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Catalogue ALFIX MODUL METRIC

Edition: October 2023





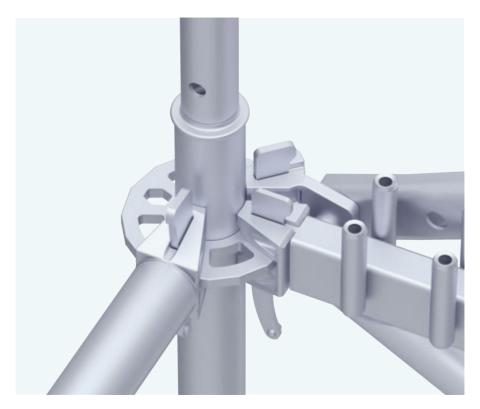
Key element of the ALFIX MODUL METRIC system is the ALFIX modular connector: the rosette. Proven wedge lock connection for time-saving and bolt-free assembly thanks to positive and non-positive connections. Rosettes at every 50 cm with eight openings permit connections at any angle. This design offers a very high fitting performance.

Please refer to technical approval Z-8.22-932 for load-bearing capacity and rigidity of the node connection.

ALFIX MODUL METRIC SCAFFOLDING SYSTEM

The "ALFIX MODUL METRIC" modular scaffolding system offers an impressive range of uses: for façade and industrial scaffolding and support structures. The highest degree of intelligent technology and an easy-to-handle system allow users to quickly assemble economical and versatile scaffolding constructions.

It can be flexibly adapted to accommodate complicated layouts and different heights when scaffolding structures. ALFIX modular systems are available in two versions (ALFIX MODUL MULTI with dimensions of 1.57 - 2.07 - 2.57 - 3.07 m and ALFIX MODUL METRIC with dimensions of 1.50 - 2.00 - 2.50 - 3.00 m).



Rosette made of steel with four small openings for right-angled connections (ledgers) and four larger openings for connections at any angle (ledgers and diagonal braces). Please refer to page 38 for detailed information on loadbearing capacity of the rosette.

Technical Approval:



Please refer to approval Z-8.22-932 for assembly versions in façade scaffolding with bay width 0.74 m (load class 3).

VERTICAL SUPPORT ELEMENTS

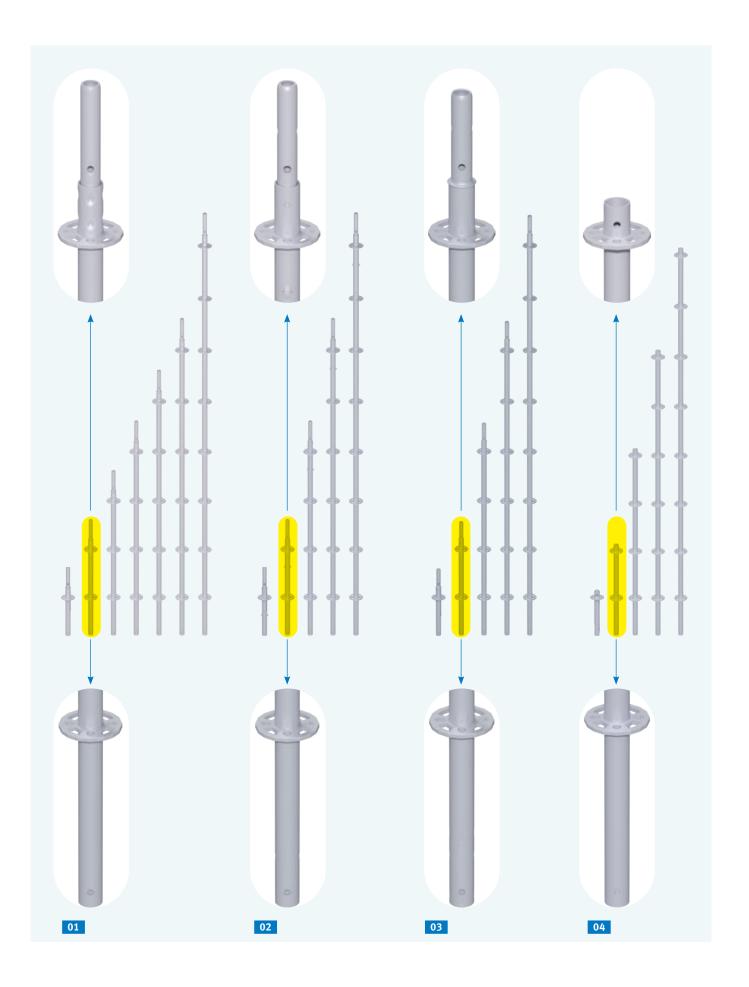
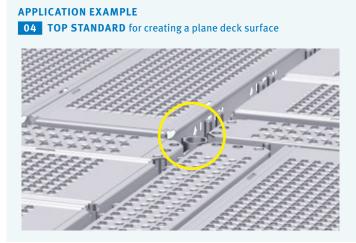
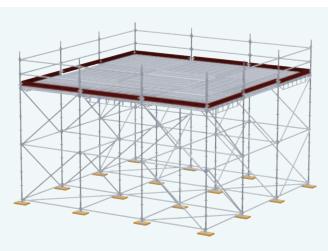


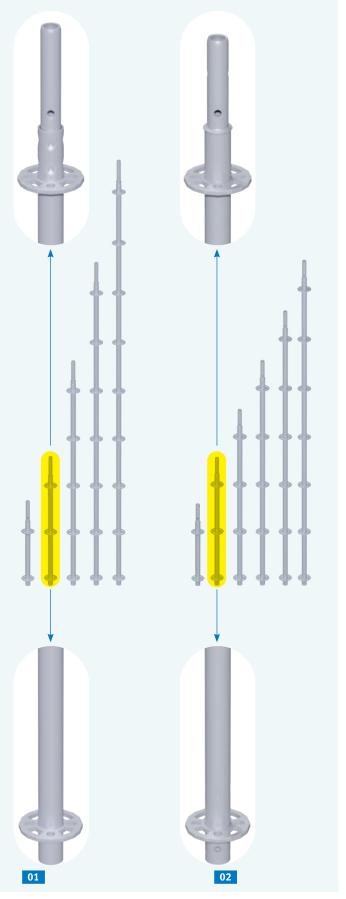
FIG.	DESCRIPTION	DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.
01	Standard with pressed-in tube connector (TC)* steel tube ø 48.3 × 3.2 mm; hot-dip galvanised — with rosettes at every 50 cm — first rosette at 40 cm from the bottom of the standard	0.50 1.00 1.50 2.00 2.50 3.00	3.2 5.5 7.7 10.1 12.3 14.6	40 04 050 40 04 100 40 04 150 40 04 200 40 04 250 40 04 300
02	Standard with screwed-in tube connector (TC)* steel tube ø 48. × 3.2 mm; hot-dip galvanised for suspended scaffolding special screws included with rosettes at every 50 cm first rosette at 40 cm from the bottom of the standard 	4.00 0.50 1.00 1.50 2.00 2.50 3.00 4.00	19.2 4.0 6.2 8.5 10.8 13.0 15.3 19.9	40 04 400 40 05 050 40 05 100 40 05 150 40 05 200 40 05 250 40 05 300 40 05 400
03	 Standard with integrated tube connector (TC)* steel tube ø 48.3 × 3.2 mm; hot-dip galvanised for suspended scaffolding with rosettes at every 50 cm first rosette at 40 cm from the bottom of the standard 	0.50 1.00 1.50 2.00 2.50 3.00 4.00	2.9 5.1 7.4 9.6 11.9 14.1 18.6	40 09 050 40 09 100 40 09 150 40 09 200 40 09 250 40 09 300 40 09 400
04	Top standard * ● steel tube Ø 48.3 × 3.2 mm; hot-dip galvanised — without tube connector (TC) — with rosettes at every 50 cm — first rosette at 40 cm from the bottom of the standard	0.46 0.96 1.96 2.96 3.96	1.9 4.0 8.3 12.5 16.8	48 30 046 48 30 096 48 30 196 48 30 296 48 30 396

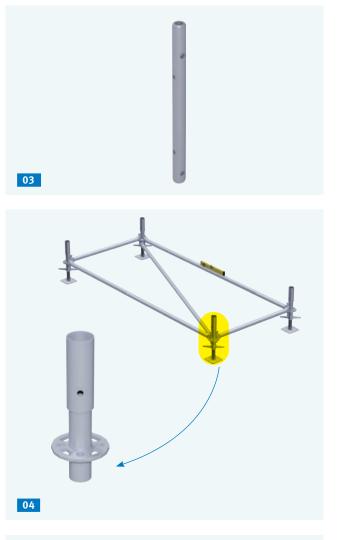
Standards without tube connector available upon request. *please refer to page 39 for the load-bearing capacity of the standards





VERTICAL SUPPORT ELEMENTS





APPLICATION EXAMPLE 02 VERTICAL STARTER STANDARD

- for tube ledger suspension

- first rosette at 7.0 cm from the bottom of the standard

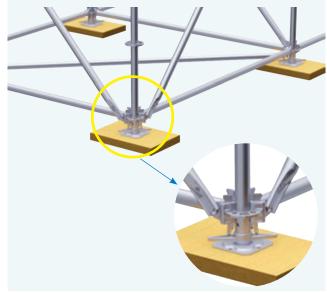
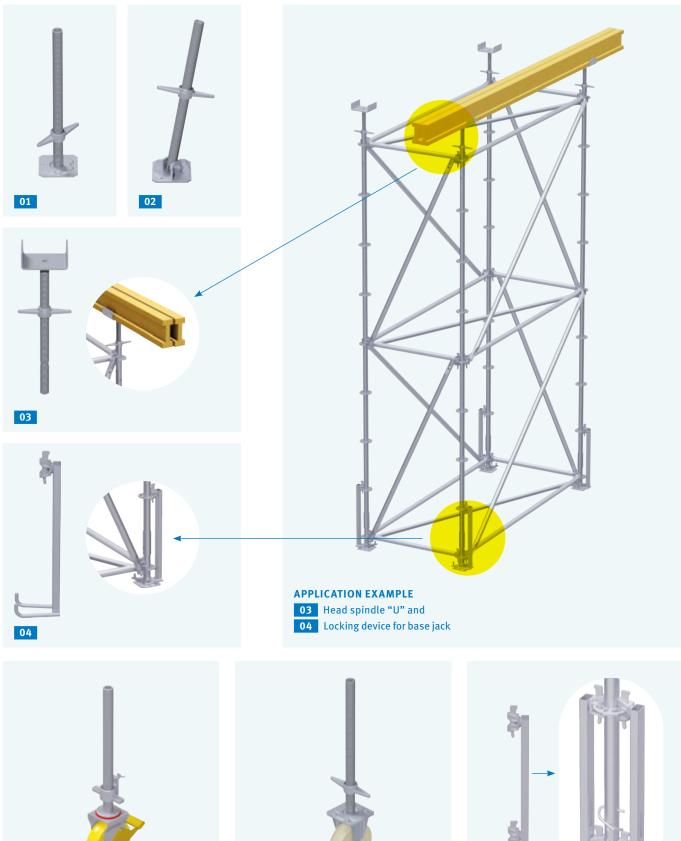


FIG.	DESCRIPTION		DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.
01	steel tube ø 48.3 × 3.2 mm; hot-dip galvanised — upon request also available with screwed-in TC		0.66	3.9	48 15 066
			1.16	6.0	48 15 116
			2.16	10.2	48 15 216
	 with rosettes at every 50 cm first rosette at 7.0 cm from the bottom of the stan 	dard	3.16	13.8	48 15 316
			4.16	14.4	48 15 416
02	 Vertical starter standard with integrated tube connector (TC)* steel tube ø 48.3 × 3.2 mm; hot-dip galvanised for suspended scaffolding with rosettes at every 50 cm first rosette at 7.0 cm from the bottom of the standard 		0.66	4.0	40 08 066
			1.16	6.2	40 08 116
			1.66	8.5	40 08 166
			2.16	10.7	40 08 216
			2.66	13.0	40 08 266
			3.16	15.2	40 08 316
03	Tube connector steel tube; hot-dip galvanised;	Spare part for standard with screwed on tube connector	0.52	1.7	83 40 050
	Spare part for standard	Spare part for standard 0.50 m with screwed on tube connector	0.50	1.6	83 40 051
04	Base collar steel; hot-dip galvanised		0.41	1.8	40 00 041
	 allows for easy horizontal fitting standards can be assembled by one person only 				
Standa	rds without tube connector available upon request.				

