PRODUCT BROCHURE

10.2022/UNICO73

telka scaffolding formwork fence

Frame scaffolds tFRAME | UNICO 73

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20 years

on the market already!

About the Company

telka SA is a Polish family-owned business, founded in 1999 by members of the Telka family, now sitting on the management board of the Company. We manufacture, sell, rent and install/erect formwork, hoarding and scaffolds.

At the outset, we were gathering experience and momentum on the local market, then growing to become a company with international operations. Our offering includes all popular scaffold and formwork systems and Telka-branded accessories.

Why us?

- comprehensive commercial offering, broad range of products, installation service; consultancy;
- we have one of Poland's largest depots with scaffolds and formwork, so our products are ready to be shipped immediately;
- we offer cutting-edge of the industry, continuously improving our products and employing state-of-the-art engineering solutions;
- competitive prices;
- specialised vehicle fleet ready to deliver the products to the client's construction site.

How to buy scaffolds?

A properly erected and safe scaffold should have a stable structure, decking, guardrails - fall protection for equipment and people, circulation routes, anchors or protective nets.

Below is a handful of tips helping to focus on essential parameters when purchasing scaffolds, so that the purchased structure is safe and made of properly fabricated components.

Foundation

Scaffold foundation is primarily provided by screw jacks and two questions need to asked here:

- what is the maximum loosening distance of the screw jack stated in the manufacturer's instructions - the value is typically from 100 to 300 mm, rather than, as often specified, the maximum loosening distance of the nut (e.g. with screw jacks L=800 mm it is assumed that the scaffold can be lifted by 600 mm). Maximum loosening values usually require a custom scaffold design;

- what is the length of screw jack sinking (if any) - the length of that part of the screw jack that remains in the scaffold frame. 150 mm is the absolute minimum - the nut must be firmly secured at that height against potential loosening.

Protection

From the standpoint of the scaffold user, protections should be checked in the first place, such as whether the scaffold has two single rails (or one double rail) at each point and a toeboard, and whether the scaffold has complete lateral protection in the end bay. If the deck is set off by more than 0.2 m away from the wall, the protections should also be present on the wall-facing side of the scaffold.

Anchoring

To select the right number of anchor points, it is important to know, whether the scaffold in question can accommodate additional components (such as brackets, walk-through frames, rain guards), but primarily such protective items as protective net or tarpaulin. If nets or tarpaulin is used, many more anchoring points will be needed than for standard sets without additional protection. Unfortunately, there are often too few anchoring points, which may even lead to building disasters.

Platforms

Our offering includes decks made of various materials, such as steel, wood or aluminium. When buying a system scaffold, it is important to verify whether decking is provided in each bay of the scaffold (unless the manufacturer indicates otherwise). In frame scaffolds, decking should be present in each bay, because it also performs the function of horizontal bracing (if it is protected against inadvertent displacement).

Circulation

Each scaffold should have a designated safe circulation shaft, typically organised as circulation decks with ladders, which are however increasingly more often replaced by stairs. The latter option considerably improves the comfort of vertical transport on the scaffold.

Length and height of the scaffold, surface area

When purchasing a scaffold system, it is important to specify its height, because in addition to standard scaffold height (from the ground to the highest working deck), the working height is often specified, which is higher by 2.0 m, because this is the height up to which work can be performed on the last working deck. It is therefore important to know which parameter we want to have specified.

Another common misunderstanding is that, in many market offers, we have scaffold sets whose height is a multiple of 2m, but often increased by 0.5 - 0.7 m, whereas the manual allows unscrewing of the screw jack by 0.3 m as a maximum in standard sets. This affects the final figure (i.e. the number of square meters and price quoted per square meter). In effect, we often see very long, but also small standard sets. This will translate into a smaller number of components such as circulation decks, bracing or anchoring points, which will have to be purchased extra with another configuration of our set.

Complete assembly

A very important factor in comparing competitive proposals is a detailed listing of scaffold components having a set length and height. It should be verified whether the scaffold has a separate circulation shaft, guardrails (top rails and toeboards), how many braces and anchor points there are, and whether there is decking are in each scaffold bay. Very often you will see claims that decking constitutes an additional scaffold component, which is not true. The most commonly found differences are in the number of braces and anchor points, and so components that have a serious bearing on the scaffold's stability.

Manufacturer's documentation

The erection, operation and dismantling of the scaffolds should be performed according to the manufacturer's instructions or a custom design.

The scaffold manufacturer or distributor should supply to the customer the relevant documentation, also referred to as the product manual or the operating and maintenance manual (OMM).

Our products comply with the latest safety standards, as confirmed by certificates awarded to us:
- safety certificate **B/009/22**
- certificate of conformity **Z/002/007/22**
- compliance of the Site Production Control as per **EN 1090-2**,
- compliance with quality requirements for welding as per **PN-EN ISO 3834-2**,
- Welding Procedure Qualification Record (WPQR) as per **EN ISO 15613** i **EN ISO 15614-1**.

„We offer products rooted in practical experience and designed to offer tangible benefits: safety, comfort in use and profitability.

Joanna Telka-Dudkowska
Commercial Director

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formwork rental*

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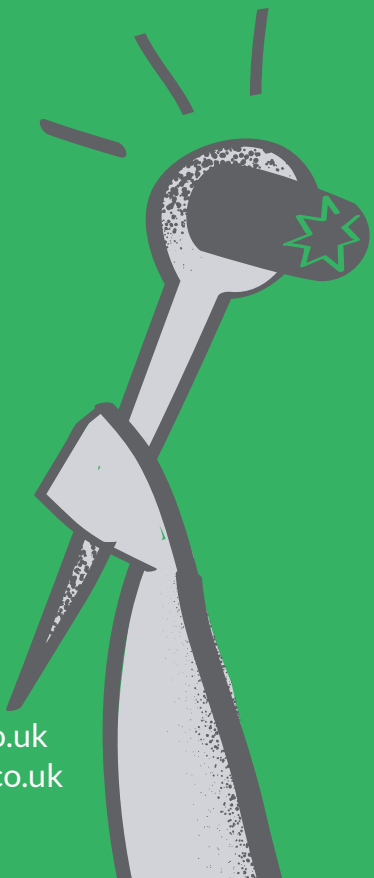
*Rental only in Poland



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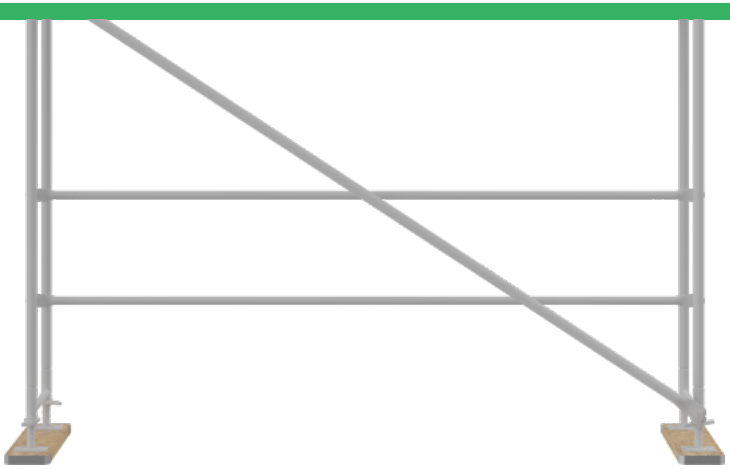
Scaffold foundation

Scaffolds should be erected on stable and levelled ground, whose fall allows stormwater run-off. **Timber sole plates** and **screw jacks** are used as ground supports for the scaffold.

WITH FITTING

WITHOUT FITTING

Timber plates distribute loads from the scaffold structure over a larger area, which reduces stresses.



TECHNICAL PARAMETERS

MODEL	WITH FITTING	WITHOUT FITTING
LENGTH	1100 mm	1100 mm
WIDTH	200 mm	250 mm
THICKNESS	40 mm	50 mm
WEIGHT	3,9 kg	5,2 kg
PRODUCT CODE	T0001.110	T0000.110

The base plate comprises:

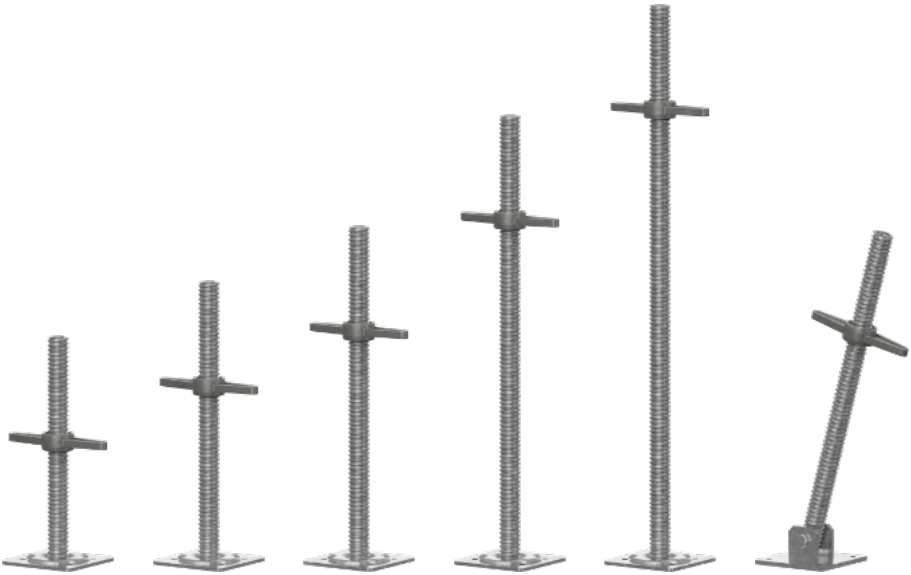
1) sole plate, which distributes the load from standard over a greater area and enables placement on the ground or mounting of a wheel set;

2) threaded hollow core;

3) flanged nut - to set the scaffolding at the required height;

4) flanged nut stopper - protection component preventing the nut from fully unscrewing.

The base plate unscrewing (loosening) distance will considerably affect the bearing capacity of the scaffolding base.



TECHNICAL PARAMETERS

MODEL	40	50	60	80	100	60 P *
HEIGHT	400 mm	500 mm	600 mm	800 mm	1000 mm	600 mm
MAX. ADJUSTMENT RANGE	250 mm	350 mm	450 mm	600 mm	750 mm	450 mm
BASE DIMENSIONS	150x150 mm	150x150 mm	150x150 mm	150x150 mm	150x150 mm	150x150 mm
WEIGHT (STANDARD)	2,8 kg	3,1 kg	3,5 kg	4,1 kg	4,8 kg	4,4 kg
GALVANISING (STANDARD)	hot dip	hot dip	hot dip	hot dip	hot dip	hot dip
WEIGHT (ERGO)	2,7 kg	3,0 kg	3,3 kg	3,9 kg	4,5 kg	4,2 kg
GALVANISING (ERGO)	electroplate	electroplate	electroplate	electroplate	electroplate	electroplate
PRODUCT CODE	T0002.040	T0002.050	T0002.060	T0002.080	T0002.100	T0004.060

***P** – ARTICULATED

Steel frames

Frames constitute the primary load-bearing components after the scaffold is erected, and comprise two standards (uprights) connected by horizontal bars.

66 x 73 | 100 x 73 | 150 x 73 | 200 x 73

COMPONENTS FABRICATED IN LASER CUT AUTO WELDING TECHNOLOGY

Steel frames of tFRAME|UNICO73 come in the standard system width of **732 mm** and four heights, where a **2.0 m** high frame is the primary frame, and the other are mostly used at lower scaffold levels for levelling out in sloped terrain, to match the scaffold structure to the building envelope, and in scaffolds where girders are used, or in various non-standard setups.

Standards of the frame (uprights) are made of tubes with outer diameter of **48.3 mm**, **2.7 mm** in wall thickness, made of heavy duty **S235** (**R_e > 320 MPa**) steel. There are studs on the top ends, made of tubes with outer diameter of **38 mm**, used for the erection of the next level's frames vertically.

The bottom bar of the frame (with a pin for the installation of the toeboard) stiffens the structure and provides protection against accidental lifting of the scaffold decking.

The top bar is made of a special U-section and is used for deck mounting. it is supported on both ends by stays, which reinforce the load-bearing structure, but are also used for the mounting of one and of the longitudinal vertical bracing..

The structure of the frame ensures mounting of guardrails in special pockets with wedge locks.

For an ideal fit, cross-bars are cut by a laser

TECHNICAL PARAMETERS

MODEL	66 x 73	100 x 73	150 x 73	200 x 73
SYSTEM HEIGHT	666 mm	1000 mm	1500 mm	2000 mm
SYSTEM WIDTH	732 mm	732 mm	732 mm	732 mm
DIMENSIONAL HEIGHT	826 mm	1160 mm	1660 mm	2160 mm
DIMENSIONAL WIDTH	780 mm	780 mm	780 mm	780 mm
WEIGHT	10,5 kg	12,6 kg	16,2 kg	19,2 kg
GALVANISING	hot dip	hot dip	hot dip	hot dip
PRODUCT CODE	T2100.066	T2100.100	T2100.150	T2100.200

Steel frames

Frames with 4 rail couplings are used when guardrail installation is required (top rail and toe board) on the inside of the scaffolding when the working platform is set off by more than 20 cm from the facade, and when mobile scaffoldings are erected with frame scaffold components.

200 x 73| 4P

The frame (uprights) are made of tubes with outer diameter of **48.3 mm**, **2.7 mm** in wall thickness, heavy duty **S 235** (**R_e > 320 MPa**) steel. There are studs on the top ends, made of tubes with outer diameter of **38 mm**, used for the erection of the next level's frames vertically.

The bottom bar of the frame (with a pin for the installation of the toeboard) stiffens the structure and provides protection against accidental lifting of the scaffold deck.

The top bar is made of a special U-section and is used for deck mounting. It is supported on both ends by stays, which reinforce the load-bearing structure, but are also used for the mounting of one and of the longitudinal ties.

The structure of the frame ensures mounting of guardrails in special pockets with wedge locks.

TECHNICAL PARAMETERS

MODEL	200 x 73 | 4P
SYSTEM HEIGHT	2000 mm
SYSTEM WIDTH	732 mm
DIMENSIONAL HEIGHT	2160 mm
DIMENSIONAL WIDTH	780 mm
WEIGHT	19,9 kg
GALVANISING	hot dip
PRODUCT CODE	T2101.200

Walk-through frames are used for the bottom scaffold level, where it is necessary to ensure foot traffic under the scaffold.

The walk-through frame (with uprights) is made of a single tube section with outer diameter of **48.3 mm**, **3.2 mm** in wall thickness (cold-forming of pipe tip), heavy duty **S 235** (**R_e > 320 MPa**) steel. The structure of the walk-through frame is such that the next scaffolding level can be fastened to it, whose axial width is **732 mm** and height **2.0 m**.

The top bar (made of a special U-profile) is reinforced with a grid structure and steel sheet stays. It enables installation of 4 decks, 320 mm wide. The frame structure allows for the installation of railings (in pockets with wedge locks) and longitudinal ties.

220 x 150

TECHNICAL PARAMETERS

MODEL	220 x 150
SYSTEM HEIGHT	2200 mm
SYSTEM WIDTH	1500 mm
DIMENSIONAL HEIGHT	2360 mm
DIMENSIONAL WIDTH	1548 mm
WEIGHT	34.4 kg
GALVANISING	hot dip
PRODUCT CODE	T2102.150

Steel frames

The bypass frame is used where it is necessary to bypass a protruding roof or fascia.

