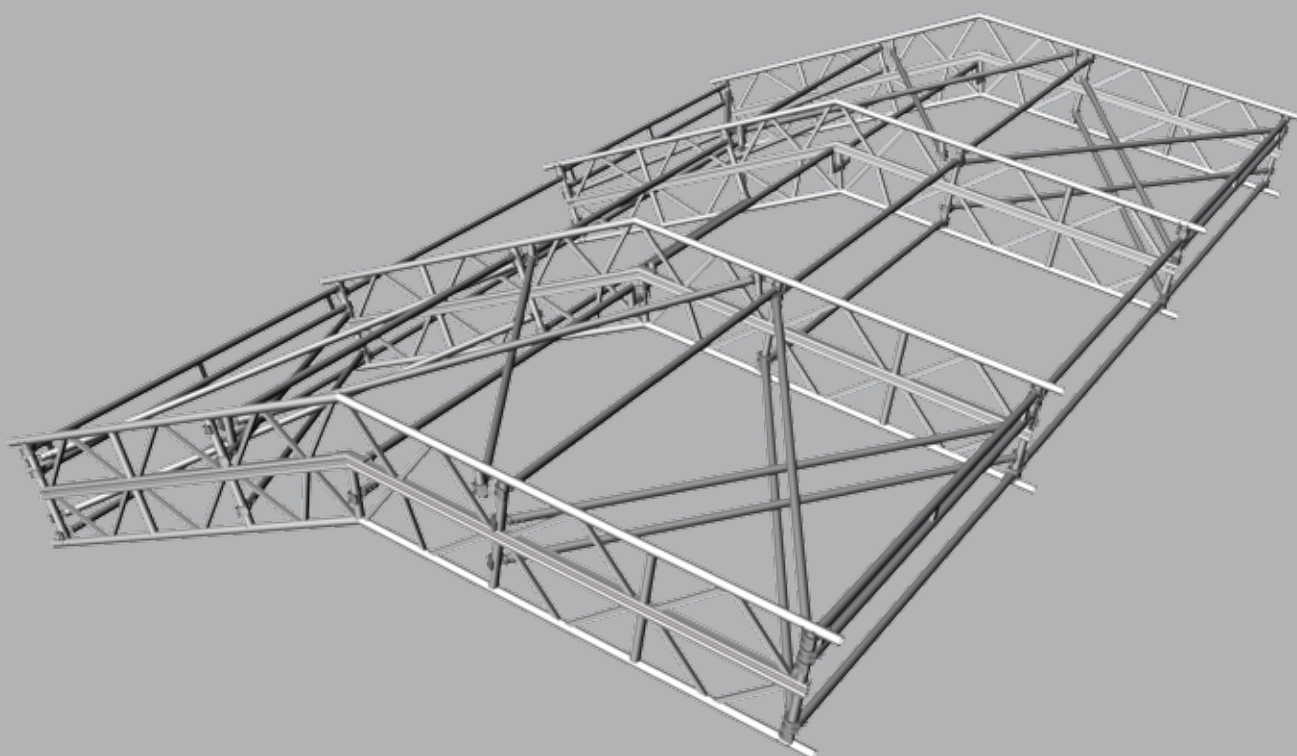




WACO Roof Covering System 600





Foundation slab concrete sealing



Mobile weather protection hall



Example, bridge construction:

All the work can be carried out in the hall independent of weather. The dry concrete area necessary for the insulation works can be provided by applying the WACO Roof Covering System 600.

Why worry about the weather?

How often does frost, rain or snow upset the best made plans particularly in the building industry? No progress in construction means: delays, frustration and additional costs.

The WACO Roof Covering System 600 makes it easy for you to overcome these problems: Whether you are redeveloping, reconstructing or heightening buildings, whether in civil engineering, building or road construction, the weather does not upset your schedule.

The WACO Roof Covering System 600 is completely watertight. With the appropriate heaters you can create working conditions in which you can also work outdoors when frost is about. You can draw two sheets into the roof connectors and even three on the ridge by means of the double rail sections.

The system is converted quickly into a mobile weather protection hall. It is so light that it can be pushed by hand into the next position.

You can promise deadlines which you can keep as a result of the WACO Roof Covering System 600. Thanks to the light-weight and flexible modular element system, up to 50% of installation time can be saved compared to conventional roof covering systems.



A complete success: Open air and public relation events, fair stands etc.

Event organisers do not like to leave their guests out in the rain. This is why many event agencies and organisers appreciate the advantages of the WACO Roof Covering System 600: rugged, variable and attractive! Enjoy a successful stage construction for an appealing fair presentation outdoors. You no longer have to consider about the weather with ALFIX.

The roof covering system is ideal for event organisers: You can even adapt it to any difficult, local situation with the ALFIX Modular Scaffolding. Or you can extend it with the ALFIX podium. The system provides you with a roof construction offering widest scope in application and variation.



ALFIX podium in combination with the WACO Roof Covering System 600.

The WACO Roof Covering System 600 keeps the rain outside and the warmth inside. The sheeting is bright and light transmissiv. This means that no additional lighting is required during the day and the inner lighting which shines through the roof creates a mystic yet festive atmosphere at night.

A special design element: You just use sheets in different colours.

Example, events:

The organisers of events are up against very strict regulations, particularly in town centres. In most cases very little time is available for erection or dismantling and everything must go in hand in hand. This is why it is good to be able to rely on a professional system in such situations: the WACO Roof Covering System 600.



Flexible area of application: Roof girders as large-area girders



Use the stable aluminium 3-truss lattice girders as girders for heavy loads for large-area girders. Thanks to the construction height of 600 mm and the stable Keder profile central truss these lattice girders can carry a much higher weight than conventional lattice girders, which are not part of a special system. The fact that longitudinal and diagonal ledgers can be used constitutes another advantage. With the help of these, stable reinforcements between the girders can be realised.

Overview	
Initial section / presentation top chord level	pg. 7
Price List Roof Covering System	
Main components	pg. 8
Accessories	pg. 11
Keder rail system	pg. 13
Erection (quick reference guide)	
	pg. 14
Technical data	
	pg. 15
Overview	
Nominal size / top chord level example 13 m	pg. 16
Material tables	
Initial section	pg. 17
Extension section	pg. 18
Bracing section	pg. 19
Roof-end section	pg. 20
Calculation example	
	pg. 21

The WACO Roof Covering System 600 consists of panels with

a length of 2.57 m (ALFIX length)	→	compatible with Layher, Assco, etc.
a length of 2.50 m (UNIFIX length)	→	compatible with Rux, Plettac, Hünnebeck, etc.

