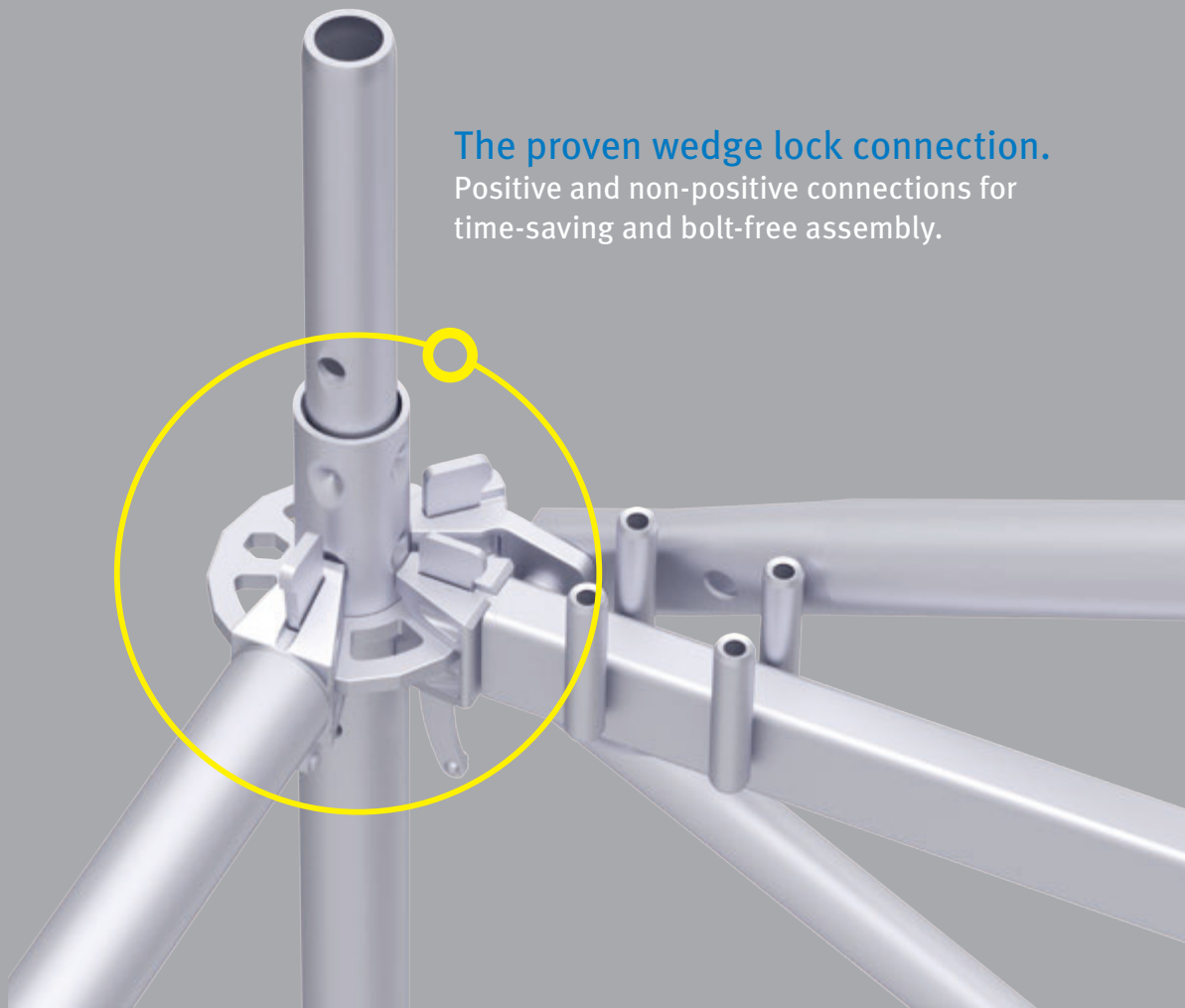
ALFIX
SECURELY SCAFFOLDED

ALFIX MODUL METRIC

Catalogue and Price List



The proven wedge lock connection.

Positive and non-positive connections for time-saving and bolt-free assembly.

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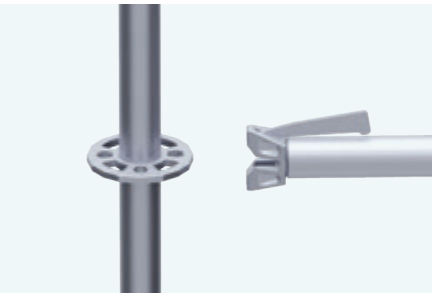

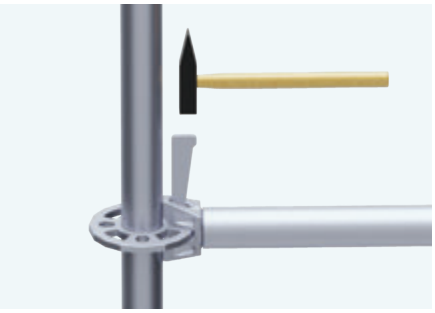

Key element of the ALFIX MODUL METRIC system is the ALFIX modular connector: the rosette. Proven wedge lock connection for time-saving and bolt-free assembly thanks to positive and non-positive connections. Rosettes at every 50 cm with eight openings permit connections at any angle. This design offers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

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

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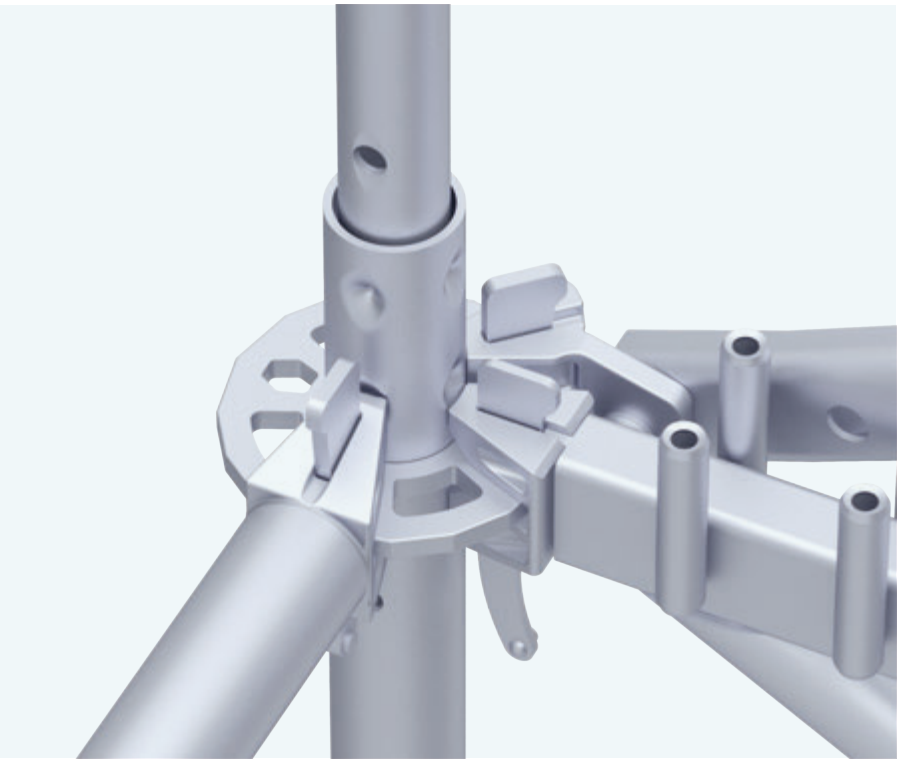
CATALOGUE AND PRICE LIST - ALFIX MODUL METRIC

Edition: May 2019

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).



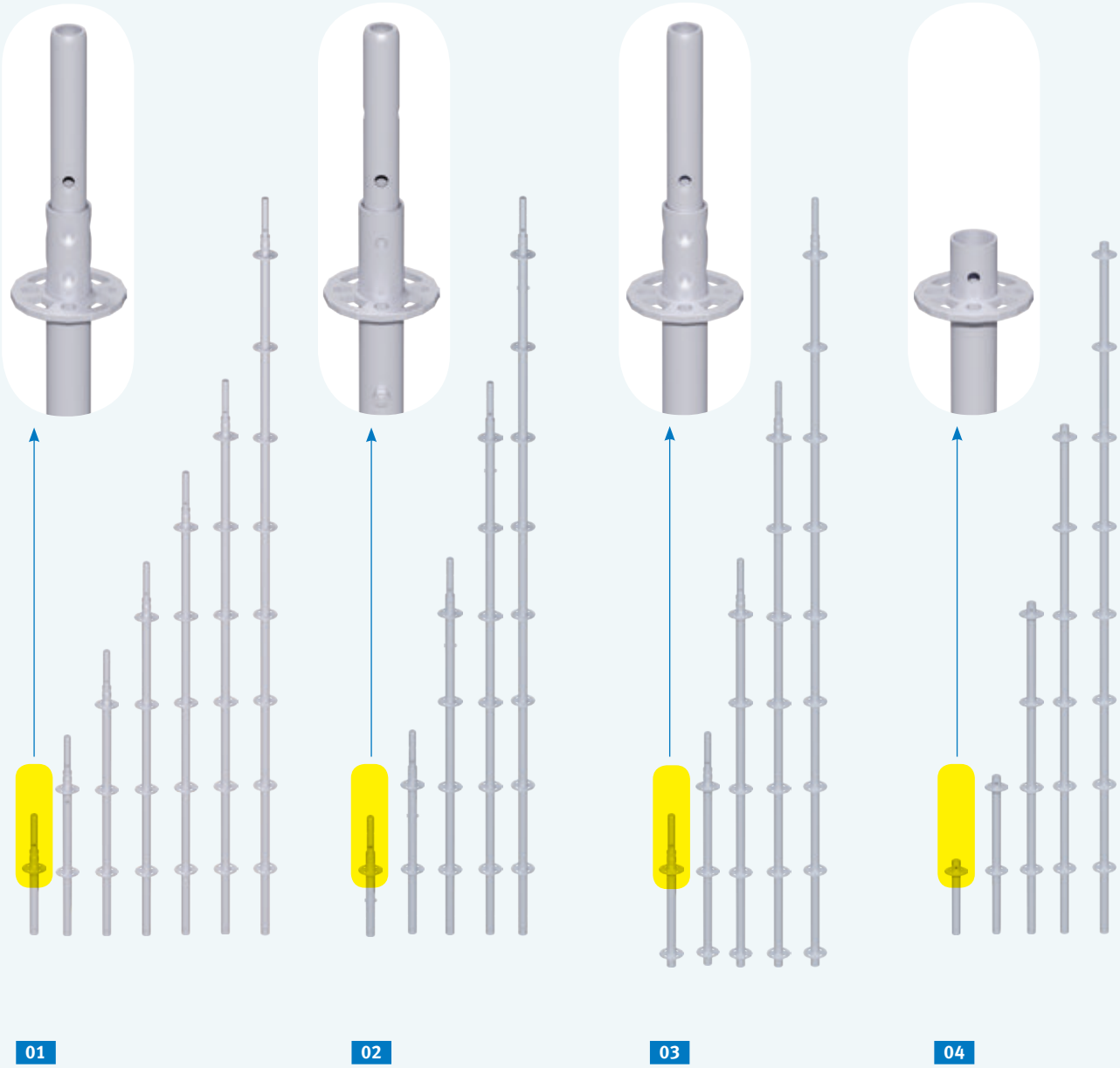
Rosette made of steel with four small openings for right-angled connections (ledgers) and four larger openings for connections at any angle (ledgers and diagonal braces). Please refer to page 36 for detailed information on load-bearing capacity of the rosette.

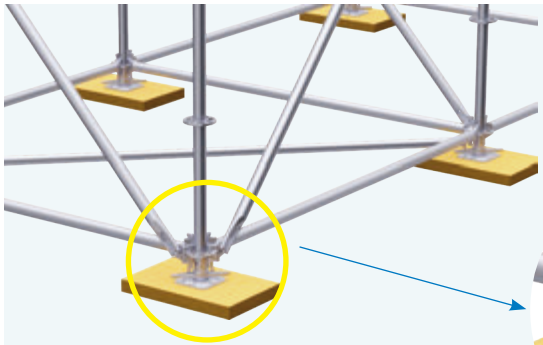
Technical Approval:

ALFIX MODUL METRIC (Z-8.22-932)

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





APPLICATION EXAMPLE

03 VERTICAL STARTER STANDARD

— for tube ledger suspension

— first rosette at 6.5 cm from the bottom of the standard

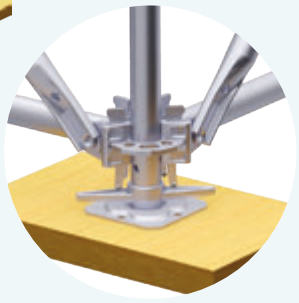
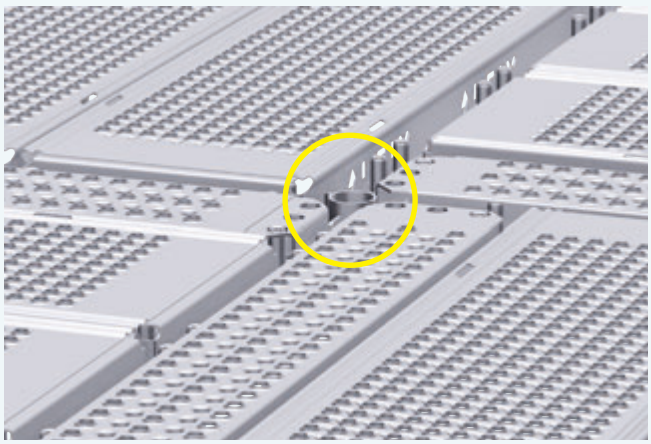
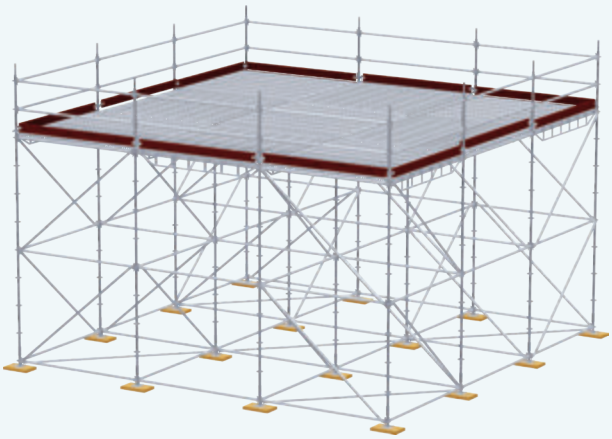