BYPASS 200 x 73

It has two uprights (including one with a stud, made of a single tube section by cold-forming of the tube tip), is made of a tube with outer diameter of **48.3 mm**, **3.2 mm** in wall thickness, heavy duty **S 235** (**R_e > 320 MPa**) structural steel.

This structural solution enables erection of the next scaffold level. The frame has reduced clear passage (364 mm) compared to the standard frame with system width of **732 mm**.

The bottom bar with a pin is designed for toeboard mounting and both stiffens the structure and provides protection against accidental lifting of scaffold decks, whereas the top bar has a U-profile for deck mounting. Both cross-bars are stiffened by stays. The frame structure allows for the mounting of guardrails (in pockets with wedge locks) and longitudinal ties.

TECHNICAL PARAMETERS

MODEL	BYPASS 200 x 73
SYSTEM HEIGHT	2000 mm
SYSTEM WIDTH	732 mm
DIMENSIONAL HEIGHT	2160 mm
DIMENSIONAL WIDTH	780 mm
WEIGHT	23,9 kg
GALVANISING	hot dip
PRODUCT CODE	T2103.200

Steel frames with system width of **362 mm** come in one height (2.0 m). They are used if the scaffold needs to be erected in narrow alleys, e.g. between buildings or in industrial structures (boilers, etc.).

200 x 36

Standards of the frame along with studs (vertical items) are made of a single tube section with outer diameter of **48.3 mm**, **3.2 mm** in wall thickness (cold-forming of the tube tip), made of heavy duty **S235** (**R_e > 320 MPa**) steel. There are studs on the top ends, made of tubes with outer diameter of 38 mm, used for the erection of the next level's frames vertically.

The bottom bar of the frame stiffens the structure and provides protection against accidental lifting of the decks.

The top bar is made of a special U-section and is used for deck mounting. It is supported on both ends by stays, which reinforce the load-bearing structure, but are also used for the mounting of one and of the longitudinal ties.

The frame structure allows for the mounting of two guardrails (in pockets with wedge locks).

TECHNICAL PARAMETERS

MODEL	200 x 36
SYSTEM HEIGHT	2000 mm
SYSTEM WIDTH	362 mm
DIMENSIONAL HEIGHT	2160 mm
DIMENSIONAL WIDTH	410 mm
WEIGHT	19,3 kg
GALVANISING	hot dip
PRODUCT CODE	T2104.200

Steel frames

66 x 109 | 100 x 109 | 150 x 109 | 200 x 109

COMPONENTS FABRICATED IN LASER CUT AUTO WELDING TECHNOLOGY

Steel frames with system width of **1088 mm** come in four heights (just as 732 mm standard system frames). They are used for work where stockpiling of larger quantities of materials is required on the scaffold, such as during stoneware or masonry works, o when wider working space is needed than is created by frames with system width of 732 mm.

Standards of the frame along with studs (vertical items) are made of a single tube section with outer diameter of **48.3 mm**, **3.2 mm** in wall thickness (cold-forming of the tube tip), made of heavy duty **S235** (**R_e > 320 MP**a) structural steel. Studs on the top ends, with outer diameter of 38 mm, are used for the erection of the next level's frames vertically.

The bottom bar (with a pin for toeboard mounting)both stiffens the structure and provides protection against accidental lifting of scaffold decks, whereas the top bar, made of a special U-profile, is used for 320 mm or 605 mm wide deck mounting. It is supported on both ends by stays, which reinforce the load-bearing structure, and allow for the mounting of one end of longitudinal ties. The frame structure allows for the mounting of guardrails in special pockets with wedge locks.

TECHNICAL PARAMETERS

MODEL	66 x 109	100 x 109	150 x 1069	200 x 109
SYSTEM HEIGHT	666 mm	1000 mm	1500 mm	2000 mm
SYSTEM WIDTH	1088 mm	1088 mm	1088 mm	1088 mm
DIMENSIONAL HEIGHT	826 mm	1160 mm	1660 mm	2160 mm
DIMENSIONAL WIDTH	1136 mm	1136 mm	1136 mm	1136 mm
WEIGHT	12,7 kg	15,2 kg	19,9 kg	23,6 kg
GALVANISING	hot dip	hot dip	hot dip	hot dip
PRODUCT CODE	T2107.066	T2107.100	T2107.150	T2107.200

Steel transoms are used to erect intermediate scaffolding storeys. They comprise a load-bearing beam (U-profile) allowing for deck mounting and two half-couplings mount the transoms to the frame uprights at any height.

TECHNICAL PARAMETERS

MODEL	TR 73	TR 109
SYSTEM WIDTH	732 mm	1088 mm
DIMENSIONAL HEIGHT	52 mm	52 mm
DIMENSIONAL WIDTH	813 mm	1139 mm
WEIGHT	3,4 kg	4,7 kg
PRODUCT CODE	T2106.073	T2106.109

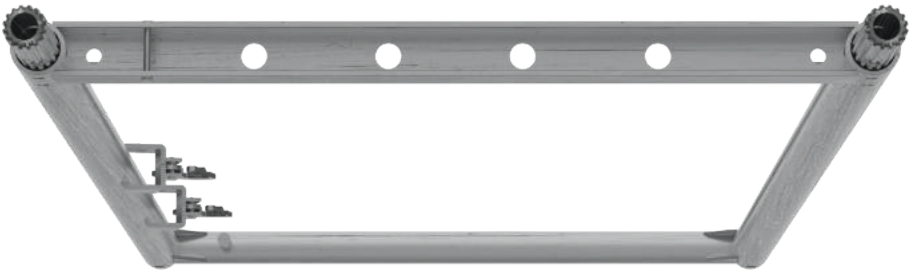
Aluminium frames

Aluminium frames come in one system width (732 m) and four heights, where the 2.0 m high frame is the standard frame, and the other are used primarily on the bottom level of the scaffolding for levelling out in uneven terrain or a more precise fit with the building structure.

Standards of the frame (uprights) are made of tubes with outer diameter of **48.3 mm**, **4.0 mm** in wall thickness. There are studs made of **corrugated tubes**, **38 mm** in outer diameter, on the top end of each standard (used for the erection of the next frame vertically). The bottom bar of the frame (with a pin for toeboard mounting) both stiffens the structure and provides protection against accidental lifting of the decks. It has additional tying to the upright by gusset plates.

The top bar (a special U-profile) is used for deck mounting and is supported on both ends by stays, which are also used for the mounting of one and of the longitudinal ties.

The frame structure allows for the mounting of guardrails in special pockets with wedge locks.



TECHNICAL PARAMETERS

MODEL	66 x 73	100 x 73	150 x 73	200 x 73
SYSTEM HEIGHT	666 mm	1000 mm	1500 mm	2000 mm
SYSTEM WIDTH	732 mm	732 mm	732 mm	732 mm
DIMENSIONAL HEIGHT	821 mm	1155 mm	1655 mm	2155 mm
DIMENSIONAL WIDTH	780 mm	780 mm	780 mm	780 mm
WEIGHT	4,5 kg	5,6 kg	7,2 kg	8,8 kg
PRODUCT CODE	T2105.066	T2105.100	T2105.150	T2105.200

Decking

In scaffolds, **the deck** is one or more decking components on the same level within one bay, where the decking component is a prefabricated or otherwise manufactured component which independently transfer loads and constitutes the deck or a deck section.

73

109

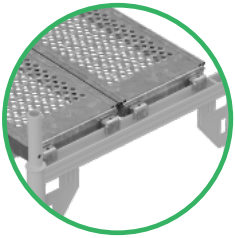
157

207

257

307

Deck mounting on U-profile of the frame



Steel decks have anti-slip perforation, and special heads on both ends with hooks for the frame U-profile mounting. The decks may also be supplied with grips for easer handling and erection.

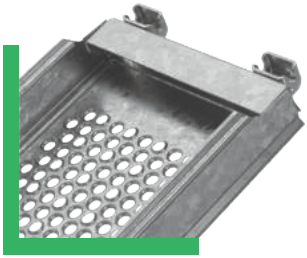
Our offering includes **3 types** of steel decks:

ERGO - made of micro-alloy galvanised steel, in which the heads are joined to the base steel sheeting by high-resistance TOX clinching with additional steel rivets;

STANDARD - made of increased-resistance low-alloy steel, in which the heads are jointed to the base steel sheeting by welding;

HEAVY - made of structural steel with increased yield point - the heads are joined to the base steel sheeting by welding.

STANDARD



ERGO

TECHNICAL PARAMETERS

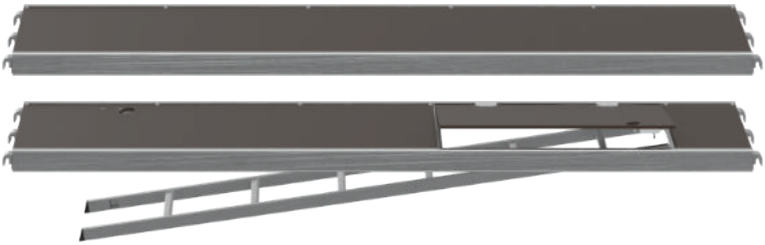
MODEL	73	109	157	207	257	307
SYSTEM LENGHT	732 mm	1088 mm	1572 mm	2072 mm	2572 mm	3072 mm
OVERALL WIDTH	320 mm	320 mm	320 mm	320 mm	320 mm	320 mm
OVERALL LENGTH	722 mm	1078 mm	1562 mm	2062 mm	2562 mm	3062 mm
WEIGHT (ERGO)	5,7 kg	7,6 kg	10,2 kg	13,4 kg	16,1 kg	18,8 kg
WEIGHT (STANDARD)	5,6 kg	7,6 kg	10,3 kg	13,5 kg	16,3 kg	19,1 kg
WEIGHT (HEAVY)	6,2 kg	8,6 kg	11,9 kg	15,7 kg	19,1 kg	22,5 kg
LOAD CLASS	6	6	6	6	5	4
SERVICE LOAD	6 kN/m^2	6 kN/m^2	6 kN/m^2	6 kN/m^2	4,5 kN/m^2	3 kN/m^2
GALVANISING	hot dip	hot dip	hot dip	hot dip	hot dip	hot dip
PART NUMBER (ERGO)	T2200.073	T2200.109	T2200.157	T2200.207	T2200.257	T2200.307
PART NUMBER (STANDARD)	T2201.073	T2201.109	T2201.157	T2201.207	T2201.257	T2201.307
PART NUMBER (HEAVY)	T2202.073	T2202.109	T2202.157	T2202.207	T2202.257	T2202.307

Decking

157

207

257



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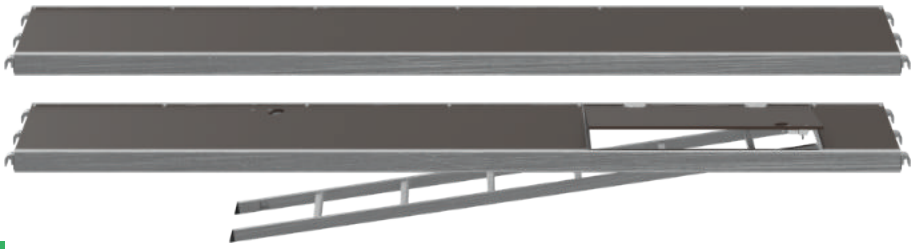


Aluminium-plywood decks come in both circulation variety (with or without an integrated ladder) and working deck variety.

They comprise a welded aluminium frame (with heads on both ends with hooks for the mounting of U-profiles of the rack), reinforced by cross-bars and finished with anti-slip plywood. In the case of circulation decks, there is an additional hatch and integrated aluminium ladder (only for 2.57 m and 3.07 m lengths). The respective models (**Standard** and **Heavy**) differ by the type of alu section used for the deck frame ledgers and head structure.

TECHNICAL PARAMETERS

MODEL	157	157 H*	157 P*	157 PH*	207	207 H*	207 P*	207 PH*
SYSTEM LENGTH	1572 mm	1572 mm	1572 mm	1572 mm	2072 mm	2072 mm	2072 mm	2072 mm
OVERALL LENGHT	1562 mm	1562 mm	1562 mm	1562 mm	2062 mm	2062 mm	2062 mm	2062 mm
WIDTH	605 mm	612 mm	605 mm	612 mm	605 mm	612 mm	605 mm	612 mm
WEIGHT	11,5 kg	12,6 kg	12,6 kg	13,3 kg	14,8 kg	16,5 kg	15,9 kg	17,2 kg
LOAD CLASS	3	3	3	3	3	3	3	3
SERVICE LOAD	2 kN/m^2	2 kN/m^2	2 kN/m^2	2 kN/m^2	2 kN/m^2	2 kN/m^2	2 kN/m^2	2 kN/m^2
PLYWOOD THICKNESS	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm
LADDER	--	--	--	--	--	--	--	--
PART NUMBER	T2205.157	T2206.157	T2203.157	T2204.157	T2205.207	T2206.207	T2203.207	T2204.207

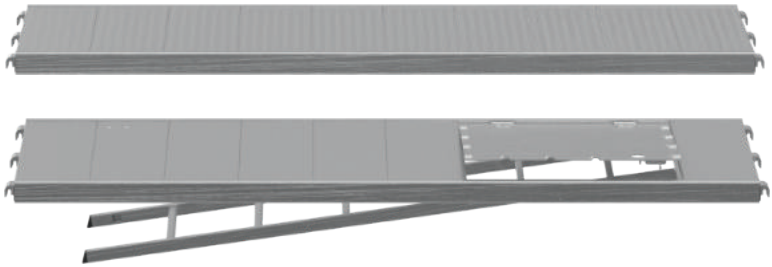
MODEL	257	257 H*	257 P*	257 PH*	307	307 H*	307 P*	307 PH*
SYSTEM LENGTH	2572 mm	2572 mm	2572 mm	2572 mm	3072 mm	3072 mm	3072 mm	3072 mm
OVERALL LENGTH	2562 mm	2562 mm	2562 mm	2562 mm	3062 mm	3062 mm	3062 mm	3062 mm
WIDTH	605 mm	612 mm	605 mm	612 mm	605 mm	612 mm	605 mm	612 mm
WEIGHT	17,9 kg	19,8 kg	21,1 kg	23,6 kg	21,2 kg	25,3 kg	24,2 kg	29,1 kg
LOAD CLASS	3	3	3	3	3	3	3	3
SERVICE LOAD	2 kN/m^2	2 kN/m^2	2 kN/m^2	2 kN/m^2	2 kN/m^2	2 kN/m^2	2 kN/m^2	2 kN/m^2
PLYWOOD THICKNESS	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm
LADDER	--	--	yes	yes	--	--	yes	yes
PART NUMBER	T2205.257	T2206.257	T2203.257	T2204.257	T2205.307	T2206.307	T2203.307	T2204.307

***H** – HEAVY ***P** – WALKTHROUGH ***PH** – WALKTHROUGH HEAVY

Decking

Aluminium decks come both as circulation decks (with an integrated ladder) and working decks.