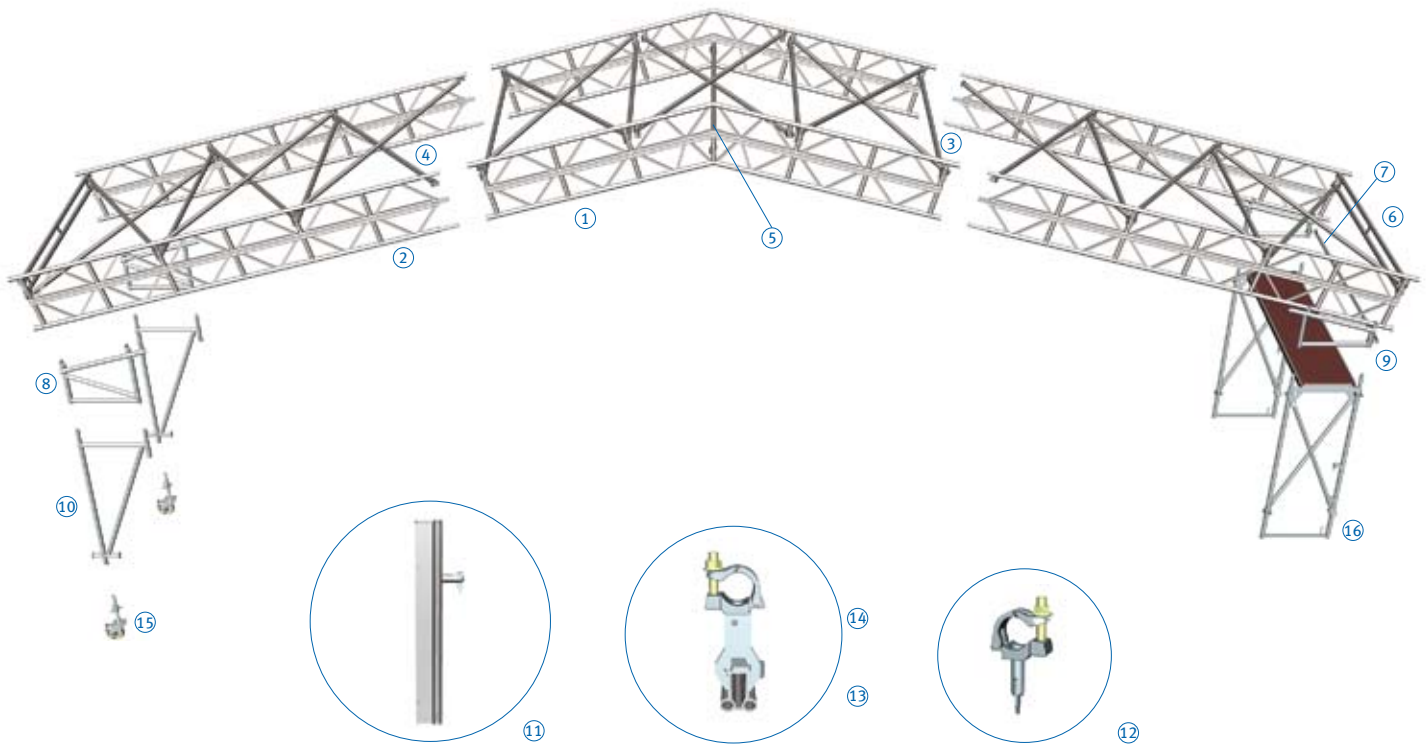
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Catalogue & Price List WACO Roof Covering System produced by ALFIX

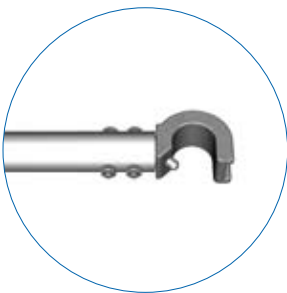
August 2008

Overview example
Initial section / presentation top chord level



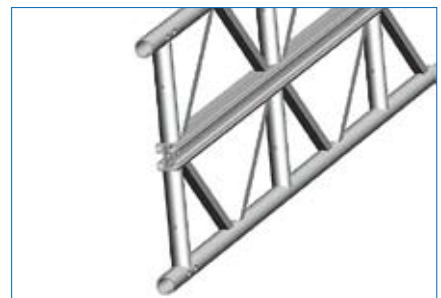
- | | | | |
|----|---------------------|----|-----------------------------|
| 01 | Ridge girder | 09 | Girder support 200 |
| 02 | Roof girder | 10 | Triangular bracket |
| 03 | Longitudinal ledger | 11 | Keder rail with tilting pin |
| 04 | Diagonal ledger | 12 | Tilting pin coupler |
| 05 | Ridge ledger | 13 | Keder rail |
| 06 | Eave bracing | 14 | Keder rail holder |
| 07 | Eave ledger | 15 | Castor |
| 08 | Girder support 400 | 16 | Assembly frame |

Article description	Length m	Width m	Weight kg	Bay length m		Article no.	Price €
				2.57 Alfix	2.50 Unifix		
 Ridge girder, Aluminium	4.60		44.1	•	•	47 00 460	556.00
 Roof girder Aluminium incl. connectors and screws or bolts	0.75		11.0	•	•	47 10 075	136.85
	1.50		17.3	•	•	47 10 150	180.50
	2.25		24.0	•	•	47 10 225	265.05
	3.00		30.8	•	•	47 10 300	333.75
	3.75		37.5	•	•	47 10 375	404.45
	4.50		44.2	•	•	47 10 450	479.80
 Longitudinal ledger Aluminium	2.57		4.7	•		47 26 257	58.00
	2.50		4.6		•	47 25 250	58.00
 Diagonal ledger Aluminium	2.57		5.4	•		47 30 001	62.50
	2.50		5.3		•	47 30 002	62.50
 Ridge ledger Aluminium	2.57		5.1	•		47 40 257	78.00
	2.50		5.0		•	47 40 250	78.00
 Eave bracing Aluminium	2.57		9.5	•		47 50 257	132.40
	2.50		9.3		•	47 51 250	132.40

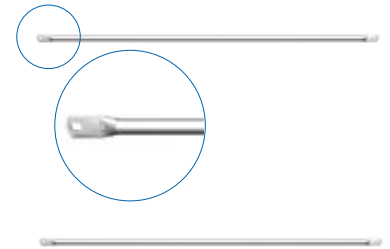


The connection are made as a rule without bolts. Self-locking claws ensure stability and allow a fast and easy erection.