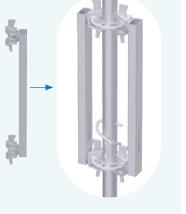
*please refer to page 39 for the load-bearing capacity of the standards



VERTICAL SUPPORT ELEMENTS

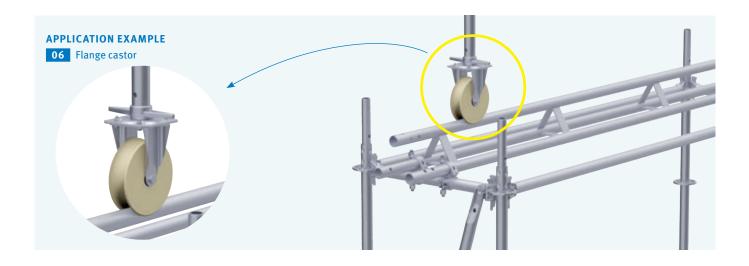




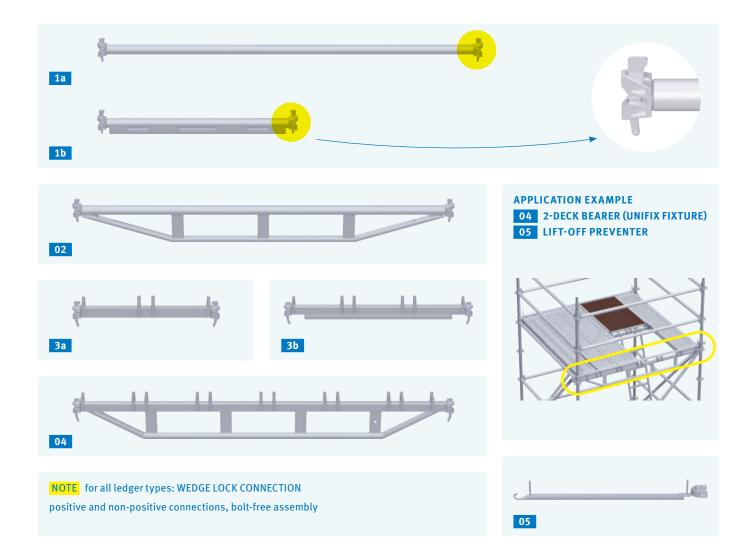


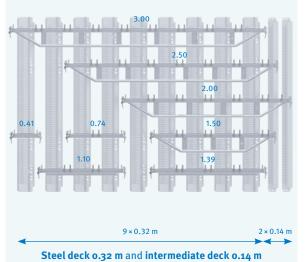
05

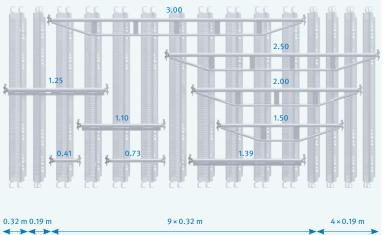
FIG.	DESCRIPTION	SPINDLE TRAVEL [m]	DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.
01	Base jack steel; hot-dip galvanised	0.25	0.40	3.0	11 51 040
		0.45	0.60	3.6	11 51 060
	 baseplate 15 × 15 cm with smooth running tubular spindle and toggle nut with locking function to prevent unfastening 	0.60	0.80	4.4	11 51 080
02	Base jack, swivelling steel; hot-dip galvanised	0.45	0.60	4.5	11 52 060
03	Head spindle "U" 🕀 steel; hot-dip galvanised	0.45	0.60	6.0	41 59 000
	 opening dimension 174 mm, fork width 160 mm, depth 62 mm with boreholes for fixing formwork girders 	0.75	1.00	8.0	41 59 100
04	Locking device for base jack 🕀 steel; hot-dip galvanised		0.65	3.5	41 52 003
	 ensures tight fit of base jack during crane operations 				
05	Castor steel; galvanised; wheel type: plastic ø 200 mm — with twinbrake lever — permissible load 10 kN — load centering — wing nut with lock	0.35	0.50	6.5	14 12 007
06	Flange castor steel; galvanised; wheel type: plastic ø 200 m — permissible load 7 kN	0.45	0.70	6.7	14 12 005
07	Suspended scaffolding connector steel; hot-dip galvanised		0.60	3.0	48 75 060
	 for securing the connection of standards Installation always in pairs! 		0.80	3.6	48 75 080
08	Hexagon bolt M12 × 60 mm steel; galvanised; incl. hexagon nut M12, self-locking (not shown)			0.05	73 01 260



HORIZONTAL SUPPORT ELEMENTS / SIDE PROTECTION







Steel deck with tube fixture 0.32 m and intermediate deck with tube fixture 0.19 m

APPLICATION EXAMPLE: LEDGER CONFIGURATION

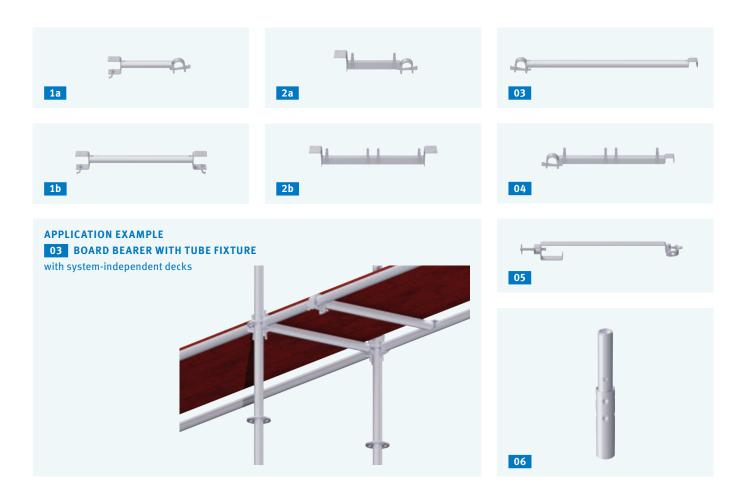
- 3a Deck bearer
- 3b Deck bearer, reinforced
- 04 2-deck bearer

- **APPLICATION EXAMPLE: LEDGER CONFIGURATION** Tube ledger, reinforced 1b
- 02 Double tube ledger

FIG. DIMENSIONS WEIGHT ARTICLE NO 01 Tube ledger ● approx.[kg] approx.[kg] 01 Tube ledger ● 0.41 2.0 48 60 040 0.50 2.4 48 60 074 0.50 2.4 48 60 074 0.50 2.4 48 60 074 0.75 3.2 48 60 074 0.75 3.2 48 60 074 0.75 3.2 48 60 100 1.00 4.2 48 60 100 0.75 3.2 48 60 100 1.10 4.4 48 60 100 1.10 4.4 48 60 100 1.25 5.1 48 60 100 1.10 4.4 48 60 100 1.10 4.4 48 60 100 1.10 4.4 48 60 100 1.10 4.4 48 60 100 1.10 4.4 48 60 100 1.25 5.1 48 60 100 1.10 4.4 48 60 100 1.25 5.1 48 60 100 1.10 4.4 48 60 100 2.00 7.9 48 60 200 2.00 1.5 48 60 200 2.00 1.5 48 60 200
steel tube a 48.3 mm x 3.2 mm; hot-dip galvanised 0.41 2.0 48 60 040 - for use as horizontal connecting element, side protection and - in reinforced design - as deck bearer 0.50 2.4 48 60 050 - colour coding clearly indicates the bay length (see p. 18) 0.74 3.2 48 60 074 - reinforced ledgers are capable of bearing higher loads 100 4.2 48 60 100 1.10 4.4 48 60 100 1.25 5.1 48 60 100 1.25 5.1 48 60 100 1.25 5.1 48 60 100 1.25 5.1 48 60 100 1.25 5.1 48 60 100 1.25 5.1 48 60 100 1.25 5.1 48 60 100 1.26 6.0 48 60 100 1.25 5.1 48 60 100 1.26 6.0 48 60 100 1.20 7.9 48 60 200 2.00 1.15 48 60 200 2.00 1.15 48 60 200 2.10 1.15 48 60 200 2.10 1.15 48 61 100 1.25 <td< td=""></td<>
steel tube a 48.3 mm x 3.2 mm; hot-dip galvanised 0.41 2.0 48 60 040 - for use as horizontal connecting element, side protection and - in reinforced design - as deck bearer 0.50 2.4 48 60 050 - colour coding clearly indicates the bay length (see p. 18) 0.74 3.2 48 60 074 - reinforced ledgers are capable of bearing higher loads 1.00 4.2 48 60 075 1.00 4.2 48 60 100 1.10 4.4 48 60 100 1.25 5.1 48 60 100 1.25 5.1 48 60 100 1.25 5.1 48 60 100 1.25 5.1 48 60 100 1.25 5.1 48 60 100 1.25 5.1 48 60 100 1.26 6.0 48 60 100 1.25 5.1 48 60 100 1.26 7.1 48 60 200 2.00 7.9 48 60 200 2.00 1.15 48 60 200 2.00 1.15 48 60 200 2.00 1.44 60 400 1.10 6.1 48 61 100 1.25 7.
side protection and · in reinforced design · as deck bearer 0.74 3.2 486 0074 - colour coding clearly indicates the bay length (see p. 18) 0.75 3.2 486 0075 - reinforced ledgers are capable of bearing higher loads 1.00 4.2 486 0100 1.10 4.4 486 0100 1.10 4.4 486 0100 1.10 4.4 486 0100 1.25 5.1 486 0100 1.25 5.1 486 0100 1.25 5.1 486 0100 1.25 5.1 486 0100 1.25 5.1 486 0100 1.20 4.4 486 0100 1.25 5.1 486 0100 1.20 7.9 486 0100 1.50 6.0 486 0100 2.00 7.9 486 0100 2.00 1.50 8.0 2.00 1.50 8.0 2.00 1.50 8.0 1.00 4.4 4.80 0100 1.5 1.50 9.7 4.86 0100 1.25 7.1 4.86 1100 1.25 7.1 4.86 1120 1.25 7.1 4.86 1120 1.25 7.1 4.86 1120 2.00 1.2.9
 colour coding clearly indicates the bay length (see p. 18) reinforced ledgers are capable of bearing higher loads reinforced ledgers are capable of bearing higher loads 0.75 3.2 48 60 075 1.00 4.2 48 60 100 1.10 4.4 48 60 110 1.25 5.1 48 60 125 1.39 5.6 48 60 126 1.39 5.6 48 60 126 1.39 5.6 48 60 100 1.25 5.1 48 60 100 1.25 5.1 48 60 100 1.25 5.1 48 60 100 2.00 7.9 48 60 200 2.00 7.9 48 60 200 2.00 1.10 6.1 48 60 100 1.50 6.0 48 60 100 1.50 1.10 4.8 60 100 1.25 7.1 48 61 200 2.50 1.59 48 61 200 3.00 1.53 48 61 200 3.00 1.59 48 61 200
 reinforced ledgers are capable of bearing higher loads - reinforced ledgers are capable of bearing higher loads - reinforced ledgers are capable of bearing higher loads - 100 4.2 48 60 100 1.10 4.4 48 60 110 1.25 5.1 48 60 125 1.39 5.6 48 60 100 1.50 6.0 48 60 100 1.50 6.0 48 60 100 1.50 6.0 48 60 100 2.00 7.9 48 60 200 2.50 9.7 48 60 200 2.50 9.7 48 60 200 2.50 9.7 48 60 200 2.50 1.10 6.1 48 60 100 1.25 7.1 48 61 200 1.50 9.7 48 61 200 2.50 15.9 48 61 200