257



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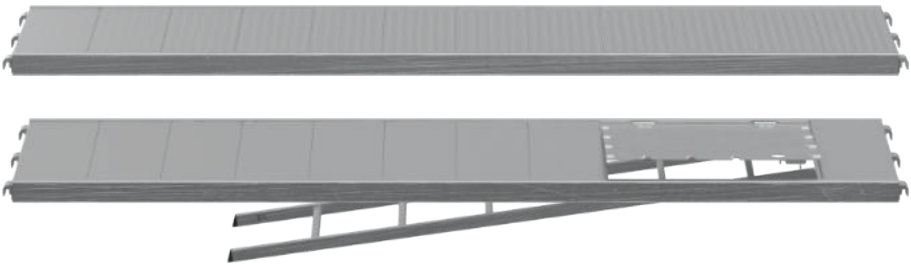


They comprise a welded frame (with heads on both ends with hooks for the mounting of frame U-profiles), reinforced by cross-bars and finished with anti-slip aluminium panel. In the case of circulation decks, there is an additional hatch and integrated ladder. The respective models (**Standard** and **Heavy**) differ by the type of alu section used for the deck frame ledgers and head structure.

MODEL	257 A*	257 AH*	257 AP*	257 APH*	307 A*	307 AH*	307 AP*	307 APH*
SYSTEM LENGTH	2572 mm	2572 mm	2572 mm	2572 mm	3072 mm	3072 mm	3072 mm	3072 mm
OVERALL LENGTH	2562 mm	2562 mm	2562 mm	2562 mm	3062 mm	3062 mm	3062 mm	3062 mm
WIDTH	605 mm	612 mm	605 mm	612 mm	605 mm	612 mm	605 mm	612 mm
WEIGHT	14,6 kg	17,0 kg	18,8 kg	21,7 kg	17,2 kg	21,9 kg	21,4 kg	26,6 kg
LOAD CLASS	4	4	4	4	3	3	3	3
SERVICE LOAD	3 kN/m^2	3 kN/m^2	3 kN/m^2	3 kN/m^2	2 kN/m^2	2 kN/m^2	2 kN/m^2	2 kN/m^2
LADDER	--	--	yes	yes	--	--	yes	yes
PART NUMBER	T2209.257	T2210.257	T2207.257	T2208.257	T2209.307	T2210.307	T2207.307	T2208.307

*** A –** ALIMINIUM **H –** HEAVY **P –** WALK-THROUGH

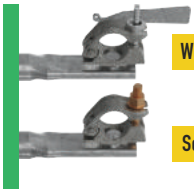
Steel ladder with mounting hooks is a component which, together with a 157 or 207 aluminium-plywood circulation deck, may constitute a circulation path, or allow entry on the first level of the scaffold whose height is below 2.0 mm (as a straight ladder mounted to the tube with scaffold couplings).

The ledgers, 270 mm apart, are connected by rungs, and the ladder is also fitted with two hooks for suspension under the circulation deck. The centre-to-centre width is 300 mm.

MODEL	DR 200
OVERALL WIDTH	340 mm
OUTER HEIGHT	2120 mm
WEIGHT	7,5 kg
PART NUMBER	T0900.200

Diagonal braces

Diagonal braces ensure lateral rigidity in vertical planes.

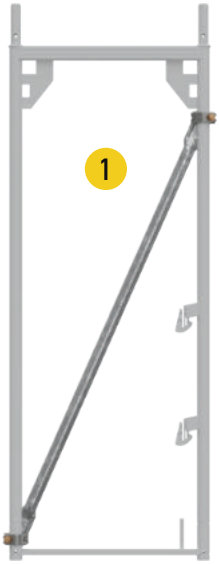


Wedge coupling

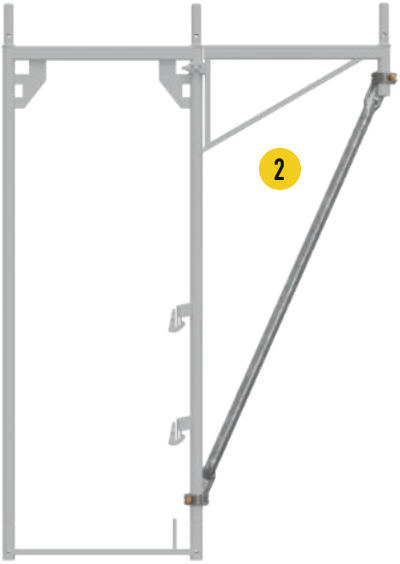
Screw coupling

Diagonal braces are made of tubes flattened at both ends. One of them (chamfered), mounted in the hole in the stay, is individually shaped for each system bay width from 3.07 m to 2.07 m, and standard storey height of 2.0 m. On the other end is an articulated half-coupling with a wedge or screw, mounted to the rack of the adjacent frame.

If the bay is 1.57 m long and 2.0 m high, there are articulated half-couplings with a wedge or screw on both ends of the brace. **The transverse brace** has the same structure, and can be mounted across the frame, providing additional rigidity, e.g. for vertical circulation shafts, where there are girders, and also as the support for 0.73 or 1.09 m brackets (as a stay).



Transverse bracing



TECHNICAL PARAMETERS

MODEL	73 x 200	109 x 200	157 x 200	207 x 200	257 x 200	307 x 200
OVERALL LENGTH	1834 mm	2018 mm	2430 mm	2830 mm	3222 mm	3643 mm
WEIGHT (WITH WEDGE)	--	--	6,6 kg	6,7 kg	7,5 kg	8,4 kg
WEIGHT (WITH SCREW)	5,0 kg	5,4 kg	6,2 kg	6,5 kg	7,3 kg	8,2 kg
TUBE DIAMETER	42,4 mm	42,4 mm	42,4 mm	42,4 mm	42,4 mm	42,4 mm
GALVANISING	hot dip	hot dip	hot dip	hot dip	hot dip	hot dip
PART NUMBER (WITH WEDGE)	--	--	T2303.157	T2301.207	T2301.257	T2301.307
PART NUMBER (WITH SCREW)	T2304.073	T2304.109	T2302.157	T2300.207	T2300.257	T2300.307

Side protection

Work areas and access zones should be secured by side protection items (guardrails) comprising **the top rail**, **the bottom rail** and the toeboard. **Rails** are laterally mounted to the frame uprights on the deck side, at the appropriate height, and provide protection against falling off the deck.

307

257

207

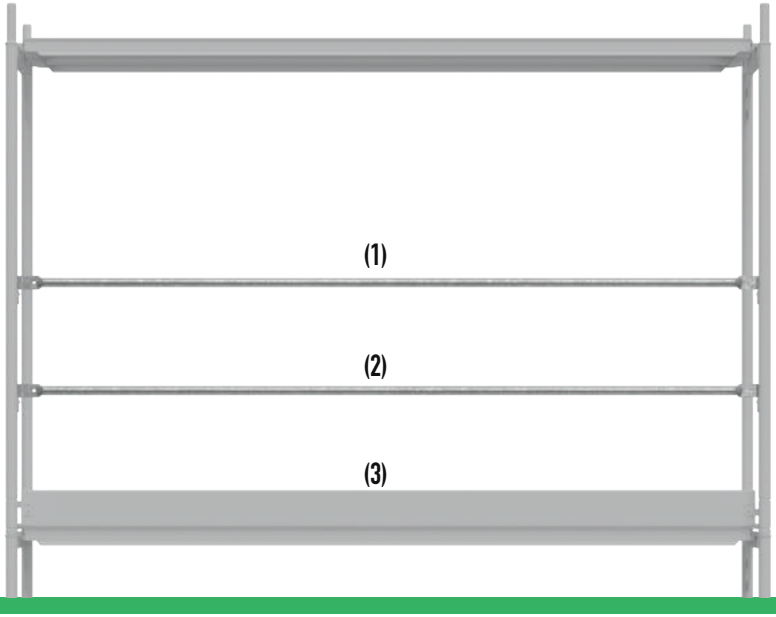
157

109

73

Steel rails are made of tubes flattened at both ends, with steel sheeting plates welded, which are inserted in the pockets with wedges during installation, e.g. of frames, rail posts with deck protection and face frames.

They are used both as the main rail and bottom rail, making up the full guardrail together with the toeboard (**main rail (1)** + **bottom rail (2)** + **toeboard (3)**).



TECHNICAL PARAMETERS

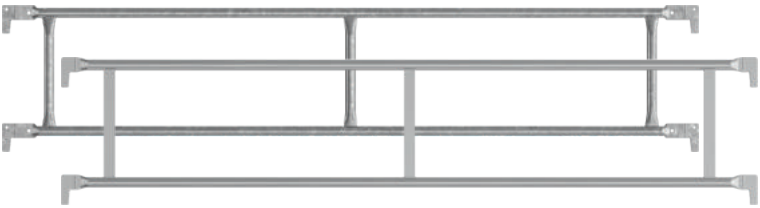
MODEL	73	109	157	207	257	307
SYSTEM LENGTH	732 mm	1088 mm	1572 mm	2072 mm	2572 mm	3072 mm
OVERALL LENGTH	765 mm	1121 mm	1605 mm	2105 mm	2605 mm	3105 mm
WEIGHT	1,5 kg	2,0 kg	3,0 kg	3,8 kg	4,7 kg	5,4 kg
TUBE DIAMETER	38 mm	38 mm	38 mm	38 mm	38 mm	38 mm
GALVANISING	hot dip	hot dip	hot dip	hot dip	hot dip	hot dip
PART NUMBER	T2400.073	T2400.109	T2400.157	T2400.207	T2400.257	T2400.307

Side protection

Rails are items mounted horizontally to the uprights of scaffolding frames on the deck end at the appropriate height, providing protection against falling off the deck.

307

257

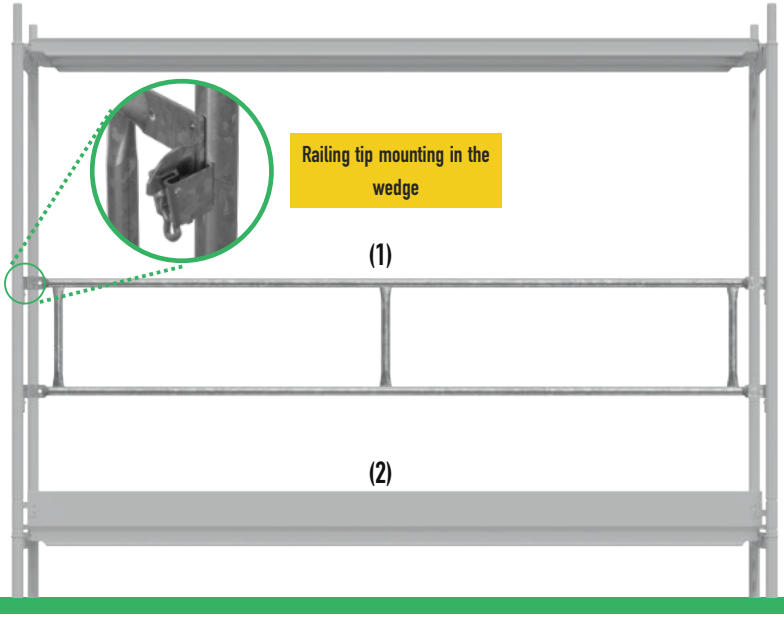


207

157

Double rail (both in steel and aluminium version), made of two single rails - tubes which are flattened on ends, where steel sheet plates are welded which, during installation, are placed in pockets with wedges of e.g. frame, rail posts, rail posts with deck and head frame protection, and the whole arrangement is assembled into a frame by posts.

They are used both as the main rail and bottom rail, making up the full guardrail together with the toeboard (**main rail (1)** + **bottom rail (2)** + **toeboard (3)**).



TECHNICAL PARAMETERS

MODEL	157	207	257	307
SYSTEM LENGTH	1572 mm	2072 mm	2572 mm	3072 mm
OVERALL LENGTH	1605 mm	2105 mm	2605 mm	3105 mm
HEIGHT	545 mm	545 mm	545 mm	545 mm
WEIGHT (STEEL VERSION)	7,2 kg	8,9 kg	11,4 kg	13,1 kg
WEIGHT (ALUMINIUM VERSION)	2,8 kg	3,4 kg	4,3 kg	4,9 kg
PART NUMBER (STEEL VERSION)	T2403.157	T2403.207	T2403.257	T2403.307
PART NUMBER (ALUMINIUM VERSION)	T2404.157	T2404.207	T2404.257	T2404.307

Side protection

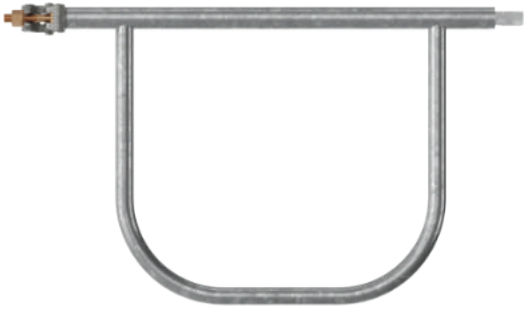
End rails are items mounted horizontally to the uprights of scaffolding frames on the deck end (from the head of the scaffold) at the appropriate height, providing protection against falling off the deck.

SINGLE 73

Single end rail - made of tube flattened on one end, with a half-coupling to be mounted on the frame upright, and with a C-section on the other, to be mounted on the external frame upright (over the pocket for rail mounting).

It performs the role of the top rail and bottom rail, constituting the full guardrail system on the front end of the scaffold (**end guardrail** = **top rail** (single) + **bottom rail** (single end) + **toeboard** (end toeboard).

DOUBLE 73



Double end rail - is made of a horizontal tube (top rail from the front of the scaffold), with a half-coupling on one end to be mounted on the frame upright, with a C-section on the other, to be mounted on the external frame upright (over the pocket for rail mounting). A bent tube is welded to that item, whose horizontal member is a bottom rail. Along with the end toeboard, it constitutes the full guardrail at the end of the scaffold (**end guardrail** = **top rail** + **bottom rail** (double top rail) + **toeboard** (end toeboard)).