Key feature of the roof construction: the 3-truss lattice girder. Through the double rail sections which form the centre of the 3-truss lattice girders, several sheets can be drawn into the aluminium roof girders so that even standard length sheets can be used for different span widths.






Article description	Length m	Width m	Weight kg	Bay lenght m		Article no.	Price €
				2.57 Alfix	2.50 Unifix		
Eave ledger Steel	2.57		4.7	•		47 45 257	18.85
Rear railing Steel used as eave ledger	2.50		4.2		•	20 60 250	13.45
Head strut	6.20		43.0	•	•	47 20 620	494.35
Aluminium	8.20		56.7	•	•	47 20 820	615.05
Girder support 200 Steel plus two swivel couplers (see page 11)		0.732	9.8	•		47 60 200	99.95
		0.739	9.8		•	47 61 200	99.95
Girder support 400 Steel plus two swivel couplers (see page 11)		0.732	14.0	•		47 60 400	103.40
		0.739	14.0		•	47 61 400	103.40



The head strut is an aluminium 3-truss lattice girder to reduce the clear span. With the WACO Roof Covering System 600, the use of head struts is necessary only starting from a span width of 20.40 m.

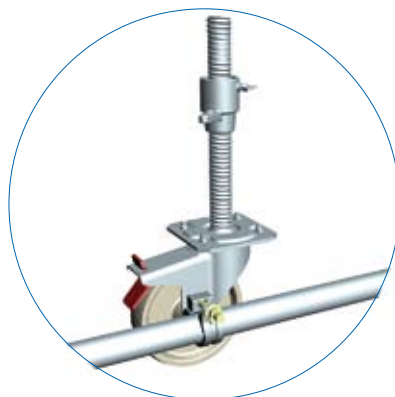


A sophisticated statical system permits modular element system roof coverings and weather protection. The provided roof form can be either a saddle roof with 15° roof pitch angle or shed roof. A light transmissive polyester sheet with welded rail seam forms the roofing skin. Span widths up to 27.5 m can be achieved.

Article description	Length m	Width m	Weight kg	Bay lenght m		Article no.	Price €
				2.57 Alfix	2.50 Unifix		
 Triangular bracket for mobile shelter	1.80	0.732	18.9	•		47 70 180	99.95
	1.80	0.739	18.9		•	47 71 180	99.95
 Castor with halfcoupler; for track stability; 5 kN			7.7	•	•	47 99 001	89.95
 Rail sheet PVC white; 590 g/m ² ; DIN 4102 B1; flame resistant;	8.00	2.46	12.0		•	47 90 080	253.00
	10.00	2.46	15.0		•	47 90 100	316.25
	12.00	2.46	17.0		•	47 90 120	379.50
	8.00	2.53	12.0	•		47 91 080	253.00
	10.00	2.53	15.0	•		47 91 100	316.25
	12.00	2.53	17.0	•		47 91 120	379.50



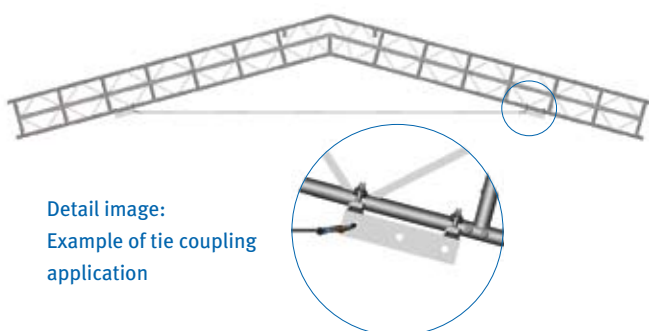
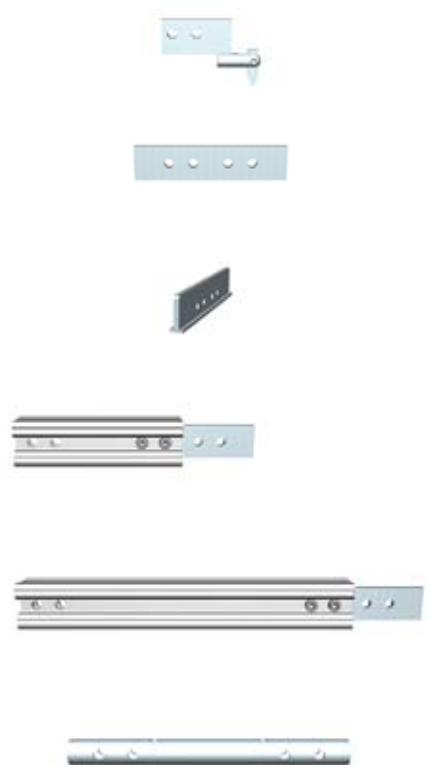
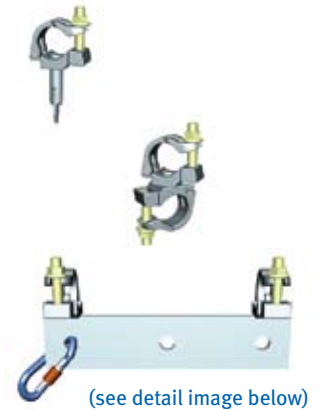
The castor half couplers enable the adjustment of the moveable hall. The castors may be connected by pipes to set the direction of the machine.



Aluminium Keder rail with tilting pin (see page 13 “Keder rail system”) for fastening eave ledgers can be used to fasten the roof sheet even when Keder rails are used for eaves.

The wall sheet can be fastened by inserting an eave ledger link into the upper opening of the Keder rail and by then using another eave ledger.