 1.25 5.1 48 60 125 1.39 5.6 48 60 140 1.50 6.0 48 60 140 1.50 6.0 48 60 120 2.00 7.9 48 60 200 2.50 9.7 48 60 300 4.00 1.15 48 60 300 4.00 1.4 48 60 300 4.00 1.14 48 60 300 4.00 1.14 48 61 125 1.39 7.9 48 61 139 1.39 7.9 48 61 139 2.00 1.25 1.39 48 61 139 2.00 1.29 48 61 200 2.50 1.59 48 61 200<
1.39 5.6 48 60 140 1.50 6.0 48 60 150 2.00 7.9 48 60 200 2.50 9.7 48 60 200 2.50 9.7 48 60 300 4.00 14.1 48 60 400 4.00 14.1 48 60 400 4.00 14.1 48 60 400 1.15 7.1 48 61 125 1.10 6.1 48 61 125 1.39 7.9 48 61 125 1.39 7.9 48 61 125 1.39 7.9 48 61 125 1.39 7.9 48 61 200 2.00 12.9 48 61 200 2.00 12.9 48 61 200 2.00 12.9 48 61 200 2.50 15.9 48 61 200 2.50 15.9 48 61 200 2.50 15.9 48 61 200 2.50 15.9 48 61 200 3.00 19.3 48 61 300 3.00 19.3 48 61 300 3.5 5teel; hot-dip galvanised 1-deck 0.74
1.50 6.0 48 60 150 2.00 7.9 48 60 200 2.50 9.7 48 60 200 2.50 9.7 48 60 200 3.00 11.5 48 60 300 4.00 14.1 48 60 400 4.00 14.1 48 60 400 1.00 6.1 48 61 110 1.25 7.1 48 61 125 1.39 7.9 48 61 125 1.39 7.9 48 61 125 1.39 7.9 48 61 200 2.00 12.9 48 61 200 2.00 12.9 48 61 200 2.50 15.9 48 61 200 2.50 15.9 48 61 200 2.50 15.9 48 61 200 2.50 15.9 48 61 200 2.50 15.9 48 61 200 2.50 15.9 48 61 200 2.50 15.9 48 61 200 3.00 19.3 48 61 200 2.50 15.9 48 61 200 2.50 15.9 48 61 200 3.00
2.00 7.9 48 60 200 2.50 9.7 48 60 200 2.50 9.7 48 60 200 3.00 11.5 48 60 300 4.00 14.1 48 60 400 4.00 14.1 48 60 400 10 6.1 48 61 125 1.25 7.1 48 61 125 1.39 7.9 48 61 125 1.39 7.9 48 61 125 1.39 7.9 48 61 125 1.39 7.9 48 61 200 2.00 12.9 48 61 200 2.00 12.9 48 61 200 2.00 12.9 48 61 200 2.00 12.9 48 61 200 2.00 12.9 48 61 200 2.00 12.9 48 61 200 2.00 19.3 48 61 200 3.00 19.3 48 61 300 103 Deck bearer (UNIFIX fixture) + 48 65 040 48 65 040 3.00 19.3 48 65 040 2-deck 0.74 3.9
2.50 9.7 48 60 250 3.00 11.5 48 60 300 4.00 14.1 48 60 400 4.00 14.1 48 60 400 1b Tube ledger, reinforced 1.10 6.1 48 61 110 1.25 7.1 48 61 125 1.39 7.9 48 61 139 02 Double tube ledger \blacklozenge steel tube ø 48.3 mm × 3.2 mm; hot-dip galvanised 1.50 9.7 48 61 150 - for higher loads - receiving element for decks with tube suspension 1.50 9.7 48 61 250 3.00 12.9 48 61 250 3.00 12.9 48 61 250 - receiving element for decks with tube suspension 2.50 15.9 48 61 250 3.00 19.3 48 61 300 3.00 19.3 48 65 040 steel; hot-dip galvanised 3a 1-deck 0.41 2.3 48 65 040
3.00 11.5 48 60 300 4.00 14.1 48 60 400 4.00 14.1 48 60 400 1b Tube ledger, reinforced 1.10 6.1 48 61 125 1.25 7.1 48 61 125 1.39 7.9 48 61 139 02 Double tube ledger • 1.50 9.7 48 61 150 steel tube ø 48.3 mm × 3.2 mm; hot-dip galvanised - 1.50 9.7 48 61 250 - for higher loads - 1.50 12.9 48 61 250 - receiving element for decks with tube suspension 2.50 15.9 48 61 250 3.00 19.3 48 61 300 3.00 19.3 48 65 040 steel; hot-dip galvanised 3a 1-deck 0.41 2.3 48 65 040
10 14.1 48 60 400 110 1.10 6.1 48 61 100 1.25 7.1 48 61 125 1.39 7.9 48 61 139 102 Double tube ledger \$ 1.50 9.7 48 61 150 1.39 7.9 48 61 250 2.00 12.9 48 61 250 1.50 9.7 48 61 250 2.00 12.9 48 61 250 1.50 9.7 48 61 250 2.00 12.9 48 61 250 1.50 9.7 48 61 250 2.00 12.9 48 61 250 1.50 9.7 48 61 300 2.00 12.9 48 61 200 1.50 9.7 48 61 300 2.00 12.9 48 61 200 1.50 9.7 48 61 300 2.00 19.3 48 61 300 1.50 9.7 48 61 300 3.00 19.3 48 61 300 1.50 9.7 48 61 300 3.00 19.3 48 65 040 1.50 9.7 48 65 040 2.40 0.74 3.9 48 65 040
1b Tube ledger, reinforced 1.10 6.1 48 61 110 1.25 7.1 48 61 125 1.39 7.9 48 61 139 02 Double tube ledger ◆ steel tube ø 48.3 mm × 3.2 mm; hot-dip galvanised 1.50 9.7 48 61 150 - for higher loads - receiving element for decks with tube suspension 2.00 12.9 48 61 250 3.00 19.3 48 61 300 2.50 15.9 48 61 300 03 Deck bearer (UNIFIX fixture) ◆ steel; hot-dip galvanised 3a 1-deck 0.41 2.3 48 65 040 2-deck 0.74 3.9 48 65 074
reinforced 1.25 7.1 48 61 125 1.39 7.9 48 61 139 02 Double tube ledger + steel tube ø 48.3 mm × 3.2 mm; hot-dip galvanised 1.50 9.7 48 61 150 - for higher loads - receiving element for decks with tube suspension 2.00 12.9 48 61 200 03 Deck bearer (UNIFIX fixture) + steel; hot-dip galvanised 3a 1-deck 0.41 2.3 48 65 040 2-deck 0.74 3.9 48 65 074
1.39 7.9 48 61 139 02 Double tube ledger ① 1.50 9.7 48 61 150 steel tube ø 48.3 mm × 3.2 mm; hot-dip galvanised 1.50 9.7 48 61 150 - for higher loads 2.00 12.9 48 61 200 - receiving element for decks with tube suspension 2.50 15.9 48 61 200 03 Deck bearer (UNIFIX fixture) ① 3a 1-deck 0.41 2.3 48 65 040 steel; hot-dip galvanised 2-deck 0.74 3.9 48 65 074
steel tube ø 48.3 mm × 3.2 mm; hot-dip galvanised 2.00 12.9 48 61 200 - for higher loads 2.50 15.9 48 61 250 - receiving element for decks with tube suspension 3.00 19.3 48 61 300 03 Deck bearer (UNIFIX fixture) + steel; hot-dip galvanised 3a 1-deck 0.41 2.3 48 65 040 2-deck 0.74 3.9 48 65 074 3.9 3.9 3.9
steel tube ø 48.3 mm × 3.2 mm; hot-dip galvanised 2.00 12.9 48 61 200 - for higher loads 2.50 15.9 48 61 250 - receiving element for decks with tube suspension 3.00 19.3 48 61 300 03 Deck bearer (UNIFIX fixture) + steel; hot-dip galvanised 3a 1-deck 0.41 2.3 48 65 040 2-deck 0.74 3.9 48 65 074 3.9 3.9 3.9
- for higher loads - receiving element for decks with tube suspension 3.00 19.3 48 61 250 3.00 19.3 48 61 300 3.00 2.48 65 040 2.4eck 0.74 3.9 48 65 074
 receiving element for decks with tube suspension 3.00 19.3 48 61 300 03 Deck bearer (UNIFIX fixture) steel; hot-dip galvanised 3a 1-deck 0.41 2.3 48 65 040 2-deck 0.74 3.9 48 65 074
O3 Deck bearer (UNIFIX fixture) ⊕ 3a 1-deck 0.41 2.3 48 65 040 steel; hot-dip galvanised 2-deck 0.74 3.9 48 65 074
steel; hot-dip galvanised 2-deck 0.74 3.9 48 65 074
- available in reinforced design (depending on length)
- with pins for fitting system decks, requires lift-off
prevention against unintentional lifting 4-deck (reinforced) 1.39 9.1 48 65 140
In case the MODUL METRIC system scaffolding is used as a façade scaffolding and lift-off preventers are assembled, the use of tube ledgers is no longer required (please refer to the standard version given in the respective Technical Approval / Instructions for Assembly and Use).
04 2-deck bearer (UNIFIX fixture) + 1.50 11.7 48 65 150
steel; hot-dip galvanised 2.00 15.3 48 65 200
 receiving element for system decks 2.50 19.3 48 65 250
3.00 21.2 48 65 300
05 Lift-off preventer 🕂 0.41 1.4 48 98 041
steel; hot-dip galvanised 0.74 1.4 48 98 074
- ift-off prevention for decks fitted onto deck bearers with UNIFIX fixture 1.10 2.1 48 98 110
(pos. 03 and 04) 1.39 2.3 48 98 140
1.50 2.9 48 98 150
2.00 3.9 48 98 200
2.50 4.8 48 98 250

HORIZONTAL SUPPORT ELEMENTS / SIDE PROTECTION



APPLICATION EXAMPLE

05 RECESS BRACKET HOLDER

Two recess bracket holders are fitted to the decks of each level by means of a tensioning screw. Recess bracket holders can be used for each deck type. The holders must be arranged such that the niche is closed with a suitable deck and that any remaining gaps must not exceed 30 cm. The recess bracket holders features halfcouplers which serve to vertically fit standards for two or more levels, which accommodate the brackets at the respective height.

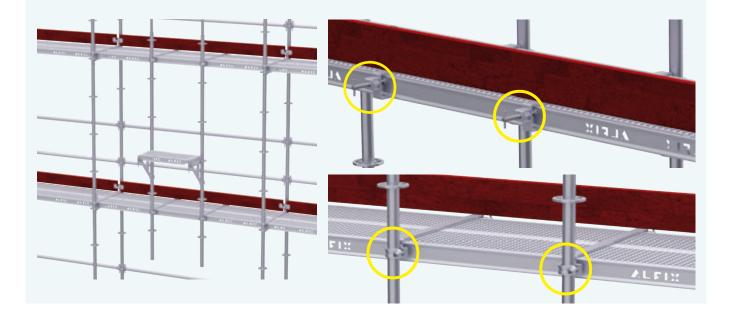


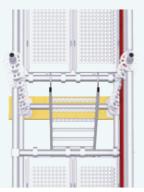
FIG.	DESCRIPTION		DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.
01	Intermediate deck bearer with tube fixture	1a ledger to deck version	0.32	2.8	40 53 032
	steel; hot-dip galvanised	one side with tube ledger suspension / one side with steel deck suspension	0.64	3.9	40 53 064
	 for decks with tube fixture 		0.96	5.1	40 53 096
		1b deck to deck version	0.32	3.1	40 51 032
		both sides with steel deck suspension	0.64	4.2	40 51 064
			0.96	5.4	40 51 096
02		2a ledger to deck version	0.32	2.7	48 54 032
	steel; hot-dip galvanised	one side with tube ledger suspension / one side with steel deck suspension	0.64	4.1	48 54 064
	 for system decks 		0.96	5.6	48 54 096
		2b deck to deck version + both sides with steel deck suspension	0.32	2.7	48 52 032
			0.64	4.1	48 52 064
			0.96	5.6	48 52 096
03	 Board bearer with tube fixture € steel; hot-dip galvanised both sides with tube ledger suspension preferably for use with system-independent decks or to create openings in the work 		0.74	5.0	40 50 070
			1.00	8.1	40 50 100
			1.50	9.7	40 50 150
	level when decks with tube fixtures are used	rved	2.00	10.2	40 50 200
	 also suitable as side protection permissible distributed line load must be obse 		2.50	12.4	40 50 250
			3.00	14.9	40 50 300
04	Board bearer (UNIFIX fixture) 🛨 steel; hot-dip galvanised		0.74	4.2	48 50 074
			1.10	7.3	48 50 110
	 both sides with tube ledger suspension for creating openings in the scaffolding deck w 	hen using system decks			
05	Recess bracket holder • steel; hot-dip galvanised; wrench size 19		0.70	2.3	14 51 060
	 with integrated halfcoupler 		1.00	2.9	14 51 100
	 for all scaffolding systems up to bay widths 0.6 	55 m and 1.00 m			
06	Recess bracket starting piece steel; hot-dip galvanised		0.35	1.7	14 40 000
	steet, not-uip galvalliseu				

APPLICATION EXAMPLE

2b INTERMEDIATE DECK LEDGER (UNIFIX FIXTURE) (deck to deck version) for steel decks

APPLICATION EXAMPLE

03 BOARD BEARER WITH TUBE FIXTURE allow the use of shorter decks within a long bay to create an access hatch



HORIZONTAL SUPPORT ELEMENTS / SIDE PROTECTION

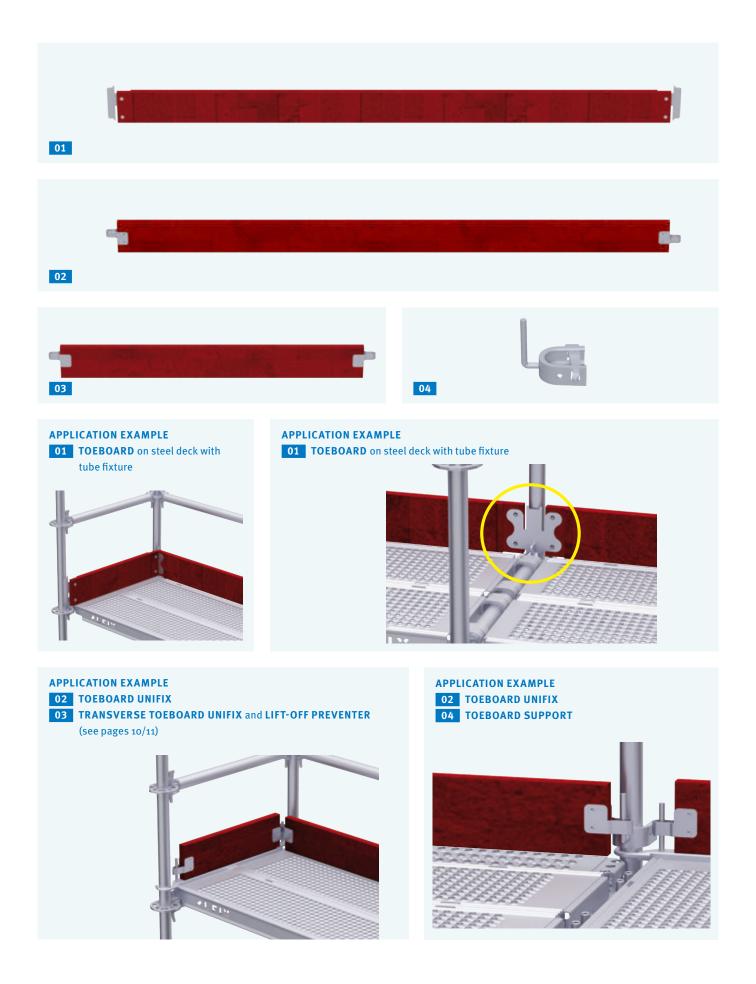


FIG.	DESCRIPTION	DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.
01	Toeboard, wood 🕀 with claws; standard height 15 cm	0.74	1.6	48 95 075
	- weather-resistant	1.00	2.2	48 95 100
	 — weather-resistant — for use with decks with tube fixture 	1.10	2.2	48 95 110
	 fixture of toeboards between standard and wedge head 	1.50	3.2	48 95 150
		2.00	4.1	48 95 200
		2.50	5.1	48 95 250
		3.00	6.0	48 95 300
		4.00	9.6	48 95 400
02	Toeboard UNIFIX, wood ↔ with claws; standard height 15 cm weather-resistant for use with system decks fitted by means of 04 toeboard support or lift-off preventer 	0.74	1.8	22 50 070
		1.10	2.4	22 50 110
		1.50	4.0	22 50 150
		2.00	5.0	22 50 200
		2.50	6.5	22 50 250
		3.00	7.5	22 50 300
		4.00	10.0	22 50 400
03	Transverse toeboard UNIFIX, wood	0.74	1.4	48 51 074
	with claws; standard height 15 cm	1.10	1.9	48 51 110
	 fitted by means of 04 toeboard support or lift-off preventer in conjugation with lift off preventer (conjected and support of lift) and support of lift. 	1.50	2.7	48 51 150
	- in conjunction with lift-off preventer (see pages 10/11) and system decks	2.00	3.6	48 51 200
		2.50	4.5	48 51 250
		3.00	5.3	48 51 300
04	Toeboard support 🛨 steel; hot-dip galvanised		0.8	13 13 030