FIG.	DESCRIPTION	DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.	PRICE [€]
01	**Standard** with pressed-in tube connector (TC)* steel tube 48.3 mm × 3.2 mm, hot-dip galvanised — with rosettes at every 50 cm — first rosette at 40 cm from the bottom of the standard	0.50	3.2	40 04 050	**18.80**
		1.00	5.5	40 04 100	**24.10**
		1.50	7.7	40 04 150	**34.30**
		2.00	10.1	40 04 200	**39.40**
		2.50	12.3	40 04 250	**53.70**
		3.00	14.6	40 04 300	**58.40**
		4.00	19.2	40 04 400	**74.80**
02	**Standard** with screwed-in tube connector (TC)* steel tube 48.3 mm × 3.2 mm, hot-dip galvanised — for suspended scaffolding — incl. screws — with rosettes at every 50 cm — first rosette at 40 cm from the bottom of the standard	0.50	4.0	40 05 050	**28.60**
		1.00	6.2	40 05 100	**33.90**
		1.50	8.5	40 05 150	**44.10**
		2.00	10.8	40 05 200	**49.20**
		2.50	13.0	40 05 250	**63.50**
		3.00	15.3	40 05 300	**68.20**
		4.00	19.9	40 05 400	**86.85**
03	**Vertical starter standard** with pressed-in tube connector (TC)* ⊕ steel tube 48.3 mm × 3.2 mm, hot-dip galvanised — upon request also available with screwed-in TC — with rosettes at every 50 cm — first rosette at 6.5 cm from the bottom of the standard	0.66	3.9	48 15 066	**26.50**
		1.16	6.0	48 15 116	**36.50**
		2.16	10.2	48 15 216	**53.00**
		3.16	13.8	48 15 316	**74.50**
		4.16	14.4	48 15 416	**99.50**
04	**Top standard*** ⊕ steel tube 48.3 mm × 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	1.9	48 30 046	**19.60**
		0.96	4.0	48 30 096	**24.90**
		1.96	8.3	48 30 196	**40.60**
		2.96	12.5	48 30 296	**60.30**
		3.96	16.8	48 30 396	**74.90**

APPLICATION EXAMPLE

04 TOP STANDARD for creating a plane deck surface

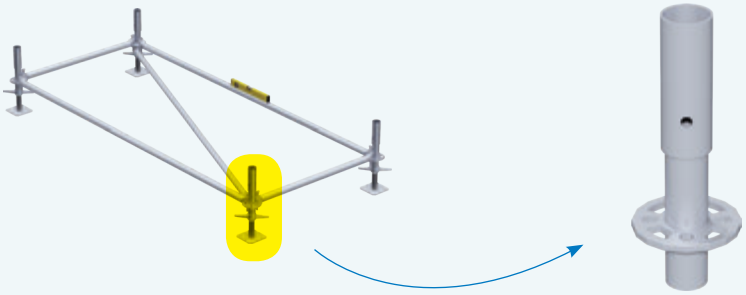




*please refer to page 37 for the load-bearing capacity of the standards

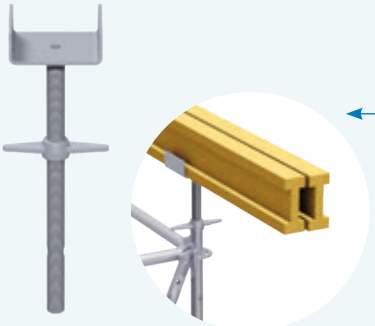
VERTICAL SUPPORT ELEMENTS

01



03

04



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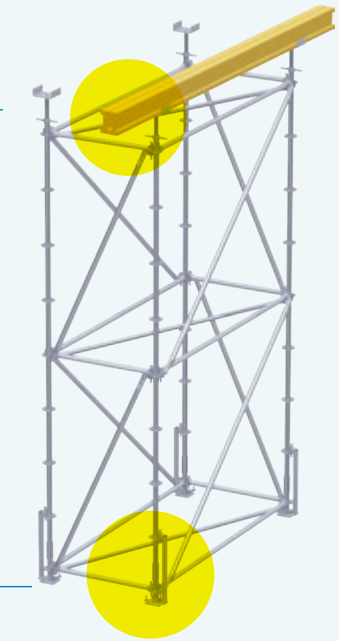
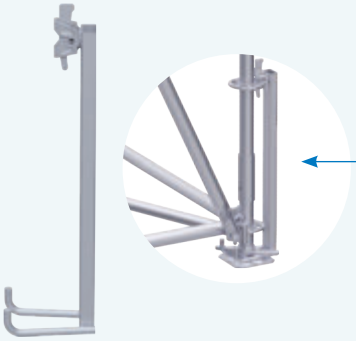


APPLICATION EXAMPLE

06 Head spindle "U" and

07 Locking device for base jack

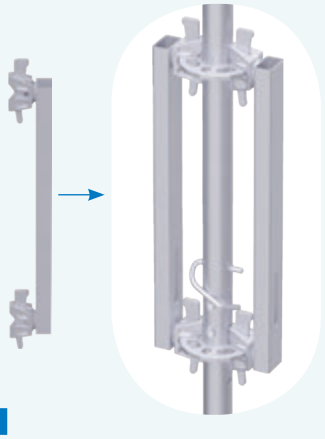
05



07

08

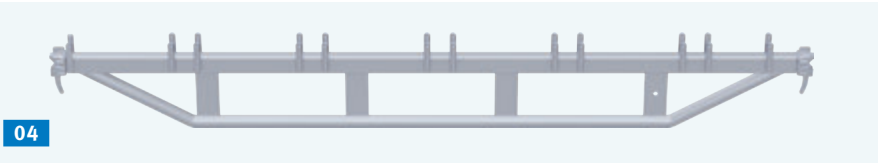
09



10a

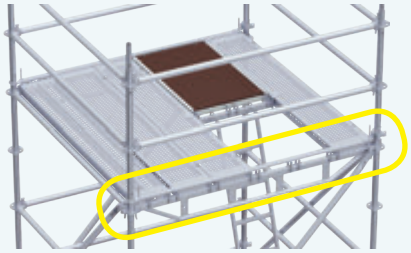
FIG.	DESCRIPTION		SPINDLE TRAVEL [m]	DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.	PRICE [€]
01	**Tube connector** for suspended scaffolds steel tube, hot-dip galvanised — as a spare part for vertical upright with screwed-in tube connector	spigot fitting 520: spare part from 2008 (year of manufacture)		0.52	1.7	83 40 050	**9.80**
02	**Hexagon bolt** M12 × 60 mm steel, galvanised, with M12 hexnut, self-locking (not shown)				0.05	73 01 260	**0.80**
03	**Vertical starter piece** steel, hot-dip galvanised — facilitates horizontal alignment — racking of uprights by only one person			0.41	1.8	40 00 041	**11.20**
04	**Base jack** steel, hot-dip galvanised — baseplate 15 x 15 cm — with smooth running tubular spindle and grip nut — safety catch against removing		0.25	0.40	3.0	11 51 040	**14.40**
			0.45	0.60	3.6	11 51 060	**15.90**
			0.60	0.80	4.4	11 51 080	**22.90**
05	**Base jack, swivelling** steel, hot-dip galvanised		0.45	0.60	4.5	11 52 060	**35.50**
06	**Head spindle "U"** ⊕ steel, hot-dip galvanised — opening width 174 mm, supporting length 160 mm, depth 62 mm — boreholes for fixing formwork girders		0.45	0.60	6.0	41 59 000	**36.40**
			0.75	1.00	8.0	41 59 100	**51.05**
07	**Locking device for base jack** ⊕ steel, hot-dip galvanised — ensures tight fit of base jack during crane operations			0.65	3.5	41 52 003	**23.50**
08	**Castor** steel, galvanised, wheel type: plastic ø 200 mm — with twinbrake lever — permissible max. load: 10 kN — load centering — locked by a winged screw		0.35	0.50	6.5	14 12 007	**128.10**
09	**Flange castor** steel, galvanised, wheel type: plastic ø 200 mm — permissible max. load: 7 kN		0.45	0.70	6.7	14 12 005	**235.20**
10	**Suspended scaffolding connector** steel, hot-dip galvanised — for securing vertical upright connections — Installation always in pairs.	10a		0.60	3.0	48 75 060	**31.40**
	— for a secure connection of stairway tower modules (flight by flight assembly)	10b		0.80	3.6	48 75 080	**31.40**

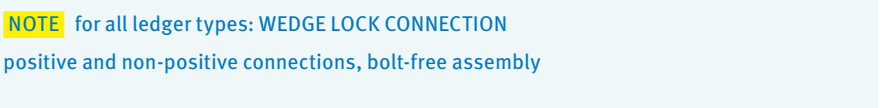
HORIZONTAL SUPPORT ELEMENTS / SIDE PROTECTION

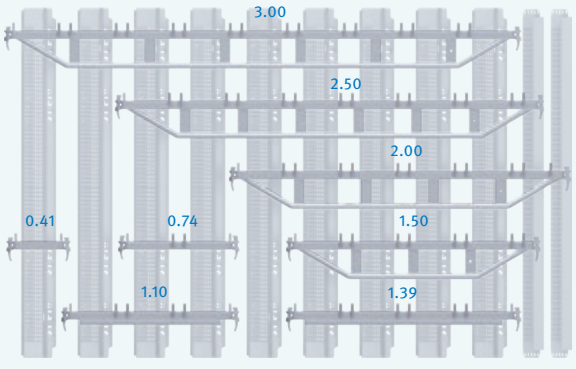


NOTE for all ledger types: WEDGE LOCK CONNECTION
positive and non-positive connections, bolt-free assembly

APPLICATION EXAMPLE:
04 2-DECK BEARER (UNIFIX FIXTURE)
05 LIFT-OFF PREVENTER

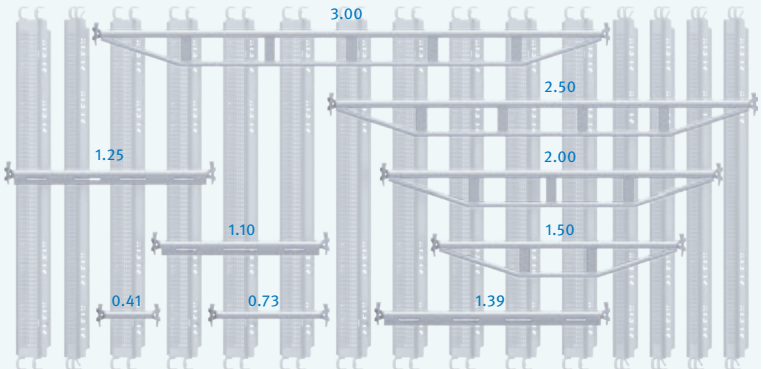


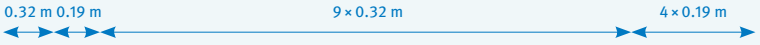




Steel deck 0.32 m and **intermediate deck 0.14 m**

APPLICATION EXAMPLE: LEDGER CONFIGURATION
3a Deck bearer
3b Deck bearer, reinforced
04 2-deck bearer



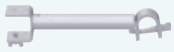


Steel deck with tube fixture 0.32 m and **intermediate deck with tube fixture 0.19 m**

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

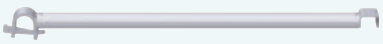
FIG.	DESCRIPTION		DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.	PRICE [€]
01	**Tube ledger** ⊕ steel tube 48.3 mm x 3.2 mm, hot-dip galvanised — for use as horizontal connecting element, side protection and – in reinforced design – as deck bearer — colour coding clearly indicates the bay length (see p. 16) — reinforced ledgers are capable of bearing higher loads	1a Tube ledger	0.25	1.4	48 60 025	**27.50**
			0.41	2.0	48 60 040	**18.30**
			0.50	2.4	48 60 050	**18.30**
			0.74	3.2	48 60 074	**18.30**
			0.75	3.2	48 60 075	**18.30**
			1.00	4.2	48 60 100	**23.00**
			1.10	4.4	48 60 110	**24.00**
			1.25	5.1	48 60 125	**26.50**
			1.39	5.6	48 60 140	**27.50**
			1.50	6.0	48 60 150	**27.00**
			2.00	7.9	48 60 200	**30.00**
			2.50	9.7	48 60 250	**34.80**
			3.00	11.5	48 60 300	**39.20**
			4.00	14.1	48 60 400	**58.80**
		1b Tube ledger, reinforced	1.10	6.1	48 61 110	**32.75**
			1.25	7.1	48 61 125	**37.90**
			1.39	7.9	48 61 139	**48.50**
02	**Double tube ledger** ⊕ steel tube 48.3 mm x 3.2 mm, hot-dip galvanised — for higher loads — receiving element for decks with tube suspension		1.50	9.7	48 61 150	**59.80**
			2.00	12.9	48 61 200	**69.80**
			2.50	15.9	48 61 250	**82.50**
			3.00	19.3	48 61 300	**95.20**
03	**Deck bearer (UNIFIX fixture)** ⊕ steel, hot-dip galvanised — available in reinforced design (depending on length) — with pins for fitting system decks, requires lift-off prevention against unintentional lifting 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).	3a 1-deck	0.41	2.3	48 65 040	**26.50**
		2-deck	0.74	3.9	48 65 074	**29.00**
		3b 3-deck (reinforced)	1.10	6.9	48 65 110	**44.50**
		4-deck (reinforced)	1.39	9.1	48 65 140	**61.50**
04	**2-deck bearer (UNIFIX fixture)** ⊕ steel, hot-dip galvanised — receiving element for system decks		1.50	11.7	48 65 150	**71.50**
			2.00	15.3	48 65 200	**95.00**
			2.50	19.3	48 65 250	**111.50**
			3.00	21.2	48 65 300	**128.50**
05	**Lift-off preventer** ⊕ steel, hot-dip galvanised — lift-off prevention for decks fitted onto deck bearers with UNIFIX fixture (pos. 03 and 04)		0.41	1.4	48 98 041	**23.95**
			0.74	1.4	48 98 074	**26.00**
			1.10	2.1	48 98 110	**31.20**
			1.39	2.3	48 98 140	**31.20**
			1.50	2.9	48 98 150	**33.50**
			2.00	3.9	48 98 200	**43.50**
			2.50	4.8	48 98 250	**51.00**
			3.00	5.7	48 98 300	**56.00**

HORIZONTAL SUPPORT ELEMENTS / SIDE PROTECTION

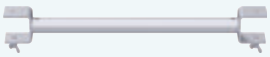


1a

2a



03



1b

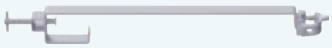
2b

04

APPLICATION EXAMPLE

03 BOARD BEARER WITH TUBE FIXTURE

with system-independent decks



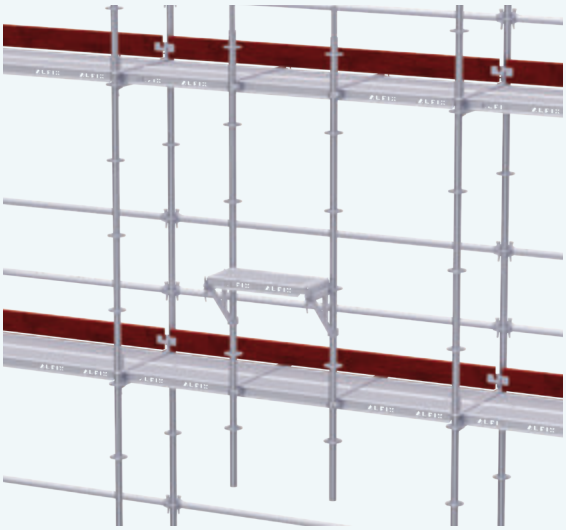
05

06

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.