Article description	Length m	Width m	Weight kg	Bay lenght m		Article no.	Price €
				2.57 Alfix	2.50 Unifix		
Tilting pin coupler	SW 19	SW 19	0.8	•		13 05 019	9.65
	SW 22	SW 22	0.8		•	13 05 022	9.65
Swivel coupler 48/48 mm	SW 19	SW 19	1.3	•		13 03 019	6.15
	SW 22	SW 22	1.3		•	13 03 022	6.15
Tie coupling	SW 19	SW 19	3.7	•		43 50 019	60.00
	SW 22	SW 22	3.7		•	43 50 022	60.00
Eave ledger connection			0.4	•	•	47 45 300	14.15
Keder profile connector			0.7	•	•	47 99 011	5.80
Keder rail longitudinal connector incl. screws			1.3	•	•	47 99 014	16.60
Keder profile extension 250 incl. screws and nuts M12	0.25		1.6	•	•	47 99 008	16.30
Keder profile extension 500 incl. screws and nuts M12	0.50		2.5	•	•	47 99 009	23.90
Spigot fitting for lattice girder incl. 4 screws M14x65			1.5	•	•	13 88 030	13.15



Detail image:
Example of tie coupling application

The tie coupling is used for defined force transmission with steel cable binders that might have to be inserted in the roof girder.

In special cases, tie coupling can be used for fastening steel cables or tension belts as an auxiliary tensioning. With two couplings, further distributed force transmission into the bottom chord can be realised. The tie coupling can also be used as a suspension point for up to 250 kg for example in the events sector.

Article description	Length m	Width m	Weight kg	Bay lenght m		Article no.	Price €
				2.57 Alfix	2.50 Unifix		
 <p>Sponge rubber/ roof girder seal</p>				•	•	47 99 004	0.95
 <p>Sponge rubber/ Keder rail seal</p>				•	•	47 99 005	0.95
 <p>Hexagon bolt M 14 x 65 DIN 931 8.8 zinc-plated</p>				•	•	14 51 100	0.40
 <p>Acorn nut Steel DIN 1587- M14; zinc-plated</p>				•	•	73 02 003	1.05
 <p>Hexagonal socket cylinder head screw M12x30 DIN 912 8.8 zinc-plated</p>				•	•	73 01 025	0.20
 <p>Hexagon nut M 12 DIN 934 8.8 zinc-plated</p>				•	•	73 01 030	0.05
 <p>Locking pin</p>			0.1	•	•	14 50 000	0.65
<p>Ratchet strap, one-piece; 2000daN</p>	6.00	0.035		•	•	37 68 004	14.75
<p>Scaffold rope, plastic; ø 8 mm; with clamp; 4-shaft</p>	1.50 2.50			• •	• •	37 82 004 37 82 006	0.60 0.75
<p>Chord quick-lock system breaking load: 750 daN</p>	0.55	0.025		•	•	37 41 000	0.85
<p>Single-use lacing cords VPE 100 pieces; white</p>	0.30			•	•	37 40 001	0.05

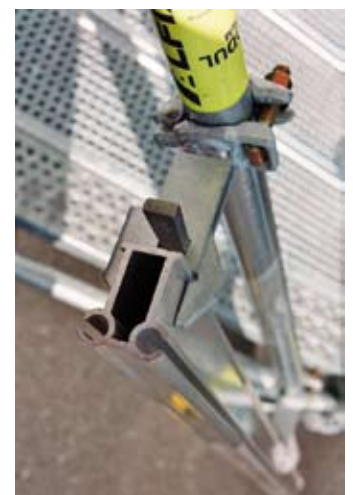
Article description	Length m	Width m	Weight kg	Bay lenght m		Article no.	Price €
				2.57 Alfix	2.50 Unifix		
Keder rail, Aluminium with tilting pin	0.50		1.8	•	•	47 75 050	14.45
Keder rail, Aluminium length: 1.80 m			5.4	•	•	47 75 180	42.55
any lenght up to 6 m			3.0	•	•	47 75 000	25.25
Keder rail holder			1.1	•	•	47 99 000	24.85
Woven fabric rail sheet	8.00	2.46	4.7		•	47 92 080	154.00
PE woven fabric;	10.00	2.46	5.9		•	47 92 100	192.50
UV-stabilised;	12.00	2.46	7.1		•	47 92 120	231.00
240 g/m ² ;	8.00	2.53	4.9	•		47 93 080	154.00
white	10.00	2.53	6.1	•		47 93 100	192.50
	12.00	2.53	7.3	•		47 93 120	231.00
PVC screen rail sheet	8.00	2.46	5.9		•	47 94 080	195.60
with transparent PVC coating	10.00	2.46	7.4		•	47 94 100	244.50
on both sides;	12.00	2.46	8.9		•	47 94 120	293.40
300 g/m ² ;	8.00	2.53	6.1	•		47 95 080	195.60
white-translucent	10.00	2.53	7.6	•		47 95 100	244.50
	12.00	2.53	9.1	•		47 95 120	293.40



The above mentioned prices for m² are exclusive of VAT and apply to the given standard dimensions only. Please contact us for information about the prices for deviating sizes and colours. The prices are special net prices.



The Keder rail is installed by applying the Keder rail holder. To insert the Keder rail into the Keder rail holder, hold the fixed part of the holder and turn the rail in from the side. When the Keder rail locks into its final position, the moveable part of the holder is automatically closed and locked around the Keder rail. Keder rail and holder are friction-locked and positive-locked to the cotter by a stroke with a hammer. Thanks to the continuously variable adjustment of the Keder rail to the scaffolding, independent of position and number of Keder rail holders, the installation is possible at any time, even afterwards. Thanks to the stable construction of the Keder rail, holders are necessary only every 2 m. This reduces the number of Keder rail holders by 1/3 and so a significant amount of installation time can be saved.

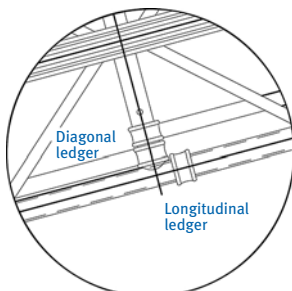




(1) Preassembly of roof girders



(2) Setting up of roof girders



Simple and fast erection

The WACO Roof Covering System 600 can be used with any scaffolding system. It is a variable modular construction and as a result offers widest scope in application as weather protection.

Thanks to its precision construction the WACO Roof Covering System 600 can be easily erected.

- (1) First the roof girders and ridge girders are preassembled. They are simply bolted together.
- (2) Afterwards the roof girders are set up - either by hand or crane depending upon size.
- (3) The roof girders can be connected to form the roof span: diagonal and longitudinal ledger ensure stable, rugged construction. As soon as the first diagonals have been fitted the roof span stands on its own.
- (4) The rail sheets are drawn in and fastened after the construction has been completely reinforced.
- (5) The roof span is now ready for setting up by crane.