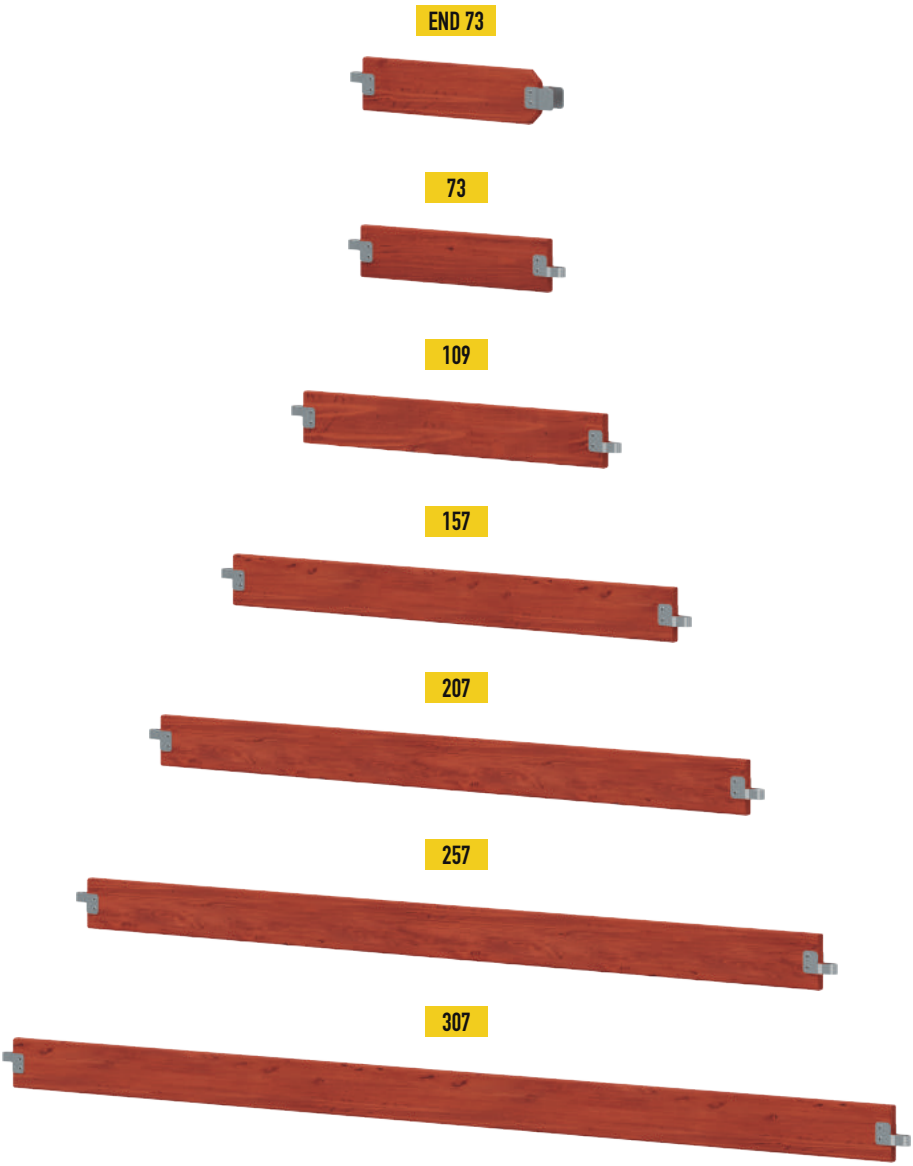
Example use of single end rail

TECHNICAL PARAMETERS

MODEL	SINGLE 73	SINGLE 109	DOUBLE 73	DOUBLE 109
SYSTEM WIDTH	732 mm	1088 mm	732 mm	1088 mm
OVERALL LENGTH	760 mm	1116 mm	760 mm	1116 mm
OVERALL HEIGHT	40 mm	40 mm	500 mm	500 mm
WEIGHT	1,9 kg	2,6 kg	3,2 kg	4,4 kg
GALVANISING	hot dip	hot dip	hot dip	hot dip
PART NUMBER	T2401.073	T2401.109	T2402.073	T2402.109

Side protection

The toeboard is a flat protective component (e.g. a plank) limiting the working deck and providing protection against the user's foot slipping, or against material and people falling off the deck.



Toeboards are made of timber impregnated against adverse weather factors, with steel grips on both ends for the mounting on the frame studs. As a standard, they provide deck protection on the outside of the scaffold and are mandatory guardrail components, next to rails.

***Toeboards may have your company logo**

TECHNICAL PARAMETERS

MODEL	END 73	END 109	73	109	157	207	257	307
SYSTEM LENGTH	732 mm	1088 mm	732 mm	1088 mm	1572 mm	2072 mm	2572 mm	3072 mm
OVERALL LENGTH	710 mm	1066 mm	750 mm	1105 mm	1590 mm	2090 mm	2590 mm	3090 mm
HEIGHT	150 mm	150 mm	150 mm	150 mm	150 mm	150 mm	150 mm	150 mm
WEIGHT	1,3 kg	1,7 kg	1,6 kg	2,4 kg	3,2 kg	4,1 kg	5,1 kg	6,1 kg
TIMBER TYPE	conifer	conifer	conifer	conifer	conifer	conifer	conifer	conifer
FLASHING GALV.	hot dip	hot dip	hot dip	hot dip	hot dip	hot dip	hot dip	hot dip
PART NUMBER	T2405.073	T2405.109	T2406.073	T2406.109	T2406.157	T2406.207	T2406.257	T2406.307

Side protection

Rail posts, rail posts with deck protection and end frames can be used for the mounting of the guardrail at the top scaffold level, or guardrails that protect decks on the brackets.

200 100

The rail post is used for guardrail mounting on brackets. It is mounted directly on the bracket stud.

It comprises a tubular upright and a cross-bar with a pin for toeboard mounting.

The upright has pockets with wedges for rail mounting.

The steel version of the post is protected against corrosion by **hot dip galvanising**.

100 ALU 200 ALU

TECHNICAL PARAMETERS

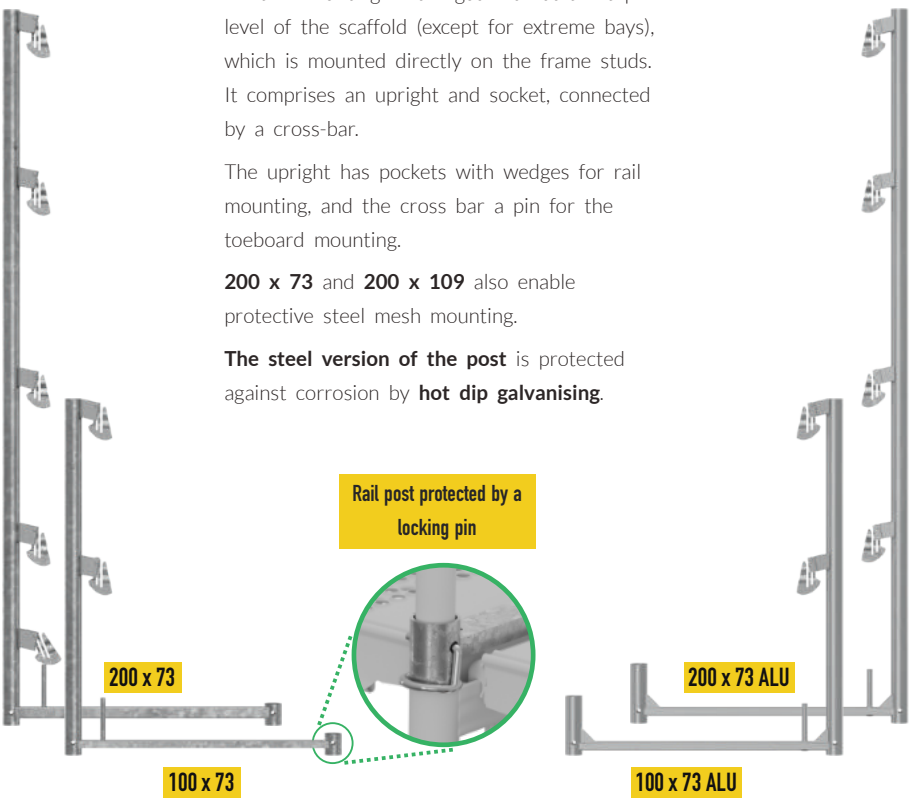
MODEL	100	200	100 ALU	200 ALU
SYSTEM HEIGHT	1000 mm	2000 mm	1000 mm	2000 mm
OVERALL HEIGHT	1000 mm	2000 mm	1000 mm	2000 mm
WIDTH	135 mm	135 mm	150 mm	150 mm
WEIGHT	4,3 kg	8,7 kg	2,0 kg	3,8 kg
GALVANISING	hot dip	hot dip	--	--
PART NUMBER	T2407.100	T2407.200	T2408.100	T2408.200

The rail post with deck protection is used for the mounting of the guardrail at the top level of the scaffold (except for extreme bays), which is mounted directly on the frame studs. It comprises an upright and socket, connected by a cross-bar.

The upright has pockets with wedges for rail mounting, and the cross bar a pin for the toeboard mounting.

200 x 73 and **200 x 109** also enable protective steel mesh mounting.

The steel version of the post is protected against corrosion by **hot dip galvanising**.



TECHNICAL PARAMETERS

MODEL	100 x 73	200 x 73	100 x 109	200 x 109	100 x 73 ALU	200 x 73 ALU
SYSTEM HEIGHT	1000 mm	2000 mm	1000 mm	2000 mm	1000 mm	2000 mm
SYSTEM WIDTH	732 mm	732 mm	1088 mm	1088 mm	732 mm	732 mm
OVERALL HEIGHT	1000 mm	2000 mm	1000 mm	2000 mm	1000 mm	2000 mm
WIDTH	780 mm	780 mm	1136 mm	1136 mm	780 mm	780 mm
WEIGHT	5,5 kg	12,8 kg	6,4 kg	14,0 kg	2,3 kg	3,8 kg
GALVANISING	hot dip	hot dip	hot dip	hot dip	--	--
PART NUMBER	T2409.100	T2409.200	T2415.100	T2415.200	T2410.100	T2410.200

Side protection

A special type of rail posts with deck protection is the **all-purpose posts**, **2 m high**, enabling their installation on scaffolds where the top storeys has 0.36 m, 0.50 m or 0.73 m consoles on the external side of the scaffold.

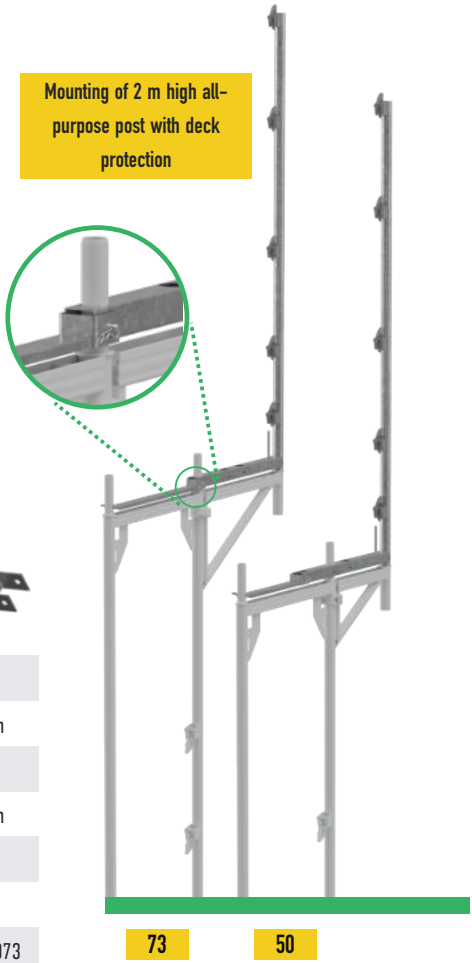
They comprise an upright with pockets for rail or steel protective mesh (roof worker protection) mounting, a cross-bar with holes aloowing for the mounting on the frame stud (3 holes to be joined with the matching brackets), and a pin for toeboard mounting.

An addition to the **2 m high all-purpose posts** are **deck protection trims**, **pivots with locking pins**, **or safety pins**.

TECHNICAL PARAMETERS

MODEL	200
SYSTEM HEIGHT	2000 mm
SYSTEM WIDTH	732 / 500 / 356 mm
OVERALL HEIGHT	2000 mm
WIDTH	798 mm
WEIGHT	13,2 kg
GALVANISING	hot dip
PART NUMBER	T2411.200

Mounting of 2 m high all-purpose post with deck protection



TECHNICAL PARAMETERS

MODEL	36	50	73
SYSTEM WIDTH	362 mm	500 mm	732 mm
SYSTEM HEIGHT	45 mm	45 mm	45 mm
WIDTH	387 mm	525 mm	757 mm
WEIGHT	0,7 kg	0,9 kg	1,2 kg
GALVANISING	hot dip	hot dip	hot dip
PART NUMBER	T2416.036	T2416.050	T2416.073

The end frame is an item of the end guardrail of the top scaffolding storey (it has two integrated end rails) enables mounting of a full guardrail in two extreme, highest bays of the scaffold, and of the end toeboard.

The end frame is composed of two uprights connected by three cross-bars. The bottom cross-bar provides protection against accidental lifting of the top scaffold level decks, and the other two are used as end rails. The assembly is also fitted with pockets with wedges for rail mounting and a pin enabling toeboard mounting in extreme bays and at the scaffold end.

END 73 | END 73 | 4P | END 73 ALU

It comes in the steel and aluminium variety. The variety with additional pockets for rail mounting and pin for toeboard mounting is used if it is necessary to erect the guardrail (toprail and toebooard) on the inside of the scaffold, i.e. primarily if the scaffold deck is set off against the facade by more than **20 cm**.

TECHNICAL PARAMETERS

MODEL	END 73	END 73 | 4P	END 109	END 109 | 4P	END 73 ALU
SYSTEM HEIGHT	1000 mm	1000 mm	1000 mm	1000 mm	1000 mm
SYSTEM WIDTH	732 mm	732 mm	1088 mm	1088 mm	732 mm
OVERALL HEIGHT	1000 mm	1000 mm	1000 mm	1000 mm	1000 mm
WIDTH	780 mm	780 mm	1136 mm	1136 mm	780 mm
WEIGHT	10,8 kg	11,5 kg	13,4 kg	14,1 kg	4,4 kg
GALVANISING	hot dip	hot dip	hot dip	hot dip	--
PART NUMBER	T2412.073	T2413.073	T2412.109	T2413.109	T2414.073

4P – VERSION WITH ADDITIONAL RAIL AND TOEBOARD MOUNTING

Brackets

The bracket is a structural component mounted on the load-bearing structure to add extra working decks or rain guards.

36 T 36

Bracket 32 is primarily used to widen the working deck on the inside of the scaffold by one 320 mm wide deck. It is a structure made of three closed profiles, fitted with a half-coupling and support. The horizontal load-bearing profile (U-profile) is used for deck mounting. It has a protection feature against inadvertent lifting of the decks.

The bracket is mounted to the upright with a half-coupling, at the same time supporting it by a special-shape diagonal section end fitting.

50 T

Bracket 50 with a pin is used if it is necessary to shorten or widen the scaffolding bay by 0.5 m. It is a structure made of three closed profiles, fitted with a half-coupling and stud t mount the frame of the next storey. The bracket is mounted to the upright with a half-coupling, at the same time supporting it by a special-shape diagonal section end fitting.

73 T

Bracket 73 with a pin is used to widen the working deck by two 320 mm wide decks or one 630 mm wide deck on the outside of the scaffold. It is a structure made of three closed profiles, fitted with a half-coupling. At one end of horizontal U-profile (the load-bearing profile, on which decks are mounted), there is a stud for the mounting of the rail post. The bracket is mounted to the upright with a half-coupling, at the same time supporting it by a special-shape diagonal section end fitting. This bracket may require the use of a transverse brace (stay).

Bracket 73 with two pins is used to widen the working deck by two 320 mm wide decks or one 630 mm wide deck on the outside of the scaffold, and to shift the axis of the scaffold by 0.73 m.

This bracket is made of two uprights of different length, terminating with studs, a horizontal U-profile, on which decks are mounted, and a diagonal reinforcement. The bracket is mounted to the frame upright with two half-couplings on the longer upright.

Bracket 109 with a pin is used to widen the working deck by three 320 mm wide decks or one 605 mm wide and one 320 mm wide deck on the outside of the scaffold.

It is a structure made of five closed profiles, fitted with a half-coupling. At one end of horizontal U-profile (the load-bearing profile, on which decks are mounted), there is a stud for the mounting of the rail post. The bracket is mounted to the upright with a half-coupling, at the same time supporting it by a special-shape diagonal section end fitting. This bracket may require the use of a transverse brace (stay).

TECHNICAL PARAMETERS

MODEL	36	36 T*	50 T*	73 T*	73 2T*	109 T*
SYSTEM WIDTH	356 mm	356 mm	500 mm	732 mm	732 mm	1088 mm
OVERALL HEIGHT	310 mm	450 mm	455 mm	585 mm	825 mm	635 mm
WIDTH	390 mm	440 mm	580 mm	815 mm	930 mm	1170 mm
WEIGHT	2,7 kg	3,3 kg	4,8 kg	6,3 kg	9,4 kg	9,2 kg
GALVANISING	hot dip	hot dip	hot dip	hot dip	hot dip	hot dip
PART NUMBER	T2502.036	T2503.036	T2504.050	T2505.073	T2506.073	T2508.109

* T – ONE PIN 2T – TWO PINS

Couplers

Couplers in scaffoldings are used to join two or more components.