HORIZONTAL SUPPORT ELEMENTS / SIDE PROTECTION

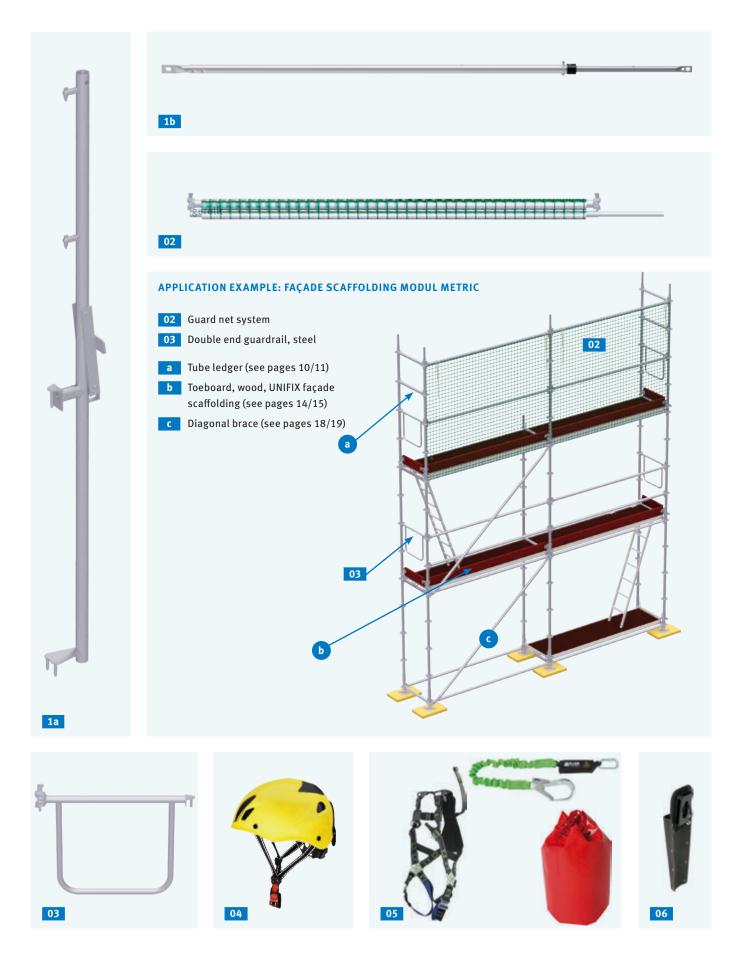
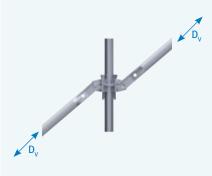


FIG.	DESCRIPTION			DIMENSIONS	WEIGHT	ARTICLE NO
				L/H×W [m]	approx. [kg]	
01	 Advanced side protection assembled with guardrail post and teles for a high level of safety during assemble for all compatible scaffolding systems Please follow the Instructions for Assem liability insurance association for const 	ly / dismantling nbly and Use and the provisions of		s		
	1aAdvanced guardrail poststeel; hot-dip galvanised			2.00	6.8	40 78 000
	1b Advanced telescopic guardrail aluminium and steel; hot-dip galvanised incl. linchpin with snap-on lock for transport sec	urity		2.50-3.07	7.9	14 43 200
02	Guard net system			2.00×2.00	13.0	48 76 200
	height 2.00 m; green; mesh size 100 mm			2.50×2.00	14.0	48 76 250
	 with tube ledger (at the top) and alumini tube connector for assembly in complian two fixing cords (left and right) 			3.00×2.00	15.0	48 76 300
	For system-independent nets please see the ALF	IX Accessories Catalogue				
03	Double end guardrail, steel			0.74	3.6	48 62 074
	steel tube ø 33.7 mm; hot-dip galvanised — for use as end side protection for façade	escaffolding		1.10	4.1	48 62 110
04	Safety helmet with chin strap		white (not show	wn)	0.4	37 50 018
			yellow		0.4	37 50 024
05	Personal fall protection equipment kit EN 354/355/361/363; sharp-edge tested	(PPE)				37 67 009
	 with special carabiners to suit scaffoldin delivered in a functional PVC bag Revolution R2 Scaff harness 2.50 m, saf with Pivot Link™ attachment point at wa accessories, e.g. 06 ratchet spanner 	ety rope Manyard Edge iist level to securely attach				
06	Ratchet spanner holster with Pivot Link™ attachment point for secure atta	achment to the safety harness				37 50 017
	ADVANCED GUARDRAIL POST with convenient foot release mechanism					

DIAGONAL BRACINGS

Vertical diagonal braces

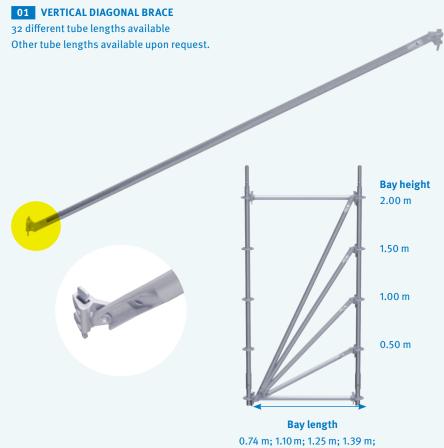


Different bay lengths Colour code indication of bay length:

0.74 m	1.10 m	1.25 m	1.39 m
1.50 m	2.00 m	2.50 m	3.00 m

Bay height is indicated by the number of stripes (up to 4) on the component sticker:

2.00 m	
1.50 m	
1.00 m	
0.50 m	



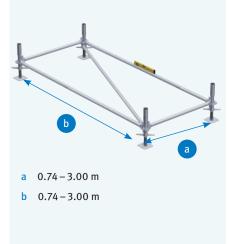
1.50 m; 2.00 m; 2.50 m; 3.00 m

Horizontal diagonal braces

serves to brace horizontal levels in scaffolding / birdcage scaffolding



Stickers on tube ledgers for quick and easy indication of bay length and on diagonal braces for specifying bay length and installation height.



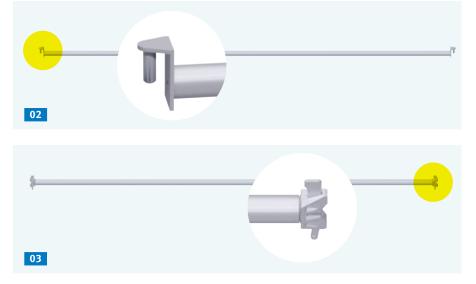


FIG.	DESCRIPTION		DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.
01	Vertical diagonal brace*	for bay height 2.00 m	0.74	7.7	48 21 200
	steel tube ø 48.3 × 2.7 mm; hot-dip galvanised		1.10	8.1	48 22 200
	 wedge lock connection ensures positive and 		1.39	8.6	48 23 200
	non-positive connection — bolt-free assembly		1.50	8.8	48 24 200
	 serves to brace the basic scaffold 		2.00	9.8	48 25 200
			2.50	10.8	48 26 200
			3.00	12.0	48 27 200
		for bay height 1.50 m	1.50	7.8	48 24 150
			2.00	9.0	48 25 150
			2.50	10.2	48 26 150
			3.00	11.5	48 27 150
		for bay height 1.00 m	1.50	6.5	48 24 100
			2.00	8.1	48 25 100
			2.50	9.5	48 26 100
			3.00	10.9	48 27 100
		for bay height 0.50 m	1.50	6.1	48 24 050
			2.00	7.5	48 25 050
			2.50	8.8	48 26 050
			3.00	10.5	48 27 050
02	Horizontal diagonal brace	for bay length 2.00 m	0.74	5.2	48 41 200
	steel tube ø 42.4 × 2 mm; hot-dip galvanised		1.10	5.8	48 42 200
	 Available for any possible combination of [how longth] x [how width] 	for bay length 2.50 m	0.74	6.8	48 41 250
	[bay length] x [bay width]! — pin suspension (bolt-free)		1.10	7.3	48 42 250
	 serves to brace horizontal levels in scaffolding 	for bay length 3.00 m	0.74	7.2	48 41 300
	without decks		1.10	8.4	48 42 300
03	Horizontal diagonal ledger		1.50×1.50	8.7	48 23 502
	steel tube ø 48.3 × 3.2 mm; hot-dip galvanised		2.00×2.00	9.7	48 23 503
	 wedge lock connection ensures positive and non-positive 	connection	2.50 × 2.50	10.6	48 23 504
	 bolt-free assembly serves to brace horizontal levels in birdcage scaffolding 		3.00×3.00	12.0	48 23 505
*	ge ao for permissible loads				

* see page 39 for permissible loads

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SCAFFOLDING DECKS / ACCESS DECKS

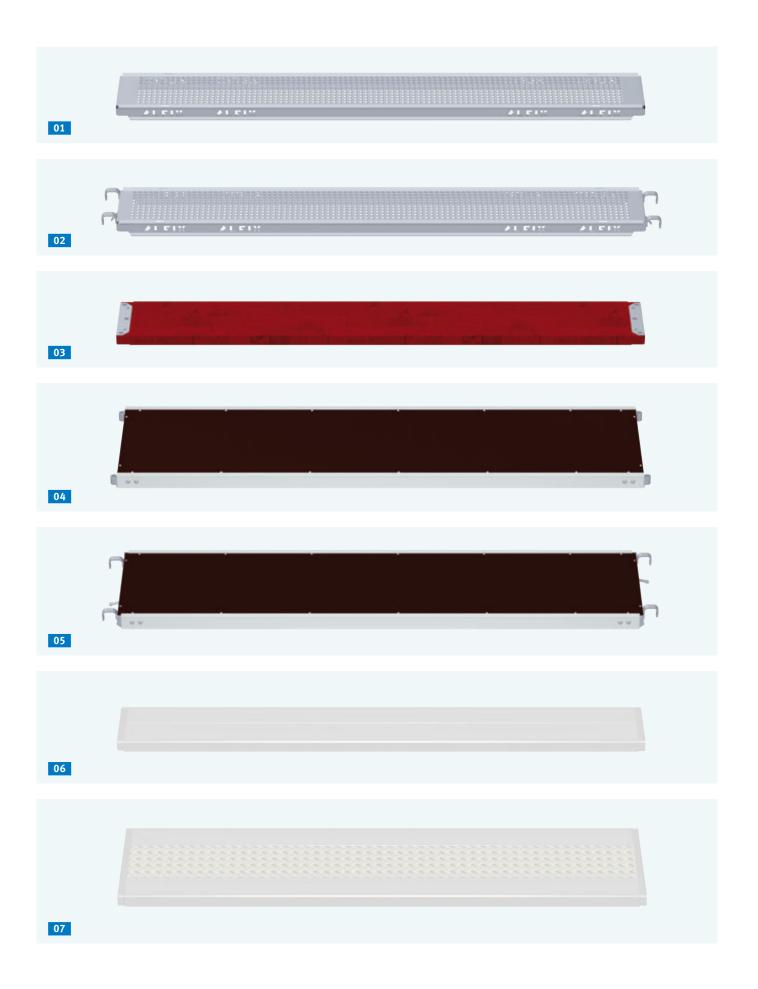
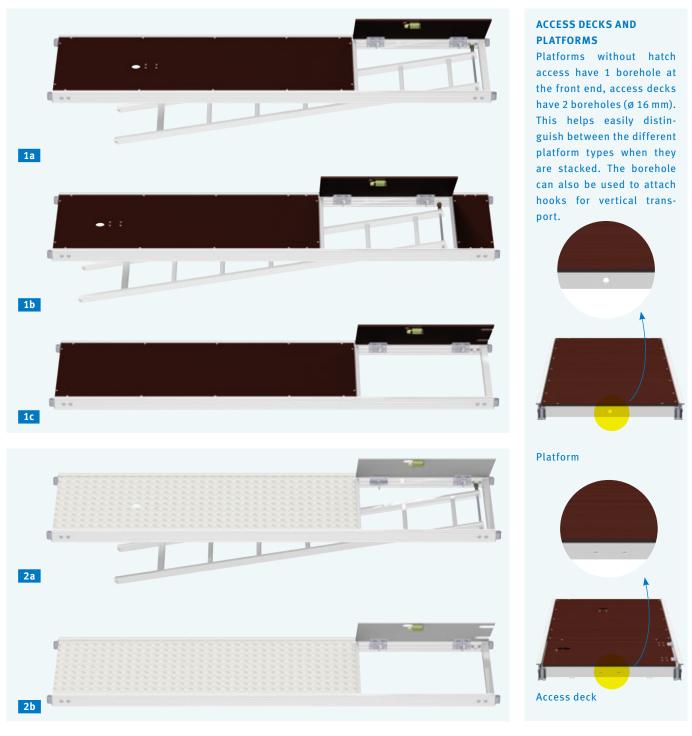