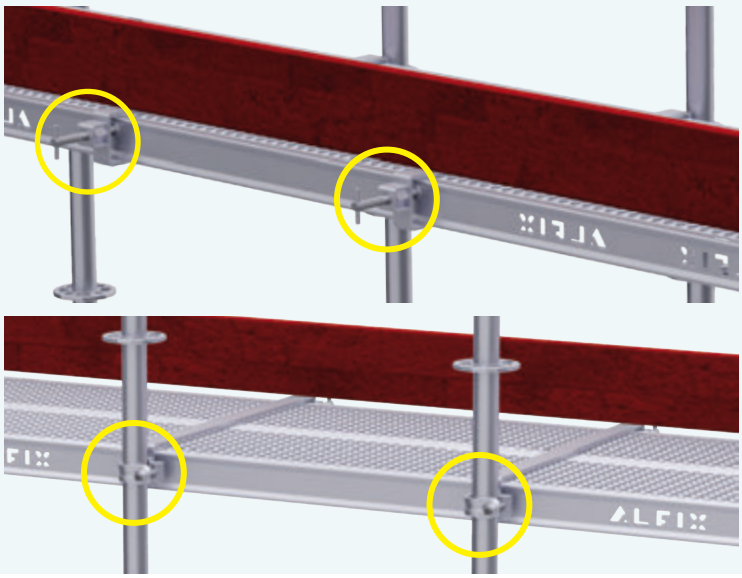
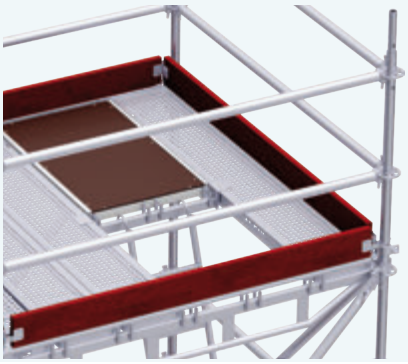


FIG.	DESCRIPTION		DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.	PRICE [€]
01	**Intermediate deck bearer with tube fixture** steel, hot-dip galvanised — for decks with tube fixture	1a ledger to deck version one side with tube ledger suspension / one side with steel deck suspension	0.32	2.8	40 53 032	**26.80**
			0.64	3.9	40 53 064	**29.70**
			0.96	5.1	40 53 096	**33.80**
		1b deck to deck version both sides with steel deck suspension	0.32	3.1	40 51 032	**26.80**
			0.64	4.2	40 51 064	**29.70**
			0.96	5.4	40 51 096	**33.80**
02	**Intermediate deck bearer (UNIFIX fixture)** steel, hot-dip galvanised — for system decks	2a ledger to deck version one side with tube ledger suspension / one side with steel deck suspension	0.32	2.7	48 54 032	**27.00**
			0.64	4.1	48 54 064	**30.50**
			0.96	5.6	48 54 096	**36.50**
		2b deck to deck version ⊕ both sides with steel deck suspension	0.32	2.7	48 52 032	**27.50**
			0.64	4.1	48 52 064	**32.00**
			0.96	5.6	48 52 096	**37.50**
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 level when decks with tube fixtures are used — also suitable as side protection — permissible distributed line load must be observed		0.74	5.0	40 50 070	**24.30**
			1.00	8.1	40 50 100	**25.00**
			1.50	9.7	40 50 150	**34.00**
			2.00	10.2	40 50 200	**41.50**
			2.50	12.4	40 50 250	**51.50**
			3.00	14.9	40 50 300	**57.00**
04	**Board bearer (UNIFIX fixture)** ⊕ steel, hot-dip galvanised — both sides with tube ledger suspension — for creating openings in the scaffolding deck when using system decks		0.74	4.2	48 50 074	**30.50**
			1.10	7.3	48 50 110	**45.30**
05	**Recess bracket holder** ⊕ steel, hot-dip galvanised, wrench size 19 — with integrated halfcoupler — for all scaffolding systems up to bay widths 0.65 m and 1.00 m		0.70	2.3	14 51 060	**31.55**
			1.00	2.9	14 51 100	**38.10**
06	**Recess bracket starting piece** steel, hot-dip galvanised		0.35	1.7	14 40 000	**6.10**

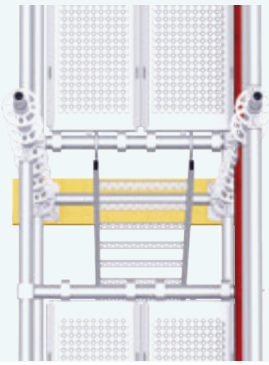
APPLICATION EXAMPLE

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



APPLICATION EXAMPLE

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



HORIZONTAL SUPPORT ELEMENTS / SIDE PROTECTION

01

02

03

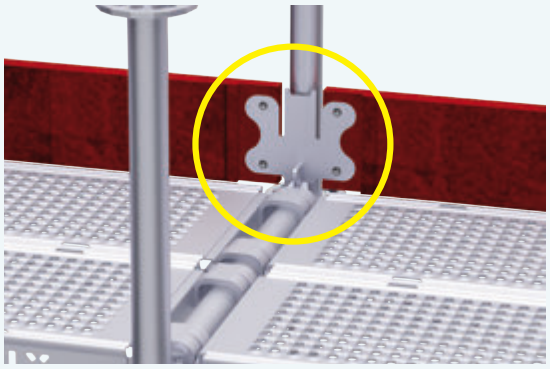
04

APPLICATION EXAMPLE

01 **TOEBOARD** on steel deck with tube fixture

APPLICATION EXAMPLE

01 **TOEBOARD** on steel deck with tube fixture

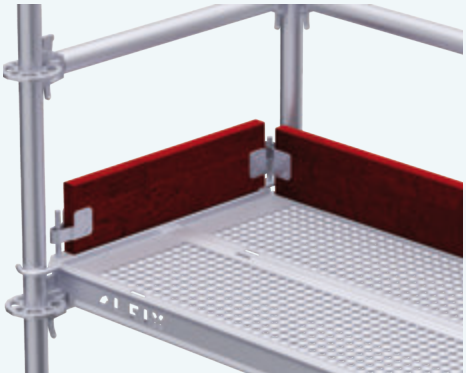


APPLICATION EXAMPLE

02 **TOEBOARD UNIFIX**

03 **TRANSVERSE TOEBOARD UNIFIX** and **LIFT-OFF PREVENTER**

(see pages 8/9)



APPLICATION EXAMPLE

02 **TOEBOARD UNIFIX**

04 **TOEBOARD SUPPORT**

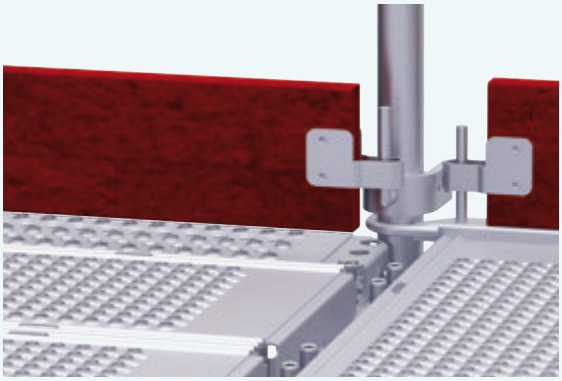


FIG.	DESCRIPTION	DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.	PRICE [€]
01	**Toeboard, wood** ⊕ with claws, standard height 15 cm — weather-resistant — for use with decks with tube fixture — fixture of toeboards between standard and wedge head	0.74	1.6	48 95 075	**15.00**
		1.00	2.2	48 95 100	**16.00**
		1.10	2.2	48 95 110	**16.00**
		1.50	3.2	48 95 150	**17.50**
		2.00	4.1	48 95 200	**19.00**
		2.50	5.1	48 95 250	**20.50**
		3.00	6.0	48 95 300	**22.50**
		4.00	9.6	48 95 400	**29.15**
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	**13.50**
		1.10	2.4	22 50 110	**13.90**
		1.50	4.0	22 50 150	**14.20**
		2.00	5.0	22 50 200	**15.00**
		2.50	6.5	22 50 250	**16.50**
		3.00	7.5	22 50 300	**17.80**
		4.00	10.0	22 50 400	**49.00**
03	**Transverse toeboard UNIFIX, wood** with claws, standard height 15 cm — fitted by means of 04 toeboard support or lift-off preventer — in conjunction with lift-off preventer (see pages 8/9) and system decks	0.74	1.4	48 51 074	**12.70**
		1.10	1.9	48 51 110	**13.50**
		1.50	2.7	48 51 150	**14.45**
		2.00	3.6	48 51 200	**16.15**
		2.50	4.5	48 51 250	**17.45**
		3.00	5.3	48 51 300	**18.80**
04	**Toeboard support** ⊕ steel, hot-dip galvanised		0.8	13 13 030	**11.80**

PLAN, DESIGN AND ORDER THE SCAFFOLDING STRUCTURE THAT MEETS YOUR NEEDS.
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HORIZONTAL SUPPORT ELEMENTS / SIDE PROTECTION

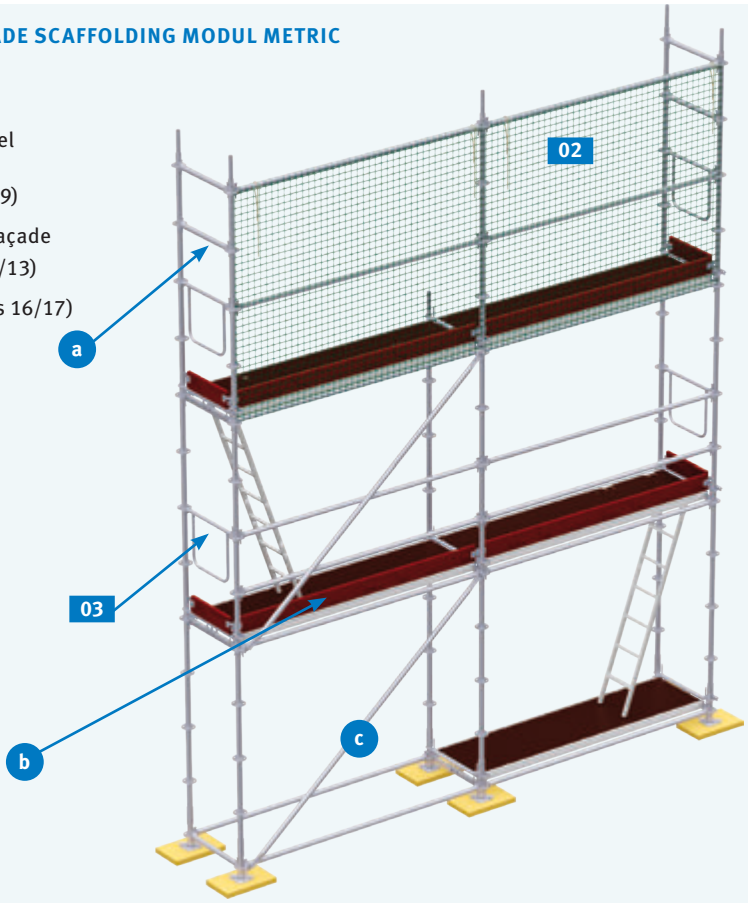
1a

1b

02

APPLICATION EXAMPLE: FAÇADE SCAFFOLDING MODUL METRIC

- 02 Guard net system
- 03 Double end guardrail, steel
- a Tube ledger (see pages 8/9)
- b Toeboard, wood, UNIFIX façade scaffolding (see pages 12/13)
- c Diagonal brace (see pages 16/17)



03

04

05

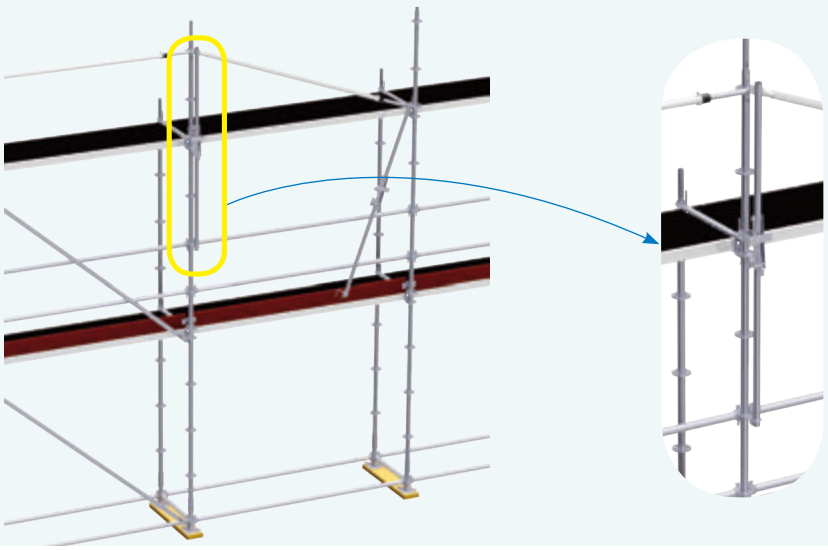
06

FIG.	DESCRIPTION	DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.	PRICE [€]
01	**Advanced side protection** — assembled with guardrail post and telescopic guardrail — for a high level of safety during assembly / dismantling — for all compatible scaffolding systems — Please follow the Instructions for Assembly and Use and the provisions of the employer's liability insurance association for construction sites (BG Bau) to ensure proper use.				
1a	Advanced guardrail post steel, hot-dip galvanised	2.00	6.8	40 78 000	**64.45** Special net price
1b	Advanced telescopic guardrail aluminium and steel, hot-dip galvanised incl. linchpin with snap-on lock for transport security	2.50 – 3.07	7.9	14 43 200	**54.25** Special net price
02	**Guard net system** height 2.00 m, green, mesh size 100 mm — with tube ledger (at the top) and aluminium tube ø 40.5 mm (at the bottom) — tube connector for assembly in compliance with design parameters (bay by bay) — two fixing cords (left and right) for system-independent nets please see the ALFIX Accessories Catalogue	2.00 × 2.00	13.0	48 76 200	**144.80**
		2.50 × 2.00	14.0	48 76 250	**170.35**
		3.00 × 2.00	15.0	48 76 300	**184.10**
03	**Double end guardrail, steel** steel tube ø 33.7 mm, hot-dip galvanised — for use as end side protection for façade scaffolding	0.74	3.6	48 62 074	**27.10**
		1.10	4.1	48 62 110	**29.70**
04	**Safety helmet with chin strap**	white (not shown)	0.4	37 50 018	**73.85**
		yellow	0.4	37 50 024	**73.85**
05	**Personal fall protection equipment kit (PPE)** EN 354 / 355 / 361 / 363, sharp-edge tested — with special carabiners to suit scaffolding use — delivered in a functional PVC bag — Revolution R2 Scaff harness 2.50 m, safety rope Manyard Edge — with Pivot Link™ attachment point at waist level to securely attach accessories, e.g. 06 ratchet spanner holster			37 67 009	**308.45** Special net price
06	**Ratchet spanner holster** with Pivot Link™ attachment point for secure attachment to the safety harness			37 50 017	**17.15**

APPLICATION EXAMPLE

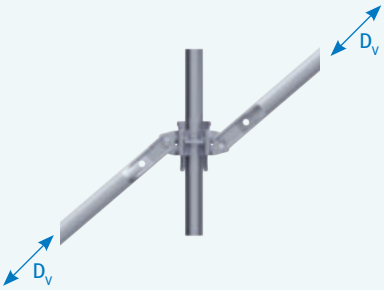
01 ADVANCED GUARDRAIL POST

with convenient foot release mechanism



DIAGONAL BRACING

Vertical diagonal braces



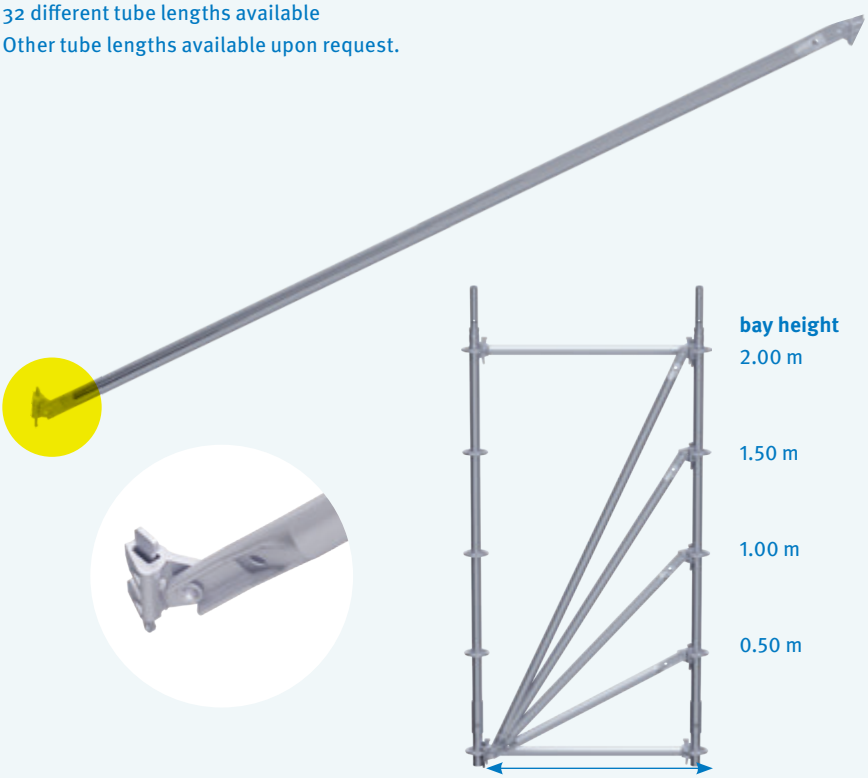
Different bay lengths
Colour code indication of bay length:

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

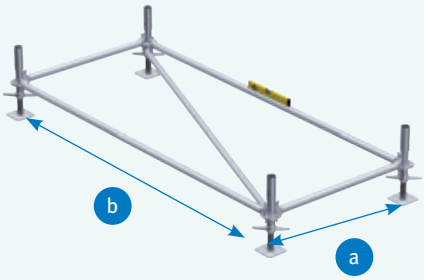
01 VERTICAL DIAGONAL BRACE
32 different tube lengths available
Other tube lengths available upon request.