RA

The right angle coupler (RA) is used to join two tubes at the right angle. It is classified as a fixed or normal structural joint. It is used for frame, modular as well as tube and coupler scaffolds to connect two tubes whose outer diameter is **48.3 mm** at the angle of 90°, in particular to attach anchoring connectors to frames, truss girders to the scaffold structure, and primarily to join the respective components in tube and coupler scaffolds (such as e.g. rails, ledgers or transoms) with frames.

SW

Swivel coupler (SW) is used to connect two tubes at any angle. It is classified as an articulated structural joint. It is used for frame, modular as well as tube and coupler scaffolds to connect two tubes whose outer diameter is **48.3 mm** at any angle, i.e. to attach additional diagonal bracing, trusses, rain guard structures, or to stabilise the scaffold structure with tubes.

SF

Sleeve coupler (SF) is used to connect two tubes having the same axis. It is classified as a contact structural joint. It is used to connect two tubes whose outer diameter is **48.3 mm** in straight line, until the required length of the tube is achieved. it is primarily used for tube and coupler scaffolds to extend e.g. rails, ledgers and transoms. It can be used with a **centering pin** which prevents crimping of the ends of the connected tubes.

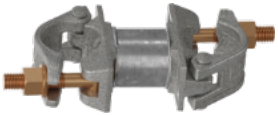
ZKL

Clamp coupler, also classified as a structural joint, is used to suspend tubes whose outer diameter is **48.3 mm** to steel structures (e.g. made of I beams). In such cases, it is necessary to use two clamp couplers to suspend a single tube.

ZKR

Toeboard coupler is an auxiliary component used for the mounting of extra toeboards on scaffolds, in particular where the working deck is set off against the facade by more than **20 cm**. It comprises one half of the swivel coupler (enabling attachment of tubes with outer diameter of **48.3 mm**) and a pin for the mounting of an extra toeboard on decks.

PA11



PA16

Parallel coupler (PA) - is a coupler used for parallel connection of two tubes. It is used to connect two tubes whose outer diameter is **48.3 mm**, when appropriate distance between their parallel axes is ensured.

It is primarily used for frame scaffolds to connect frames in structures with doors or in building corners. It comes in two dimensional varieties: distances between the axes are **113 mm** or **160 mm**.

ZP

Rail coupler is also an auxiliary coupler, used to attach additional rails on scaffolds, in particular where the working deck is set off against the facade by more than **20 cm**. It comprises one half of a swivel coupler (enabling attachment of tubes with outer diameter of **48.3 mm**) and a pocket with a wedge for the mounting of extra rails.

TECHNICAL PARAMETERS

MODEL	RA	SW	SF	ZKL	ZKR	PA 11	PA 16	ZP
CLASS	B	B	A lub B	--	--	--	--	--
NUT TIGHTENING TORQUE	50 Nm	50 Nm	50 Nm	50 Nm	50 Nm	50 Nm	50 Nm	50 Nm
WEIGHT	1,1 kg	1,25 kg	1,5 kg	0,8 kg	0,8 kg	1,4 kg	1,6 kg	1,1 kg
GALVANISING	electro.	electro.	electro.	electro.	electro.	electro.	electro.	electro.
PART NUMBER	T0903.000	T0904.000	T0905.000	T0912.000	T0906.000	T0907.113	T0907.160	T2900.000

Accessories

TECHNICAL PARAMETERS

TC

Centring pin is used, together with the sleeve coupler, to connect two tubes whose outer diameter is **48.3 mm** in one axis. Its purpose is to keep the tubes in one axis, transfer compressive forces that operate on them and prevent their crimping. Used mainly for rack extension in tube and coupler scaffolds, and for rail or ledger extension.

MODEL	TC
DIMENSIONAL LENGTH	200 mm
OUTER DIAMETER	48 mm
WEIGHT	0,8 kg
GALVANISING	electro.
PRODUCT CODE	T0909.000

SM

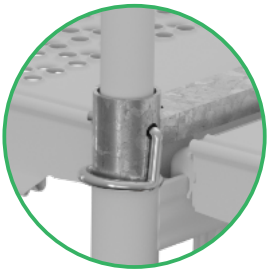
T-head bolt with a hex nut - used as a scaffold coupler accessory. **The T-head bolt** is 14 mm in diameter in 8.8 class, whereas the **hex nut** has wrench size of 22 mm.

MODEL	SM
BOLT DIMENSIONS	M14x70
NUT DIMENSIONS	M14
NUT TIGHTENING TORQUE	50 Nm
WEIGHT	0,2 kg
GALVANISING	electro.
PRODUCT CODE	T0910.000

ZZ

The locking pin is a profiled wire whose diameter is 8 mm, used to protect frames, rail posts with deck protection and end frames against accidental decoupling (e.g. by strong wind). It is mounted in special holes in the bottom sections of the above scaffold components. It may also provide protection for scaffold sections handled by a crane.

MODEL	ZZ
DIAMETER	8 MM
WEIGHT	0,1 kg
GALVANISING	electro.
PRODUCT CODE	T0911.000



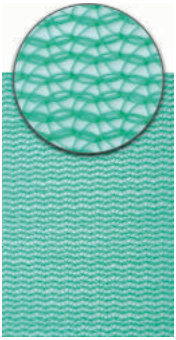
KG 19/22

The ratchet spanner is used in scaffolds to tighten coupler nuts. The tool can be used with two nut sizes (19/22) and can work in both directions (left and right twist), which facilities the coupling installation and dismantling.

TECHNICAL PARAMETERS

MODEL	KG 19/22
WRENCH SIZE	19 / 22 mm
DIMENSIONAL LENGTH	320 mm
WEIGHT	0,5 kg
PRODUCT CODE	T0913.000

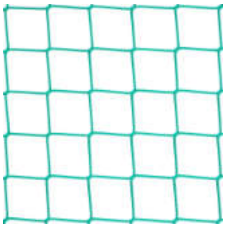
SOP



Scaffolds situated directly at roads, streets, at intersections and pedestrian junctions should have **protective nets** installed, whose application does not waive the requirement to use guardrails.

The light **anti-dust net** made of polyethylene, woven at the edges (to prevent tearing) provides effective protection for work near the scaffolding (e.g. for pedestrians) against dust in the course of corrosion protection or spray painting. It has lugs for scaffold frame mounting, e.g. with cable ties.

SOD



Roofer protective net made of polypropylene, constitutes additional protection for workers using the scaffold. It is used in particular for the top scaffold level where, together with a complete guardrail constitutes robust protection for roofers against falling from height.

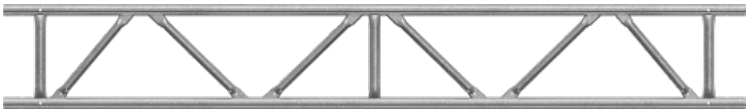
TECHNICAL PARAMETERS

MODEL	SOP 2,5/10	SOP 2,5/20	SOP 3,0/10	SOP 3,0/20	SOD 4,5	SOD 8	SOD 10
MESH SIZE	--	--	--	--	4,5 x 4,5 cm	8 x 8 cm	10 x 10 cm
WEIGHT	50 g/m^2	50 g/m^2	50 g/m^2	50 g/m^2	--	--	--
LENGTH	10 m	20 m	10 m	20 m	any	any	any
WIDTH	2,6 m	2,6 m	3,1 m	3,1 m	any	any	any
THICKNESS	--	--	--	--	5 mm	5 mm	5 mm
PRODUCT CODE	T0914.251	T0914.252	T0914.301	T0914.302	T0915.004	T0915.008	T0915.010

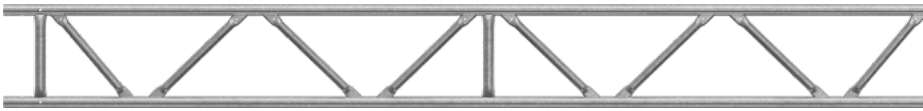
Truss girders

Truss girders are longitudinal structural members whose purpose is to support the structure.

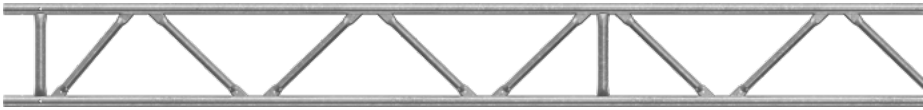
324



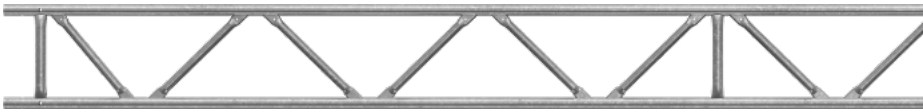
424



524

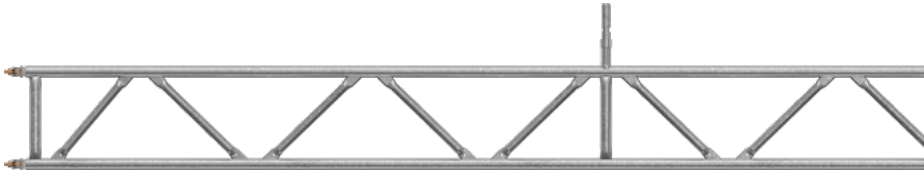


624

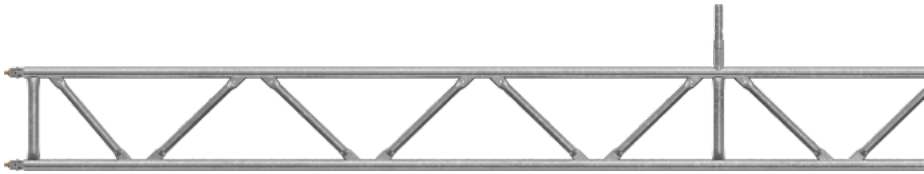


A special structural solutions within truss girders are the so-called **walk-through** girders. They are primarily used for suspensions over gate entrances. In comparison to standard girders, the top and bottom chords feature half-couplers which enable mounting to the frame uprights, and there is also a stud at the centre of the top chord, made of a tube, 38 mm in outer diameter. This structure enables erection of the frame of another level and extension of the scaffold over the gate entrance.

500 P



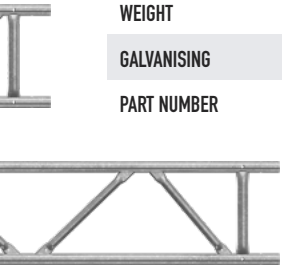
600 P

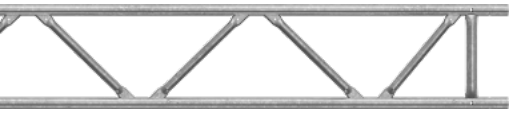


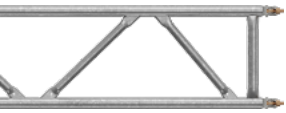
TECHNICAL PARAMETERS

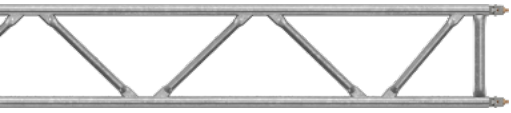
MODEL	324	424	524	514 P	624	614 P
SYSTEM LENGTH	3240 mm	4240 mm	5240 mm	5144 mm	6240 mm	6144 mm
SYSTEM HEIGHT	400 mm	400 mm	400 mm	400 mm	400 mm	400 mm
OVERALL LENGTH	3240 mm	4240 mm	5240 mm	5250 mm	6240 mm	6250 mm
OVERALL HEIGHT	448 mm	448 mm	448 mm	720 mm	448 mm	720 mm
WEIGHT	33,0 kg	42,1 kg	51,2 kg	52,8 kg	60,3 kg	61,8 kg
GALVANISING	hot dip	hot dip	hot dip	hot dip	hot dip	hot dip
PART NUMBER	T0500.324	T0500.424	T0500.524	T2500.514	T0500.624	T2500.614

P - WALKTHROUGH









Steel truss girders are used for suspensions over gate entrances, platforms, canopies, non standard scaffold structures, e.g. for scaffolds erected on construction brackets.

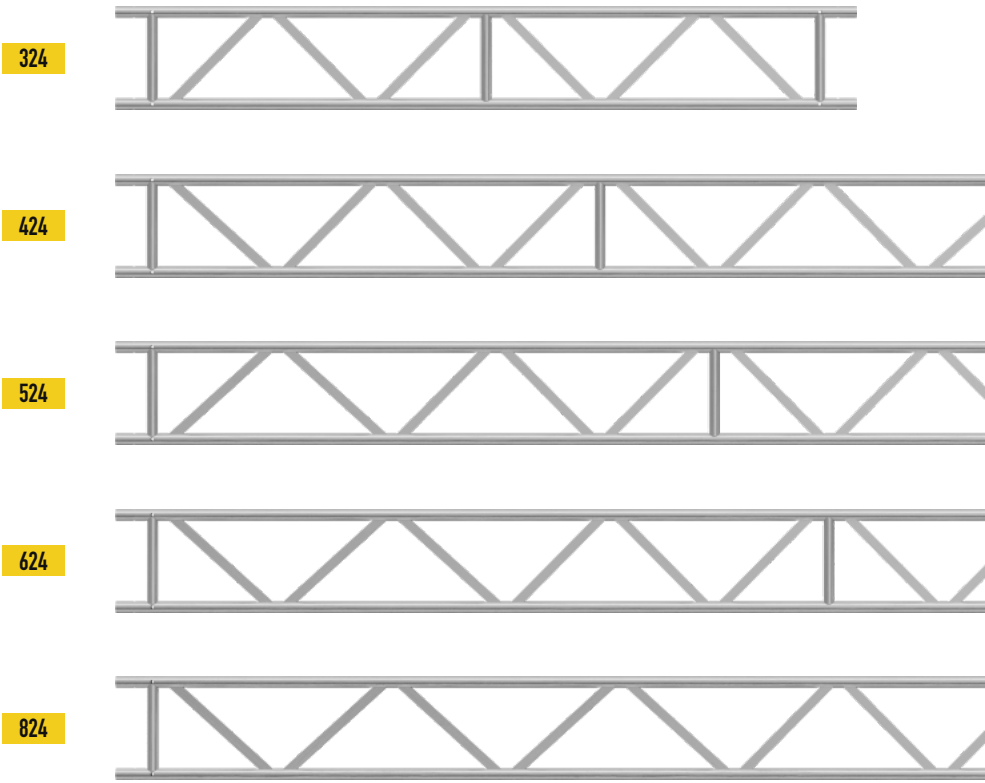
They comprise:

- the top and bottom chord - two horizontal tubes with outer diameter of 48.3 mm
- vertical posts - made of tubes with outer diameter of 48.3 mm, connecting the top and bottom chord
- diagonal members

At both ends of the top and bottom chord there are holes for **girder connection** through girder connectors.

The application of a 48.3 mm tube enables attachment of girders to the scaffold structure using standard right-angle couplers.