FIG.	DESCRIPTION		LOAD CLASS	DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.
01	Steel deck; 0.32 m wide		6	0.74×0.32	5.3	22 21 074
	hot-dip galvanised; perforated		6	1.10×0.32	7.6	22 21 110
	 high load capacity 		6	1.50×0.32	11.1	22 21 150
	 non-slip surface 		6	2.00×0.32	13.4	22 21 200
	 with system fixture 		5	2.50×0.32	16.8	22 21 250
			4	3.00×0.32	20.1	22 21 300
02	Steel deck with tube fixture; 0.32 m wide		6	0.74×0.32	7.1	48 20 074
	hot-dip galvanised; perforated — with integrated lift-off preventer		6	1.00×0.32	9.4	48 20 100
			6	1.10×0.32	10.1	48 20 110
	 with tube suspension 		6	1.50×0.32	13.0	48 20 150
			6	2.00×0.32	16.8	48 20 200
			5	2.50×0.32	20.5	48 20 250
			4	3.00×0.32	24.3	48 20 300
03	Wooden deck; 0.32 m wide		6	0.74×0.32	5.5	22 31 070
	- impregnated		6	1.10×0.32	8.5	22 31 110
	 triple-layer bonded wood construction height: 48 mm secured by a system-compatible steel head piece at both ends 		6	1.50×0.32	11.0	22 31 150
			5	2.00×0.32	14.3	22 31 200
			4	2.50×0.32	18.3	22 31 250
			3	3.00×0.32	22.6	22 31 300
04	Frame platform; 0.64 m / 0.32 m wide aluminium; film-coated plywood decking		3	1.50×0.64	11.4	22 02 150
			3	2.00×0.64	14.5	22 02 200
	 extremely lightweight with replaceable wood section insert / metal fixtures 		3	2.50×0.64	17.9	22 02 250
			3	3.00×0.64	20.9	22 02 300
		(not shown)	3	4.00×0.32	18.7	22 01 400
05	Frame platform with tube fixture; 0.60 m / 0.32 m wide		3	1.50×0.60	12.7	48 03 150
	aluminium; film-coated plywood decking		3	2.00×0.60	15.7	48 03 200
	 extremely lightweight with replaceable wood section insert / metal fixtures 		3	2.50×0.60	19.1	48 03 250
			3	3.00×0.60	22.2	48 03 300
	(1		3	4.00×0.32	20.5	48 03 400
06	Solid aluminium deck; 0.32 m wide		6	1.10×0.32	4.7	22 11 110
	 completely made of aluminium, profile height: 48 mm 		6	1.50×0.32	6.1	22 11 150
	 hollow chamber profiles with anti-slip longitudinal grooves 		6	2.00×0.32	8.0	22 11 200
	 stacking bulge, easily stackable 		5	2.50×0.32	9.9	22 11 250
	 stacking bulge faces downwards which prevents water or ice deposits 		4	3.00×0.32	11.9	22 11 300
			2	4.00×0.32	15.7	22 11 400
07	Lightweight deck; 0.64 m wide		4	1.50×0.64	11.8	22 13 150
	- extremely lightweight, non-slip surface, easily stackable		4	2.00×0.64	15.5	22 13 200
	- profile height approx. 50 mm		4	2.50×0.64	18.7	22 13 250
	 combination of hollow chamber profiles and aluminium treadpl with grip recess (plastic) at both ends 	ate	3	3.00 × 0.64	22.3	22 13 200
	 with grip recess (plastic) at both ends 		5	5.00 ~ 0.04	22.3	22 13 300

SCAFFOLDING DECKS / ACCESS DECKS



NOTE

We recommend the use of stairway ascents in particular when the height of the access exceeds 10 m, material is to be transported via this access or a considerable amount of work is done (see pages 34/35).

Source: BGI / GUV-I 663

LOAD CLASS	UNIFORMLY DISTRIBUTED LOAD Q [kN/m²]
1	0.75
2	1.50
3	2.00
4	3.00
5	4.50
6	6.00

FIG.	DESCRIPTION	LOAD CLASS	DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.
01	Access deck; 0.64 m aluminium; film-coated plywood decking				
	 with replaceable wood section insert / metal fixtures convenient and fail-safe ladder and hatch latching 				
	1a Version with ladder	3	2.50×0.64	24.0	22 04 250
	 with system fixture 	3	3.00×0.64	27.0	22 04 300
	1b Version with ladder	3	2.50×0.64	24.0	22 09 250
	 with system fixture hatch offset, with tread 	3	3.00×0.64	30.0	22 09 300
	 Version without ladder with system fixture with fitting for storey ladders (see pages 34/35) 	3	1.50×0.64	14.9	22 05 150
		3	2.00×0.64	17.0	22 05 200
		3	2.50×0.64	23.0	22 05 250
		3	3.00×0.64	26.0	22 05 300
02	Access deck; 0.64 m				
	 completely made of aluminium, for use in areas with special requirements, e.g. for industrial scaffoldings (fire protection) 				
	2a Version with ladder	3	2.50×0.64	28.0	22 07 250
	 with system fixture 	3	3.00×0.64	31.9	22 07 300
	2b Version without ladder	3	1.50×0.64	16.0	22 08 150
	 with fitting for storey ladders (see pages 34/35) 	3	2.00×0.64	20.0	22 08 200
		3	2.50×0.64	24.0	22 08 250
		3	3.00×0.64	27.5	22 08 300

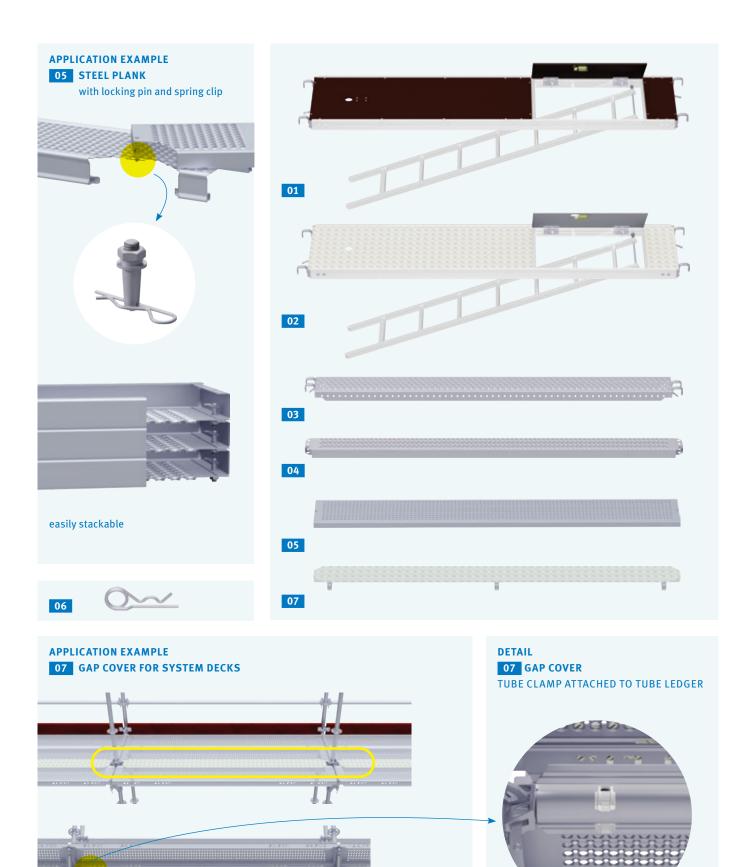
APPLICATION EXAMPLE

Access deck with ladder (chequer plate decking)

The hatch and ladder latches facilitate an easy release, from both the upper and the lower scaffolding levels, and ensure a safe securing of the access hatch and storey ladder. The patented scissor hinge ensures the access hatch functions reliably. For greater protection against sliding during transportation or secure assembly, the ladder suspension hardware is additionally equipped with a spacer sleeve on both sides, intended to prevent fingers from being pinched.



SCAFFOLDING DECKS / ACCESS DECKS



BOTTOM SIDE

FIG.	DESCRIPTION	LOAD CLASS	DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.
01	Access deck with tube fixture and integrated ladder	3	2.50×0.60	26.0	48 00 251
	aluminium; film-coated plywood decking — with tube fixture and lift-off preventer — hatch offset, with tread	3	3.00×0.60	30.0	48 00 301
02	Access deck with tube fixture and integrated ladder	3	2.50×0.60	29.0	48 00 250
	 aluminium; chequer plate decking with tube fixture and lift-off preventer hatch offset, with tread extremely durable and weather-resistant completely made of aluminium, for use in areas with special requirements, e.g. for industrial scaffoldings (fire protection) 	3	3.00×0.60	33.0	48 00 300
03	Intermediate deck with tube fixture, steel	6	0.74×0.19	5.5	48 30 074
	hot-dip galvanised	6	1.10×0.19	7.3	48 30 110
	 as spacing deck in case of different bay widths mainly used in birdcage scaffolding 	6	1.50×0.19	9.8	48 30 150
		6	2.00×0.19	12.7	48 30 200
		5	2.50×0.19	15.6	48 30 250
		4	3.00×0.19	18.5	48 30 300
		3	4.00×0.19	24.2	48 30 400
04	Intermediate deck, steel hot-dip galvanised — as spacing deck in case of different bay widths — mainly used in birdcage scaffolding	6	0.74×0.14	4.6	22 25 074
		6	1.10×0.14	6.4	22 25 110
		6	1.50×0.14	8.8	22 25 150
		6	2.00×0.14	11.6	22 25 200
		5	2.50×0.14	14.3	22 25 250
		4	3.00×0.14	17.1	22 25 300
		3	4.00×0.14	19.1	22 25 400
05	Steel plank 🔁	4	1.00×0.30	5.5	12 24 100
	with locking pin and spring clip	4	1.50×0.30	8.0	12 24 150
	 for covering and/or closing corner areas and other construction-related 	3	2.00×0.30	10.5	12 24 200
	openings — only for use on steel decks — The support length must be at least 250 mm! — height: 45 mm	3	2.50×0.30	12.8	12 24 250
06	Spring clip spare part for pos. 05			0.03	73 04 006
07	Gap cover 🕀		1.10×0.19	2.5	48 32 110
	aluminium chequer plate		1.50×0.19	3.7	48 32 150
	 for covering gaps between deck levels when using system decks 		2.00×0.19	5.1	48 32 200
	 for covering construction-related gaps fitted onto the tube ledger 		2.50×0.19	6.5	48 32 250
	When using decks with tube fixtures a gap cover is required and must be ordered as needed!		3.00×0.19	7.8	48 32 300

BRACKETS

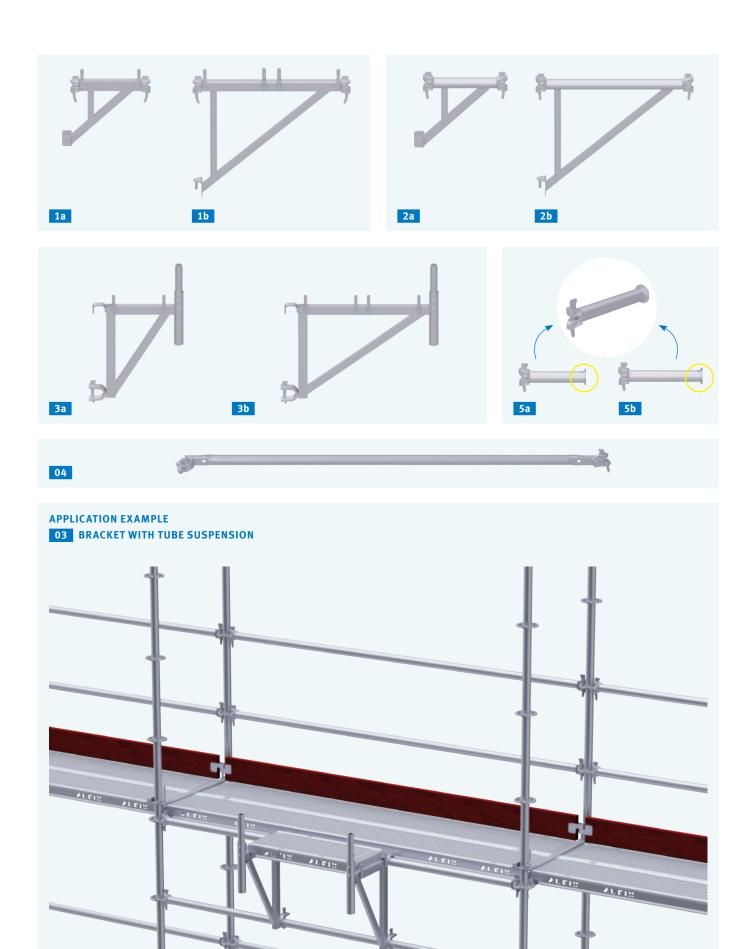
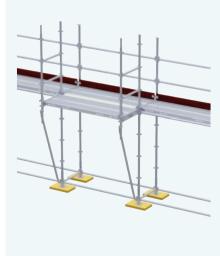


