5969.020
5	Ridge fastener steel, hot-dip galvanised	0.87 × 0.12	9.7	1	5969.030
6	PPE safety harness with extension 0.50 m conforms to EN 361		1.8	1	5969.161
7	Travelling arrester system ASK 1 Polyamide, d=12 mm		2.7	1	5969.200
8	PPE connecting line Y-version with snap hook FS 90 (conforming to EN 354 / EN 355)		1.6	1	5969.600

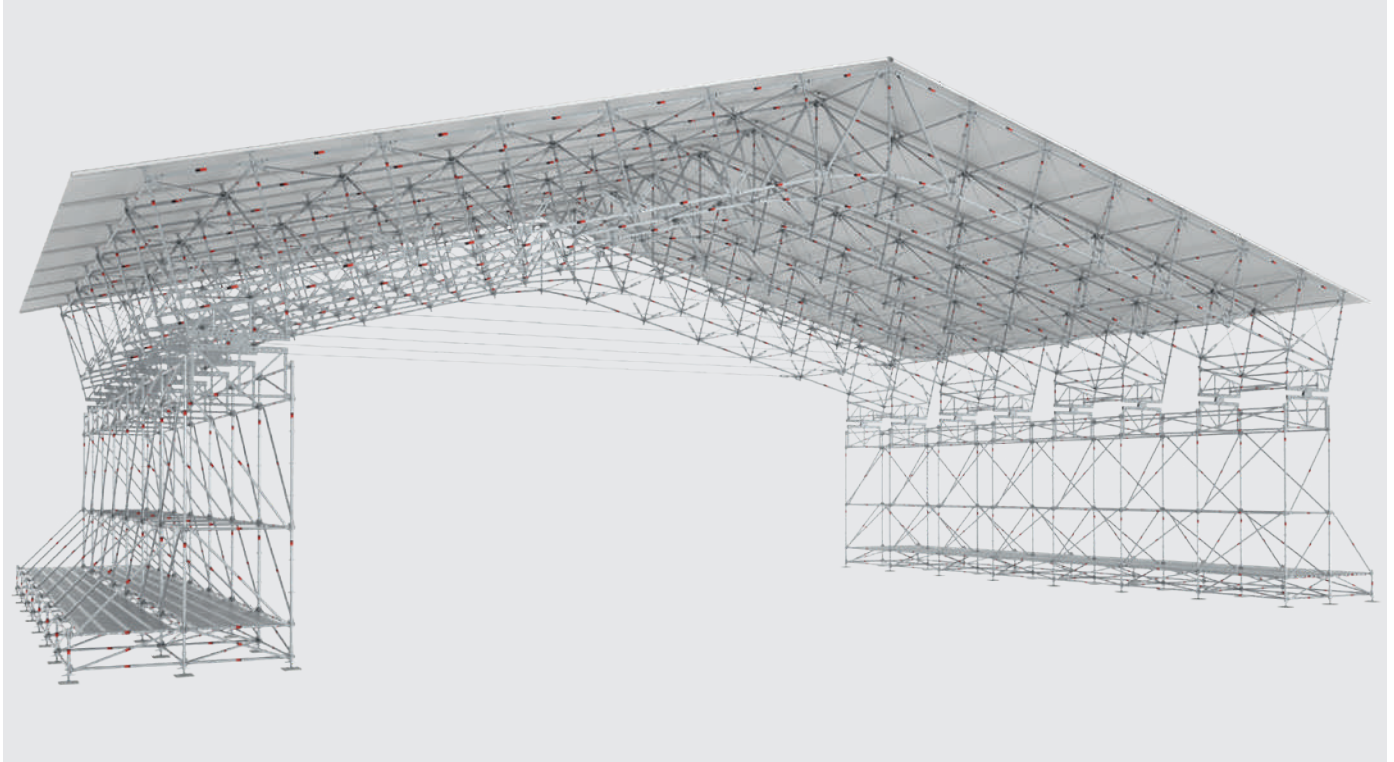
06

FW

SYSTEM

ROOF

The Allround FW System can be used for a wide variety of applications, for example **bridging** or **bracing**, and also for roof supporting structure for temporary weather protection roofs. Spans of up to 45 meters can be realized under normal climatic conditions.



Notice: Potentially necessary stabilizing measurement are not illustrated.



Due to the **bolt connection** and the proven **Allround wedge head technique**, the pre-assembly of the roof trusses on the floor is quick and efficient.

The roof trusses, braced using Allround standard components, are then positioned **by crane** onto the shoring. Thanks to Layher's standardised system dimensions, no tiresome measurement is needed.

The system can be assembled as a classic double-pitch roof or as a mono-pitch roof with a roof angle of 15°. For supplying materials to the sign, the Allround FW system roof can be opened by bays.

It is also possible to attach walkways made of Layher's standard scaffolding decks to the roof truss. That makes assembly, maintenance and any snow-clearing work that might be needed easier to manage.