Aluminium girders



Aluminium truss girders are used for suspensions over gate entrances, platforms, canopies, non standard scaffold structures, e.g. for scaffolds erected on construction brackets. They comprise the following components made of special aluminium alloys:

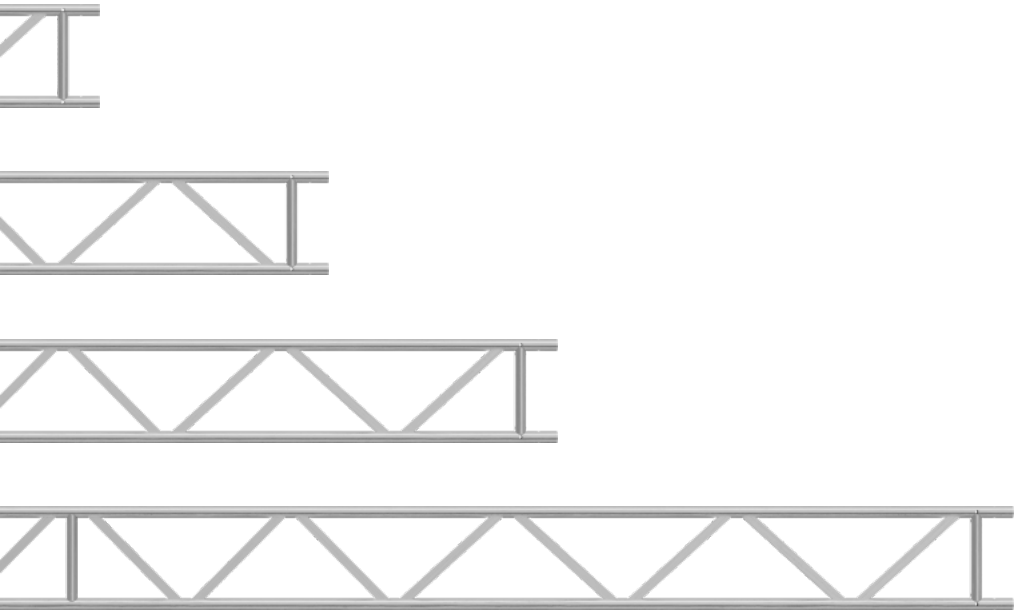
- the top and bottom chord - two horizontal tubes with outer diameter of 48.3 mm

- vertical posts - made of tubes with outer diameter of 48.3 mm, connecting the top and bottom chord

- diagonal members.

At both ends of the top and bottom chord there are holes for girder connection through **girder connectors**.

The application of 48.3 mm tubes enables attachment of girders to the scaffold structure using standard right-angle couplers.



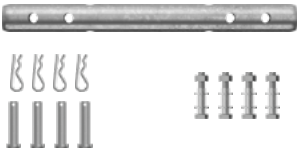
TECHNICAL PARAMETERS

MODEL	324	424	524	624	824
SYSTEM LENGTH	3240 mm	4240 mm	5240 mm	6240 mm	8240 mm
SYSTEM HEIGHT	400 mm	400 mm	400 mm	400 mm	400 mm
OVERALL LENGTH	3240 mm	4240 mm	5240 mm	6240 mm	8240 mm
OVERALL HEIGHT	448 mm	448 mm	448 mm	448 mm	448 mm
WEIGHT	12,8 kg	16,5 kg	20,1 kg	23,8 kg	31,3 kg
PART NUMBER	T0502.324	T0502.424	T0502.524	T0502.624	T0502.824

Girder accessories

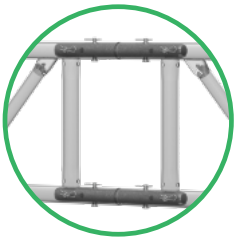
Among supplementary items for truss girders there are **girder connectors and walkthrough girder transoms**.

LD



Girder connectors are used for longitudinal joining of truss girders. They are made of tubes with outer diameter of 38 mm, have six holes for girder connection using special locking pins or bolts and nuts.

Connection of girders by a connector and a locking pin

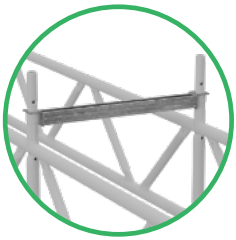


RDP

Walkthrough girder transom is used together with walkthrough girders, and provides support for decks half-way point of the girder length.

It comprises a U-profile (on which decks are mounted) and plates with holes, where walkthrough girder studs are inserted.

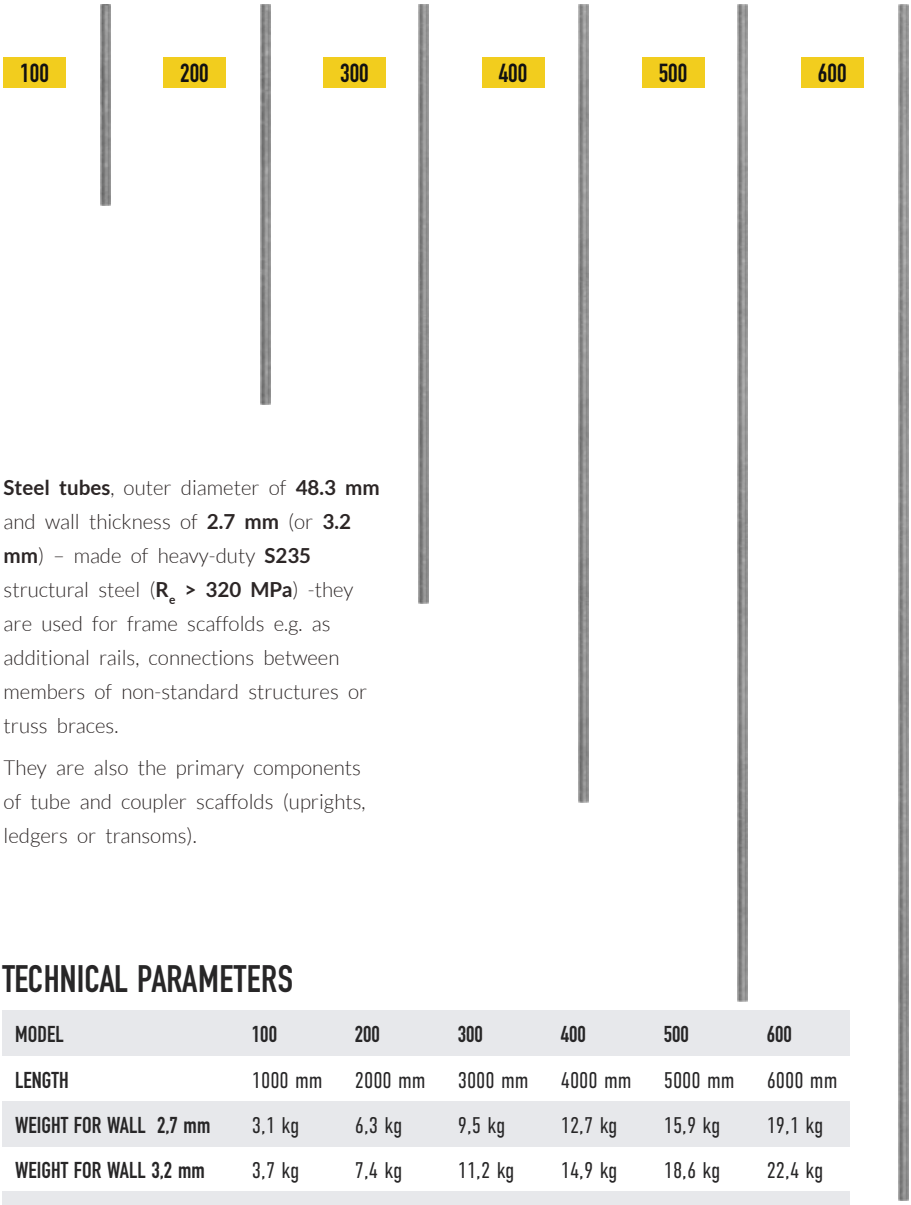
Girder connections by a walkthrough girder transom



TECHNICAL PARAMETERS

MODEL	LD	RDP
SYSTEM LENGTH	--	732 mm
OVERALL HEIGHT	--	60 mm
OVERALL LENGTH	415 mm	782 mm
WEIGHT	2,3 kg	2,8 kg
GALVANISING	hot dip	hot dip
PART NUMBER	T0503.041	T2501.073

Scaffold tubes



Steel tubes, outer diameter of **48.3 mm** and wall thickness of **2.7 mm** (or **3.2 mm**) – made of heavy-duty **S235** structural steel (**R_e > 320 MPa**) -they are used for frame scaffolds e.g. as additional rails, connections between members of non-standard structures or truss braces.

They are also the primary components of tube and coupler scaffolds (uprights, ledgers or transoms).

TECHNICAL PARAMETERS

MODEL	100	200	300	400	500	600
LENGTH	1000 mm	2000 mm	3000 mm	4000 mm	5000 mm	6000 mm
WEIGHT FOR WALL 2,7 mm	3,1 kg	6,3 kg	9,5 kg	12,7 kg	15,9 kg	19,1 kg
WEIGHT FOR WALL 3,2 mm	3,7 kg	7,4 kg	11,2 kg	14,9 kg	18,6 kg	22,4 kg
GALVANISING	hot dip	hot dip	hot dip	hot dip	hot dip	hot dip
PRODUCT CODE 2.7 mm	T0901.100	T0901.200	T0901.300	T0901.400	T0901.500	T0901.600
PRODUCT CODE 3.2 mm	T0902.100	T0902.200	T0902.300	T0902.400	T0902.500	T0902.600

Stairs

Each scaffold should have circulation shafts and ensure safe traffic and unobstructed access to workstations. This can be achieved by ladders in the deck area or by **stairs** (e.g. if there are high-intensity works in progress).

Aluminium stairs are used for vertical traffic on the scaffold. They can be used in the circulation shaft inside the scaffold and be used for a separate staircase to enter a structural member (e.g. roof of the building). They are made of aluminium alloys. They comprise two lateral profiles terminating with landings, with top and bottom beam with hooks for mounting on the starting beam and scaffold frame.

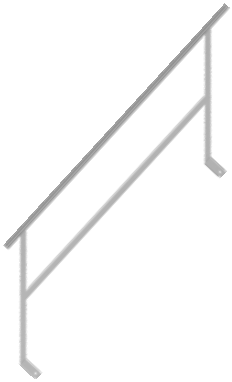
Nine steps (20 mm in depth and 200 mm in height) have special anti-slip pattern. The steps are typically made for bay heights of 2.0 m. The system is complemented by the so-called starting stairs which enable circulation up to 1 m. To ensure safe circulation, the stairs should be complemented by external and internal railing.

Steel starting beam is applied on two screw jacks and may be used for the mounting of decks or the bottom stair beam at level 0.

It comprises two tubes connected by a U-profile for deck mounting, 320 mm or 605 mm wide.

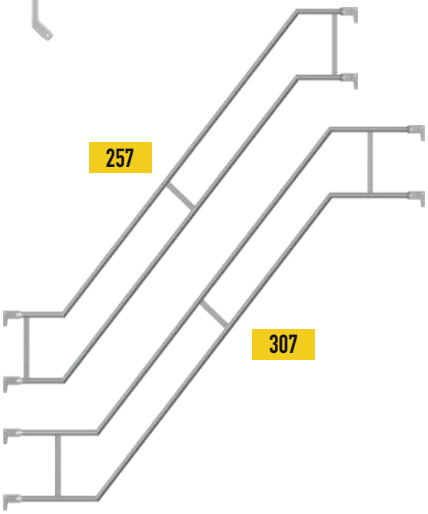
TECHNICAL PARAMETERS

MODEL	BP 73	BP 109
SYSTEM WIDTH	732 mm	1088 mm
OVERALL HEIGHT	65 mm	65 mm
OVERALL WIDTH	780 mm	1136 mm
WEIGHT	2,8 kg	4,1 kg
GALVANISING	hot dip	hot dip
PART NUMBER	T2603.073	T2603.109



Aluminium internal rails of the stairs are used to ensure safe circulation on the stairs on the inside of the scaffold staircase.

They comprise two uprights terminating with clamps for mounting to the stair flight and two parallel tubes being the top rail and the bottom rail. They constitute an all-purpose solution that can be used for system bay lengths of both 3072 mm and 2572 mm and storey height of 2.0 m.



Aluminium external rails of the stairs are used to ensure safe circulation on the stairs on the outside of the scaffold staircase.

They comprise two parallel tubes matching the shape of the stairs and landings, flattened on the ends where there have plates welded, which are inserted in pockets with wedges on the frame.s The main rail and the bottom rail are connected by vertical posts.

TECHNICAL PARAMETERS

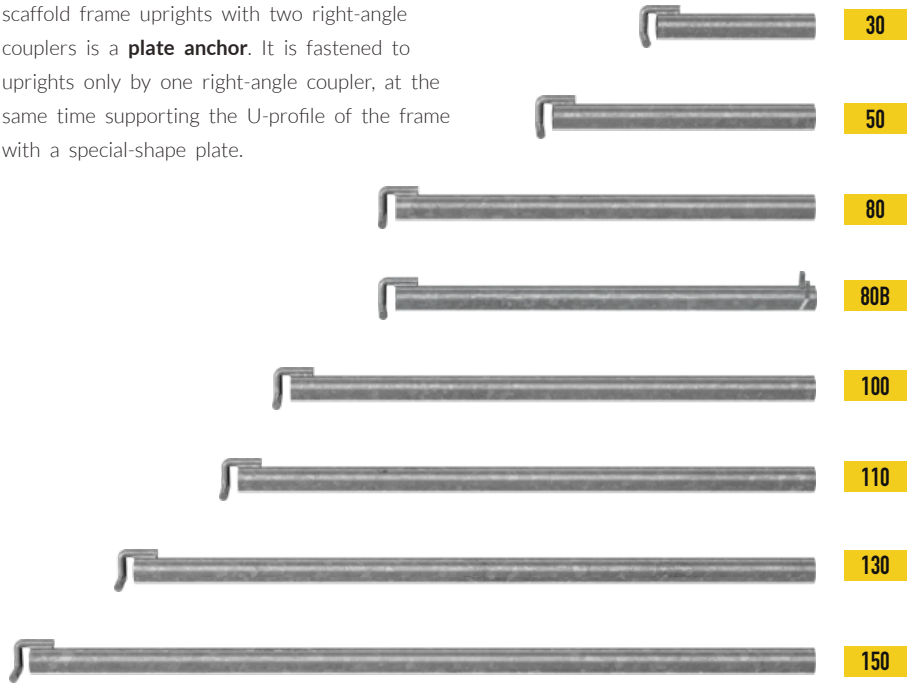
MODEL	100	257	307	INT.	257 EXT.	307 EXT.
SYSTEM LENGTH	1000 mm	2572 mm	3072 mm	2572/3072 mm	2572 mm	3072 mm
SYSTEM HEIGHT	1000 mm	2000 mm	2000 mm	2000 mm	2000 mm	2000 mm
OVERALL LENGTH	1650 mm	3350 mm	3750 mm	2820 mm	3630 mm	4000 mm
OVERALL WIDTH	605 mm	605 mm	605 mm	790 mm	980 mm	1400 mm
CLEAR WIDTH	525 mm	525 mm	525 mm	--	--	--
LENGTH OF TOP LANDING	400 mm	400 mm	650 mm	--	--	--
LENGTH OF BOTTOM LANDING	--	350 mm	600 mm	--	--	--
WEIGHT	10,1 kg	19,7 kg	23,5 kg	4,2 kg	5,4 kg	6,2 kg
PART NUMBER	T2600.100	T2601.257	T2601.307	T0600.000	T2602.257	T2602.307

Anchoring

The scaffold is anchored to the structure by anchors - components that connect the scaffold with the anchor (eye bolt) - placed in the building or attached to it.

The anchor comprises a tube with outer diameter of **48.3 mm** (heavy duty **S235** (R_e **> 320 MPa**) and a bent hook in two planes. The end of the hook is placed in the eye of the eyebolt anchored to the ground together with an expansion plug.