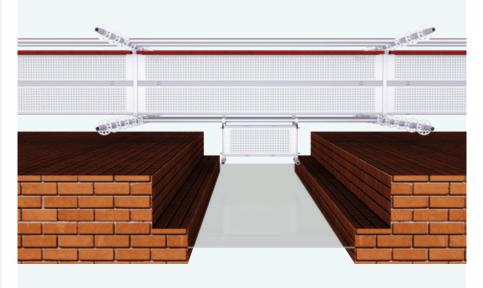
FIG.	DESCRIPTION	DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.
01	Bracket steel; hot-dip galvanised — with UNIFIX fixture — for widening scaffolding bays / converting projecting building parts — see pages 10/11 for respective lift-off preventer	1a 0.41 1b 0.74	3.4 6.2	48 10 001 48 10 002
02	Bracket steel; hot-dip galvanised — with tube fixture — for bracket widening when decks with tube fixture are used	2a 0.41 2b 0.74	3.7 6.3	48 10 011 48 10 012
03	 Bracket with tube suspension ⊕ steel; hot-dip galvanised with UNIFIX fixture for scaffolding in recesses of buildings at deck level or at intermediate heights 	3a 0.41 3b 0.74	6.9 8.8	48 10 020 48 10 021
04	 Modul bracket brace steel; hot-dip galvanised for bracket support (Modul bracket 0.74 m) fitted in the rosette on the standard 	2.05	7.5	40 10 205
05	 Support ledger steel tube ø 48.3 × 3.2 mm; hot-dip galvanised support element for decks with tube suspension for inwards widening of decks 	5a 0.29 5b 0.36	1.4 1.7	48 29 000 48 29 001

APPLICATION EXAMPLE 04 MODUL BRACKET BRACE for creating projections as an altern

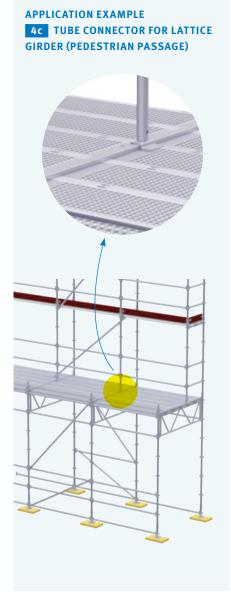
for creating projections as an alternative to brackets

APPLICATION EXAMPLE 3a BRACKET WITH TUBE SUSPENSION to assemble working platforms in window recesses





LATTICE GIRDERS



1a 1b 2a 2b 03 4a 4c APPLICATION EXAMPLE 05 MODUL **GUARDRAIL STANDARD WITH TUBE FIXTURE**

APPLICATION EXAMPLE1aLATTICE GIRDER and02MODUL LATTICE GIRDER CROSS BRACE

The lattice girders have a movable lattice girder cross brace for fitting decks. This provides for a high level of safety as the decks can be fitted by sliding them onto the lattice girders while standing on the part of the scaffolding that has already been assembled.

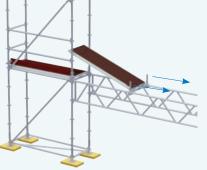


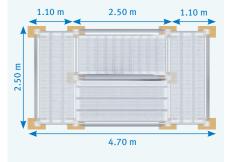
FIG.	DESCRIPTION	DIMENS L/H×	IONS W [m]	WEIGHT approx. [kg]	ARTICLE NO.
01	Lattice girder* ① steel; hot-dip galvanised				
	 used for bridging or to construct areal scaffolding for direct connection to the rosette with 4 wedge heads lattice girder with welded-on tube connector available upon request 				
	1a Lattice girder (tube fixture)		2.00	23.4	48 70 200
	 for decks with tube fixture 		2.50	29.7	48 70 250
	 top and bottom chord: steel tube 48.3 mm 		3.00	33.0	48 70 300
			4.00	45.1	48 70 400
			5.00	55.7	48 70 500
			6.00	66.4	48 70 600
			7.00	77.0	48 70 700
			8.00	88.4	48 70 800
	1b Lattice girder (UNIFIX fixture)		2.00	23.8	48 71 200
	 top chord for suspending system decks 		2.50	29.8	48 71 250
	 bottom chord: steel tube 48.3 mm 		3.00	34.2	48 71 300
			4.00	44.7	48 71 400
			4.50	50.2	48 71 450
			5.00	55.3	48 71 500
			6.00	66.1	48 71 600
			7.50	88.2	48 71 750
02	Lattice girder cross brace 🕀	2a 2-deck	0.74	7.9	48 73 074
	 steel; hot-dip galvanised for use in conjunction with 1a lattice girders with top chord lift-off prevention by means of safety bolts see pages 10/11 for respective lift-off preventer flexible alternative to lattice girders with welded-on tube connectors 	2b 3-deck	1.10	9.4	48 73 110
03	Tube connector (tube fixture) steel; hot-dip galvanised; incl. linchpin - for fitting onto tubes - lift-off prevention with safety bolt		0.4	2.1	41 51 002
04	 Tube connector for lattice girder steel; hot-dip galvanised for use on tube ledgers or lattice girders with top chord for variable arrange- ment of standards 				
	4a with coupler (wrench size 22)		0.3	1.6	48 51 001
	4b with bended profile coupler (not shown)		0.3	1.5	41 51 007
	4c for pedestrian passage €		0.2	1.3	48 51 010
05	Guardrail standard (with tube fixture) ⊕ — for attaching tube ledgers as side protection whilst simultaneously allowing for a passage		1.65	8.1	41 36 165

* Installation of lattice girders according to approval Z-8.22-932. The stability of the scaffolding must be verified in each case when lattice girders are used (see for permissible loads).

STAIRWAYS / LADDERS / GUARDRAILS

APPLICATION EXAMPLE CONSTRUCTION SITE STAIRWAY TOWER 200 KG

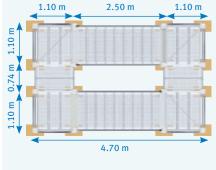
- 10-standard stairway tower with stairway stringers for receiving system decks (e.g. steel decks)
- 9-step, riser 22 cm / 10 decks per standard stairway
- stair width: max. 1.10 m
- load-bearing capacity max. 2.0 kN/m²

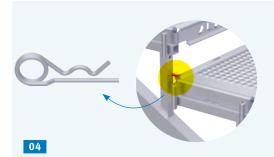


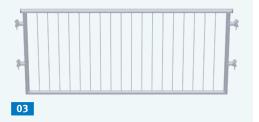
APPLICATION EXAMPLE ESCAPE STAIRWAY TOWER 500 KG

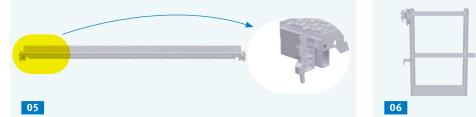
- 16-standard stairway tower with stairway stringers for receiving system decks (e.g. steel decks)
- different stair widths, for different applications
- 9-step, riser 22 cm / 9 decks per standard stairway
- load-bearing capacity max. 5.0 kN/m²

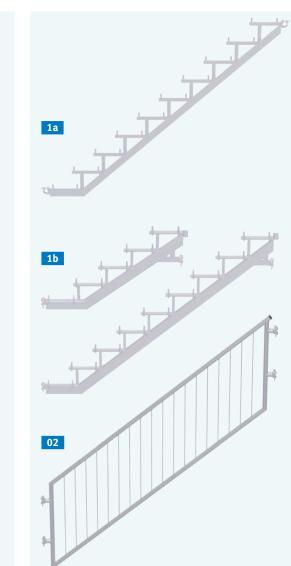












IG.	DESCRIPTION	D	IMENSIONS	WEIGHT approx. [kg]	ARTICLEN
01	Modul stairway stringer	1a with halfcoupler	1.50×1.00	17.9	48 10 054
	steel; hot-dip galvanised	permissible load: 200 kg/m² (load class 3)	1.50×1.00	17.9	48 10 054
	 with UNIFIX fixture for system decks 		2.50×2.00	29.6	48 10 06
			2.50×2.00	29.6	48 10 06
		1b with wedge-heads	1.50×1.00	19.3	48 10 05
		permissible load: 500 kg/m² (load class 5)	2.50×2.00	33.5	48 10 06
)2	Stair guardrail, with child protection		1.50×1.00	27.4	48 36 10
	steel; hot-dip galvanised		2.50×2.00	42.0	48 36 20
	 for installation in a stairway tower up to 500 kg/ further dimensions available upon request 	/m², with vertical rods			
	 for use in escape stairway towers or similar built 	ding projects in public areas			
)3	Guardrail, with child protection		0.74×1.10	15.3	48 38 07
	steel; hot-dip galvanised		1.10×1.10	18.9	48 38 11
	- for use in stairway towers 500 kg/m ² or 750 kg/m ²	m²	1.50×1.10	24.4	48 38 15
	 with vertical rods for use in escape stairway towers or similar built 	ding projects in public areas	2.00×1.10	30.4	48 38 20
			2.50×1.10	36.3	48 38 25
			3.00×1.10	42.3	48 38 30
4	Spring clip ⊕ steel; galvanised; 4 × 78 mm				73 04 00
	 lift-off prevention for stairway stringer 				
)5	Ledger with gap cover; 0.16 m, off-centre installation 🕒		0.74×0.16	5.9	48 20 07
	steel; hot-dip galvanised		1.10×0.16	8.0	48 20 11
	 to be used when using the stair stringer of 500 k provides for a uniform rise/going ratio in accord 		1.50×0.16	10.7	48 20 15
	 wedge-head is attached off-centre 		2.00×0.16	13.5	48 20 20
			2.50×0.16	16.1	48 20 25
)6	Swing door		0.70	12.7	40 77 07
	steel; hot-dip galvanised		1.00	14.5	40 77 10
	 with locking mechanism (self-locking) for securing accesses, e.g. in stairway towers 				
	LICATION EXAMPLE: 16-STANDARD STAIRWAY TO first platform at the height of 1 m Ledger with gap cover Swing door	OWER			06

a Gap cover see pages 24/25



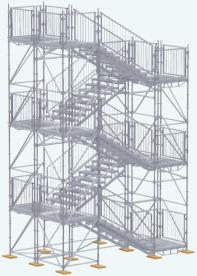


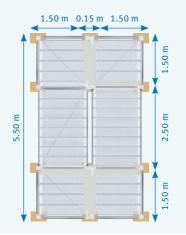
31

STAIRWAYS / LADDERS / GUARDRAILS

APPLICATION EXAMPLE ESCAPE STAIRWAY TOWER 750 KG

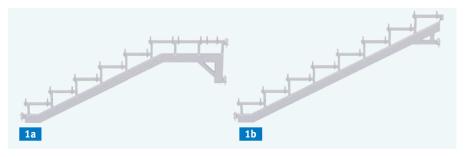
- 16-standard stairway tower with stairway stringers for fixing system decks (e.g. steel decks)
- 9-step, riser 17 cm / 8 decks per standard stairway
- permissible load: 7.5 kN/m 2



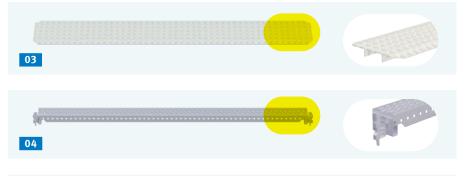




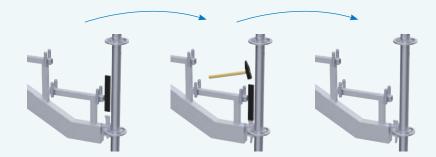










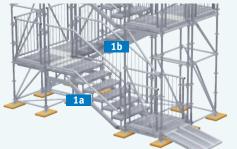


ASSEMBLY NOTICE FOR THE STAIRWAY STRINGER 750 kg

To drive the wedge into the rosette through the respective opening (10 x 35 mm) in the stairway stringer, we advise the use of a suitable drive-in pin which can be delivered upon request.