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

Horizontal diagonal braces

serves to brace horizontal levels in scaffolding / birdcage scaffolding



a 0.74 – 3.00 m
b 0.74 – 3.00 m

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

02

03

FIG.	DESCRIPTION		DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.	PRICE [€]
01	**Vertical diagonal brace*** steel tube 48.3 x 2.7 mm, hot-dip galvanised — wedge lock connection ensures positive and non-positive connection — bolt-free assembly — serves to brace the basic scaffold	for bay height 2.00 m	0.74	7.7	48 21 200	**36.40**
			1.10	8.1	48 22 200	**38.00**
			1.39	8.6	48 23 200	**39.00**
			1.50	8.8	48 24 200	**39.10**
			2.00	9.8	48 25 200	**41.40**
			2.50	10.8	48 26 200	**45.05**
			3.00	12	48 27 200	**45.55**
		for bay height 1.50 m	1.50	7.8	48 24 150	**43.00**
			2.00	9.0	48 25 150	**45.00**
			2.50	10.2	48 26 150	**45.00**
			3.00	11.5	48 27 150	**49.00**
		for bay height 1.00 m	1.50	6.5	48 24 100	**43.00**
			2.00	8.1	48 25 100	**45.00**
			2.50	9.5	48 26 100	**45.00**
			3.00	10.9	48 27 100	**49.00**
		for bay height 0.50 m	1.50	6.1	48 24 050	**41.90**
			2.00	7.5	48 25 050	**43.00**
			2.50	8.8	48 26 050	**45.00**
			3.00	10.5	48 27 050	**49.00**
02	**Horizontal diagonal brace** steel tube 42.4 x 2 mm, hot-dip galvanised — Available for any possible combination of [bay length] x [bay width]. — pin suspension (bolt-free) — serves to brace horizontal levels in scaffolding without decks	for bay length 2.00 m	0.74	5.2	48 41 200	**44.05**
			1.10	5.8	48 42 200	**44.15**
		for bay length 2.50 m	0.74	6.8	48 41 250	**44.05**
			1.10	7.3	48 42 250	**49.25**
		for bay length 3.00 m	0.74	7.2	48 41 300	**49.75**
			1.10	8.4	48 42 300	**51.60**
03	**Horizontal diagonal ledger** steel tube 48.3 x 3.2 mm, hot-dip galvanised — wedge lock connection ensures positive and non-positive connection — bolt-free assembly — serves to brace horizontal levels in birdcage scaffolding		1.50 × 1.50	8.7	48 23 502	**44.00**
			2.00 × 2.00	9.7	48 23 503	**54.00**
			2.50 × 2.50	10.6	48 23 504	**65.25**
			3.00 × 3.00	12.0	48 23 505	**76.50**

* see page 37 for permissible loads

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SCAFFOLDING DECKS / ACCESS DECKS

01

02

03

04

05

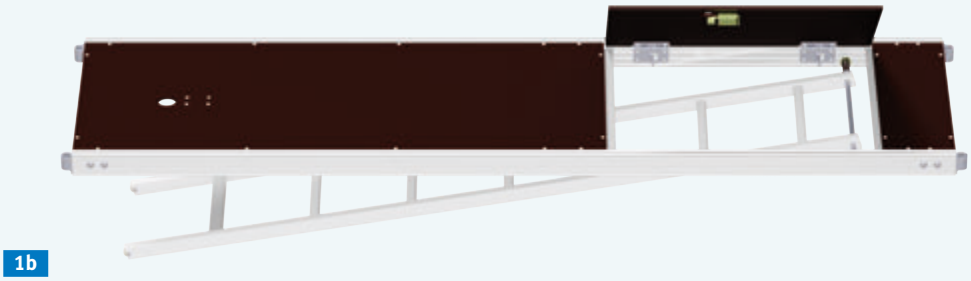
06

07

FIG.	DESCRIPTION	LOAD CLASS	DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.	PRICE [€]
01	**Steel deck, 0.32 m wide** hot-dip galvanised, perforated — high load capacity — non-slip surface — with system fixture	6	0.74 × 0.32	5.3	22 21 074	**50.50**
		6	1.10 × 0.32	7.6	22 21 110	**52.00**
		6	1.50 × 0.32	11.1	22 21 150	**59.50**
		6	2.00 × 0.32	13.4	22 21 200	**66.50**
		5	2.50 × 0.32	16.8	22 21 250	**72.50**
		4	3.00 × 0.32	20.1	22 21 300	**82.50**
02	**Steel deck with tube fixture, 0.32 m wide** hot-dip galvanised, perforated — with lift-off preventer — with tube suspension	6	0.74 × 0.32	7.1	48 20 074	**55.00**
		6	1.00 × 0.32	9.4	48 20 100	**56.50**
		6	1.10 × 0.32	10.1	48 20 110	**57.00**
		6	1.50 × 0.32	13.0	48 20 150	**62.50**
		6	2.00 × 0.32	16.8	48 20 200	**72.00**
		5	2.50 × 0.32	20.5	48 20 250	**80.00**
		4	3.00 × 0.32	24.3	48 20 300	**90.00**
03	**Wooden deck, 0.32 m wide** — impregnated — triple-layer bonded wood — construction height: 48 mm — secured by a system-compatible steel head piece at both ends	6	0.74 × 0.32	5.5	22 31 070	**32.60**
		6	1.10 × 0.32	8.2	22 31 110	**38.00**
		6	1.50 × 0.32	11.0	22 31 150	**43.20**
		5	2.00 × 0.32	14.3	22 31 200	**49.80**
		4	2.50 × 0.32	18.3	22 31 250	**55.90**
		3	3.00 × 0.32	22.6	22 31 300	**62.50**
04	**Frame platform, 0.64 m / 0.32 m wide** aluminium, film-coated plywood decking — extremely lightweight — with replaceable wood section insert / metal fixtures	3	1.50 × 0.64	11.4	22 02 150	**119.30**
		3	2.00 × 0.64	14.5	22 02 200	**133.20**
		3	2.50 × 0.64	17.9	22 02 250	**170.00**
		3	3.00 × 0.64	20.9	22 02 300	**178.50**
	(not shown)	3	4.00 × 0.32	18.7	22 01 400	**195.05**
05	**Frame platform with tube fixture, 0.60 m / 0.32 m wide** aluminium, film-coated plywood decking — extremely lightweight — with replaceable wood section insert / metal fixtures	3	1.50 × 0.60	12.7	48 03 150	**124.15**
		3	2.00 × 0.60	15.7	48 03 200	**135.95**
		3	2.50 × 0.60	19.1	48 03 250	**151.25**
		3	3.00 × 0.60	22.2	48 03 300	**173.95**
	(not shown)	3	4.00 × 0.32	20.5	48 03 400	**181.15**
06	**Solid aluminium deck, 0.32 m wide** — completely made of aluminium, profile height: 48 mm — hollow chamber profiles with anti-slip longitudinal grooves — stacking bulge, easily stackable — stacking bulge faces downwards which prevents water or ice deposits	6	1.10 × 0.32	4.7	22 11 110	**79.95**
		6	1.50 × 0.32	6.1	22 11 150	**94.00**
		6	2.00 × 0.32	8.0	22 11 200	**109.00**
		5	2.50 × 0.32	9.9	22 11 250	**130.00**
		4	3.00 × 0.32	11.9	22 11 300	**150.00**
		2	4.00 × 0.32	15.7	22 11 400	**275.00**
07	**Lightweight deck, 0.64 m wide** — extremely lightweight, non-slip surface, easily stackable — profile height approx. 50 mm — combination of hollow chamber profiles and aluminium treadplate — with grip recess (plastic) at both ends	4	1.50 × 0.64	11.8	22 13 150	**110.80**
		4	2.00 × 0.64	15.5	22 13 200	**189.00**
		4	2.50 × 0.64	18.7	22 13 250	**226.00**
		3	3.00 × 0.64	22.3	22 13 300	**260.00**

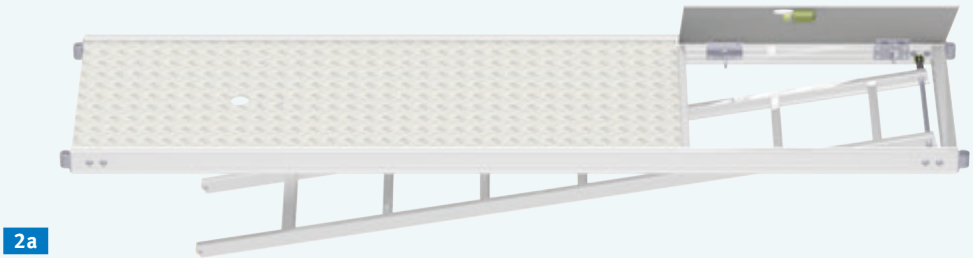
SCAFFOLDING DECKS / ACCESS DECKS

1a



1b

1c

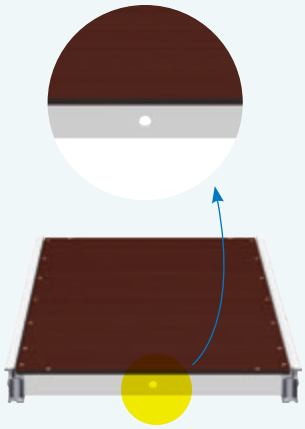


2a

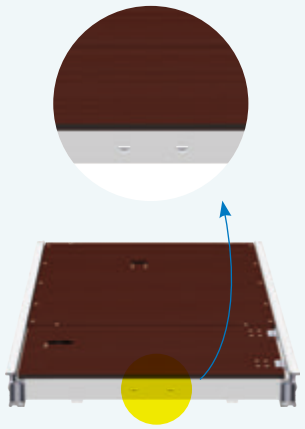
2b

ACCESS DECKS AND PLATFORMS

Platforms without hatch access have 1 borehole at the front end, access decks have 2 boreholes (Ø 16 mm). This helps easily distinguish between the different platform types when they are stacked. The borehole can also be used to attach hooks for vertical transport.



Platform



Access deck

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 32/33).

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.	PRICE [€]
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	**282.50**
	– with system fixture	3	3.00 × 0.64	27.0	22 04 300	**322.50**
1b	Version with ladder	3	2.50 × 0.64	24.0	22 09 250	**291.70**
	– with system fixture – hatch offset, with tread	3	3.00 × 0.64	30.0	22 09 300	**333.80**
1c	Version without ladder	3	1.50 × 0.64	14.9	22 05 150	**183.55**
	– with system fixture	3	2.00 × 0.64	17.0	22 05 200	**241.35**
	– with fitting for storey ladders (see pages 32/33)	3	2.50 × 0.64	23.0	22 05 250	**247.55**
		3	3.00 × 0.64	26.0	22 05 300	**273.25**
02	**Access deck with ladder, 0.64 m** ⊕ aluminium, chequer plate decking – extremely durable and weather-resistant – with replaceable decking / metal fixtures – 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	**312.50**
	– with system fixture	3	3.00 × 0.64	31.9	22 07 300	**345.00**
2a	Version without ladder	3	1.50 × 0.64	16.0	22 08 150	**205.00**
	– with fitting for storey ladders (see pages 32/33)	3	2.00 × 0.64	20.0	22 08 200	**230.00**
		3	2.50 × 0.64	24.0	22 08 250	**281.70**
		3	3.00 × 0.64	27.5	22 08 300	**318.60**

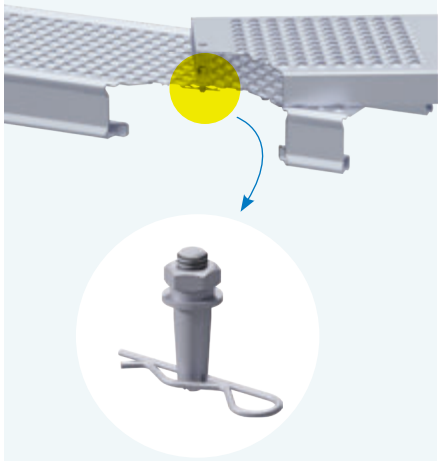
APPLICATION EXAMPLE

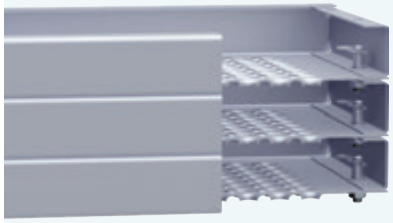
Access deck with ladder (chequer plate decking)

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

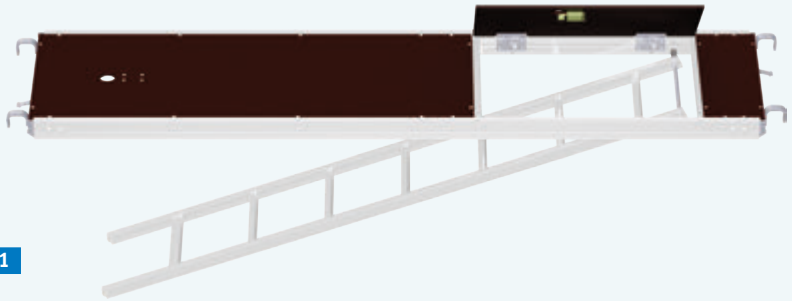
APPLICATION EXAMPLE
05 STEEL PLANK
with locking pin and spring clip