An alternative for the anchor fastened to the scaffold frame uprights with two right-angle couplers is a **plate anchor**. It is fastened to uprights only by one right-angle coupler, at the same time supporting the U-profile of the frame with a special-shape plate.

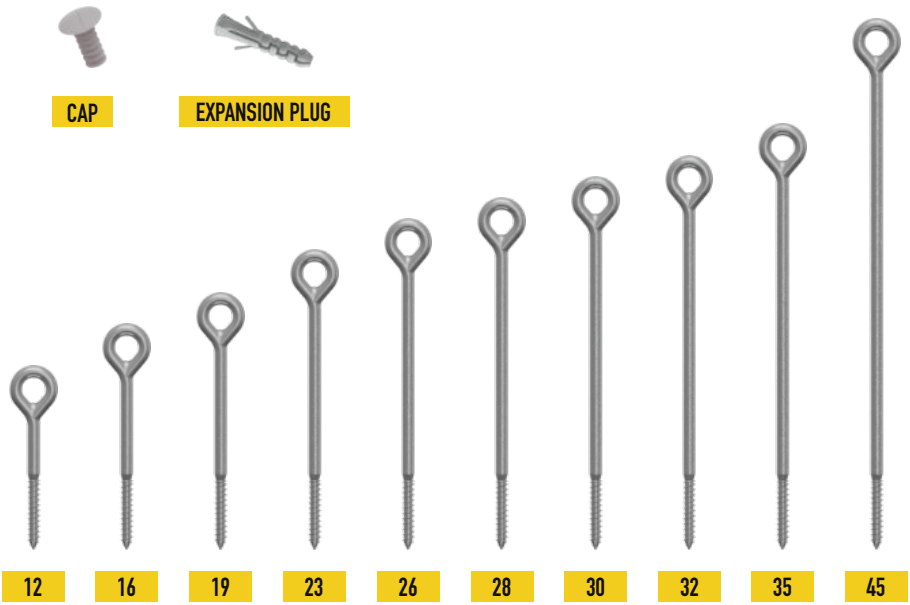


TECHNICAL PARAMETERS

MODEL	30	50	80	80B	100	110	130	150
SYSTEM LENGTH	300 mm	500 mm	800 mm	800 mm	1000 mm	1100 mm	1300 mm	1500 mm
OVERALL LENGTH	330 mm	530 mm	830 mm	830 mm	1030 mm	1130 mm	1330 mm	1530 mm
WEIGHT	1,3 kg	1,9 kg	2,9 kg	3,1 kg	3,5 kg	3,8 kg	4,6 kg	5,3 kg
TUBE DIAMETER	48,3 mm	48,3 mm	48,3 mm	48,3 mm	48,3 mm	48,3 mm	48,3 mm	48,3 mm
GALVANISING	hot dip	hot dip	hot dip	hot dip	hot dip	hot dip	hot dip	hot dip
PART NUMBER	T0700.030	T0700.050	T0700.080	T2700.080	T0700.100	T0700.110	T0700.130	T0700.150

The eye bolt is made in class 4.8 and has outer diameter of 12 mm and thread over 70 mm. At one end, there is a welded eye whose outer diameter is 23 mm. It is used as a set with an expansion plug whose outer diameter is 14 mm and length is 70 mm.

Flanged caps can be used to plug holes for the mounting of eye bolts (plug /flange diameter of 14 mm / 28 mm).



TECHNICAL PARAMETERS

MODEL	12	16	19	23	26	28	30	32	35	45
TOTAL LENGTH	170 mm	210 mm	240 mm	280 mm	310 mm	330 mm	350 mm	370 mm	400 mm	500 mm
PIN LENGTH	120 mm	160 mm	190 mm	230 mm	260 mm	280 mm	300 mm	320 mm	350 mm	450 mm
THREAD LENGTH	70 mm	70 mm	70 mm	70 mm	70 mm	70 mm	70 mm	70 mm	70 mm	70 mm
THREAD DIAMETER	12 mm	12 mm	12 mm	12 mm	12 mm	12 mm	12 mm	12 mm	12 mm	12 mm
EYE INNER DIAMETER	23 mm	23 mm	23 mm	23 mm	23 mm	23 mm	23 mm	23 mm	23 mm	23 mm
QTY IN PACKAGING	100	40	40	35	35	40	50	40	50	30
WEIGHT	0,17 kg	0,21 kg	0,23 kg	0,27 kg	0,29 kg	0,31 kg	0,33 kg	0,34 kg	0,37 kg	0,46 kg
GALVANISING	electro.	electro.	electro.	electro.	electro.	electro.	electro.	electro.	electro.	electro.
PRODUCT CODE	T0701.012	T0701.016	T0701.019	T0701.023	T0701.026	T0701.028	T0701.030	T0701.032	T0701.035	T0701.045

Spare parts

After each scaffold dismantling, all components should be inspected for wear and damage in order to separate worn and damaged components from those fit for further use. Minor repairs or replenishment of certain components by the user's own means is permitted, however the manufacturer offers the option of **comprehensive renewal** of the components at its production site.

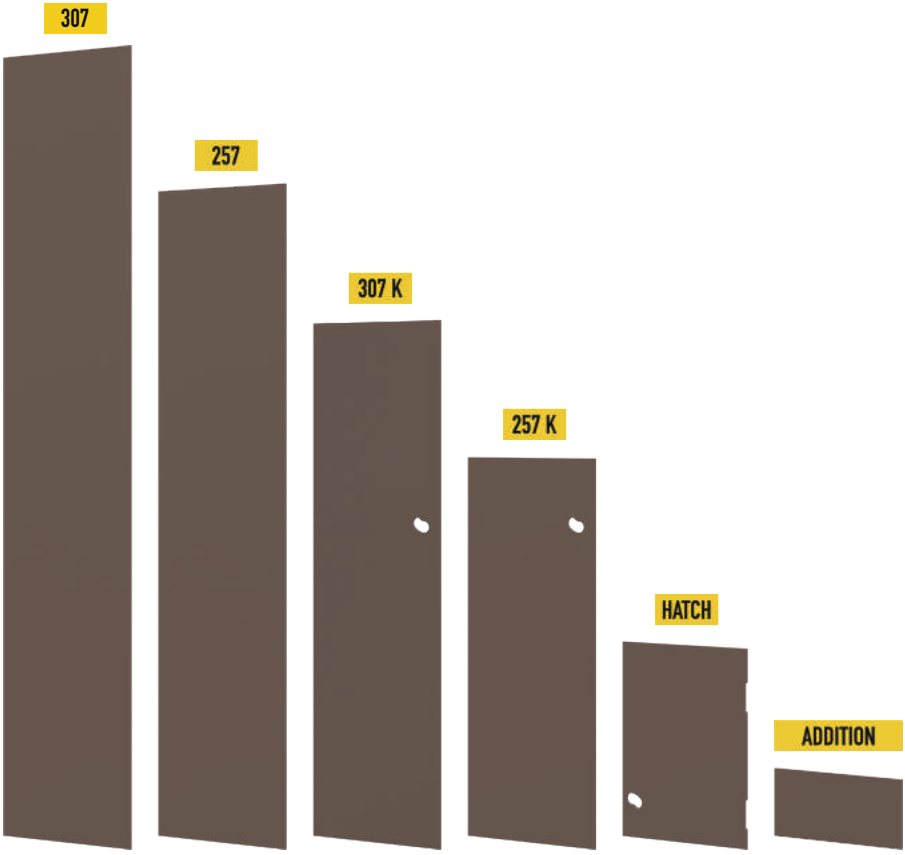
Aluminium ladders are integral parts of circulation decks, which are used in most scaffolds to ensure safe vertical circulation of staff members. If the ladder's rungs or rails are damaged, or there are cracks in the joints between its respective members, it should be replaced with a new item.

Wedge + rivet - wedges protect rails against accidental decoupling. If they are missing or damaged, they should be replenished/replaced, because they greatly affect staff and structural safety. They are used in sets with rivets.

Hatch / ladder lock - locks securing deck hatches and ladders, which also have a significant effect on handling safety and safe scaffold operation. If damaged, they should be absolutely replaced.

Circulation deck hinge - properly operating deck hatches ensure safe vertical transport on scaffolds, but also protect the user in horizontal transport on the respective levels. If the hatch does not work properly, it may result in falls from height. If the hinge is missing or damaged, the deck should be provided with properly working hinges.

Anti-slip plywood with single-side mesh pattern is an important accessory item of aluminium and plywood decks (working and circulation decks) and is subject to natural wear in day-to-day operation. If the aluminium frame is not damaged, replacement of the plywood with a new one enables continued operation of the decks.



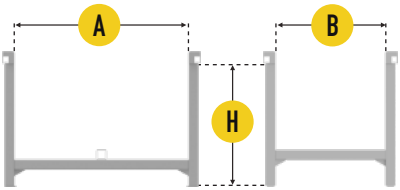
TECHNICAL PARAMETERS

MODEL	307	257	307 K	257 K	HATCH	ADDITION
THICKNESS	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm
WIDTH	555 mm	555 mm	555 mm	555 mm	553 mm	553 mm
LENGTH	2994 mm	2494 mm	1941 mm	1441 mm	829 mm	204 mm
APPLICATION	sheeting of working deck 307	sheeting of working deck 257	sheeting of circulation deck 307	sheeting of circulation deck 257	Hatch of circulation deck	Additional sheeting of circulation deck
PRODUCT CODE	T0807.307	T0807.257	T0810.307	T0810.257	T0809.083	T0808.020

Storage and warehousing pallets

Safe and reasonable transport and storage is a daily challenge for scaffold contractors. **High-stack pallets** can be used to accomplish difficult tasks.

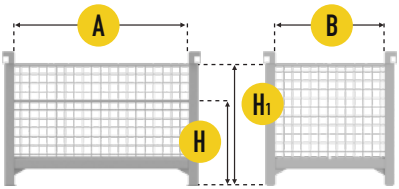
PALM1



Modular pallet is designed for transport and high stacking of e.g. tubes, frames, rails, diagonal braces or toeboards.

It is made of closed, square profiles, has uprights terminating with special pockets to enable safe stacking both in the warehouse and in transport. The structure of the pockets and the base enables the handling of these pallets using an overhead crane, mobile crane or forklift truck.

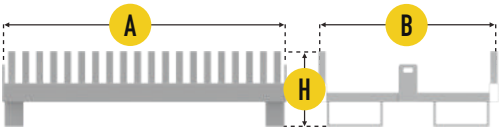
PALS1



Mesh pallet is used for the transport and storage of smaller scaffold components, in particular couplers, but also brackets and end rails.

Its structure is made of closed square profiles and steel mesh and timber bottom. Suitable heights of the head wall of the pallet, which is significantly lower than the other walls, helps take out the components even in the case of high stacking in the warehouse. The structure of the pallet enables safe handling by a forklift truck, mobile crane or overhead crane, as well as stacking.

PALR1

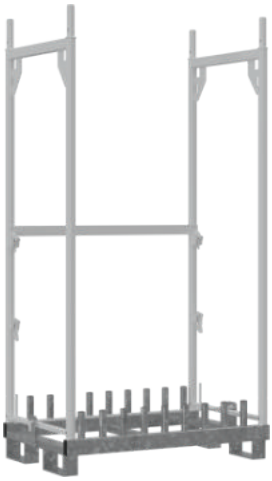


Pallet for frames is used to transport and store frames in upright position (up to 20 units). It is made of closed sections and its structure enables it to be carried by forklift trucks or cranes

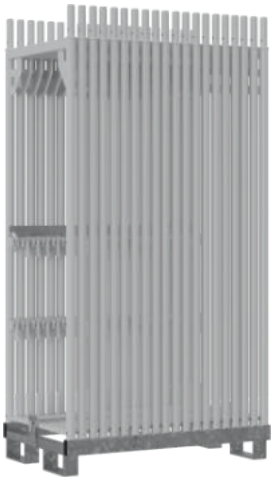
The following come as additions to the pallet:

- **safety pin** protecting the frames against falling off during transport by a crane,

- **locking bolt,** connecting end frames and the pallet, mounted in the pockets for rail mounting.



Frame loading on the pallet with securing them for transport

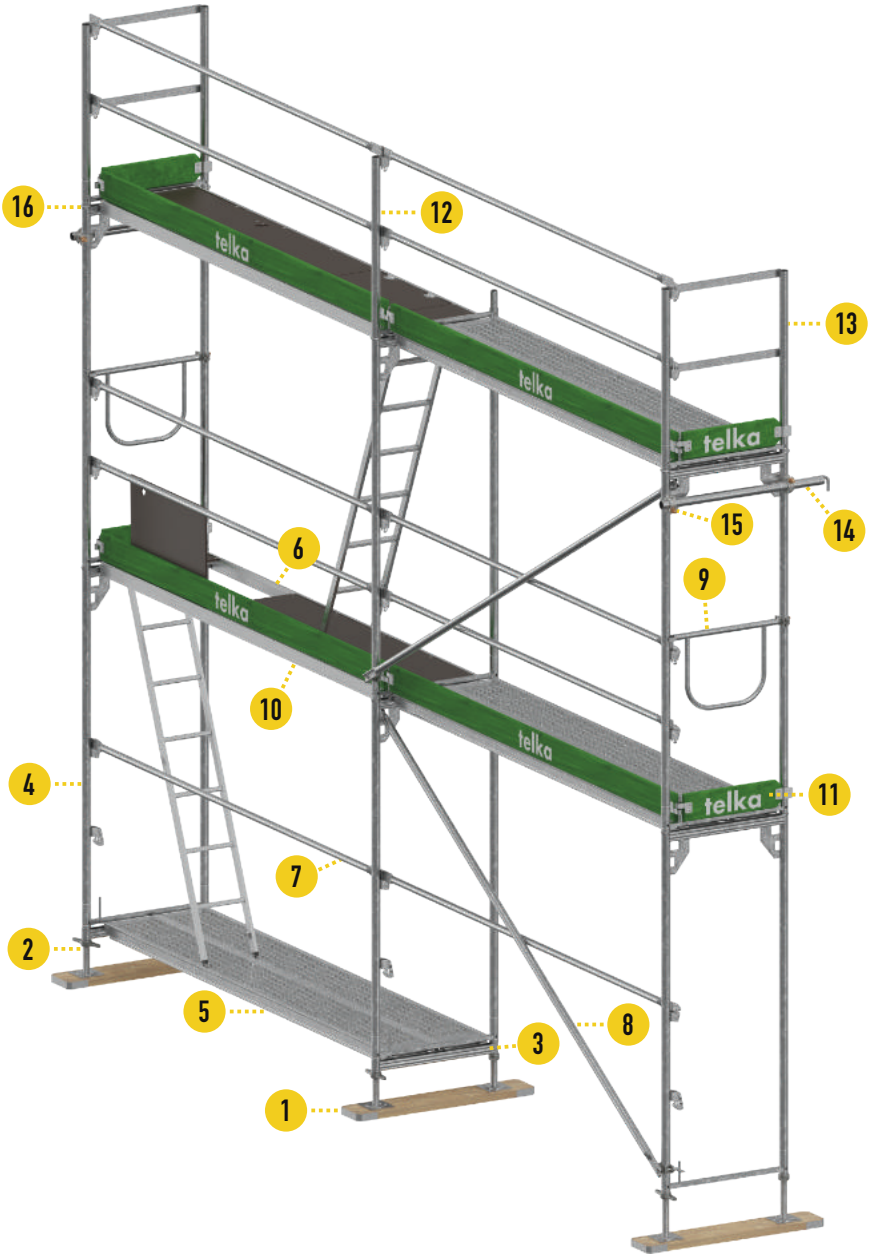


TECHNICAL PARAMETERS

MODEL	PALM1	PALS1	PALR1
WIDTH (A)	1080 mm	1080 mm	1220 mm
DEPTH (B)	680 mm	680 mm	770 mm
HEIGHT (H)	760 mm	760 mm	320 mm
HEIGHT (H_1)	--	533 mm	--
WEIGHT	43,8 kg	70,9 kg	34,7 kg
GALVANISING	hot dip	hot dip	hot dip
PART NUMBER	T0916.000	T0917.000	T2901.000