FIG.	DESCRIPTION		DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.
01	 Stairway stringer steel; hot-dip galvanised with UNIFIX fixture for system decks with wedge-head connection, for loads of max. 750 kg/m² 	1a 1b	2.50×1.00 2.50×1.50	31.8 31.9	48 10 068 48 10 059
02	 Stair guardrail, with child protection steel; hot-dip galvanised for installation in a stairway tower up to 750 kg/m² with vertical rods further dimensions available upon request for use in escape stairway towers or similar building projects in public areas 	2a 2b	2.50 × 1.00 2.50 × 1.50	40.1 41.6	48 36 162 48 36 182
03	 Gap cover for double standard ⊕ aluminium chequer plate lift-off prevention with clamp coupler (universal design) when us standard as an alternative to a lift-off preventer for covering gaps between deck levels 	ing double	1.10 × 0.40 1.50 × 0.40 2.00 × 0.40	5.6 8.5 11.5	48 33 110 48 33 150 48 33 200
04	 Ledger with gap cover; 0.12 m, off-centre installation steel; hot-dip galvanised to be used when using the stair stringer of 750 kg/m² (2.50 × 1.50 m) at the upper and lower transitions to the platfor to be used when using the stair stringer of 750 kg/m² (1.50 × 1.00 m) at the lower transition platform provides for a uniform rise/going ratio in accordance with the resonance wedge-head is attached off-centre 		1.10×0.12 1.50×0.12 2.00×0.12	4.9 6.7 10.4	48 20 115 48 20 155 48 20 203
05	Clamp coupler, universal design + steel; hot-dip galvanised; wrench size 19	WS 1	.9 0.20	1.1	13 17 019
06	Double clamp coupler with wedge steel; galvanised - to secure both sides of the gap cover - wedge lock connection to ensure positive and non-positive conn	ections		1.2	13 17 030
07	 Gap cover aluminium chequer plate reinforced aluminium box profile 55 × 55 mm for covering gaps between deck levels, when using deck bearers ledgers with UNIFIX suspension 	and double	$ \begin{array}{c} 1.10 \times 0.19 \\ 1.50 \times 0.19 \\ 2.00 \times 0.19 \\ 2.50 \times 0.19 \end{array} $	2.8 4.1 5.5 6.9	48 35 107 48 35 151 48 35 201 48 35 251
	ICATION EXAMPLE 01 STAIRWAY STRINGER	APPLICATION EXAM			

with starting height 1 m (adjusted to the ground with system decks and starter transom)



03 Gap cover for double standard

- 05 Clamp coupler (universal design) as lift-off prevention
- 07 Gap cover with system fixture



STAIRWAYS / LADDERS / GUARDRAILS

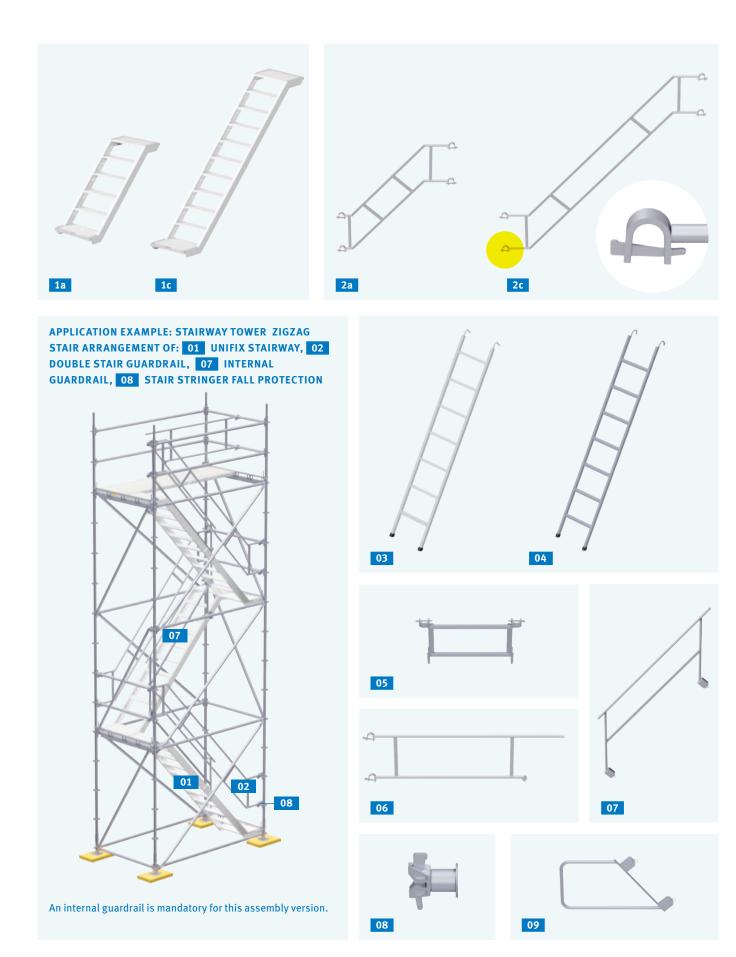
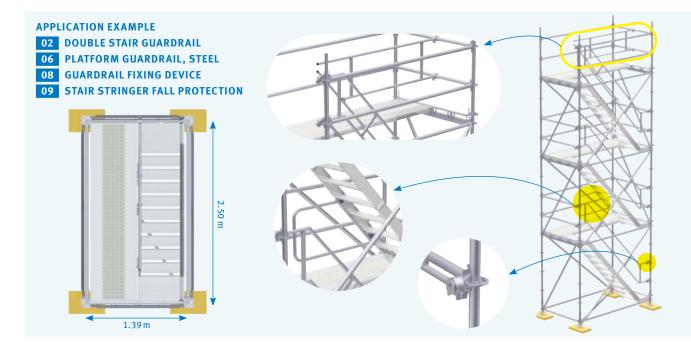


FIG.	DESCRIPTION		DIMENSIONS	WEIGHT	ARTICLE NO.
			L/H×W [m]	approx. [kg]	
01	Stairway, aluminium, width: 0.64 m 🕒	1a	1.39×1.00	16.8	22 98 140
	, ,	1b (not shown)	2.00 × 1.50	23.5	22 98 200
	 riser 20 cm; for use with platform stairway tower load-bearing capacity max. 2 kN/m² (load class 3) 	1c	2.50×2.00	27.6	22 98 250
		1d (not shown)	3.00×2.00	31.0	22 98 300
02	steel; hot-dip galvanised	2a	1.39×1.00	12.3	48 36 209
		2b (not shown)	2.00×1.50	15.5	48 36 210
	 with bended profile coupler for attachment to tube ledgers or guardrail fixing devices 	2c	2.50×2.00	18.0	48 36 206
		2d (not shown)	3.00×2.00	19.9	48 36 207
03	Storey ladder, aluminium for 2.00 m storey height		2.00×0.40	3.7	11 32 001
04	Storey ladder, steel hot-dip galvanised; for 2.00 m storey height		2.00×0.40	8.1	11 42 000
05	Storey ladder segment steel; hot-dip galvanised		0.74 x 0.50	5.2	48 11 001
	 can be used as a ladder when assembled to standards 				
06	Platform guardrail, steel		2.50	8.7	48 29 250
	steel; hot-dip galvanised		3.00	9.4	48 29 300
07	Internal guardrail for aluminium stairway, height: 2.00 m 🕀 steel tube ø 33.7 mm; hot-dip galvanised		2.50/3.00	13.3	11 31 000
08	Guardrail fixing device ① steel; hot-dip galvanised			0.80	41 36 300
09	Stair stringer fall protection 🔂 steel; hot-dip galvanised		1.00 × 0.50	8.8	11 31 001

- incl. linchpin 12 × 70 mm with snap-on lock

 $-\,$ effective fall protection when using aluminium stairways



ACCESSORIES

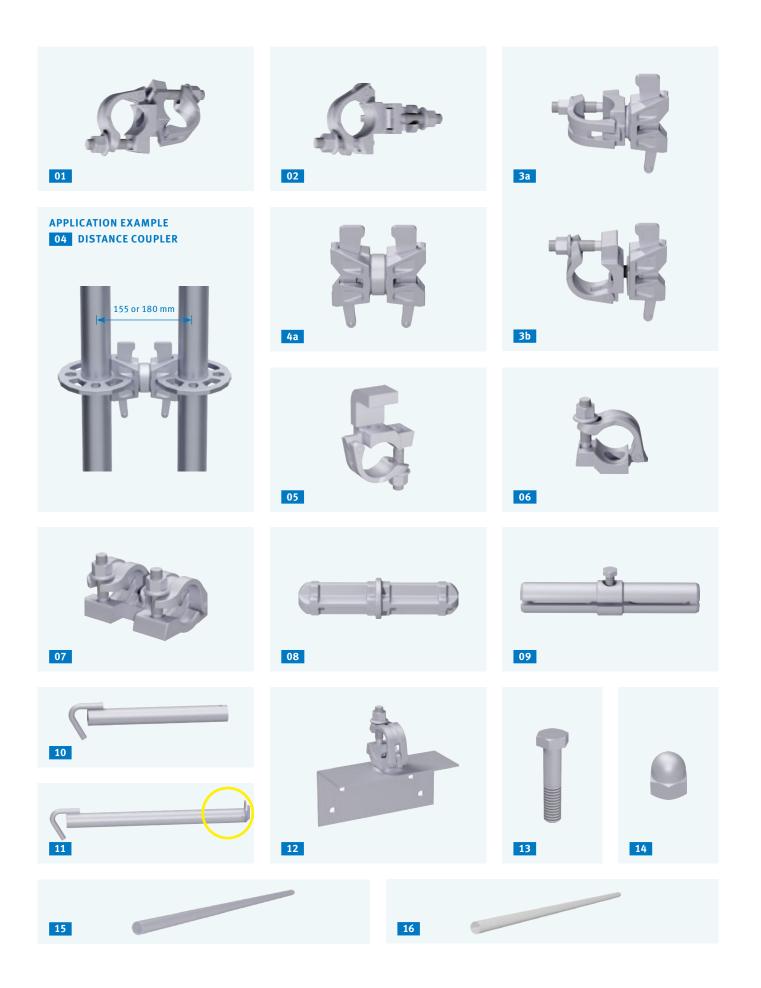


FIG.	DESCRIPTION		DI	MENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.
01	Swivel coupler*		WS 22		1.0	13 03 022
02	Standard coupler *		WS 22		1.0	13 01 022
03	Wedge-head coupler *	3a	fixed		1.0	41 50 000
		3b	swivelling		1.0	41 50 001
04	Distance coupler, fixed * 🔁	4a		155	1.1	41 50 003
		4b	(not shown)	180	1.2	41 50 002
05	Claw coupler *		WS 22		0.9	13 10 022
06	Halfcoupler *		WS 22		0.6	13 02 022
07	Tension coupler with collar nut*		WS 22		1.4	13 07 022
08	Tube connector for tension coupler				1.0	13 08 000
09	Universal tube connector, clampable — consists of 2 half-shells and a screw, expanded by the screw — for connecting tubes subject to impact stress			0.24	1.7	13 08 001
10	Distance tube			0.40	1.5	13 61 040
	steel tube ø48.3 mm; hot-dip galvanised			1.00	3.3	13 61 100
	 fitted to the standard with 2 standard couplers, from lengths of 1.00 m with borehole for locking by means of linchpin when using the EIFS anch 	or		1.30	4.2	13 61 130
	sleeve, for distances of 1.00 m or more	01		1.50	4.8	13 61 150
11	Quick-release anchor steel tube 48.3 mm; hot-dip galvanised			0.70	3.0	23 62 070
	 with hooks and guide plate to secure against rotation for suspension below the deck transom 					
12	Squared timber coupler * HxWxD of steel bracket: 100 × 220 × 86 mm; with halfcoupler (swivelling)		WS 22		1.8	33 81 022
13	Hexagon bolt steel; galvanised		M 14×65		0.1	14 53 000
14	Hexagon nut steel; galvanised		M 14		0.04	73 02 003
15	Scaffold tube, steel			1.00	3.5	13 51 100
	ø48.3 × 3.25 mm; hot-dip galvanised			2.00	7.0	13 51 200
				3.00	10.5	13 51 300
				4.00	14.0	13 51 400
				5.00	17.5	13 51 500
				6.00	21.0	13 51 600
16	Scaffold tube, aluminium ø48.3×4.05 mm			1.00	1.5	13 40 100
				2.00	3.0	13 40 200
				3.00	4.5	13 40 300
				4.00	6.0	13 40 400
				5.00 6.00	7.5 9.0	13 40 500 13 40 600
				0.00	2.0	19 40 000

TECHNICAL DETAILS

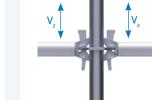
STRESS CAPACITY VALUES:

ALFIX MODUL METRIC SCAFFOLDING CONNECTOR with tube ledger according to approval Z-8.22-932



Connecting moment

Connecting moment



Vertical force

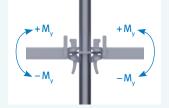


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Horizontal force

Horizontal force

ALFIX MODUL METRIC SCAFFOLDING CONNECTOR with deck bearer according to approval Z-8.22-932



v₂↓)

Vertical force



Nomrla force

Normal force

incerting informent	venticutionee	Nonnta force	Honzontarroree
	ALFIX MODUL METRIC	ALFIX MODUL METRIC 4.0	ALFIX MODUL METRIC
Beanspruchbarkeit	SCAFFOLDING CONNECTOR	SCAFFOLDING CONNECTOR	SCAFFOLDING CONNECTOR
	with tube ledger	with tube ledger	with deck bearer
Connecting moment M _{y,R,d}	± 104 kNcm	± 120 kNcm	- 104 kNcm / + 69.2 kNcm
Verticla force V _{z,R,d}	± 35 kN	± 39.9 kN	± 30 kN
Normal force N _{R,d}	± 36 kN	± 39.6 kN (46.6 kN*)	± 25.6 kN
Horizontal force V _{y,R,d}	± 16 kN	± 16 kN	± 9.0 kN

*Connection in the small hole of the steel perforated disc

The standard scaffolding version is approved for use as a working scaffold according to load class \leq 3 (system width b=0.739 m and bay width l=3.00 m), and as brick guard and roof brick guard in accordance with DIN 4420-1:2004-03.