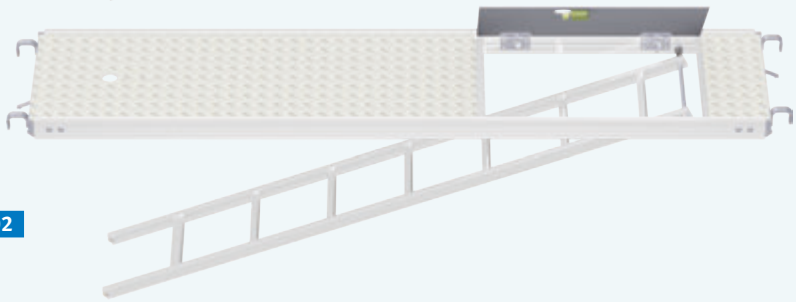


easily stackable

06



01



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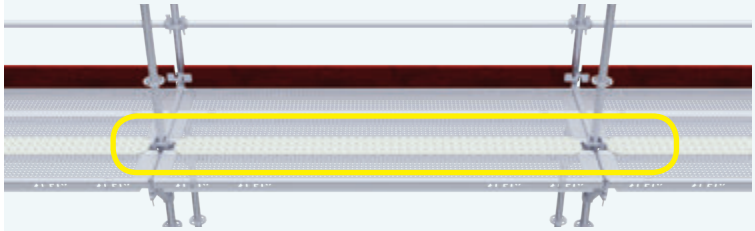
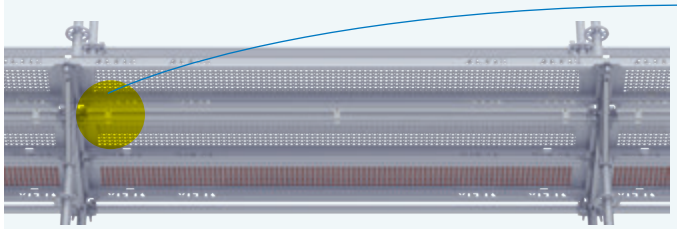
APPLICATION EXAMPLE
07 GAP COVER FOR SYSTEM DECKS



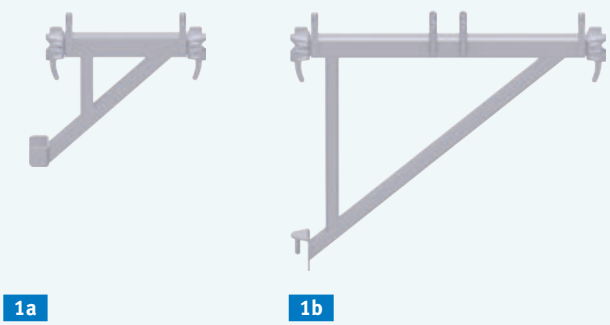


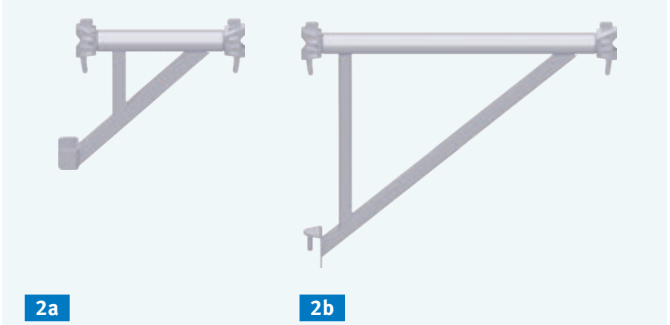
BOTTOM SIDE

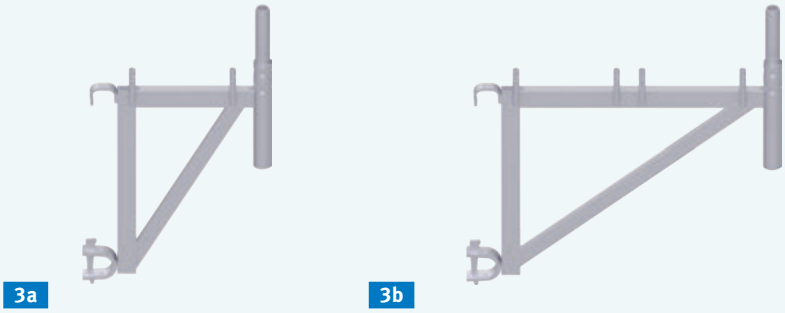
DETAIL
07 GAP COVER
TUBE CLAMP ATTACHED TO TUBE LEDGER

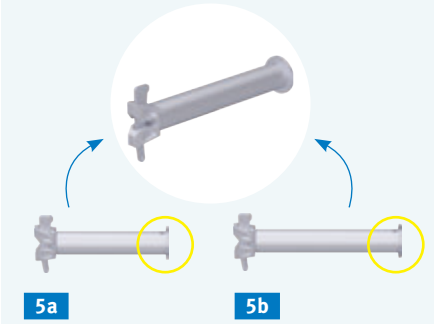
FIG.	DESCRIPTION	LOAD CLASS	DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.	PRICE [€]
01	**Access deck with tube fixture and integrated ladder** aluminium, film-coated plywood decking — with tube fixture and lift-off preventer — hatch offset, with tread	3	2.50 × 0.60	26.0	48 00 251	**286.50**
		3	3.00 × 0.60	30.0	48 00 301	**325.55**
02	**Access deck with tube fixture and integrated ladder** aluminium, chequer plate decking — with tube fixture and lift-off preventer — hatch offset, with tread — extremely durable and weather-resistant — with replaceable decking / metal fixtures — completely made of aluminium, for use in areas with special requirements, e.g. for industrial scaffoldings (fire protection)	3	2.50 × 0.60	29.0	48 00 250	**370.00**
		3	3.00 × 0.60	33.0	48 00 300	**387.50**
03	**Intermediate deck with tube fixture, steel** hot-dip galvanised — as spacing deck in case of different bay widths — mainly used in birdcage scaffolding	6	0.74 × 0.19	5.5	48 30 074	**50.00**
		6	1.10 × 0.19	7.3	48 30 110	**52.50**
		6	1.50 × 0.19	9.8	48 30 150	**53.60**
		6	2.00 × 0.19	12.7	48 30 200	**63.00**
		5	2.50 × 0.19	15.6	48 30 250	**72.80**
		4	3.00 × 0.19	18.5	48 30 300	**82.00**
		3	4.00 × 0.19	24.2	48 30 400	**101.60**
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	**54.35**
		6	1.10 × 0.14	6.4	22 25 110	**56.95**
		6	1.50 × 0.14	8.8	22 25 150	**58.50**
		6	2.00 × 0.14	11.6	22 25 200	**67.50**
		5	2.50 × 0.14	14.3	22 25 250	**84.50**
		4	3.00 × 0.14	17.1	22 25 300	**89.50**
		3	4.00 × 0.14	19.1	22 25 400	**94.45**
05	**Steel plank** ⊕ with locking pin and spring clip — for covering and/or closing corner areas and other construction-related openings — only for use on steel decks — The support length must be at least 250 mm. — height: 45 mm	6	1.00 × 0.30	5.5	12 24 100	**55.35**
		6	1.50 × 0.30	8.0	12 24 150	**65.90**
		5	2.00 × 0.30	10.5	12 24 200	**75.30**
		3	2.50 × 0.30	12.8	12 24 250	**85.50**
06	**Spring clip** spare part for pos. 05			0.03	73 04 006	**1.10**
07	**Gap cover** ⊕ aluminium chequer plate — for covering gaps between deck levels when using system decks — for covering construction-related gaps — fitted onto the tube ledger When using decks with tube fixtures a gap cover is required and must be ordered as needed!		1.10 × 0.19	2.5	48 32 110	**41.70**
			1.50 × 0.19	3.7	48 32 150	**53.15**
			2.00 × 0.19	5.1	48 32 200	**63.05**
			2.50 × 0.19	6.5	48 32 250	**74.50**
			3.00 × 0.19	7.8	48 32 300	**85.00**

BRACKETS









APPLICATION EXAMPLE

03 BRACKET WITH TUBE SUSPENSION

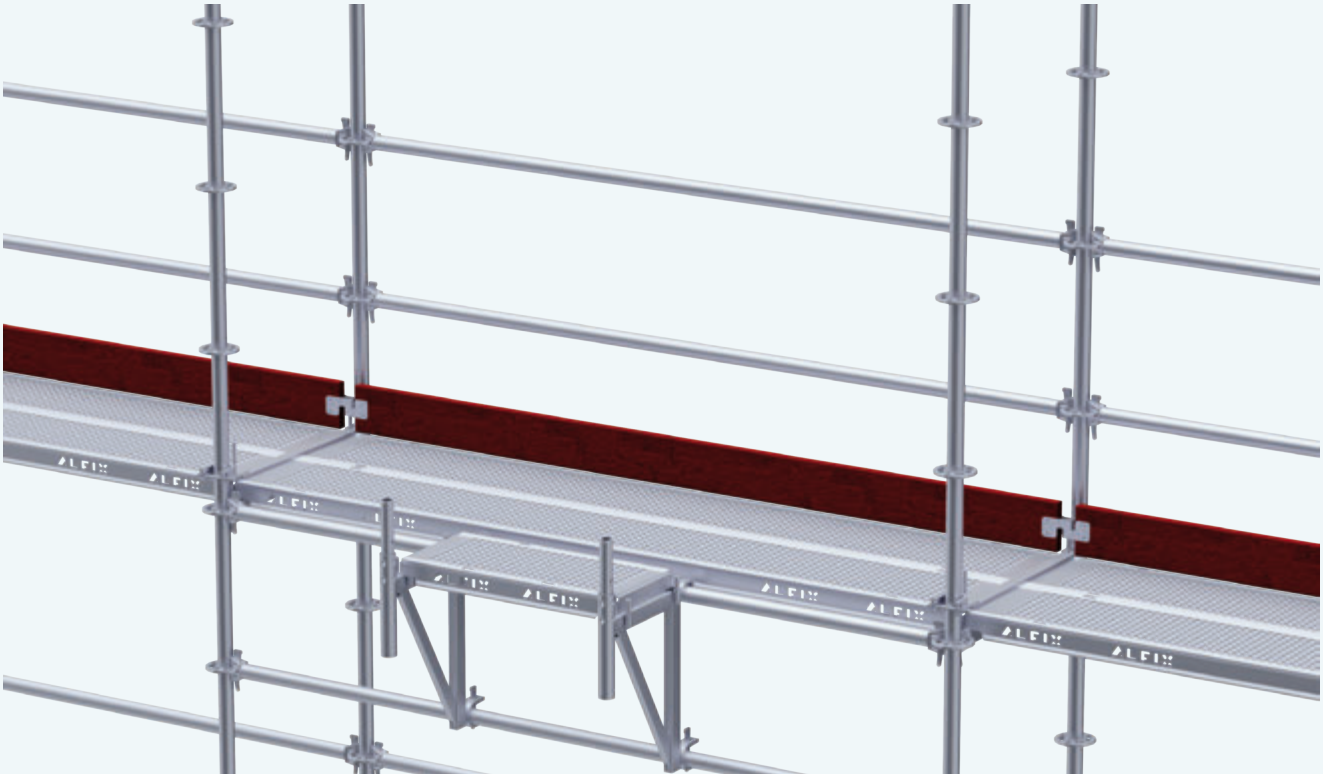
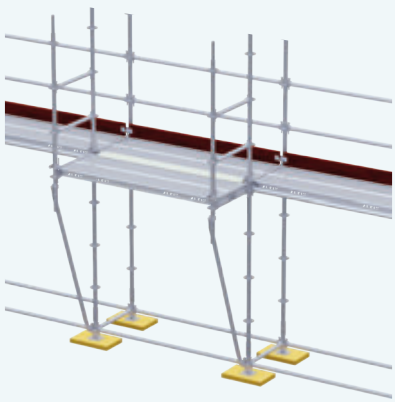
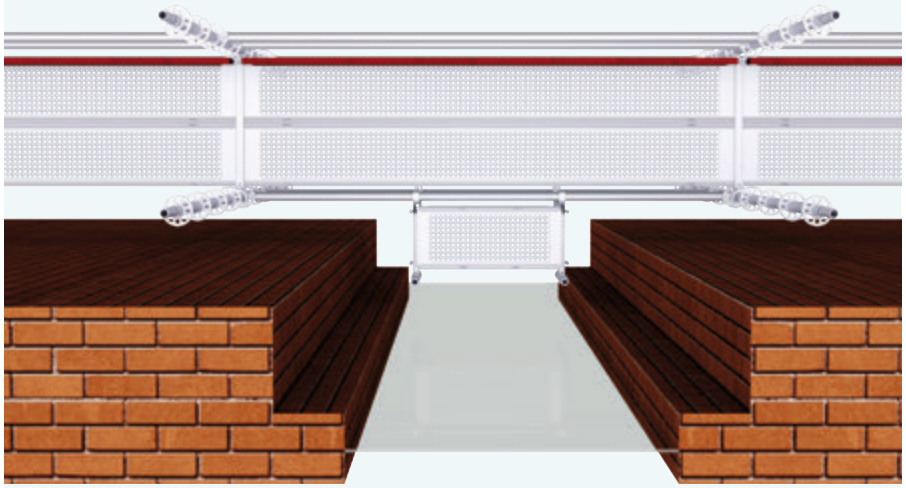


FIG.	DESCRIPTION		DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.	PRICE [€]
01	**Bracket** steel, hot-dip galvanised – with UNIFIX fixture – for widening scaffolding bays / converting projecting building parts – see pages 8/9 for respective lift-off preventer	1a	0.41	3.4	48 10 001	**37.50**
		1b	0.74	6.2	48 10 002	**49.00**
02	**Bracket** steel, hot-dip galvanised – with tube fixture – for widening brackets when decks with tube fixture are used	2a	0.41	3.7	48 10 011	**36.50**
		2b	0.74	6.3	48 10 012	**45.00**
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	6.9	48 10 020	**37.80**
		3b	0.74	8.8	48 10 021	**48.95**
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	**47.50**
05	**Support ledger** steel tube 48.3 x 3.2 mm, hot-dip galvanised – support element for decks with tube suspension for inwards widening of decks	5a	0.29	1.4	48 29 000	**16.00**
		5b	0.36	1.7	48 29 001	**16.70**

APPLICATION EXAMPLE
04 MODUL BRACKET BRACE
for creating projections as an alternative to brackets

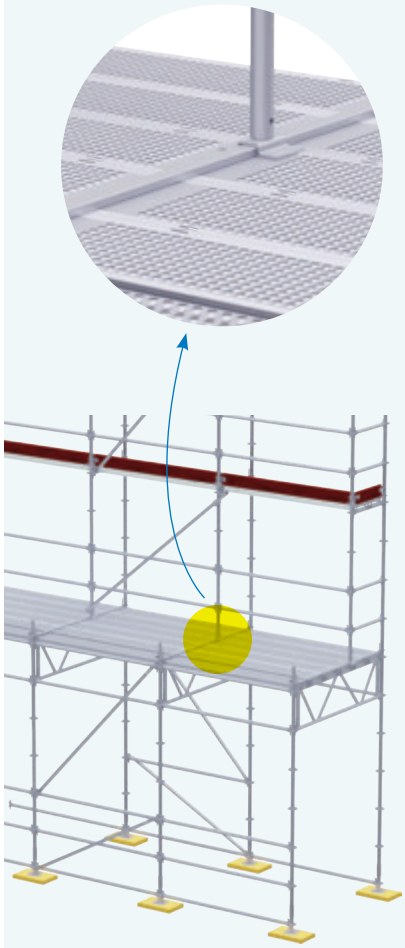


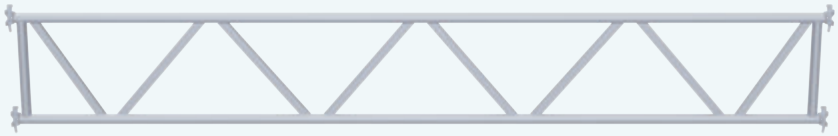
APPLICATION EXAMPLE
3a BRACKET WITH TUBE SUSPENSION
to assemble working platforms in window recesses



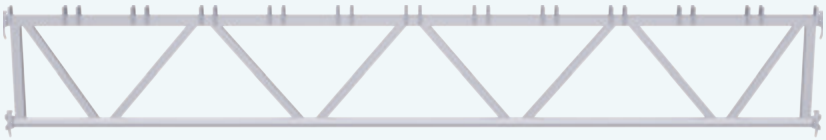
LATTICE GIRDERS

APPLICATION EXAMPLE
4c TUBE CONNECTOR FOR LATTICE GIRDER (PEDESTRIAN PASSAGE)





1a



1b

2a

2b

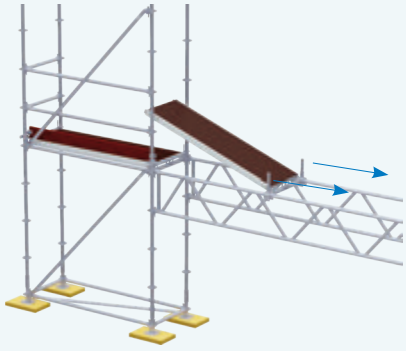
03

4a

4c

APPLICATION EXAMPLE 1a LATTICE GIRDER and 02 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.