(3) Reinforcement of roof girders



(4) Installation of rail sheets



(5) Setting up the roof span

The statical system for the weather protection construction is a two joint frame. The distance between ties is 2.50 m or 2.57 m, respectively. The ties are telescopic 3-truss lattice girders 600 mm in height. Roof or wall reinforcement is by means of longitudinal or diagonal ledgers.

The advantages of the WACO Roof Covering System 600

- Integration in any scaffolding system
- Modular element design
- Light, handy components in aluminium
- low transport costs
- Boltless connections to the greatest extent which means fast and economic erection
- Suitable for short period installation
- Buildings can be covered extensively with on span up to 27.50 m in width when rebuilding
- Particularly suitable for mobile halls
- Light transmissive sheeting, additional lighting not necessary
- Two sheets and ridge sheeting can be fitted: winter roof covering with heat insulation



Professional construction and weather-independent planning are important for the success of your event. The WACO Roof Covering System 600 is optimal for the following applications: PR events • Jubilee celebrations • Town festivals • Fais stands • Concerts • Catering outdoors etc.

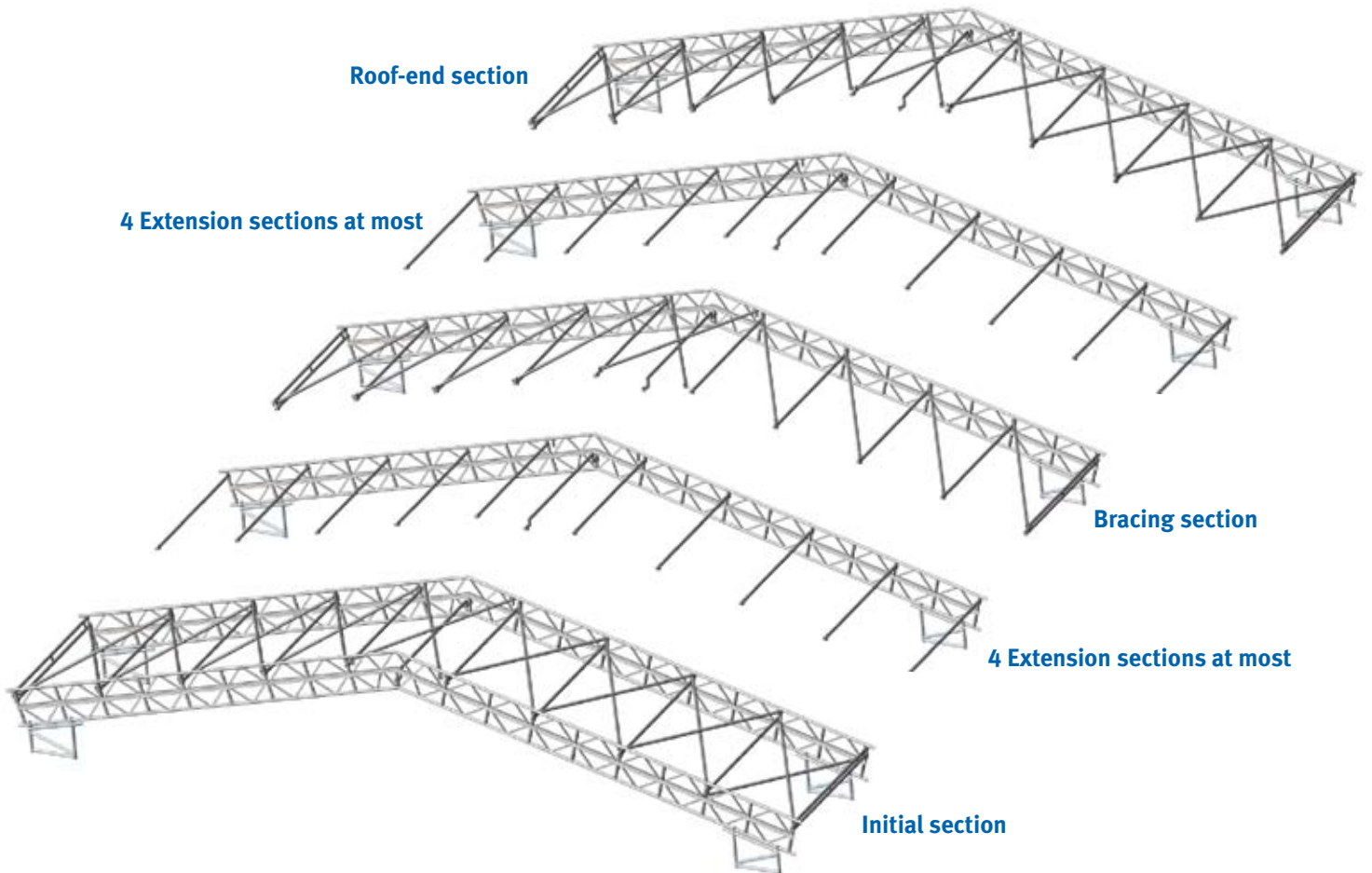
Technical data

Statical system:	two joint frame
Roof pitch:	15° with saddle roof, variable with shed roof
Connector spacing:	2.57 m or 2.50 m, respectively
Roof girders:	telescopic 3-truss lattice girders; construction height 600 mm; longitudinal grid 750 mm; top and bottom chord as well as vertical rods, scaffolding pipe, 48 mm in dia.; middle chord in rail sections with two longitudinal slots on each side
Sheeting:	Polyester approx. 590 g/m ² with welded rubber rails; flame resistant DIN 4102 B1
Roof and wall reinforcement:	longitudinal and diagonal ledgers with self-locking claws
Construction height:	according to standard statics, after this, special statical calculation necessary
Span of stationary weather protection shelters:	up to 27.50 m (outer edge of roof girder)
Span of mobile weather protection shelters:	up to 16.10 m (outer edge of roof girder)
Snow load:	up to 25 kg/m ²
Weight:	approx. 10 kg/m ²



Perfection begins in detail

Overview nominal size / top chord level example 13 m



Longitudinal ledger



Diagonal ledger



Ridge ledger



Eave bracing



Initial section (bay length 2.57 m)