The topmost horizontal plane (working area) must not exceed 24 m, plus spindle extension length above ground level. The standard version of the scaffolding system is designed for working operations at a scaffold level in accordance with DIN EN 12811-1:2004-03, Section 6.2.9.2 in front of an "open" façade with a percentage of openings of 60%, and in front of a closed façade.

Without additional verification, the standard version must only be used if the loads acting within the bays do not exceed the relevant live loads according to DIN EN 12811-1:2004-03, Table 3.

For the standard version of the "ALFIX MODUL METRIC" scaffolding system, the following designation according to DIN EN 12810-1:2004-03 shall be used:

Scaffolding EN 12810-3D-SW06/300-H2-A-LA

For assembly and disassembly of the scaffolding system, please observe the relevant regulations and rules of the employerss' liability insurance association of the construction industry (BG BAU), the accident prevention regulations (BGV 22, formerly VBG 37) and the instructions and stipulations of the DIN 4420 and/or EN 12811.

In a site-related instruction for assembly and use and based on a risk analysis in accordance with the German Industrial Safety Regulations (BetrSichV), the employer shall decide the most suitable protection against risk of falling. This includes the use of technical fall protection equipment, personal protective equipment against falling (PPE) and special training.

ALFIX offers "advanced guardrails" as protection measure which are documented separately as well as in the respective technical documentation of the manufacturer.

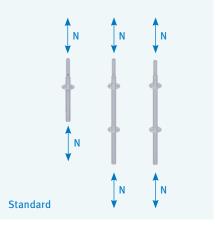
If personal protective equipment (PPE) is used the following attachment points shall be used:

- guardrail/longitudinal ledger
 (1 m above deck level)
- standard (1 m above deck level)
- rosette (1 m above deck level)
- For further instructions on PPE please refer to DGUV Regulation 112-198 or DGUV Information 201-011.

Standard

permissible¹ standard load (compressive load) or tensile load-bearing capacity with pressed-in/screwed-in or integrated tube connector (4.0)

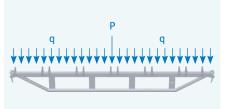
	COMPR	ESSIVE L	TENSILE LOAD			
Unsupported length [m]	1.0	1.5	2.0	3.0	4.0	2 × 2 M10 8.8
Permissible load N [kN] (pressed-in/screwed-in tc)	97.4	65.6	42.6	21.0	12.3	34.4 (screwed-in)
Permissible load N [kN] (integrated tc)	124.1	73.3	44.4	20.8	11.9	60.2



Deck bearer

permissible¹ lateral load

	DECK BEARER	DECK BEARER, reinforced	2-DECK BEARER			
Length L [m]	0.74	1.10	1.50	2.00	2.50	3.00
Permissible uniformly dis- tributed load q [kN/m]	31.50	26.25	21.60	15.90	12.60	8.10
Individual load P [kN] in bay centre	9.00	13.35	19.35	14.10	13.35	10.50



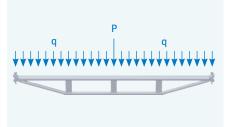
Deck bearer - permissible lateral load

Tube ledger

Tube ledger

permissible¹ lateral load

	LEDGER	LEDGER, reinforced	DOUBLE TUBE LEDGER			
Length L [m]	0.74	1.10	1.50	2.00	2.50	3.00
Permissible uniformly dis- tributed load q [kN/m]	32.70	25.20	24.90	15.60	9.90	7.05
Individual load P [kN] in bay centre	11.85	13.65	21.30	13.05	8.40	6.75



Tube ledger – permissible lateral load



Tube ledger – permissible normal force

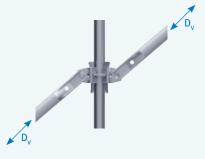
permissible¹ normal force (permissible tension force: 36 kN)

Bay length [m]	0.74	1.10	1.50	2.00	2.50	3.00
Permissible compressive force D [kN]	36.00	36.00	36.00	36.00	27.60	20.10

Vertical diagonal brace

permissible¹ normal force (bay height = 2.00 m) - refer to Technical Approval for further data

Bay length [m]	0.74	1.10	1.50	2.00	2.50	3.00
Permissible compressive force D [kN]	17.10	18.10	18.50	15.50	12.80	10.50
Permissible tensile force D [kN]	21.60	22.90	23.70	24.30	23.50	22.90



Vertical diagonal brace

1 Permissible loads are calculated with γ M=1.1.

Note: Permissible loads are obtained by dividing the stress capacity by 1.5 (γ F).

TECHNICAL DETAILS

Load classes of scaffolding decks

	DESIGNATION	BAY LENGTH L (m)	BRICK GUARD AND ROOF BRICK GUARD APPLICATIONS	ASSIGNMENT OF DECKING TO LOAD CLASSES	
	Steel deck 0.32 m	≤ 2.00 2.50 3.00	permissible permissible permissible	6 5 4	
	Wooden deck 0.32 m	4.00 ≤ 1.50 2.00 2.50	permissible permissible permissible permissible	3 6 5 4	
DECKS	Solid aluminium deck 0.32 m	3.00 ≤ 2.00 2.50 3.00	permissible permissible permissible permissible	3 6 5 4	
SCAFFOLDING DECKS	Lightweight deck 0.64 m	4.00 1.50 2.00	– permissible permissible	2 4 4	
	Frame platform 0.64 m	2.50 3.00 ≤ 3.00	permissible permissible permissible	4 3 3	
	film-coated plywood decking Access deck with ladder 0.64 m film-coated plywood decking	≤ 3.00	permissible	3	
l	Access deck with ladder 0.64 m chequer plate decking	2.50 3.00	permissible permissible	3 3	
	Access deck without ladder 0.64 m film-coated plywood decking	≤ 3.00	permissible	3	

Parameters of horizontal diagonal braces

Extract of approval no. Z–8.22–932 (refer to Technical Approval for further data)

CES	BAY LENGTH (m)	BAY WIDTH (m)	N _{h,r,d} (kN)
L BRA	2.00	0.74	3.03
SONA	2.50	0.74	3.00
L DIAG	3.00	1.10	2.95
HORIZONTAL DIAGONAL BRACES	N _{H,R,d}	η	N _{H,R,d}

Cross-sectional values of base jacks

The substitute cross-sectional values of base jacks for the stress and deformation analyses according to DIN 4425 are to be assumed as follows:

	$A = A_s$	=	3.52 cm ²	
×	I	=	4.00 cm ⁴	
BASE JACK	$W_{_{el}}$	=	2.68 cm ³	
BAS	W _{pl}	=	1.25 × 2.68 = 3.35 cm ³	1

EXTRACTS FROM THE DIN EN 12811 STANDARD

	LOAD CLASS	UNIFORMLY	CONCENTRATED LOAD ON	CONCENTRATED LOAD ON	PARTIAL AREA	LOAD
		DISTRIBUTED LOAD q ₁ in kN/m ²	AREA 500 mm X 500 mm F ₁ in kN	AREA 200 mm X 200 mm F ₂ in kN	$q_2^{}$ in kN/m ²	Partial area factor a _p 1)
AREAS	1	0.75	1.50	1.00	-	-
NG AR	2	1.50	1.50	1.00	-	-
WORKING	3	2.00	1.50	1.00	-	-
Ň	4	3.00	3.00	1.00	5.00	0.4
	5	4.50	3.00	1.00	7.50	0.4
	6	6.00	3.00	1.00	10.00	0.5

Service loads on working areas

Headroom classes

	CLASS		HEADROOM	
AREAS		between wor- king areas h ₃	between working areas and transoms or tie members ${\rm h_{{\scriptscriptstyle 1a}}}$ and ${\rm h_{{\scriptscriptstyle 1b}}}$	clear shoulder height h ₂
WORKING A	H ₁	h ₃ ≥ 1.90 m	1.75 m ≤ h _{ia} ≤ 1.90 m 1.75 m ≤ h _{ib} ≤ 1.90 m	h₂ ≥ 1.60 m
Ň	H ₂	h ₂ ≥ 1.90 m	h _{1a} ≥ 1.90 m h _{1b} ≥ 1.90 m	h₂ ≥ 1.75 m

Headroom and width classes of working areas

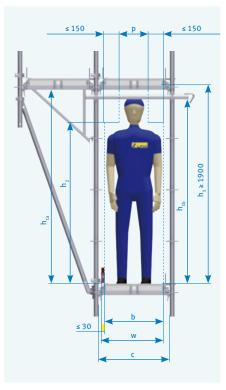
b	width of passage clearance, 500 mm is the minimum requirement, and (c - 250 mm)
с	width of clearance between standards
$h_{_{1a}}, h_{_{1b}}$	width of clearance between working areas and transoms or tie members
h ₂	clear shoulder height
h,	clear height between working areas
р	clear width in the head area; 300 mm is the minimum requirement, and (c - 450 mm)
W	width of working areas

Designation of scaffolds according to the standard EN 12810-1 Example: Scaffold EN 12810 – 3 D – SW06/250 – H2 – A – LA

Scaffold EN 12810	Frame scaffold (system scaffold) according to DIN EN 12810-1
3	Load class 3 (see Table 3 DIN EN 12811-1)
D	Drop tests on platforms
	(D = with drop test, N = without drop test)
SW09/250	System width class (see table 1 DIN EN 12811-1);
	here: between 0.90 m and 1.20 m/bay length 2.50 m
H2	Headroom class (see Table 2 DIN EN 12811-1)
Α	without cladding (A = without cladding, B = with cladding)
LA	with ladder (LA = ladder, ST = stairway, LS = both)

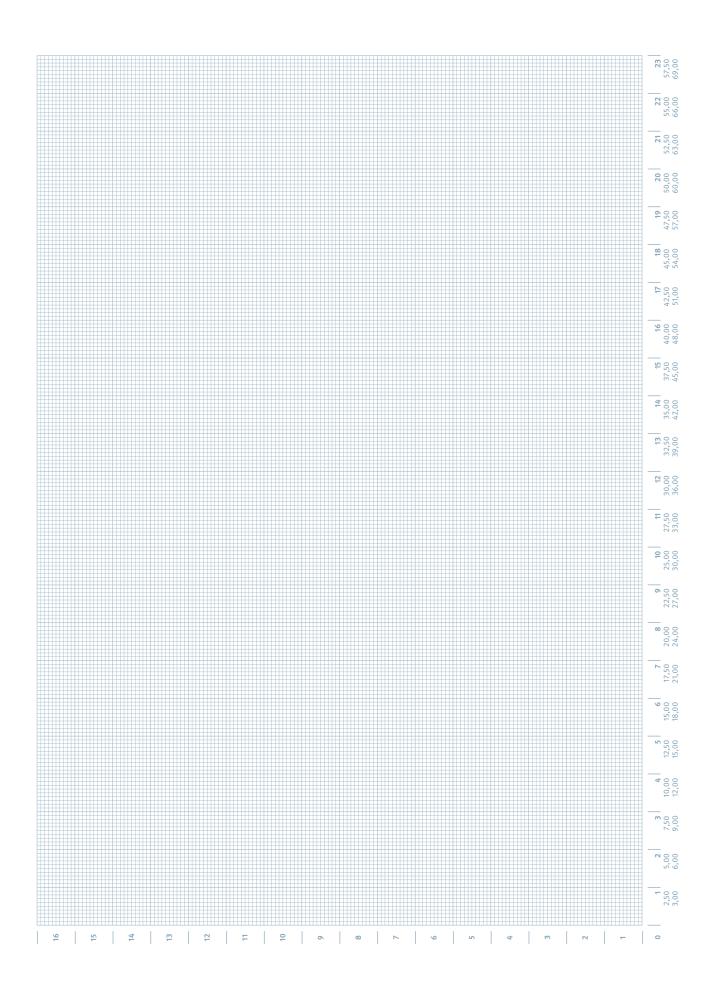
Width classes

	WIDTH CLASS	w in m
	W06	0.6 ≤ w ≤ 0.9
AS	W09	0.9 ≤ w ≤ 1.2
WORKING AREAS	W12	1.2 ≤ w ≤ 1.5
RKING	W15	1.5 ≤ w ≤ 1.8
мо	W18	1.8 ≤ w ≤ 2.1
	W21	2.1 ≤ w ≤ 2.4
	W24	2.4 ≤ w



NOTES

SKETCHES



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SALE OF:

- Working and safety scaffolds
- Mobile scaffold towers
- Temporary roofs
- Chimney scaffolds
- Accessories

LEASING OF:

- Working and safety scaffolds
- Temporary roofs



Edition: October 2023