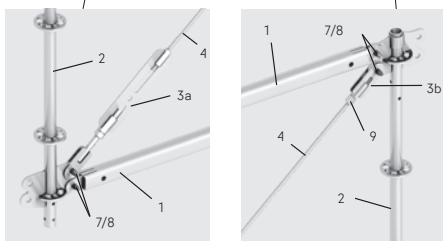
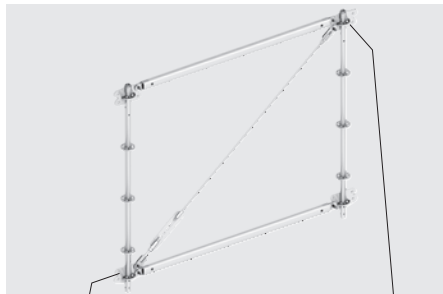
The benefits for you:

- Spans of up to 45 m possible under normal climatic conditions.
- Flexible uses, e.g. for weather protection roofs, bridges and supports for scaffolding.
- Extension by only 3 additional expansion parts to the Allround Scaffolding.
- The components are inside the system axes in all 3 directions.

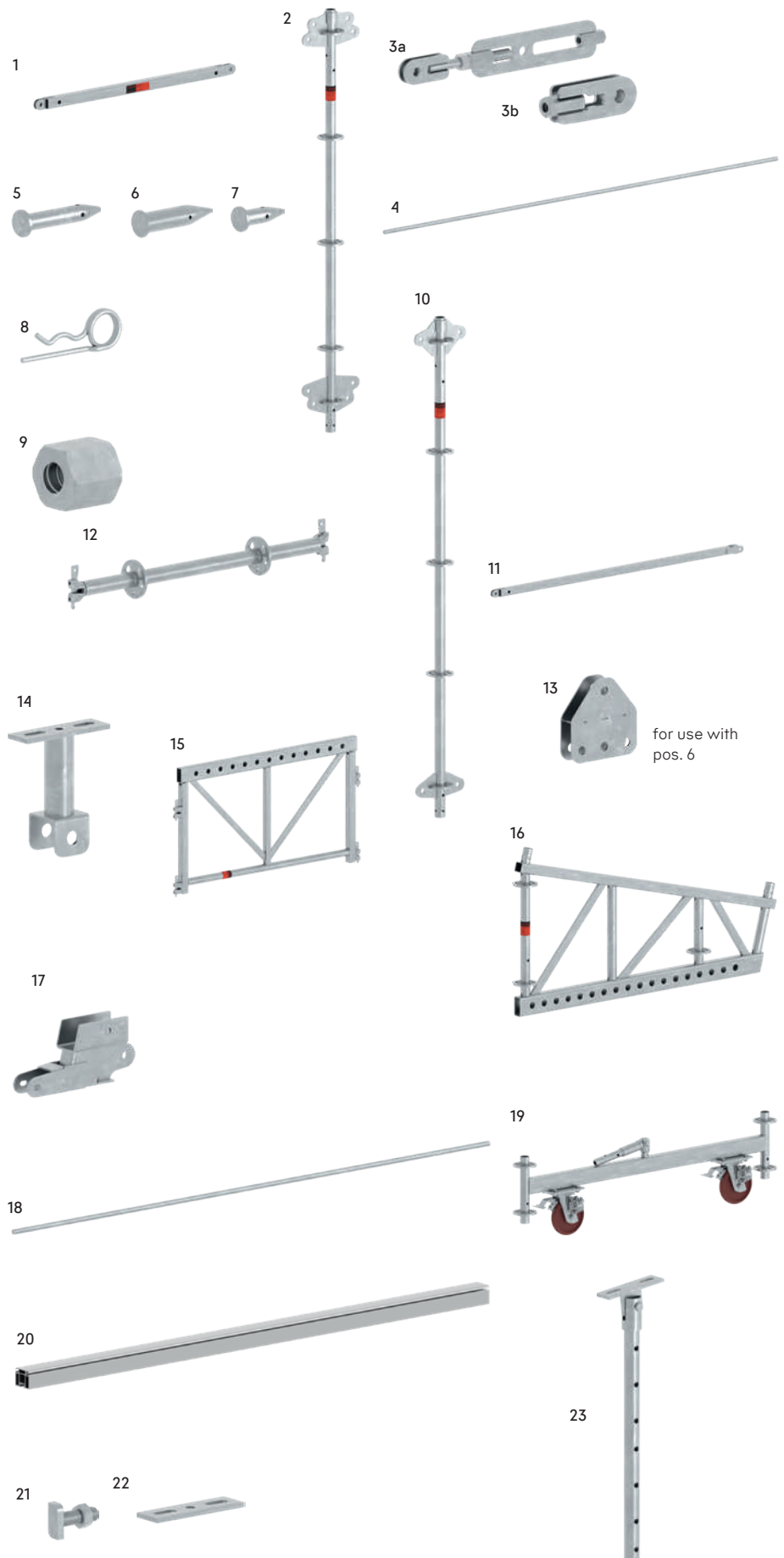
System Components











































To provide wide-span bridging too, or to support heavier loads, the Layher range now includes the **Allround FW System FW**. This additional Allround component is a modular-designed lattice beam of high load-bearing capacity that can be completely integrated into the Allround construction kit thanks to the standardised system dimensions. For lattice structures, only three essential supplementary components are needed, and they can be rapidly connected using pins: an **Allround FW post 2**, a sturdy **Allround FW chord 1** as the top and bottom chord, and a length-adjustable **Allround FW diagonal rod consisting of 3–5**. The cross-bracing is made by serial Allround equipment. By its structural height a high load-transmission is guaranteed.

A further special feature is the stepless adjustment of the diagonal rods using a **turnbuckle 3a** – for example to build slightly higher structures. This compensates for unwelcome sagging. A crossed diagonal configuration is also possible for transmitting both positive and negative lateral forces.



To fix the tarpaulins, the bending stiff **Aluminium keder rails 3000 20** will be assembled on the FW System roof binders.