APPLICATION EXAMPLE 05 GUARDRAIL STANDARD WITH TUBE FIXTURE

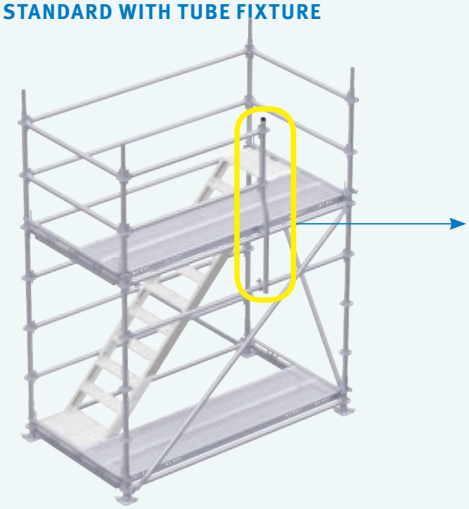


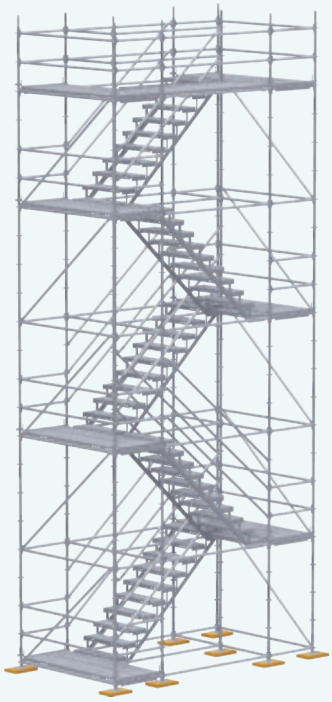
FIG.	DESCRIPTION		DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.	PRICE [€]
01	**Lattice girder*** ⊕ steel, hot-dip galvanised — used for bridging or to construct areal scaffolding — for direct connection to the rosette with 4 wedge heads — lattice girder with welded-on tube connector available upon request					
	1a Lattice girder (tube fixture) — for decks with tube fixture — top and bottom chord: steel tube 48.3 mm		2.00	23.4	48 70 200	**199.00**
			2.50	29.7	48 70 250	**210.00**
			3.00	33.0	48 70 300	**220.00**
			4.00	45.1	48 70 400	**240.00**
			5.00	55.7	48 70 500	**270.00**
			6.00	66.4	48 70 600	**310.00**
			7.00	77.0	48 70 700	**380.00**
			8.00	88.4	48 70 800	**460.00**
	1b Lattice girder (UNIFIX fixture) — top chord for suspending system decks — bottom chord: steel tube 48.3 mm		2.00	23.8	48 71 200	**217.95**
			2.50	29.8	48 71 250	**235.00**
			3.00	34.2	48 71 300	**250.00**
			4.00	44.7	48 71 400	**285.00**
			4.50	50.2	48 71 450	**310.00**
			5.00	55.3	48 71 500	**332.50**
			6.00	66.1	48 71 600	**387.50**
			7.50	88.2	48 71 750	**480.00**
02	**Lattice girder cross brace** ⊕ 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 8/9 for respective lift-off preventer — flexible alternative to lattice girders with welded-on tube connectors	2a 2-deck	0.74	7.9	48 73 074	**101.05**
		2b 3-deck	1.10	9.4	48 73 110	**106.15**
03	**Tube connector (tube fixture)** steel, hot-dip galvanised, incl. linchpin — for fitting onto tubes — lift-off prevention by means of safety bolts		0.4	2.1	41 51 002	**38.00**
04	**Tube connector (lattice girder)** steel, hot-dip galvanised — suitable on tube ledgers of lattice girders with top chord for variable vertical upright arrangement					
	4a with coupler (wrench size 22)		0.3	1.6	48 51 001	**20.50**
	4b with bended profile coupler (not shown)		0.3	1.5	41 51 007	**23.50**
	4c for pedestrian passage ⊕		0.2	1.3	48 51 010	**14.00**
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	**47.50**

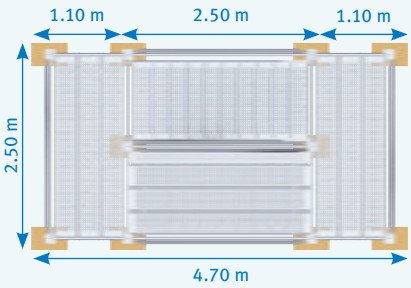
* Installation of lattice girders according to approval Z-8.22-932. The stability of the scaffolding must be verified in each case when lattice girders are used (cf. page 37 for permissible loads).

STAIRWAYS / LADDERS / GUARDRAILS

APPLICATION EXAMPLE
CONSTRUCTION SITE
STAIRWAY TOWER 200 KG

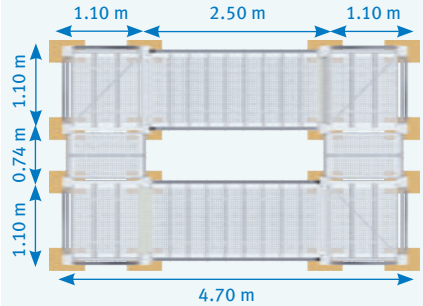
— 10-standard stairway tower with stairway stringers for receiving system decks (e.g. steel decks)
— 9-step, riser 22 cm / 10 decks per standard stairway
— stair width: max. 1.10 m
— load-bearing capacity max. 2.0 kN/m²

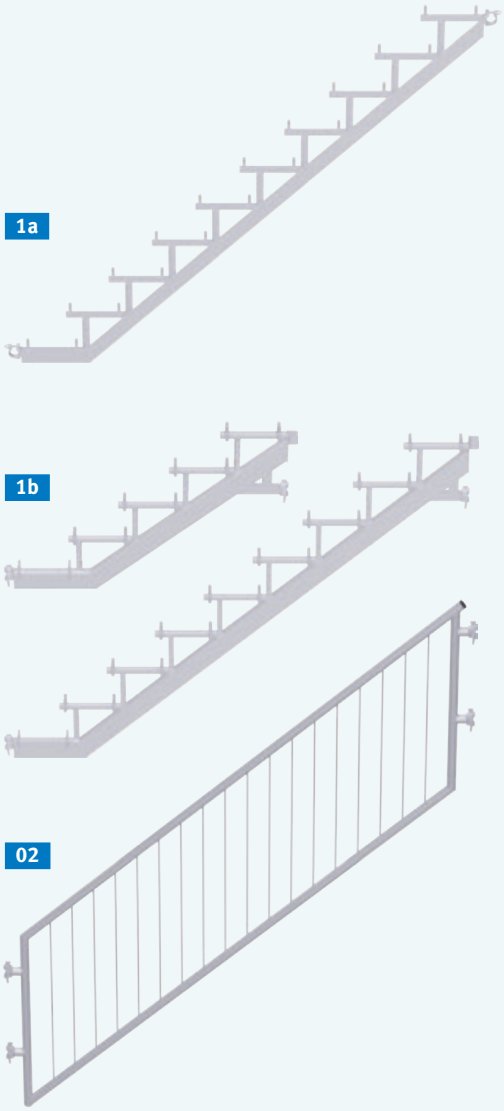


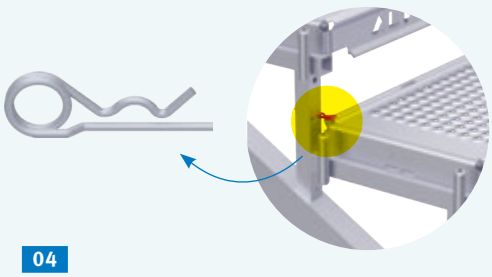


APPLICATION EXAMPLE
ESCAPE STAIRWAY TOWER 500 KG

— 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







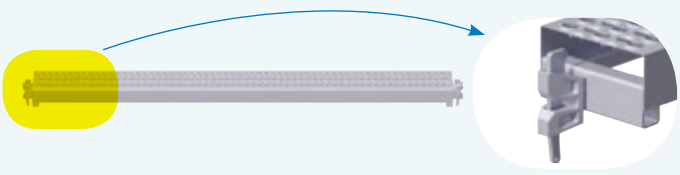
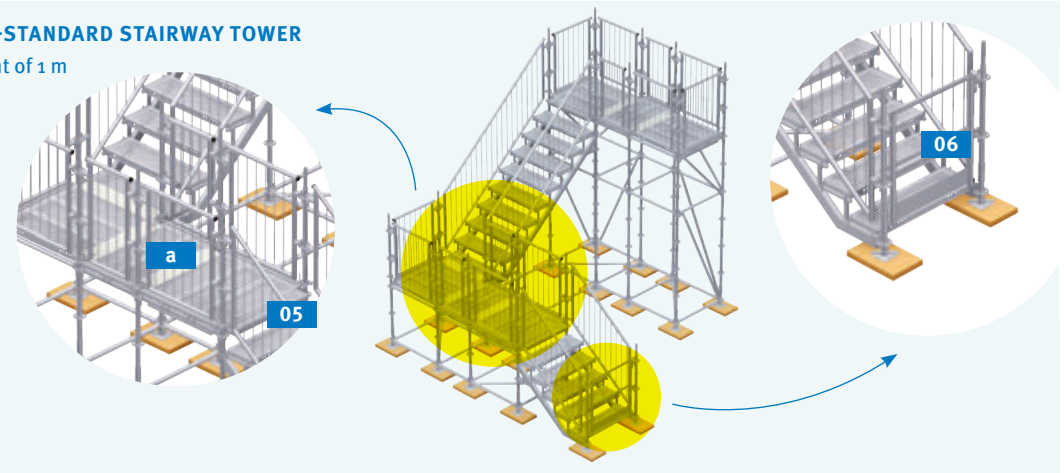


FIG.	DESCRIPTION		DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.	PRICE [€]
01	**Modul stairway stringer** steel, hot-dip galvanised — with UNIFIX fixture for system decks	1a with halfcoupler permissible load: 200 kg/m² (load class 3)	1.50 × 1.00	17.9	48 10 054L	**225.05**
			1.50 × 1.00	17.9	48 10 054R	**225.05**
			2.50 × 2.00	29.6	48 10 060L	**359.40**
			2.50 × 2.00	29.6	48 10 060R	**359.40**
		1b with wedge-heads permissible load: 500 kg/m² (load class 5)	1.50 × 1.00	19.3	48 10 053	**236.50**
			2.50 × 2.00	33.5	48 10 061	**369.30**
02	**Stair guardrail, with child protection** steel, hot-dip galvanised — for installation in a stairway tower up to 500 kg/m², with vertical rods — further dimensions available upon request — for use in escape stairway towers or similar building projects in public areas		1.50 × 1.00	27.4	48 36 102	**207.50**
			2.50 × 2.00	42.0	48 36 202	**288.30**
03	**Guardrail, with child protection** steel, hot-dip galvanised — for use in stairway towers 500 kg/m² or 750 kg/m² — with vertical rods — for use in escape stairway towers or similar building projects in public areas		0.74 × 1.10	15.3	48 38 074	**155.00**
			1.10 × 1.10	18.9	48 38 110	**180.00**
			1.50 × 1.10	24.4	48 38 150	**199.00**
			2.00 × 1.10	30.4	48 38 200	**277.50**
			2.50 × 1.10	36.3	48 38 250	**337.50**
			3.00 × 1.10	42.3	48 38 300	**372.50**
04	**Spring clip** ⊕ steel, galvanised, 4 x 78 mm — lift-off prevention for stairway stringer				73 04 004	**0.40**
05	**Ledger with gap cover, 0.16 m** ⊕ steel, hot-dip galvanised — for use in conjunction with the stairway stringer 500 kg/m² at the upper platform transition — provides for a uniform rise/going ratio in accordance with the regulations — wedge-head is attached off-centre		0.74 × 0.16	5.9	48 20 079	**62.55**
			1.10 × 0.16	8.0	48 20 119	**75.00**
			1.50 × 0.16	10.7	48 20 159	**91.00**
			2.00 × 0.16	13.5	48 20 209	**123.50**
			2.50 × 0.16	16.1	48 20 259	**139.60**
06	**Swing door** ⊕ steel, hot-dip galvanised — with locking mechanism (self-locking) — for securing accesses, e.g. in stairway towers		0.70	12.7	40 77 073	**117.50**
			1.00	14.5	40 77 109	**121.80**

APPLICATION EXAMPLE: 16-STANDARD STAIRWAY TOWER

with first platform at the height of 1 m

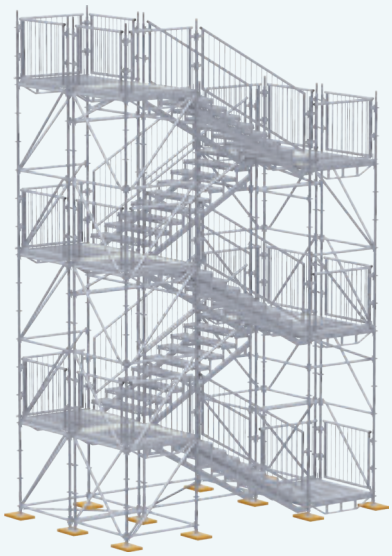
05 Ledger with gap cover
06 Swing door
a Gap cover
cf. pages 22/23