Nominal width [m]			10.00	11.50	13.00	14.50	16.00	17.50	19.00	20.40	21.80	23.20	24.70	26.00	27.50
Max. span [m]			10.33	11.77	13.21	14.65	16.09	17.53	18.97	20.41	21.85	23.29	24.73	26.17	27.61
	[kg]	[€]													
Ridge girder 4.60 m	44.1	556.00	2	2	2	2	2	2	2	2	2	2	2	2	2
Roof girder 2.25 m	24.0	265.05				4									
Roof girder 3.00 m	30.8	333.75	4			4	8	4				8	8	4	
Roof girder 3.75 m	37.5	404.45		4				4	8	4		4		4	8
Roof girder 4.50 m	44.2	479.80			4					4	8		4	4	4
Longitudinal ledger	4.7	58.00	14	22	18	26	22	30	26	34	30	38	34	42	38
Diagonal ledger 2.57 x 1.50 m	5.4	62.50	20	26	26	32	32	38	38	44	44	50	50	56	56
Ridge ledger	5.1	78.00	1	1	1	1	1	1	1	1	1	1	1	1	1
Eave bracing	9.5	132.40	2	2	2	2	2	2	2	2	2	2	2	2	2
Tilting pin coupler	0.8	9.65	4	4	4	4	4	4	4	4	4	4	4	4	4
Eave ledger	4.7	18.85	2	2	2	2	2	2	2	2	2	2	2	2	2
Girder support 0.732 m	14.0	103.40	4	4	4	4	4	4	4	4	4	4	4	4	4
Head strut 8.20 m	56.7	615.05								4	4	4	4	4	4
Swivel coupler	1.3	6.15								12	12	12	12	12	12
Sponge sealing		0.95	4	4	4	8	8	8	8	8	8	12	12	12	12
Keder canvas 8.00 x 2.53 m	12.0	199.40		2	2					1	1				
Keder canvas 10.00 x 2.53 m	15.0	249.25				2	2			2	2	3	3	1	1
Keder canvas 12.00 x 2.53 m	17.0	299.10	1					2	2					2	2
Scaffold rope 1.50 m		0.60		4	4	4	4	4	4	8	8	8	8	8	8
Chord: quick-lock system		0.85	14	14	14	14	14	14	14	14	14	14	14	14	14
Weight approx. [kg]			494.9	598.7	606.7	725.1	733.5	834.3	842.3	1189.5	1197.5	1313.3	1321.3	1422.1	1430.1
Total price [€]			5656.50	6880.40	6949.80	8368.30	8411.10	9632.60	9683.40	13459.90	13529.30	14871.35	14940.75	16162.25	16213.05

Initial section (bay length 2.50 m)

Nominal width [m]			10.00	11.50	13.00	14.50	16.00	17.50	19.00	20.40	21.80	23.20	24.70	26.00	27.50
Max. span [m]			10.33	11.77	13.21	14.65	16.09	17.53	18.97	20.41	21.85	23.29	24.73	26.17	27.61
	[kg]	[€]													
Keder canvas 8.00 x 2.46 m	12.0	193.85		2	2					1	1				
Keder canvas 10.00 x 2.46 m	15.0	242.35				2	2			2	2	3	3	1	1
Keder canvas 12.00 x 2.46 m	17.0	290.75	1					2	2					2	2
Weight approx. [kg]			490.0	592.4	600.8	717.8	726.6	826.0	834.4	1180.2	1188.6	1303.0	1311.4	1410.8	1419.2
Total price [€]			5637.35	6858.50	6927.90	8343.70	8386.50	9605.10	9655.90	13429.75	13499.15	14839.85	14909.25	16127.85	16178.65

Extension section (bay length 2.57 m)

Nominal width [m]			10.00	11.50	13.00	14.50	16.00	17.50	19.00	20.40	21.80	23.20	24.70	26.00	27.50
Max. span [m]			10.33	11.77	13.21	14.65	16.09	17.53	18.97	20.41	21.85	23.29	24.73	26.17	27.61
	[kg]	[€]													
Ridge girder 4.60 m	44.1	556.00	1	1	1	1	1	1	1	1	1	1	1	1	1
Roof girder 2.25 m	24.0	265.05				2									
Roof girder 3.00 m	30.8	333.75	2			2	4	2				4	4	2	
Roof girder 3.75 m	37.5	404.45		2				2	4	2		2		2	4
Roof girder 4.50 m	44.2	479.80			2					2	4		2	2	2
Longitudinal ledger	4.7	58.00	12	16	16	18	18	20	20	24	24	26	26	28	28
Diagonal ledger 2.57 x 1.50 m	5.4	62.50													
Ridge ledger	5.1	78.00	1	1	1	1	1	1	1	1	1	1	1	1	1
Eave bracing	9.5	132.40													
Tilting pin coupler	0.8	9.65	2	2	2	2	2	2	2	2	2	2	2	2	2
Eave ledger	4.7	18.85	2	2	2	2	2	2	2	2	2	2	2	2	2
Girder support 0.732 m	14.0	103.40	2	2	2	2	2	2	2	2	2	2	2	2	2
Head strut 8.20 m	56.7	615.05								2	2	2	2	2	2
Swivel coupler	1.3	6.15								6	6	6	6	6	6
Sponge sealing		0.95	2	2	2	4	4	4	4	4	4	6	6	6	6
Keder canvas 8.00 x 2.53 m	12.0	199.40		2	2					1	1				
Keder canvas 10.00 x 2.53 m	15.0	249.25				2	2			2	2	3	3	1	1
Keder canvas 12.00 x 2.53 m	17.0	299.10	1					2	2					2	2
Scaffold rope 1.50 m		0.60		4	4	4	4	4	4	8	8	8	8	8	8
Chord: quick-lock system		0.85	14	14	14	14	14	14	14	14	14	14	14	14	14
Weight approx. [kg]			223.2	262.4	275.8	312.4	326.0	352.8	366.2	527.6	541.0	574.8	588.2	615.0	628.4
Total price [€]			2574.20	3049.70	3200.40	3656.00	3793.40	4150.50	4291.90	6043.70	6194.40	6586.85	6737.55	7094.65	7236.05

Extension section (bay length 2.50 m)