Set #1

NUMBER	NAME	QTY OF UNITS	BROCHURE PAGE
1	Timber sole plate with flashings	3	10
2	Screw jack 50	6	11
3	Starting beam 73	2	54
4	Steel frame 200 x 73	6	12
5	Steel deck 32 x 307	6	22
6	Aluminium and plywood walk-through deck with a ladder 61 x 307	2	24
7	Steel rail 307	10	30
8	Diagonal bracing with a coupler 307 x 200	2	28
9	Doublee end rail 73	2	34
10	Toeboard 307	4	36
11	End toeboard 73	4	36
12	Steel rail post with deck protection 100 x 73	1	39
13	End frame 73	2	41
14	Anchor 100	2	56
15	Right-angle coupler	2	44
16	Safety pin	6	46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Product list

t FRAME | UNICO 73

	PRODUCT CODE	PRODUCT NAME	QTY
SCAFFOLD FOUNDATION	T0000.110	Timber sole plate	
	T0001.110	Timber sole plate with flashings	
	T0002.040	Screw jack 400	
	T0002.050	Screw jack 500	
	T0002.060	Screw jack 600	
	T0002.080	Screw jack 800	
	T0002.100	Screw jack 1000	
	T0003.040	Screw jack 400 ERGO	
	T0003.050	Screw jack 500 ERGO	
	T0003.060	Screw jack 600 ERGO	
	T0003.080	Screw jack 800 ERGO	
	T0003.100	Screw jack 1000 ERGO	
	T0004.060	Screw jack 600 articulated	
FRAMES	T2100.066	Steel frame 66 x 73	
	T2100.100	Steel frame 100 x 73	
	T2100.150	Steel frame 150 x 73	
	T2100.200	Steel frame 200 x 73	
	T2101.200	Steel frame 200 x 73 | 4P	
	T2102.150	Walkthrough frame 220 x 150	
	T2103.200	Bypass frame 200 x 73	
	T2104.200	Steel frame 200 x 36	
	T2105.066	Aluminium frame 66 x 73	
	T2105.100	Aluminium frame 100 x 73	
	T2105.150	Aluminium frame 150 x 73	
	T2105.200	Aluminium frame 200 x 73	
	T2106.073	Transom 73	
	T2106.106	Transom 109	
	T2107.066	Steel frame 66 x 109	
	T2107.100	Steel frame 100 x 109	
	T2107.150	Steel frame 150 x 109	
	T2107.200	Steel frame 200 x 109	
DECKS	T2200.073	Steel deck ERGO 32 x 73	
	T2200.109	Steel deck ERGO 32 x 109	
	T2200.157	Steel deck ERGO 32 x 157	
	T2200.207	Steel deck ERGO 32 x 207	
	T2200.257	Steel deck ERGO 32 x 257	
	T2200.307	Steel deck ERGO 32 x 307	
	T2201.073	Steel deck STANDARD 32 x 73	
	T2201.109	Steel deck STANDARD 32 x 109	
	T2201.157	Steel deck STANDARD 32 x 157	
	T2201.207	Steel deck STANDARD 32 x 207	
	T2201.257	Steel deck STANDARD 32 x 257	
	T2201.307	Steel deck STANDARD 32 x 307	
	T2202.073	Steel deck HEAVY 32 x 73	
	T2202.109	Steel deck HEAVY 32 x 109	
	T2202.157	Steel deck HEAVY 32 x 157	
	T2202.207	Steel deck HEAVY 32 x 207	
	T2202.257	Steel deck HEAVY 32 x 257	
	T2202.307	Steel deck HEAVY 32 x 307	
	T2203.157	Alu-plywood circulation deck 61 x 157	
	T2203.207	Alu-plywood circulation deck 61 x 207	

	PRODUCT CODE	PRODUCT NAME	QTY
DECKS	T2203.257	Alu-plywood circulation deck 61 x 257	
	T2203.307	Alu-plywood circulation deck 61 x 307	
	T2204.157	Alu-plywood circulation deck HEAVY 61 x 157	
	T2204.207	Alu-plywood circulation deck HEAVY 61 x 207	
	T2204.257	Alu-plywood circulation deck HEAVY 61 x 257	
	T2204.307	Alu-plywood circulation deck HEAVY 61 x 307	
	T2205.157	Alu-plywood deck 61 x 157	
	T2205.207	Alu-plywood deck 61 x 207	
	T2205.257	Alu-plywood deck 61 x 257	
	T2205.307	Alu-plywood deck 61 x 307	
	T2206.157	Alu-plywood deck HEAVY 61 x 157	
	T2206.207	Alu-plywood deck HEAVY 61 x 207	
	T2206.257	Alu-plywood deck HEAVY 61 x 257	
	T2206.307	Alu-plywood deck HEAVY 61 x 307	
	T2207.257	Alu circulation deck 61 x 257	
	T2207.307	Alu circulation deck 61 x 307	
	T2208.257	Alu circulation deck HEAVY 61 x 257	
	T2208.307	Alu circulation deck HEAVY 61 x 307	
	T2209.257	Alu deck 61 x 257	
	T2209.307	Alu deck 61 x 307	
	T2210.257	Alu deck HEAVY 61 x 257	
	T2210.307	Alu deck HEAVY 61 x 307	
BRACING	T2300.207	Diagonal bracing 207 x 200 with a screw half-coupler	
	T2300.257	Diagonal bracing 257 x 200 with a screw half-coupler	
	T2300.307	Diagonal bracing 307 x 200 with a screw half-coupler	
	T2301.207	Diagonal bracing 207 x 200 with a wedge half-coupler	
	T2301.257	Diagonal bracing 257 x 200 with a wedge half-coupler	
	T2301.307	Diagonal bracing 307 x 200 with a wedge half-coupler	
	T2302.157	Diagonal bracing 157 x 200 with a screw half-couplers	
	T2303.157	Diagonal bracing 157 x 200 with a wedge half-couplers	
	T2304.073	Transverse bracing 73 x 200	
	T2304.109	Transverse bracing 109 x 200	
PROTECTION	T2400.073	Steel rail 73	
	T2400.109	Steel rail 109	
	T2400.157	Steel rail 157	
	T2400.207	Steel rail 207	
	T2400.257	Steel rail 257	
	T2400.307	Steel rail 307	
	T2401.073	Single end rail 73	
	T2401.109	Single end rail 109	
	T2402.073	Double end rail 73	
	T2402.109	Double end rail 109	
	T2403.157	Double steel rail 157	
	T2403.207	Double steel rail 207	
	T2403.257	Double steel rail 257	
	T2403.307	Double steel rail 307	
	T2404.157	Aluminium rail double 157	
	T2404.207	Aluminium rail double 207	
	T2404.257	Aluminium rail double 257	
	T2404.307	Aluminium rail double 307	
	T2405.073	End toeboard 73	

Product list

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	PRODUCT CODE	PRODUCT NAME	QTY
PROTECTION	T2405.109	End toeboard 109	
	T2406.073	Toeboard 73	
	T2406.109	Toeboard 109	
	T2406.157	Toeboard 157	
	T2406.207	Toeboard 207	
	T2406.257	Toeboard 257	
	T2406.307	Toeboard 307	
	T2407.100	Steel rail post 100	
	T2407.200	Steel rail post 200	
	T2408.100	Aluminium rail post 100	
	T2408.200	Aluminium rail post 200	
	T2409.100	Steel rail post with protection 100 x 73	
	T2409.200	Steel rail post with protection 200 x 73	
	T2410.100	Aluminium rail post with protection 100 x 73	
	T2410.200	Aluminium rail post with protection 200 x 73	
	T2411.200	All-purpose rail post with protection 200	
	T2412.073	End frame 73	
	T2412.109	End frame 109	
	T2413.073	End frame 73 | 4P	
	T2413.109	End frame 109 | 4P	
	T2414.073	Aluminium end frame 73	
	T2415.100	Steel rail post with protection 100 x 109	
	T2415.200	Steel rail post with protection 200 x 109	
	T2416.036	Safety overlay 36	
	T2416.050	Safety overlay 50	
	T2416.073	Safety overlay 73	
GIRDERS AND BRACKETS	T0500.324	Steel truss girder 324	
	T0500.424	Steel truss girder 424	
	T0500.524	Steel truss girder 524	
	T0500.624	Steel truss girder 624	
	T0502.324	Aluminium truss girder 324	
	T0502.424	Aluminium truss girder 424	
	T0502.524	Aluminium truss girder 524	
	T0502.624	Aluminium truss girder 624	
	T0502.824	Aluminium truss girder 824	
	T0503.041	Girder connector	
	T2500.514	Steel walkthrough truss girder 514	
	T2500.614	Steel walkthrough truss girder 614	
	T2501.073	Walkthrough girder transom	
	T2502.036	Bracket 36 without pin	
	T2503.036	Bracket 36 with pin	
	T2504.050	Bracket 50 with pin	
	T2505.073	Bracket 73 with pin	
	T2506.073	Bracket 73 with two pins	
	T2508.109	Bracket 109 with pin	
STAIRS	T0600.000	Aluminium internal rail for stairs	
	T2600.100	Starting stairs 100	
	T2601.257	Stairs 257	
	T2601.307	Stairs 307	
	T2602.257	Aluminium external rail for stairs 257	
	T2602.307	Aluminium external rail for stairs 307	

	PRODUCT CODE	PRODUCT NAME	QTY
STAIRS	T2603.073	Starting beam 73	
	T2603.109	Starting beam 109	
ANCHORING	T0700.030	Anchor 30	
	T0700.050	Anchor 50	
	T0700.080	Anchor 80	
	T0700.100	Anchor 100	
	T0700.110	Anchor 110	
	T0700.130	Anchor 130	
	T0700.150	Anchor 150	
	T0701.012	Eyebolt 12	
	T0701.016	Eyebolt 16	
	T0701.019	Eyebolt 19	
	T0701.023	Eyebolt 23	
	T0701.026	Eyebolt 26	
	T0701.028	Eyebolt 28	
	T0701.030	Eyebolt 30	
	T0701.032	Eyebolt 32	
	T0701.035	Eyebolt 35	
	T0701.045	Eyebolt 45	
	T0702.014	Cap 14/28	
	T0703.014	Expansion plug 14/70	
	T2700.080	Anchor 80 with plate	
SPARES	T0803.000	Hatch/ladder lock	
	T0804.000	Circulation deck hinge	
	T0807.257	Plywood 10 x 555 x 2494	
	T0807.307	Plywood 10 x 555 x 2994	
	T0808.020	Plywood 10 x 553 x 204	
	T0809.083	Plywood 10 x 546 x 829	
	T0810.257	Plywood 10 x 555 x 1441	
	T0810.307	Plywood 10 x 555 x 1941	
	T2800.000	Wedge	
	T2801.000	Rivet	
ACCESSORIES	T0900.200	Steel ladder with hooks	
	T0901.100	Steel pipe diameter 48,3 x 2,7 x 1000 galvanised	
	T0901.200	Steel pipe diameter 48,3 x 2,7 x 2000 galvanised	
	T0901.300	Steel pipe diameter 48,3 x 2,7 x 3000 galvanised	
	T0901.400	Steel pipe diameter 48,3 x 2,7 x 4000 galvanised	
	T0901.500	Steel pipe diameter 48,3 x 2,7 x 5000 galvanised	
	T0901.600	Steel pipe diameter 48,3 x 2,7 x 6000 galvanised	
	T0902.100	Steel pipe diameter 48,3 x 3,2 x 1000 galvanised	
	T0902.200	Steel pipe diameter 48,3 x 3,2 x 2000 galvanised	
	T0902.300	Steel pipe diameter 48,3 x 3,2 x 3000 galvanised	
	T0902.400	Steel pipe diameter 48,3 x 3,2 x 4000 galvanised	
	T0902.500	Steel pipe diameter 48,3 x 3,2 x 5000 galvanised	
	T0902.600	Steel pipe diameter 48,3 x 3,2 x 6000 galvanised	
	T0903.000	Right-angle coupler	
	T0903.001	Right-angle coupler HEAVY	
	T0904.000	Swivel coupler	
	T0904.001	Swivel coupler HEAVY	
	T0905.000	Parallel coupler	
	T0906.000	Toeboard coupler	

Product list tFRAME | UNICO 73

	PRODUCT CODE	PRODUCT NAME	QTY
ACCESSORIES	T0907.113	Parallel coupler 113	
	T0907.160	Parallel coupler 160	
	T0909.000	Centring pin	
	T0910.000	T-head bolt with a hex nut	
	T0911.000	Safety pin	
	T0912.000	Clamp coupler	
	T0913.000	Ratchet spanner	
	T0914.251	Anti-dust safety net 250/1000	
	T0914.252	Anti-dust safety net 250/2000	
	T0914.301	Anti-dust safety net 300/1000	
	T0914.302	Anti-dust safety net 300/2000	
	T0915.004	Roofer protection net 4,5 x 4,5	
	T0915.008	Roofer protection net 8 x 8	
	T0915.010	Roofer protection net 10 x 10	
	T0916.000	Modular pallet	
	T0917.000	Mesh pallet	
	T2900.000	Rail coupler	
	T2901.000	Pallet for frames	

Certificates

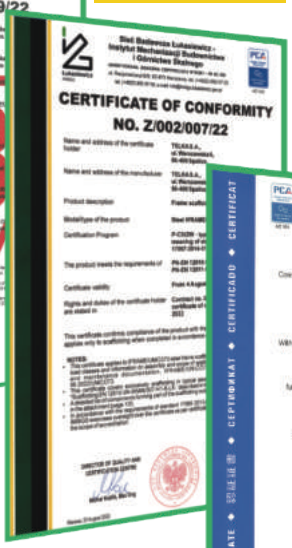
Our products comply with the latest safety standards, as confirmed by certificates awarded to us:

- safety certificate **K/0812-72/1/12**
- certificate of conformity **PN-EN 12810-1:2010**, **PN-EN 12811-1:2007**
- compliance of the Site Production Control as per **EN 1090-2**,
- compliance with quality requirements for welding as per **PN-EN ISO 3834-2**,
- Welding Procedure Qualification Record (WPQR) as per **EN ISO 15613** and **EN ISO 15614-1**.

K/0812-72/1/12

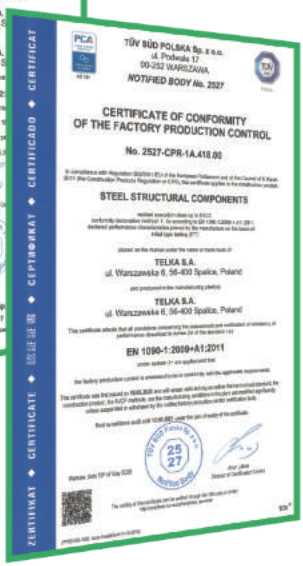
PN-EN 12810-1:2010

PN-EN 12811-1:2007



PN-EN ISO 3834-2:2007

EN 1090-1:2009+A1:2011



Notes

Notes

Map with directions

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