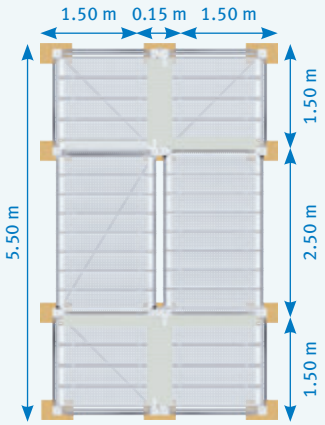


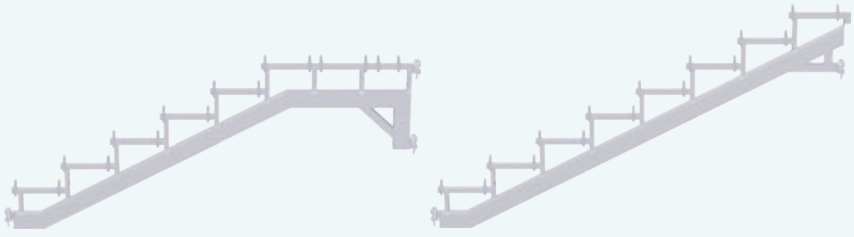
STAIRWAYS / LADDERS / GUARDRAILS

APPLICATION EXAMPLE
ESCAPE STAIRWAY TOWER 750 KG

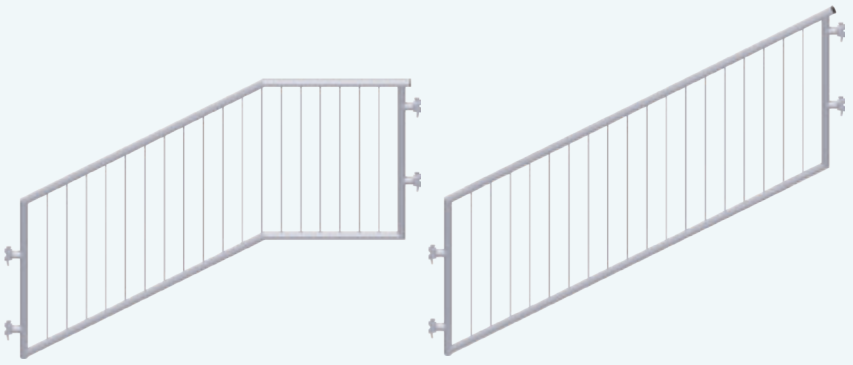
— 16-standard stairway tower with stairway stringers for fixing system decks (e.g. steel decks)
— 9-step, riser 17 cm / 8 decks per standard stairway
— permissible load: 7.5 kN/m²







1a 1b



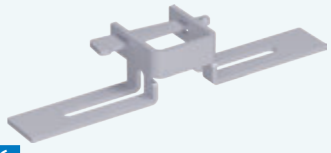
2a 2b

03

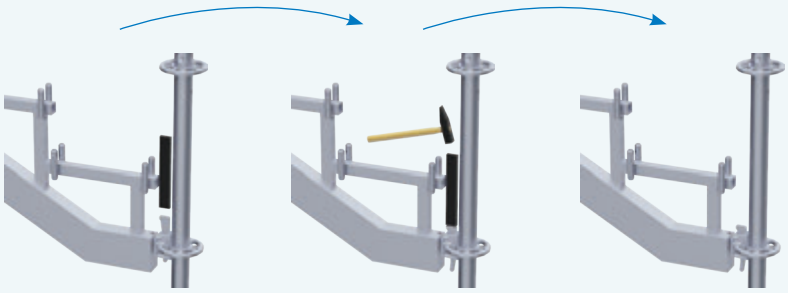
04

07

05



06



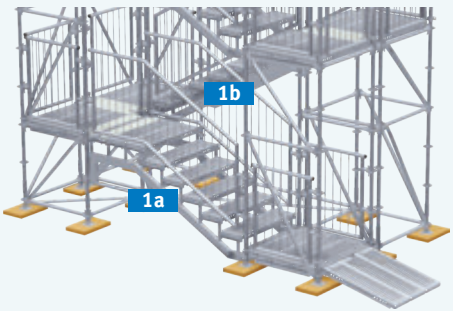
ASSEMBLY NOTICE FOR THE STAIRWAY STRINGER 750 kg

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.	PRICE [€]
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	2.50 × 1.00	31.8	48 10 068	**309.00**
		1b	2.50 × 1.50	31.9	48 10 059	**351.80**
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	2.50 × 1.00	40.1	48 36 162	**255.05**
		2b	2.50 × 1.50	41.6	48 36 182	**334.95**
03	**Gap cover for double standard** ⊕ aluminium chequer plate — lift-off prevention with clamp coupler (universal design) when using double standard — alternative lift-off prevention — for covering gaps between deck levels		1.10 × 0.40	5.6	48 33 110	**60.25**
			1.50 × 0.40	8.5	48 33 150	**64.40**
			2.00 × 0.40	11.5	48 33 200	**69.40**
04	**Ledger with gap cover, 0.12 m** steel, hot-dip galvanised — for use in conjunction with the stairway stringer 750 kg/m² (2.50 x 1.50 m) at the upper and lower platform transition — for use in conjunction with the stairway stringer 750 kg/m² (1.50 x 1.00 m) at the lower platform transition — provides for a uniform rise/going ratio in accordance with the regulations — wedge-head is attached off-centre		1.10 × 0.12	4.9	48 20 115	**75.00**
			1.50 × 0.12	6.7	48 20 155	**91.00**
			2.00 × 0.12	10.4	48 20 203	**123.50**
05	**Clamp coupler, universal design** ⊕ steel, hot-dip galvanised, wrench size 19	wrench size 19	0.20	1.1	13 17 019	**21.35**
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 connections			1.2	13 17 030	**21.05**
07	**Gap cover** aluminium chequer plate — reinforced aluminium box profile 55 x 55 mm — for covering gaps between deck levels, when using deck bearers and double ledgers with UNIFIX suspension		1.10 × 0.19	2.8	48 35 107	**37.20**
			1.50 × 0.19	4.1	48 35 151	**47.65**
			2.00 × 0.19	5.5	48 35 201	**59.00**
			2.50 × 0.19	6.9	48 35 251	**73.40**

APPLICATION EXAMPLE 01 STAIRWAY STRINGER

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



APPLICATION EXAMPLE

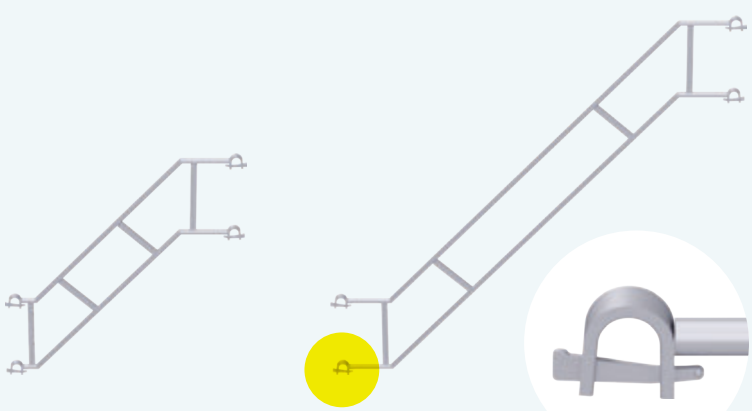
03 Gap cover for double standard

05 Clamp coupler (universal design) as lift-off prevention

07 Gap cover with system fixture

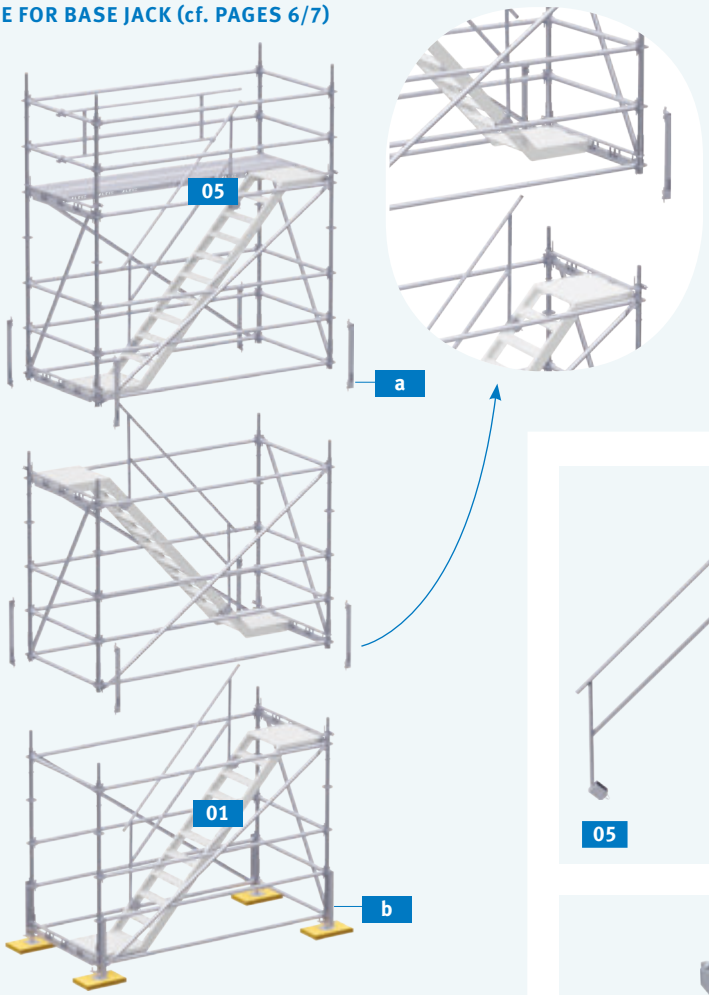
STAIRWAYS / LADDERS / GUARDRAILS

1a 1c

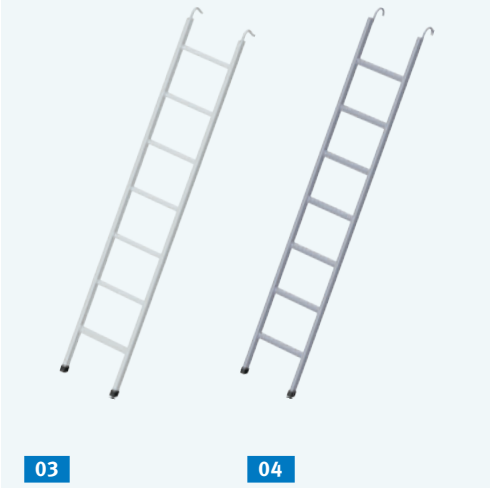


2a 2c

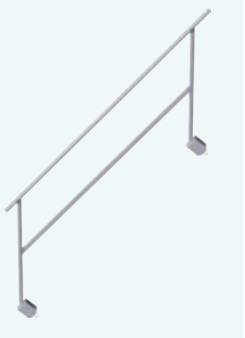
APPLICATION EXAMPLE: STAIRWAY TOWER (FLIGHT BY FLIGHT ASSEMBLY) CONSISTING OF:
01 UNIFIX STAIRWAY, **05** INTERNAL GUARDRAIL,
a SUSPENDED SCAFFOLDING CONNECTOR (cf. PAGES 6/7), **b** LOCKING DEVICE FOR BASE JACK (cf. PAGES 6/7)



An internal guardrail is mandatory for this assembly version.



03 04



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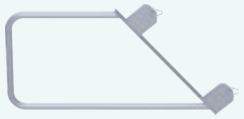
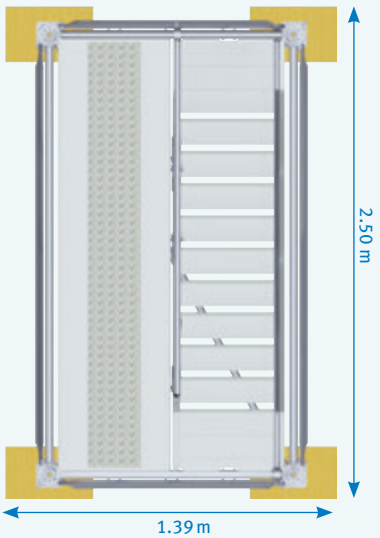


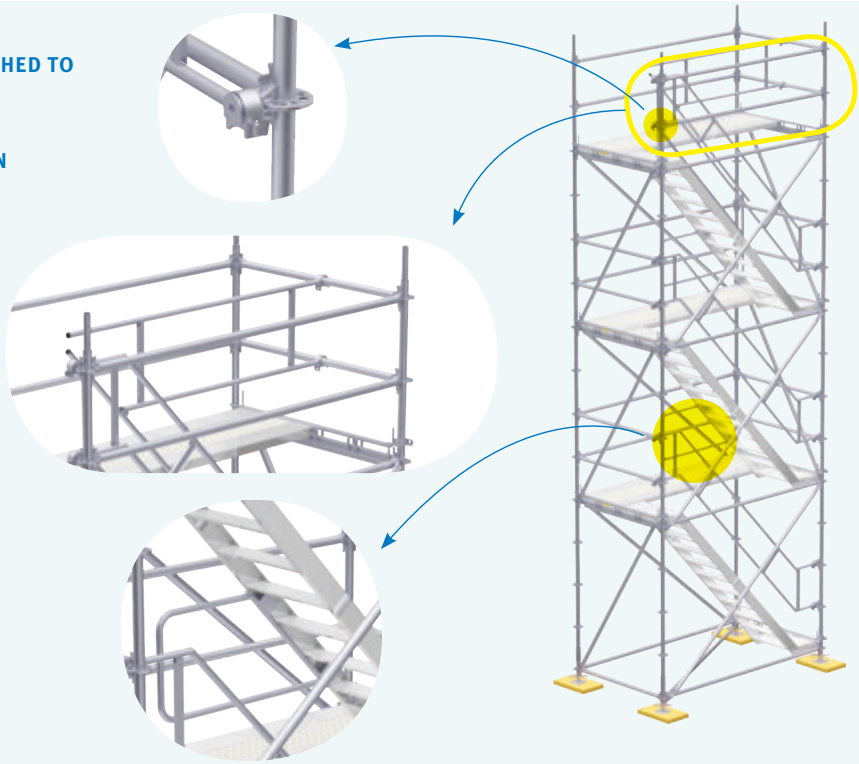
08

FIG.	DESCRIPTION		DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.	PRICE [€]
01	**Stairway, aluminium, width: 0.64 m** ⊕ with system fixture — riser 20 cm, for use with platform stairway tower — safe load 2 kN/m² (load class 3)	1a	1.39 × 1.00	16.8	22 98 140	**250.05**
		1b (not shown)	2.00 × 1.50	23.5	22 98 200	**322.45**
		1c	2.50 × 2.00	27.6	22 98 250	**409.00**
		1d (not shown)	3.00 × 2.00	31.0	22 98 300	**455.00**
02	**Double stair guardrail** ⊕ steel, hot-dip galvanised — with bended profile coupler for attachment to tube ledgers or guardrail fixing devices	2a	1.39 × 1.00	12.3	48 36 209	**94.80**
		2b (not shown)	2.00 × 1.50	15.5	48 36 210	**106.05**
		2c	2.50 × 2.00	18.0	48 36 206	**132.30**
		2d (not shown)	3.00 × 2.00	19.9	48 36 207	**155.25**
03	**Storey ladder, aluminium** for 2.00 m storey height		2.00 × 0.40	3.7	11 32 001	**60.85**
04	**Storey ladder, steel** hot-dip galvanised, for 2.00 m storey height		2.00 × 0.40	8.1	11 42 000	**52.90**
05	**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	**106.00**
06	**Platform guardrail, steel** steel, hot-dip galvanised		2.50	8.7	48 29 250	**55.75**
			3.00	9.4	48 29 300	**60.05**
07	**Guardrail fixing device** ⊕ steel, hot-dip galvanised			0.80	41 36 300	**14.20**
08	**Stair stringer fall protection** ⊕ steel, hot-dip galvanised — incl. linchpin 12 x 70 mm with snap-on lock — effective fall protection when using aluminium stairways		1.00 × 0.50	8.8	11 31 001	**56.30**