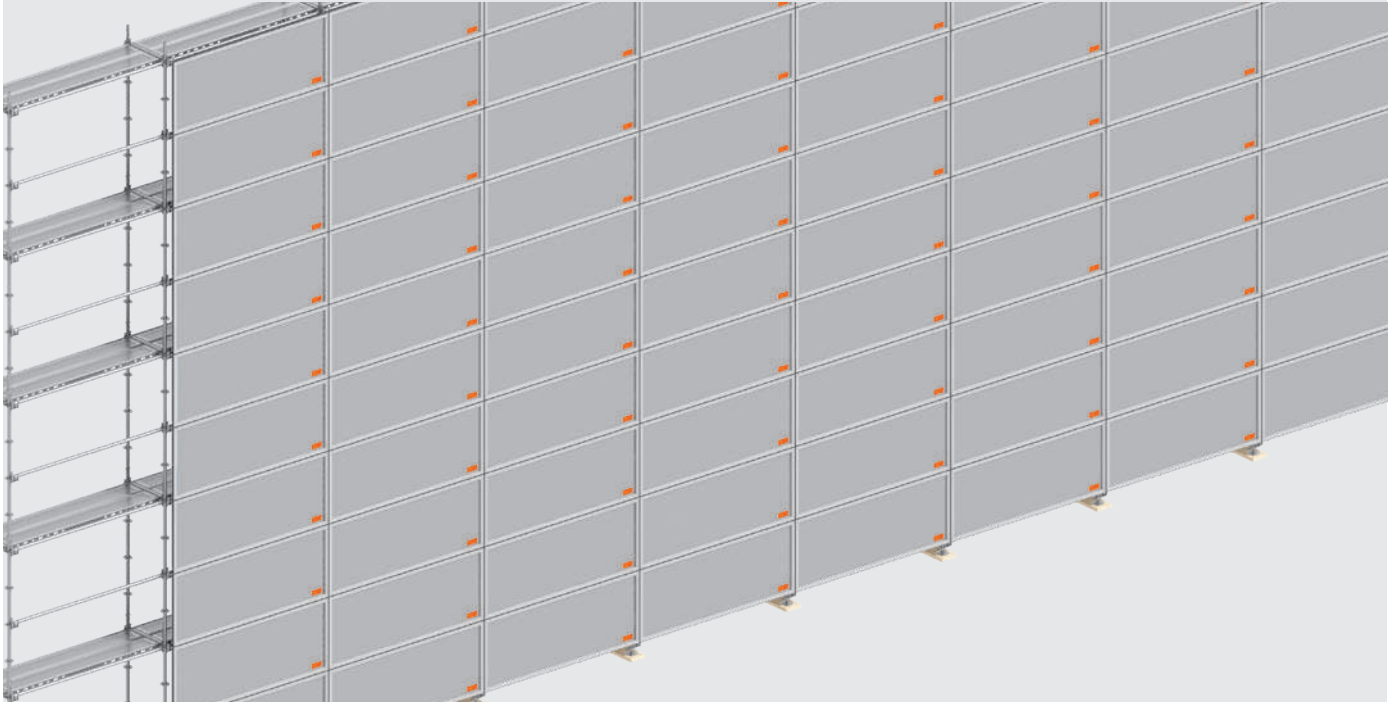


Pos.	Description	WS [mm]	Dimensions L / H x W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	FW chord		1.57	10.5	20	2646.157 
			2.07	13.9	20	2646.207 
2	FW post		2.00	17.2	28	2646.200 
3	FW endfitting					
a	with turnbuckle			3.8	250	2646.202 
b	w/o turnbuckle			0.9	500	2646.203 
4	FW diagonal rod					
	for 2.07 x 2.00 m bay		1.96	2.8	100	2646.211 
	for 2.07 x 1.50 m bay and 1.57 x 2.00 m bay		1.63	2.4	100	2646.214 
5	Bolt 20 x 113 mm			3.0	10 	2646.281 
6	Bolt 30 x 130 mm			6.3	10 	2646.284 
7	Bolt 20 x 66 mm			1.6	10 	2646.221 
8	Securing pin d=4 mm			1.5	50 	5905.002 
9	Nut 30 x 15 mm	30		1.5	10 	2646.231 
10	FW System ridge post		2.25	17.5	28	2646.223 
11	FW System ridge diagonal brace		2.53	15.1	50	2646.224 
12	FW System ridge ledger with rosettes		1.09	5.0	28	2664.109 
			1.57	6.5	28	2664.157 
			2.07	8.0	28	2664.207 
			2.57	9.5	28	2664.257 
13	FW System support adapter use with bolt 2646.284			4.4	45	2646.265 
14	FW System keder rail holder			1.3	250	2646.275 
15	FW System support beam		1.57	35.2	10	2655.157 
16	FW System chord support		1.57	27.0	10	2652.157 
17	FW System tie connector			2.8	100	2664.226 
18	Tie thread rod		2.00	2.9	100	5976.200 
			3.00	4.4	100	5976.300 
			4.00	5.8	100	5976.400 
			5.00	7.3	100	5976.500 
19	FW System trolley	19	1.57	30.0	50	2646.228 
20	Aluminium keder rail 3000		2.00	6.1	20	5574.200 
			3.00	9.2	20	5574.300 
			4.00	12.2	20	5574.400 
			5.00	15.3	20	5574.500 
			6.00	18.3	50	5574.600 
21	Groove bolt for keder rail M12 x 40 with nut			5.0	50 	4206.003 
22	Joint plate for keder rail 2 groove bolts 4206.003 are required		0.17	0.5	50	4208.000 
23	Hinged attachment		0.70	3.4	100	5573.001 

07

PRO
TECT
SYS
TEM

With the **Protect System**, Layher can supply a cassette enclosure system which is compatible with the Layher Allround Scaffolding and SpeedyScaf systems and which meets requirements concerning environmental protection and insulation from noise and weather. It is an **exceptionally economical solution which boasts Layher's renowned quality**.



- Only a small number of individual parts, designed for frequent, changing applications.
- **Rapid, easy assembly in a simple, logical sequence.**
- The cassettes are designed for Layher axis dimensions (max. width: 3.07 m) and, with a height of 1.00 m, are very simple to assemble and move into the scaffolding.
- The surrounding rubber seal makes the cassette elements almost dustproof (**facade coating**), vacuum-compatible (**removal of asbestos**), waterproof (**sandblasting work**).
- Electrostatically inert and therefore easy to clean.
- The wall cassettes can be used with a dimension of **airborne sound insulation** of $R_w=26$ dB.
- **Light cassettes** permit work in daylight conditions within the enclosure.
- Cassette elements exist for **external and internal corners**.
- A specially developed **connection rail** is used to establish a connection with the existing building or the ground.
- Practical solutions for horizontal and vertical dimension compensation are available.
- The anchoring layout corresponds to that of scaffolding which is clad with tarpaulins.
- **Access elements** compatible with system and individual requirements are available.

The benefits for you:

- Requirements of environmental, sound and weather protection are fulfilled.
- Rapid, easy assembly in a simple, logical sequence.
- The all-round rubber seal makes the cassette elements almost dustproof (facade coating), vacuum-compatible (removal of asbestos), waterproof (sandblasting work).
- Only few and optical attractive components, designed for frequently changing applications.
- Fully combinable to Layher Allround Scaffolding, Layher-SpeedyScaf and Layher AGS System.

System Components

Cassette elements Frames made from aluminium sections with galvanized sheet steel inserts. A surrounding rubber seal provides a clean, precise connection to neighbouring elements.

The **wall cassettes 1** can be used with a dimension of airborne sound insulation of $R_w=26$ dB.

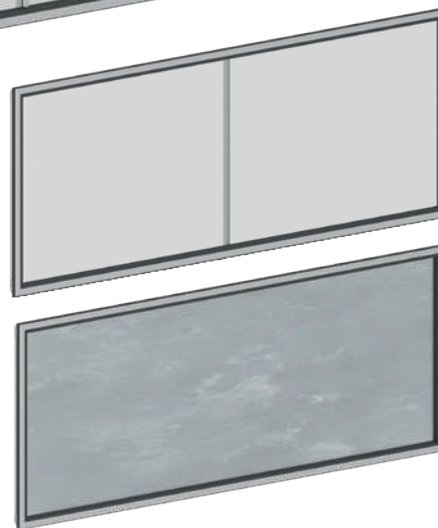
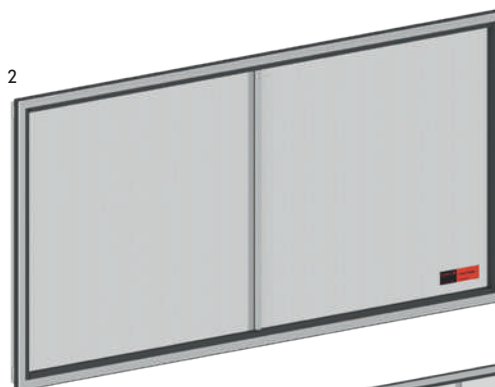
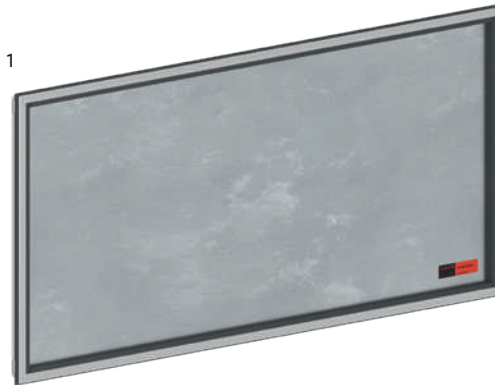
On request, it is also possible to supply special wall cassette variants with enhanced sound isolation properties in accordance with the "Supplementary Technical Requirements and Guidelines for Highway Noise Insulation Walls" ZTV-Lsw 88:1988 and the evaluation in accordance with DB guideline 800.2001, section 2.

A test report concerning the airborne sound insulation of scaffolding coverings issued by the Fraunhofer Institute for Building Mechanics in accordance with ZTV-Lsw 88:1988 or DB guideline 800.2001 is available.

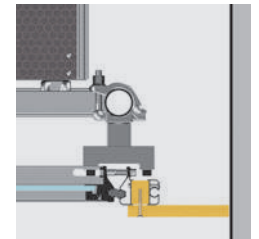
Thanks to the use of **light cassettes 2**, it is possible to work in daylight conditions behind the enclosure. In this case, a translucent plastic web plate replaces the steel plate in the aluminium section frame.

Connection rails 3 close the enclosure at the ground or building. These are clamped to the cassettes and make it possible to pull a Keder tarpaulin into the built-in Keder groove. Alternatively, a sheet or board can be adapted for use with the wooden strip intended for this purpose. Connection rails also permit the clean, close-fitting connection of fitted bays.

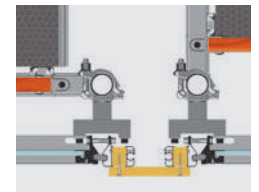
Internal and external corners are formed using **corner cassettes 4/5**, while the corresponding **connection rails 6**, which are inserted in the holder, permit a close-fitting connection to the neighbouring cassettes and close the system both visually and in functional terms.



Wall connection

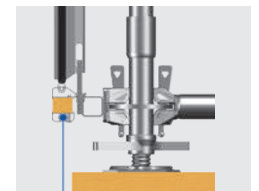


Equalizing bay connection



Real glass cassettes with laminated safety glass on request

Wall cassettes with enhanced sound insulation in accordance with ZTV-Lsw 88:1988 or DB guidelines 800.2001 (section 2) on request



To remove single wall cassettes, the upper brackets of the wall cassette must be dismantled and the upper wall cassette will be tilted outwards. The wall cassette below can now be lifted up and removed. The dismantled holders must be bolted in their old positions. While dismantling the cassettes, the handrail of the cassettes must not be removed, unless the scaffold erector provides further fall protection.

Corner elements with other angles upon request.

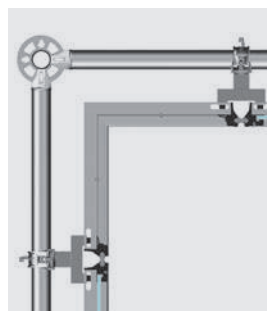
For an increased noise reduction value, different special configurations of Protect cassettes are available

- Protect wall cassette with increased metal sheet thickness.
- Noise reduction mat for Protect cassettes.

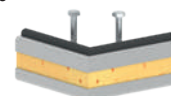
4



5



6



Pos.	Description	Dimensions L / H × W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	Wall cassette				
	0.73 m long	0.73 × 1.00	7.7	15	5980.073
	1.09 m long	1.09 × 1.00	10.5	15	5980.109
	1.40 m long	1.40 × 1.00	13.5	15	5980.140
	1.57 m long	1.57 × 1.00	14.3	15	5980.157
	2.07 m long	2.07 × 1.00	18.2	15	5980.207
	2.57 m long	2.57 × 1.00	22.2	15	5980.257
	3.07 m long	3.07 × 1.00	27.2	15	5980.308
	0.50 m long, metric	0.50 × 1.00	6.0	30	5980.050
	1.00 m long, metric	1.00 × 1.00	10.0	15	5980.100
	1.50 m long, metric	1.50 × 1.00	14.0	15	5980.150
	2.00 m long, metric	2.00 × 1.00	18.0	15	5980.200
	2.50 m long, metric	2.50 × 1.00	22.0	15	5980.250
	3.00 m long, metric	3.00 × 1.00	27.0	15	5980.301
2	Light cassette				
	0.73 m long	0.73 × 1.00	5.2	15	5981.073
	1.09 m long	1.09 × 1.00	7.1	15	5981.109
	1.57 m long	1.57 × 1.00	9.5	15	5984.157
	2.07 m long	2.07 × 1.00	11.5	15	5984.207
	2.57 m long	2.57 × 1.00	14.2	15	5984.257
	3.07 m long	3.07 × 1.00	16.2	15	5984.307
	0.50 m long, metric	0.50 × 1.00	4.0	15	5981.050
	1.00 m long, metric	1.00 × 1.00	6.0	15	5981.100
	1.50 m long, metric	1.50 × 1.00	8.6	15	5984.150
	2.00 m long, metric	2.00 × 1.00	10.6	15	5984.200
	2.50 m long, metric	2.50 × 1.00	13.0	15	5984.250
	3.00 m long, metric	3.00 × 1.00	15.5	15	5984.300
3	Connection rail				
	0.73 m long	0.73	1.7	20	5983.073
	1.09 m long	1.09	1.9	30	5983.109
	1.57 m long	1.57	2.9	30	5983.157
	2.07 m long	2.07	3.7	30	5983.207
	2.57 m long	2.57	4.6	30	5983.257
	3.07 m long	3.07	5.5	30	5983.307
	0.50 m long, metric	0.50	1.2	30	5983.050
	1.00 m long, metric	1.00	1.9	30	5983.100
	1.50 m long, metric	1.50	2.6	30	5983.150
	2.00 m long, metric	2.00	3.6	30	5983.200
	2.50 m long, metric	2.50	4.5	50	5983.250
	3.00 m long, metric	3.00	5.4	30	5983.300
4	Corner cassette 90°	0.16 × 1.00	4.2	50	5985.010
5	Inner corner cassette 90° 1.00 m	0.39 × 1.00	10.2	20	5985.040
6	Connection rail 90°	0.17 × 0.17	0.6	100	5985.011
		0.39 × 0.39	1.8	40	5985.041

07 Protect System

The cassettes are secured to the scaffolding using special **holders 1 – 4**, which are installed at a standard height of 1.00 m. Once the lower row of cassettes has been installed and aligned, all the other cassettes are mounted and secured simply using holders. The subsequent removal and installation of individual cassettes for material covering or other purposes is possible.

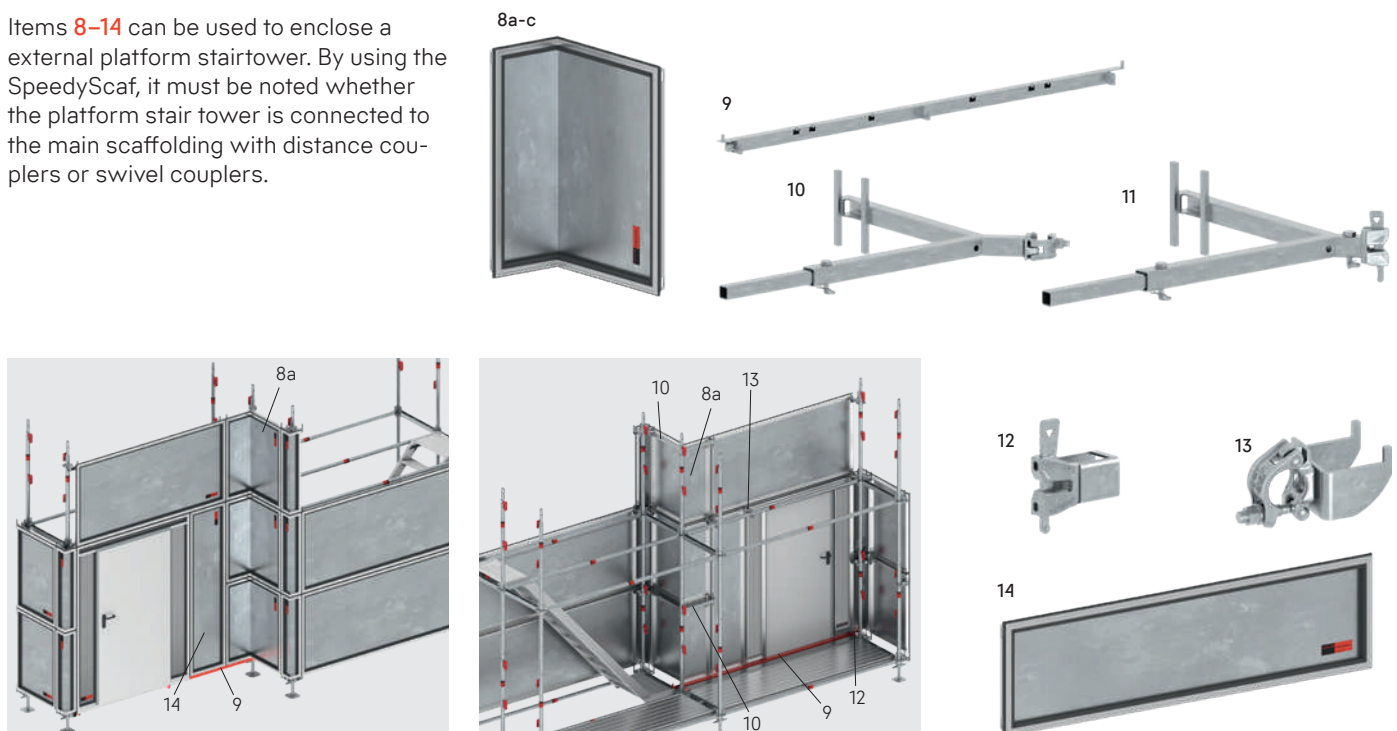
For access to the cladded scaffolding, the **light door elements 5/6** are available. Both doors are for axis dimensions 1.57 m and thanks to the **cover ledger 7** they are free of tripping hazards.

If required, the light cassettes can be equipped with single-glazed safety glass (particularly resistant to mechanical loads).

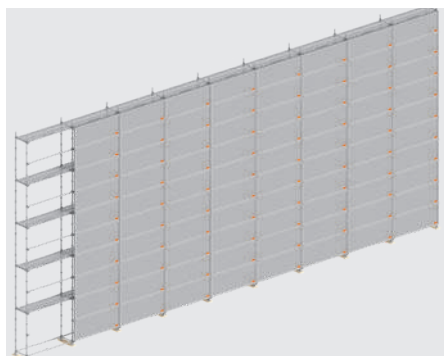


Access protection with external stairs

Items **8–14** can be used to enclose a external platform stairtower. By using the SpeedyScaf, it must be noted whether the platform stair tower is connected to the main scaffolding with distance couplers or swivel couplers.



Enclosure area: 205.60 m² (10 x 8 bays, each 2.57 m x 1.00 m) The connecting rails were installed at the bottom edge of the cassettes



Following material
is needed

	Quantity	PU [pc.]	Ref. No.
Wall cassette 2.57 x 1.00 m	80	15	5980.257
Allround holder	99	250	5986.031
Connection rail 2.57 m	8		5983.257

Pos.	Description	WS [mm]	Dimensions L / H x W [m]	Weight approx. [kg]	PU [pc.]	Ref. No.
1	SpeedyScaf holder for wall cassette T9	19		1.6	250	5986.011
2	SpeedyScaf corner holder for wall cassette T9	19		2.4	250	5986.021
3	Allround holder for wall cassette T9			1.2	250	5986.031
4	Ledger holder for half-coupling T9	19		1.6	300	5986.041
5	Light door element for site access Hinged DIN right, width clearance 0.94 m, height clearance 1.84 m		1.57 x 2.00	45.5	1	5985.156
6	Light door element for escape ways Hinged DIN right with anti-panic handle, width clearance 1.19 m, height clearance 2.09 m		1.57 x 3.00	68.6	1	5985.157
7	Cover ledger for Protect light door element, combined use with 2675.157		1.57	12.7	50	5985.158
8	Inner corner cassette 90°					
a	for Allround Scaffolding and AGS System		0.39 x 0.62 x 1.00	13.3	10	5985.042
b	for SpeedyScaf with distance coupler		0.39 x 0.73 x 1.00	14.7	10	5985.050
c	for SpeedyScaf with swivel coupler		0.39 x 0.69 x 1.00	14.2	10	5985.051
9	Cover ledger for Protect door in Allround Scaffolding and AGS		2.57	19.5	50	5985.257
10	SpeedyScaf/AGS corner holder for wall cassette Support for corner cassettes		19	6.1	40	5986.022
11	Allround corner holder for wall cassette Support for corner cassettes			6.1	40	5986.032
12	Square-tube ledger with 1 wedge head		0.134	1.0	250	5985.000
13	Protect ledger holder with half-coupler		19	1.6	250	5986.042
14	Wall cassette 2.00 m long, metric		2.00 x 0.50	11.3	30	5982.200

Index

Adapter for rail T12		
Allround corner holder for wall cassette		
Allround holder for wall cassette T9		
Aluminium keder rail 2000		
Aluminium keder rail 2000		
Aluminium keder rail 3000		
Aluminium O-beam FlexBeam		
Base support for walkway		
Beam stiffener		
Bending-resistant corner XL		
Bolt		
Bolt 12 x 65 mm		
Bolt 12 x 95 mm		
Bolt 14 x 77 mm		
Bolt 14 x 77 mm		
Bolt 14 x 107 mm		
Bolt 20 x 66 mm		
Bolt 20 x 113 mm		
Bolt 30 x 50 mm		
Bolt 30 x 64 mm		
Bolt 30 x 130 mm		
Bolt M14 x 65 mm		
Carrying handle		
Castor for tarpaulin pulling		
Clamping plate, for fixing cassette		
Connecting piece for cassette supports		
Connection rail		
Connection rail 90°		
Connector for trolley		
Corner cassette 90°		
Cover ledger		
Cover ledger		
End fastener		
End post for mono-pitch roofs		
FW chord		
FW diagonal rod		
FW endfitting		
FW post		
FW System chord support		
FW System keder rail holder		
FW System ridge diagonal brace		
FW System ridge ledger with rosettes		
FW System ridge post		
FW System support adapter		
FW System support beam		
FW System tie connector		
FW System trolley		
Groove bolt for keder rail		
Groove bolt for keder rail M12 x 40		
Guardrail support		
Hinged attachment		
Hinged pin		
Hinged pin		
Inner corner cassette 90°		
Inner corner cassette 90°		
Intermediate fastener		
Joint plate for keder rail		
Keder rail holder with half-coupler		
Keder rail holder with wedge head		
	23	Keder rail seal 11
	45	Keder Roof, roof tarpaulin 15
	45	Keder Roof XL eaves section 11
	19	Keder Roof XL gable tarpaulin 15
	23	Keder Roof XL horizontal diagonal brace 11
	39	Keder Roof XL lashing strap 5 t 13
	23	Keder Roof XL lattice beam 11
	33	Keder Roof XL ledger 11
	27	Keder Roof XL mono-pitch lattice beam 11
	19	Keder Roof XL polyester lashing strap 13
	27	Keder Roof XL ridge section 11
	23	Keder Roof XL stiffener 11
	11	Keder Roof XL tie attachment 13
	27	Keder Roof XL tie connecting piece 13
	29	Keder Roof XL tie connecting sleeve 13
	27	Keder Roof XL tie connection lashing strap 13
	39	Keder Roof XL tie connection threaded rod 13
	39	Keder tarpaulin feeder 13
	27	Lattice beam connector, round steel 29
	29	Lattice beam connector T16 23
	39	LayPLAN CAD 7
	29	LayPLAN CLASSIC 7
	29	LayPLAN TO RSTAB 7
	13	Ledger holder for half-coupling T9 45
	29	Light cassette 43
	33	Light cassette T20 31
	43	Light door element for escape ways 45
	43	Light door element for site access 45
	23	Locking pin 23
	43	Modular skeleton box with timber base plate 32
	45	Nut 30 x 15 mm 39
	45	Overlap bracket eaves T18 23
	35	Overlap bracket T18 23
	27	Overlap Keder bow 2000 23
	39	PPE connecting line Y-version 35
	39	PPE safety harness 35
	39	Protect ledger holder with half-coupler 45
	39	Rail T19 23
	39	Rapid double coupler 23
	39	Ridge cassette T20 31
	39	Ridge fastener 35
	39	Ridge support 27
	39	Roof beam 27
	39	Roof cassette T20 31
	39	Roof cassette with access hatch T20 31
	39	Roof guard 33
	39	Roof support 23
	23	Roof support 29
	39	Rope safety gear system 20 m 35
	33	Rope safety gear system 40 m 35
	39	Securing pin d=2.8 mm 11
	11	Securing pin d=2.8 mm 23
	23	Securing pin d=2.8 mm 27
	43	Securing pin d=2.8 mm 29
	45	Securing pin d=4 mm 27
	35	Securing pin d=4 mm 29
	39	Securing pin d=4 mm 39
	19	Set for tarpaulin pulling 13
	19	Special bolt M12 x 60 mm 11

Special bolt M12 x 90	11
SpeedyScaf/AGS corner holder for wall cassette	45
SpeedyScaf corner holder for wall cassette T9	45
SpeedyScaf holder for wall cassette T9	45
Square-tube ledger	45
Standard connection	33
Swivelling roof support	11
Swivelling roof support	29
Tarpaulin clip	15
Tie	29
Tie end piece, for roof girder	29
Tie thread rod	13
Tie thread rod	39
Travelling arrester system ASK 1	35
Trolley T17	23
Tubular pallet 265	32
Tubular stiffener	27
U-section	33
Wall cassette	43
Wall cassette	45
Wedge, for fixing cassette	29
Wedge for roof support	29

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