Nominal width [m]			10.00	11.50	13.00	14.50	16.00	17.50	19.00	20.40	21.80	23.20	24.70	26.00	27.50
Max. span [m]			10.33	11.77	13.21	14.65	16.09	17.53	18.97	20.41	21.85	23.29	24.73	26.17	27.61
	[kg]	[€]													
Keder canvas 8.00 x 2.46 m	12.0	193.85		2	2					1	1				
Keder canvas 10.00 x 2.46 m	15.0	242.35				2	2			2	2	3	3	1	1
Keder canvas 12.00 x 2.46 m	17.0	290.75	1					2	2					2	2
Weight approx. [kg]			220.9	259.7	273.1	309.5	323.1	349.7	363.1	524.1	537.5	571.1	584.5	611.1	624.5
Total price [€]			2555.05	3027.80	3178.50	3631.40	3768.80	4123.00	4264.40	6013.55	6164.25	6555.35	6706.05	7060.25	7201.65

Bracing section (bay length 2.57 m)

Nominal width [m]			10.00	11.50	13.00	14.50	16.00	17.50	19.00	20.40	21.80	23.20	24.70	26.00	27.50
Max. span [m]			10.33	11.77	13.21	14.65	16.09	17.53	18.97	20.41	21.85	23.29	24.73	26.17	27.61
	[kg]	[€]													
Ridge girder 4.60 m	44.1	556.00	1	1	1	1	1	1	1	1	1	1	1	1	1
Roof girder 2.25 m	24.0	265.05				2									
Roof girder 3.00 m	30.8	333.75	2			2	4	2				4	4	2	
Roof girder 3.75 m	37.5	404.45		2				2	4	2		2		2	4
Roof girder 4.50 m	44.2	479.80			2					2	4		2	2	2
Longitudinal ledger	4.7	58.00	14	22	18	26	22	30	26	34	30	38	34	42	38
Diagonal ledger 2.57 x 1.50 m	5.4	62.50	14	18	18	22	22	26	26	30	30	34	34	38	38
Ridge ledger	5.1	78.00	1	1	1	1	1	1	1	1	1	1	1	1	1
Eave bracing	9.5	132.40	2	2	2	2	2	2	2	2	2	2	2	2	2
Tilting pin coupler	0.8	9.65	2	2	2	2	2	2	2	2	2	2	2	2	2
Eave ledger	4.7	18.85	2	2	2	2	2	2	2	2	2	2	2	2	2
Girder support 0.732 m	14.0	103.40	2	2	2	2	2	2	2	2	2	2	2	2	2
Head strut 8.20 m	56.7	615.05								2	2	2	2	2	2
Swivel coupler	1.3	6.15								6	6	6	6	6	6
Sponge sealing	0.95		2	2	2	4	4	4	4	4	4	6	6	6	6
Keder canvas 8.00 x 2.53 m	12.0	199.40		2	2					1	1				
Keder canvas 10.00 x 2.53 m	15.0	249.25				2	2			2	2	3	3	1	1
Keder canvas 12.00 x 2.53 m	17.0	299.10	1					2	2					2	2
Scaffold rope 1.50 m	0.60			4	4	4	4	4	4	8	8	8	8	8	8
Chord: quick-lock system	0.85		14	14	14	14	14	14	14	14	14	14	14	14	14
Weight approx. [kg]			327.2	406.8	401.4	487.8	482.6	559.2	553.8	755.6	750.2	833.8	828.4	905.0	899.6
Total price [€]			3830.00	4787.50	4706.20	5759.80	5665.20	6620.30	6529.70	8763.50	8682.20	9672.65	9591.35	10546.45	10455.85

Bracing section (bay length 2.50 m)

Nominal width [m]			10.00	11.50	13.00	14.50	16.00	17.50	19.00	20.40	21.80	23.20	24.70	26.00	27.50
Max. span [m]			10.33	11.77	13.21	14.65	16.09	17.53	18.97	20.41	21.85	23.29	24.73	26.17	27.61
	[kg]	[€]													
Keder canvas 8.00 x 2.46 m	12.0	193.85		2	2					1	1				
Keder canvas 10.00 x 2.46 m	15.0	242.35				2	2			2	2	3	3	1	1
Keder canvas 12.00 x 2.46 m	17.0	290.75	1					2	2					2	2
Weight approx. [kg]			322.9	401.3	396.3	481.5	476.7	552.1	547.1	747.7	742.7	825.1	820.1	895.5	890.5
Total price [€]			3810.85	4765.60	4684.30	5735.20	5640.60	6592.80	6502.20	8733.35	8652.05	9641.15	9559.85	10512.05	10421.45

Roof-end section (bay length 2.57 m)

Nominal width [m]			10.00	11.50	13.00	14.50	16.00	17.50	19.00	20.40	21.80	23.20	24.70	26.00	27.50
Max. span [m]			10.33	11.77	13.21	14.65	16.09	17.53	18.97	20.41	21.85	23.29	24.73	26.17	27.61
	[kg]	[€]													
Ridge girder 4.60 m	44.1	556.00	1	1	1	1	1	1	1	1	1	1	1	1	1
Roof girder 2.25 m	24.0	265.05				2									
Roof girder 3.00 m	30.8	333.75	2			2	4	2				4	4	2	
Roof girder 3.75 m	37.5	404.45		2				2	4	2		2		2	4
Roof girder 4.50 m	44.2	479.80			2					2	4		2	2	2
Longitudinal ledger	4.7	58.00	14	22	18	26	22	30	26	34	30	38	34	42	38
Diagonal ledger 2.57 x 1.50 m	5.4	62.50	20	26	26	32	32	38	38	44	44	50	50	56	56
Ridge ledger	5.1	78.00	1	1	1	1	1	1	1	1	1	1	1	1	1
Eave bracing	9.5	132.40	2	2	2	2	2	2	2	2	2	2	2	2	2
Tilting pin coupler	0.8	9.65	2	2	2	2	2	2	2	2	2	2	2	2	2
Eave ledger	4.7	18.85	2	2	2	2	2	2	2	2	2	2	2	2	2
Girder support 0.732 m	14.0	103.40	2	2	2	2	2	2	2	2	2	2	2	2	2
Head strut 8.20 m	56.7	615.05								2	2	2	2	2	2
Swivel coupler	1.3	6.15								6	6	6	6	6	6
Sponge sealing		0.95	2	2	2	4	4	4	4	4	4	6	6	6	6
Keder canvas 8.00 x 2.53 m	12.0	199.40		2	2					1	1				
Keder canvas 10.00 x 2.53 m	15.0	249.25				2	2			2	2	3	3	1	1
Keder canvas 12.00 x 2.53 m	17.0	299.10	1					2	2					2	2
Scaffold rope 1.50 m		0.60		4	4	4	4	4	4	8	8	8	8	8	8
Chord: quick-lock system		0.85	14	14	14	14	14	14	14	14	14	14	14	14	14
Weight approx. [kg]			359.6	450.0	444.6	541.8	536.6	624.0	618.6	831.2	825.8	920.2	914.8	1002.2	996.8
Total price [€]			4205.00	5287.50	5206.20	6384.80	6290.20	7370.30	7279.70	9638.50	9557.20	10672.65	10591.35	11671.45	11580.85