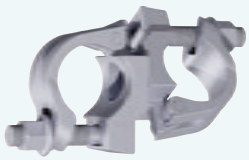
APPLICATION EXAMPLE:

02 DOUBLE STAIR GUARDRAIL, ATTACHED TO
07 GUARDRAIL FIXING DEVICE
06 PLATFORM GUARDRAIL, STEEL
08 STAIR STRINGER FALL PROTECTION

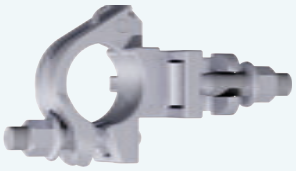




ACCESSORIES



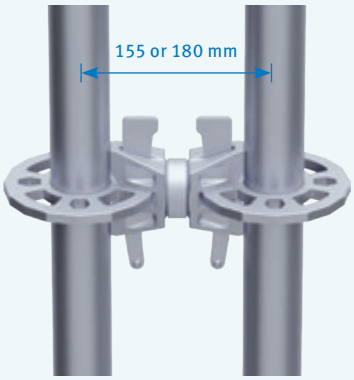
01



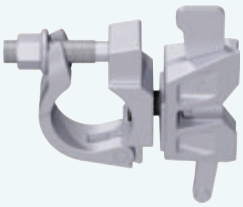
02

3a

APPLICATION EXAMPLE
04 DISTANCE COUPLER



4a



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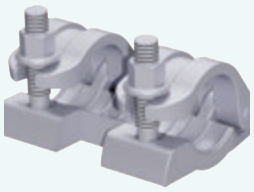

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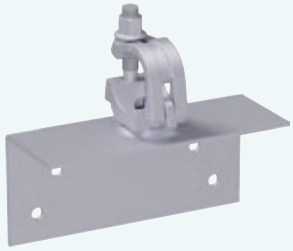

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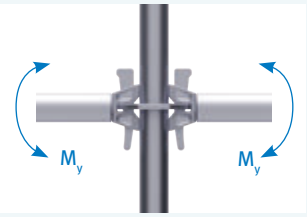
FIG.	DESCRIPTION			DIMENSIONS L/H×W [m]	WEIGHT approx. [kg]	ARTICLE NO.	PRICE [€]
01	**Swivel coupler***		wrench size 22		1.0	13 03 022	**10.80**
02	**Standard coupler***		wrench size 22		1.0	13 01 022	**8.70**
03	**Wedge-head coupler***	3a	fixed		1.0	41 50 000	**18.80**
		3b	swivelling		1.0	41 50 001	**21.10**
04	**Distance coupler, fixed*** ⊕	4a		155	1.1	41 50 003	**18.80**
		4b	(not shown)	180	1.2	41 50 002	**18.80**
05	**Claw coupler***		wrench size 22		0.9	13 10 022	**14.70**
06	**Halfcoupler***		wrench size 22		0.6	13 02 022	**8.60**
07	**Tension coupler with collar nut***		wrench size 22		1.4	13 07 022	**14.00**
08	**Tube connector for tension coupler**				1.0	13 08 000	**5.40**
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	**11.05**
10	**Distance tube** steel tube 48.3 mm, hot-dip galvanised – 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 anchor sleeve, for distances of 1.00 m or more			0.40	1.5	13 61 040	**9.90**
				1.00	3.3	13 61 100	**15.50**
				1.30	4.2	13 61 130	**17.90**
				1.50	4.8	13 61 150	**21.10**
11	**Quick-release anchor** steel tube 48.3 mm, hot-dip galvanised – with hooks and guide plate to secure against rotation – for suspension below the deck transom			0.70	3.0	23 62 070	**16.50**
12	**Squared timber coupler*** HxWxD of steel bracket: 100 x 220 x 86 mm, with halfcoupler (swivelling)		wrench size 22		1.8	33 81 022	**19.10**
13	**Hexagon bolt** steel, galvanised		M 14 × 65		0.1	14 53 000	**1.00**
14	**Hexagon nut** steel, galvanised		M 14		0.04	73 02 003	**1.25**
15	**Scaffold tube, steel** Ø 48.3 x 3.25 mm, hot-dip galvanised			1.00	3.5	13 51 100	**11.00**
				2.00	7.0	13 51 200	**20.80**
				3.00	10.5	13 51 300	**31.20**
				4.00	14.0	13 51 400	**42.10**
				5.00	17.5	13 51 500	**50.70**
				6.00	21.0	13 51 600	**59.00**
16	**Scaffold tube, aluminium** Ø 48.3 x 4.05 mm			1.00	1.5	13 40 100	**13.50**
				2.00	3.0	13 40 200	**27.10**
				3.00	4.5	13 40 300	**40.60**
				4.00	6.0	13 40 400	**54.30**
				5.00	7.5	13 40 500	**67.70**
				6.00	9.0	13 40 600	**78.40**

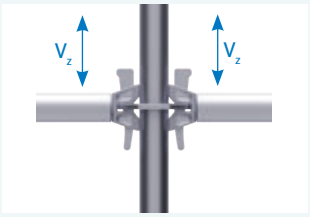
NOTE *for tubes with Ø 48.3 mm, couplers are approved by the respective manufacturer and in accordance with EN 74-1 standard

TECHNICAL DETAILS

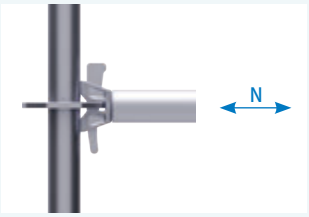
STRESS CAPACITY VALUES:
ALFIX MODUL METRIC SCAFFOLDING CONNECTOR with tube ledger



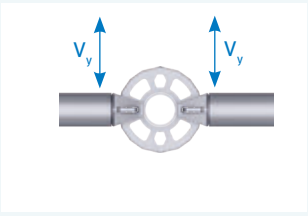
Connecting moment
$M_{y,R,d} = \pm$ 104 kNcm



Vertical force
$V_{z,R,d} = \pm 35$ kN

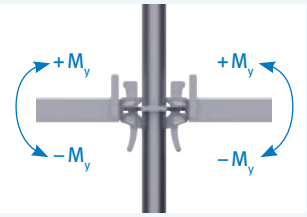


Normal force
$N_{R,d} = \pm 36$ kN

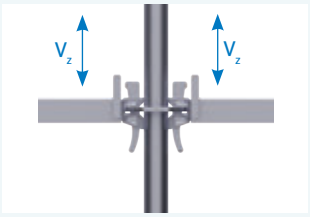


Horizontal force
$V_{y,R,d} = \pm 16$ kN

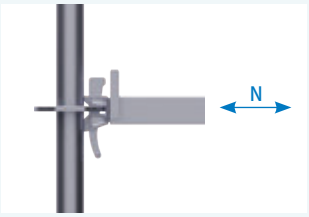
STRESS CAPACITY VALUES:
ALFIX MODUL METRIC SCAFFOLDING CONNECTOR with deck bearer



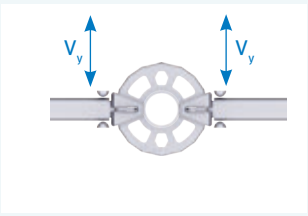
Connecting moment
$M_{y,R,d}$ = -104 kNcm / +69.2 kNcm



Vertical force
$V_{z,R,d} = \pm 30$ kN



Normal force
$N_{R,d} = \pm 25.6$ kN



Horizontal force
$V_{y,R,d} = \pm 12.2$ kN

The standard scaffolding version is approved for use as a working scaffold according to load class ≤ 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.

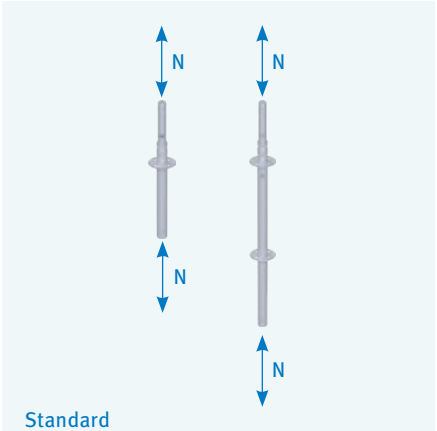
If personal protective equipment (PPE) is used the following attachment points shall be used:

— 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 BGI 5101 / BGI 663.

Standard

permissible[1] standard load (compressive load) or tensile load-bearing capacity (with screwed-in connector)

	COMPRESSIVE LOAD					TENSILE LOAD
Unsupported length [m]	1.0	1.5	2.0	3.0	4.0	2 × 2 M10 8.8
Permissible load N [kN]	64.9	43.7	28.4	14.0	8.2	42.7

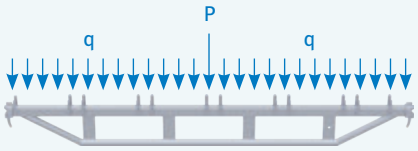


Standard

Deck bearer

permissible[1] 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 distributed load q [kN/m]	21.00	17.50	14.40	10.60	8.40	5.40
Individual load P [kN/m] in bay centre	6.00	8.90	12.90	9.40	8.90	7.00

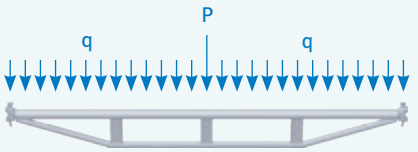


Deck bearer – permissible lateral load

Tube ledger

permissible[1] 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 distributed load q [kN/m]	21.80	16.80	16.60	10.40	6.60	4.70
Permissible individual load P [kN/m] in bay centre	7.90	9.10	14.20	8.70	5.60	4.50

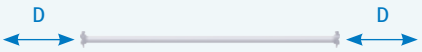


Tube ledger – permissible lateral load

Tube ledger

permissible[1] normal force (permissible Z=24 kN)

Bay length L (m)	0.74	1.10	1.50	2.00	2.50	3.00
Permissible compressive force D [kN]	24.00	24.00	24.00	24.00	18.40	13.40

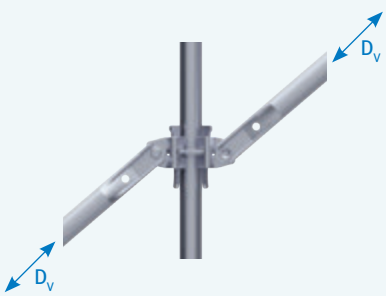


Tube ledger – permissible normal force

Vertical diagonal brace

permissible[1] normal force, bay height = 2.0 m

Bay length [m]	0.74	1.10	1.50	2.00	2.50	3.00
Permissible compressive force D [kN]	14.70	14.30	12.30	10.30	8.50	6.90
Permissible tensile force D [kN]	14.70	15.20	15.20	15.20	15.20	15.20



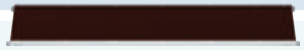
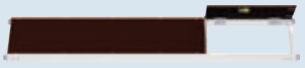
Vertical diagonal brace

1 permissible loads are calculated with γF=1.1 and γF=1.5

TECHNICAL DETAILS

Load classes of scaffolding decks

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	permissible	6	
	2.50	permissible	5	
	3.00	permissible	4	
	4.00	permissible	3	
Wooden deck 0.32 m	≤ 1.50	permissible	6	
	2.00	permissible	5	
	2.50	permissible	4	
	3.00	permissible	3	
Solid aluminium deck 0.32 m	≤ 2.00	permissible	6	
	2.50	permissible	5	
	3.00	permissible	4	
	4.00	–	2	
Lightweight deck 0.64 m	1.50	permissible	4	
	2.00	permissible	4	
	2.50	permissible	4	
	3.00	permissible	3	
Frame platform 0.64 m film-coated plywood decking	≤ 3.00	permissible	3	
Access deck with ladder 0.64 m film-coated plywood decking	≤ 3.00	permissible	3	
Access deck with ladder 0.64 m chequer plate decking	2.50	permissible	3	
	3.00	permissible	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)

HORIZONTAL DIAGONAL BRACES

BAY LENGTH (m)	BAY WIDTH (m)	$N_{H.R.D}$ (kN)
2.00	0.74	3.03
2.50	0.74	3.00
3.00	1.10	2.95

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:

BASE JACK

$A = A_S$	=	3.52 cm²
I	=	4.00 cm⁴
W_{el}	=	2.68 cm³
W_{pl}	=	1.25 × 2.68 = 3.35 cm³

EXTRACTS FROM THE DIN EN 12811 STANDARD

Service loads on working areas

WORKING AREAS

LOAD CLASS	UNIFORMLY DISTRIBUTED LOAD q_1 in kN/m²	CONCENTRATED LOAD ON AREA 500 mm X 500 mm F_1 in kN	CONCENTRATED LOAD ON AREA 200 mm X 200 mm F_2 in kN	PARTIAL AREA LOAD q_2 in kN/m²	PARTIAL AREA LOAD Partial area factor a_p [1)]
1	0.75	1.50	1.00	–	–
2	1.50	1.50	1.00	–	–
3	2.00	1.50	1.00	–	–
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

Headroom classes

WORKING AREAS

CLASS	HEADROOM between working areas h_3	HEADROOM between working areas and transoms or tie members h_{1a} and h_{1b}	HEADROOM clear shoulder height h_2
H_1	$h_3 \geq 1.90$ m	$1.75\ m \leq h_{1a} \leq 1.90$ m $1.75\ m \leq h_{1b} \leq 1.90$ m	$h_2 \geq 1.60$ m
H_2	$h_2 \geq 1.90$ m	$h_{1a} \geq 1.90$ m $h_{1b} \geq 1.90$ m	$h_2 \geq 1.75$ m

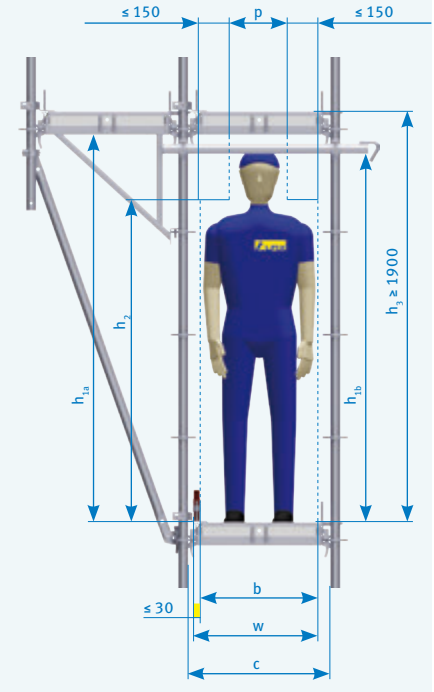
Width classes

WORKING AREAS

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

Headroom and width classes of working areas

b	width of passage clearance, 500 mm is the minimum requirement, and (c - 250 mm)
c	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_3	clear height between working areas
p	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 - 3D - 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)
SW09/257	System width class (see table 1 DIN EN 12811-1); here: between 0.90 m and 1.20 m/bay length 2.57 m
H2	Headroom class (see Table 2 DIN EN 12811-1)
A	without cladding (A = without cladding, B = with cladding)
LA	with ladder (LA = ladder, ST = stairway, LS = both)

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