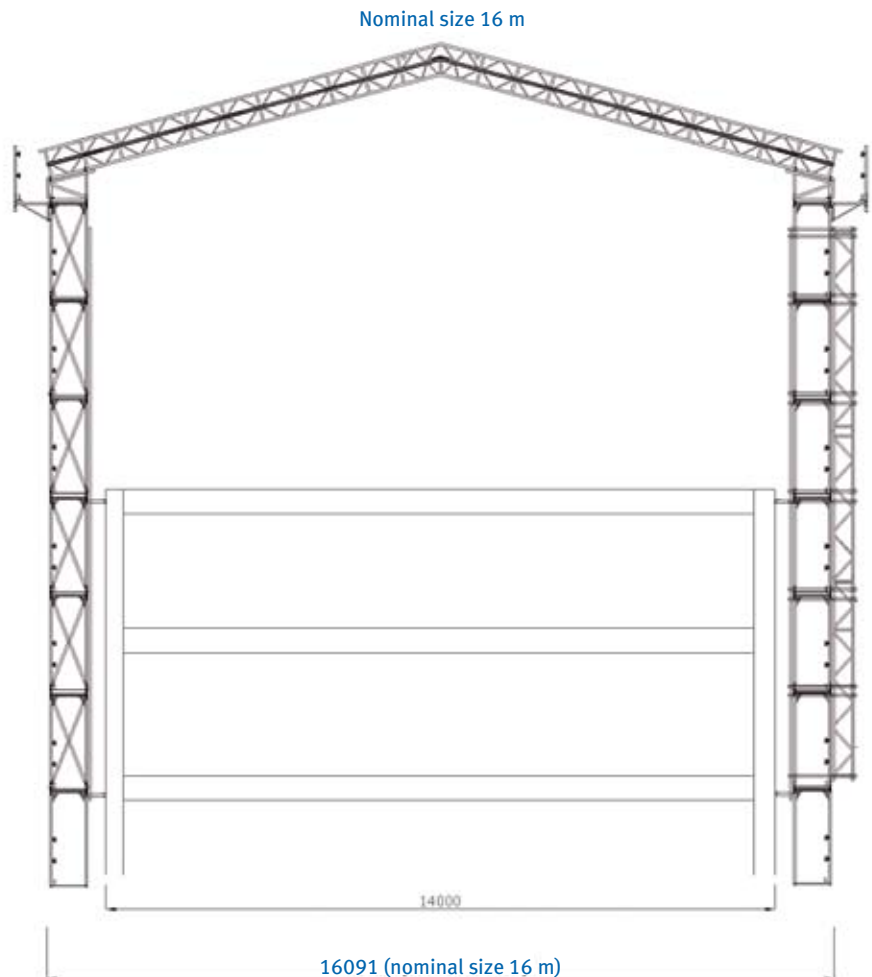
Roof-end section (bay length 2.50 m)

Nominal width [m]			10.00	11.50	13.00	14.50	16.00	17.50	19.00	20.40	21.80	23.20	24.70	26.00	27.50
Max. span [m]			10.33	11.77	13.21	14.65	16.09	17.53	18.97	20.41	21.85	23.29	24.73	26.17	27.61
	[kg]	[€]													
Keder canvas 8.00 x 2.46 m	12.0	193.85		2	2					1	1				
Keder canvas 10.00 x 2.46 m	15.0	242.35				2	2			2	2	3	3	1	1
Keder canvas 12.00 x 2.46 m	17.0	290.75	1					2	2					2	2
Weight approx. [kg]			354.7	443.7	438.7	534.5	529.7	615.7	610.7	821.9	816.9	909.9	904.9	990.9	985.9
Total price [€]			4185.85	5265.60	5184.30	6360.20	6265.60	7342.80	7252.20	9608.35	9527.05	10641.15	10559.85	11637.05	11546.45

Size of building:

- Width 14.0 m
- Length 23.0 m

- Span width 16.10 m
(Size of building + 2x projection + 2x width of scaffolding 0.73 m)
- Roof length 25.70 m
(10 sections of 2,57 m each incl. projecting end over scaffolding on gable end)
- Roof area 413.77 m²
- Projection of support structure due to construction reasons above last anchorage 6.00 m



Calculation of construction time:

(according to experience)

You may find information about cantilever construction characteristics, anchorage and all necessary details for installation in the instructions for installation and use.

Construction time
with four member of staff:

$$413.77 \text{ m}^2 \div \emptyset 3.5 \text{ m}^2 * = 118.22 \text{ h}$$

*(estimated time of installation and dismantling 2.5 m² to 4.5 m² per h and member of staff = $\emptyset 3.5 \text{ m}^2$)

Subdivided in:

$$2/3 \text{ installation} = 78.80 \text{ h} \div 4 \text{ members of staff} = 19.70 \text{ h}$$

$$1/3 \text{ dismantling} = 39.40 \text{ h} \div 4 \text{ members of staff} = 9.85 \text{ h}$$

Furthermore, extra reinforcement and anchoring of the support structure has to be calculated with at least 35% additionally to the square meter price. This area of the scaffold (cantilever) corresponds to [support structure projection above last anchorage x 2] x [scaffold length] corresponds to 308.40 m² per side in the example. Furthermore, costs for crane(s) have to be taken into consideration. This depends on whether the roof sections can be pre-mounted locally or have to be set up individually. Please consider that the construction time depends heavily on the local conditions. The values given should only be taken as reference.



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Selling:

- Work & safety scaffoldings
- Mobile scaffold towers
- Construction equipment
- Brickwork platforms
- Roofing systems
- Stages & platforms
- Chimney scaffolds
- Shelves
- Accessories

Leasing:

- Work & safety scaffoldings (ALFIX system)
- Mobile scaffold towers
- Roofing systems
- Stages & platforms
- Chimney scaffolds

Manufacturer's agent:
