

# PASCHAL TG 60

PRODUCT INFORMATION





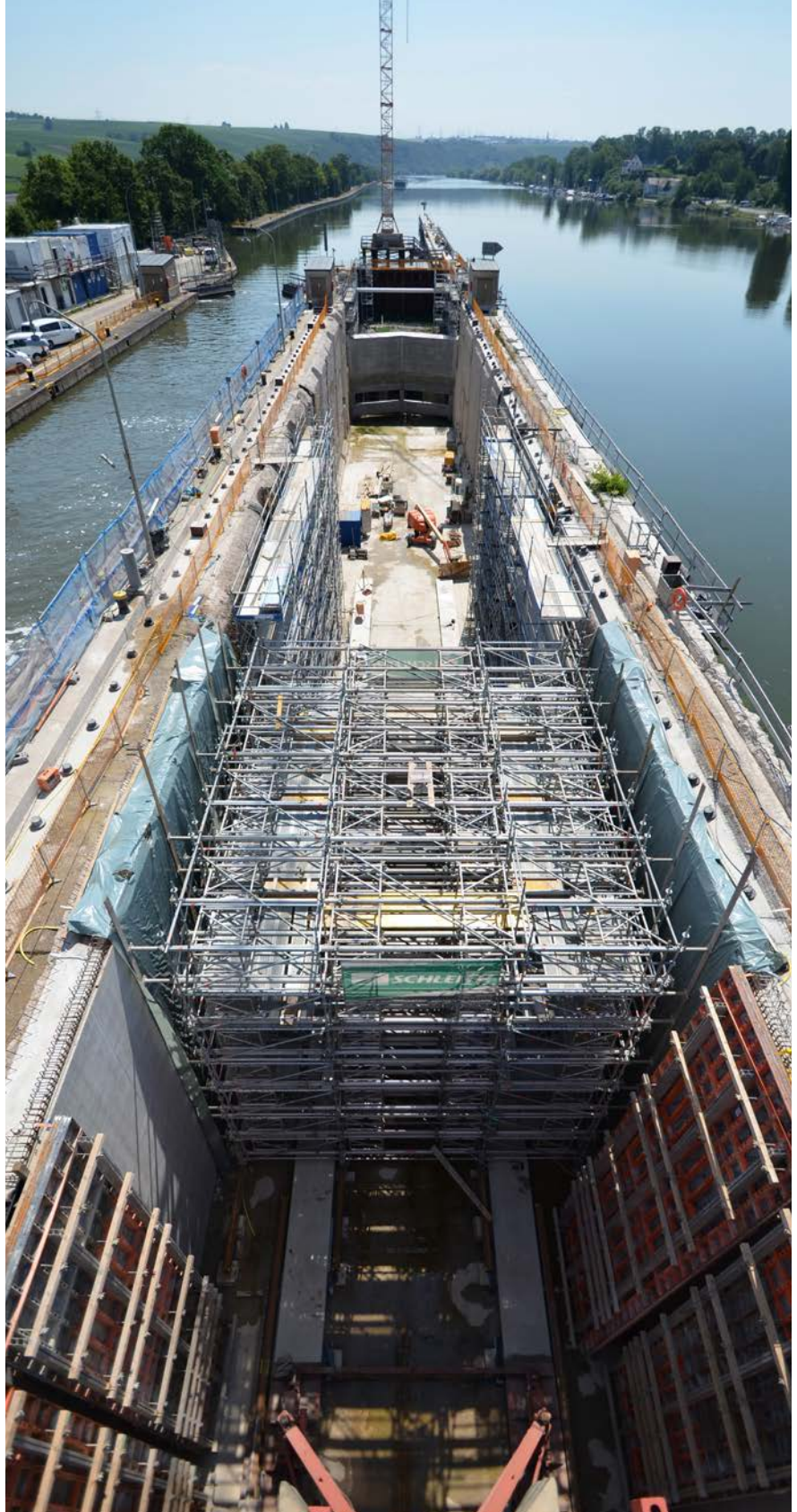
# PASCHAL TG 60

Safe, fast and universal

PASCHAL TG 60 shoring ensures simple, quick and safe construction of shoring towers. The shoring towers meet practically all of the requirements construction sites place on shoring towers – for building construction, civil engineering and bridge construction alike.

The core elements of the PASCHAL TG 60 are the TG 60 shoring frames with integrated punched disks. These are made of steel scaffold tubes with higher strength and are stiffened with two small diagonal braces.

Sophisticated structure sequences and the screwless connection technology simplify handling, from logistics to ergonomic assembly and disassembly.



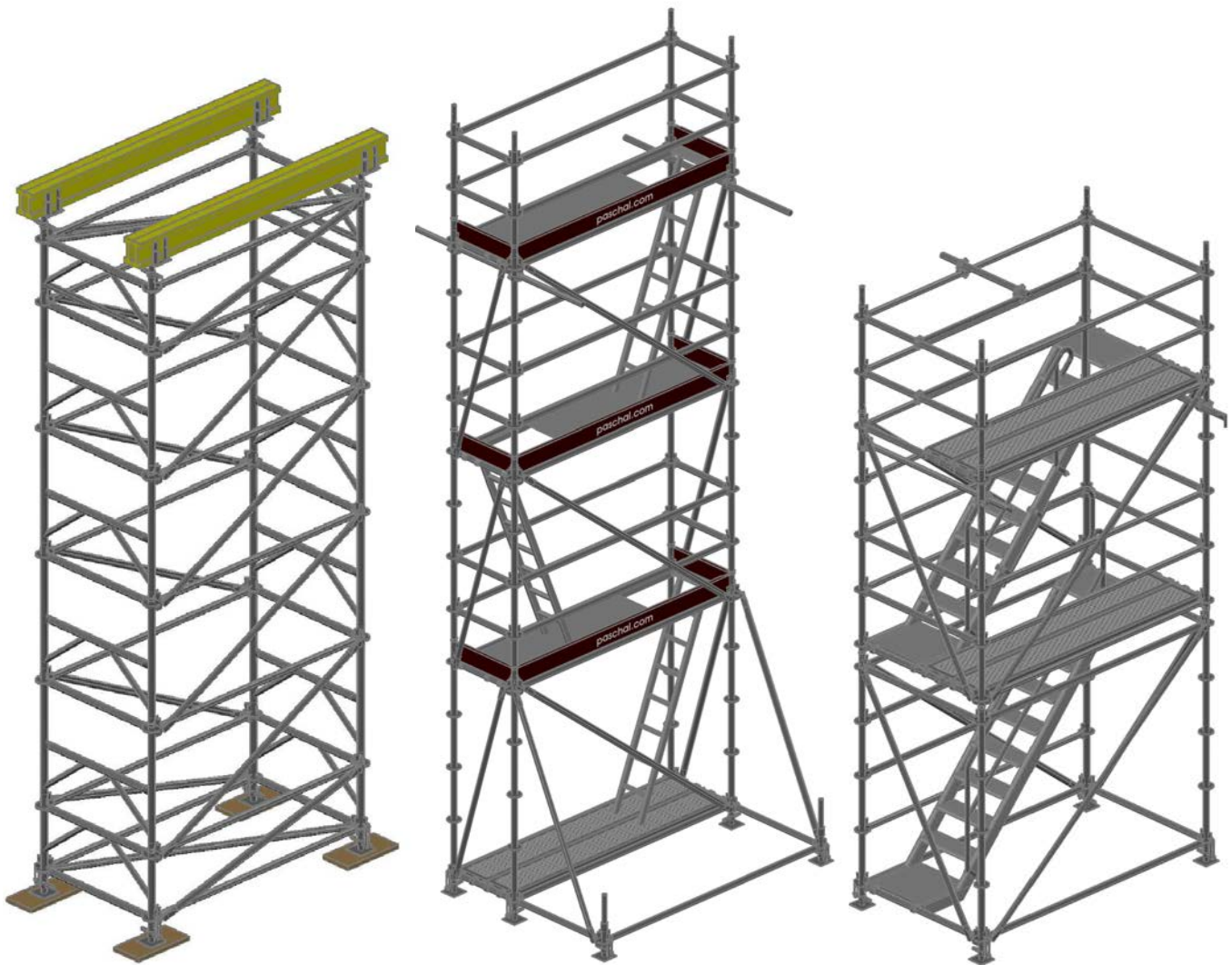
# PASCHAL TG 60

Use as shoring, reinforcement scaffolding and stair towers

PASCHAL TG 60 system components can be used to systematically build not only shoring constructions, but also stair towers and reinforcement scaffolding. The permissible leg load for shoring is up to 60 kN and a type test according to DIN EN 12812:2008-12 is available.

All parts have a low individual weight and integrated ladders enable safe assembly and disassembly. The pre-assembled towers can be moved by crane or with the quick-to-install castors.

PASCHAL TG 60 adapts to any geometry and all structural requirements.



Shoring

Reinforcement scaffolding

Stair tower



# Shoring – flat components

Adapts to any geometry



The modular principle of the PASCHAL TG 60 shoring system enables adaptation to any building geometry and to different formwork or support heights. All towers can be adjusted longitudinally using diagonal braces and bars in five modular formworks – the width always remains the same with the TG 60 frames.

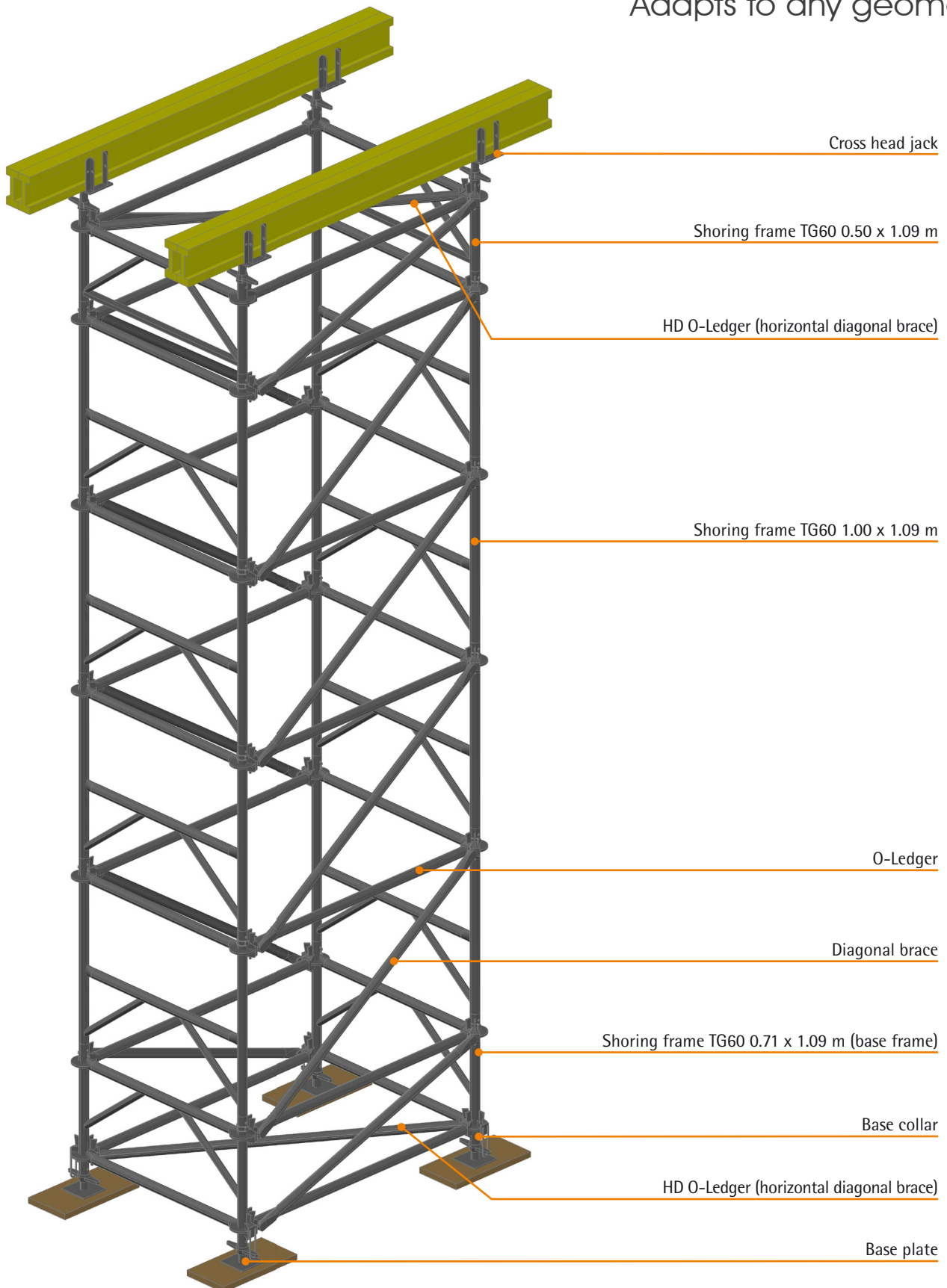
Different heights are easily achieved with a repeated extension of segments of the same system parts over and over again.



*Flood control reservoir, D-Querfurt; Umwelttechnik und Wasserbau GmbH, D-Blankenburg*

# Shoring

Adapts to any geometry





# Shoring – linear components

Any length and height is possible



Linear components such as beams only require the shoring on one axis. The size and spacing of the individual towers are planned according to the load.





# Special projects

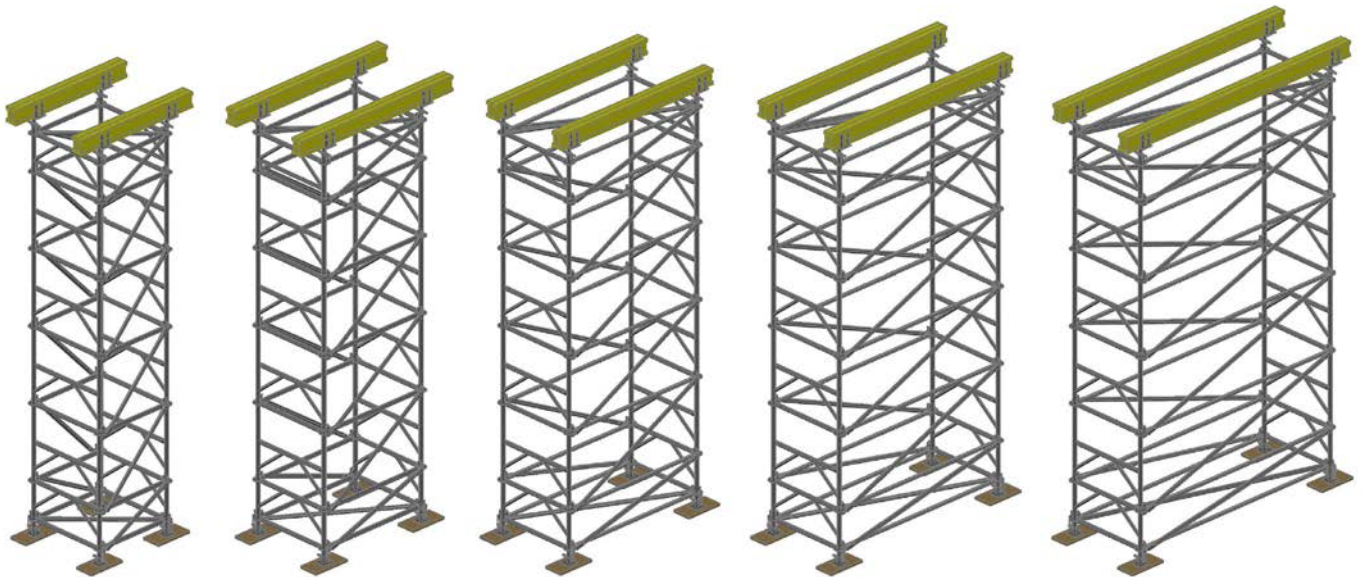
## Inclined surfaces



In the case of sloping ceilings, beams or stairways, the towers used can be combined and adjusted in different heights according to the given inclination.

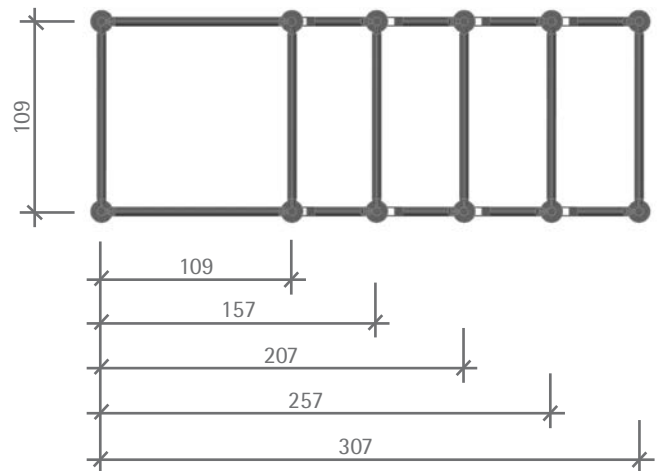
## Adaptable

Thanks to the modular system



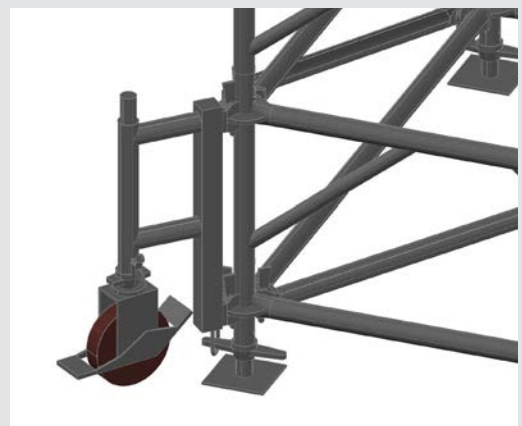
Different component dimensions and changing loads from project to project require the shoring system to be adaptable with just a few different components.

The TG 60 shoring frames on the front sides of the towers therefore always remain the same. In the longitudinal direction, only the bars and the diagonal braces have to be selected for the five specified modular formwork dimensions.



### Quick turnaround

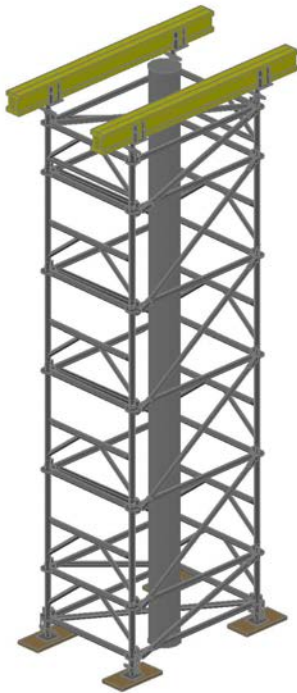
With cyclic formwork, individual towers or tower groups can be completely repositioned without intermediate dismantling and reassembly. Castors are attached to the corners of the tower for this purpose.





# Adaptable

Thanks to the modular system

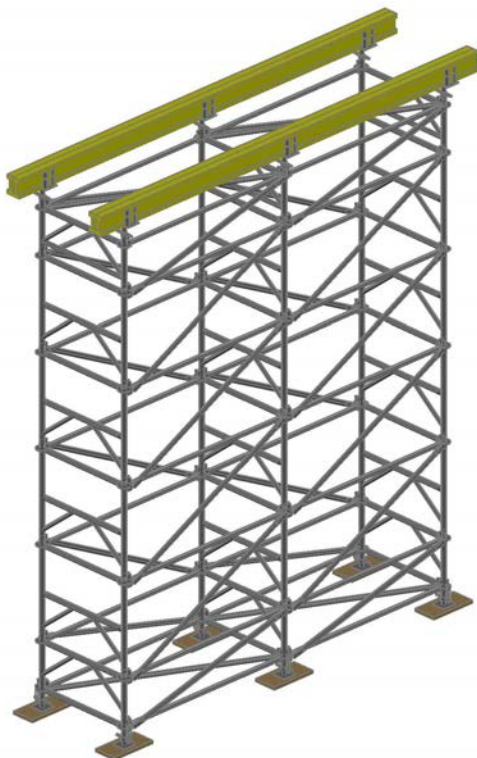
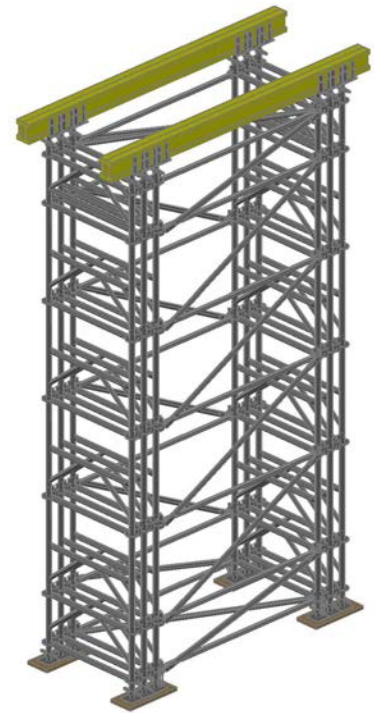


## Components

Reinforced concrete columns that have already been concreted in the project can also stand within a shoring tower. The prop is enclosed with the necessary frames, bars and diagonal braces. The tower can be moved by removing the bolts and diagonal braces on one side and rolling the still-U-shaped tower on castors.

## Heavy loads

In the case of selectively very high loads, several frame levels can be combined at the front to increase the admissible capacity of the system.

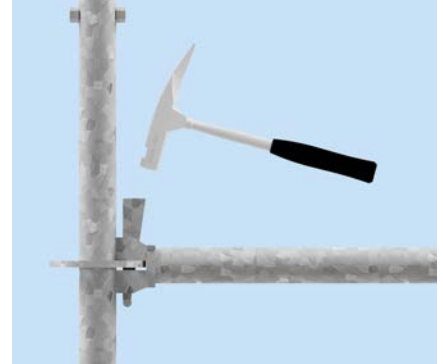
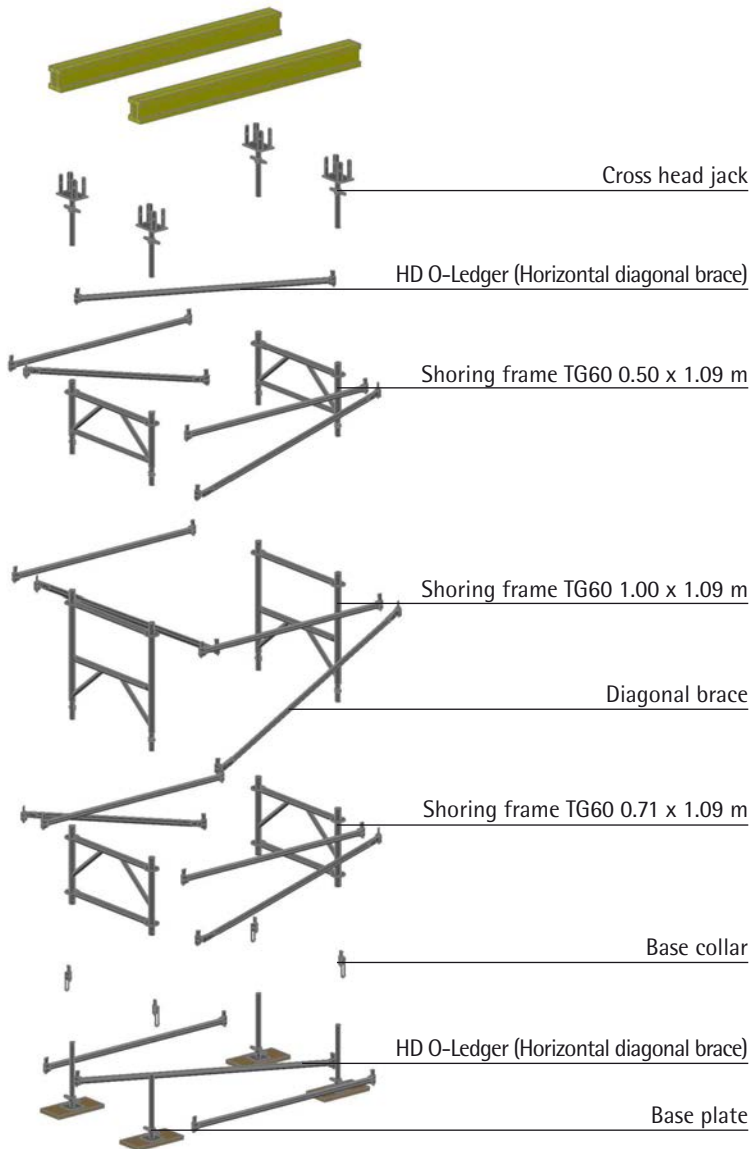


## Multi-leg towers

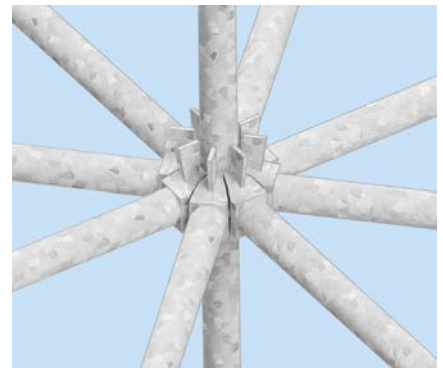
Up to eight connections for frames, bars or diagonal braces can be implemented in the legs' connection nodes. This way, towers with more than four legs can also be combined, if necessary, also with different module lengths.

## Quick

Few individual parts and flexible connection technology



Hitting the wedge with a hammer transforms the form fit into a force fit. The face of the wedge head then lies exactly on the leg.



The result of superior construction. Up to eight connections can be attached on one level at different angles in the statically ideal all-round nodes. Attachment options are provided in a modular framework dimension of 50 cm on all all-round legs. The flat punched disk prevents the clogging with dirt of all kinds.



### The benefits

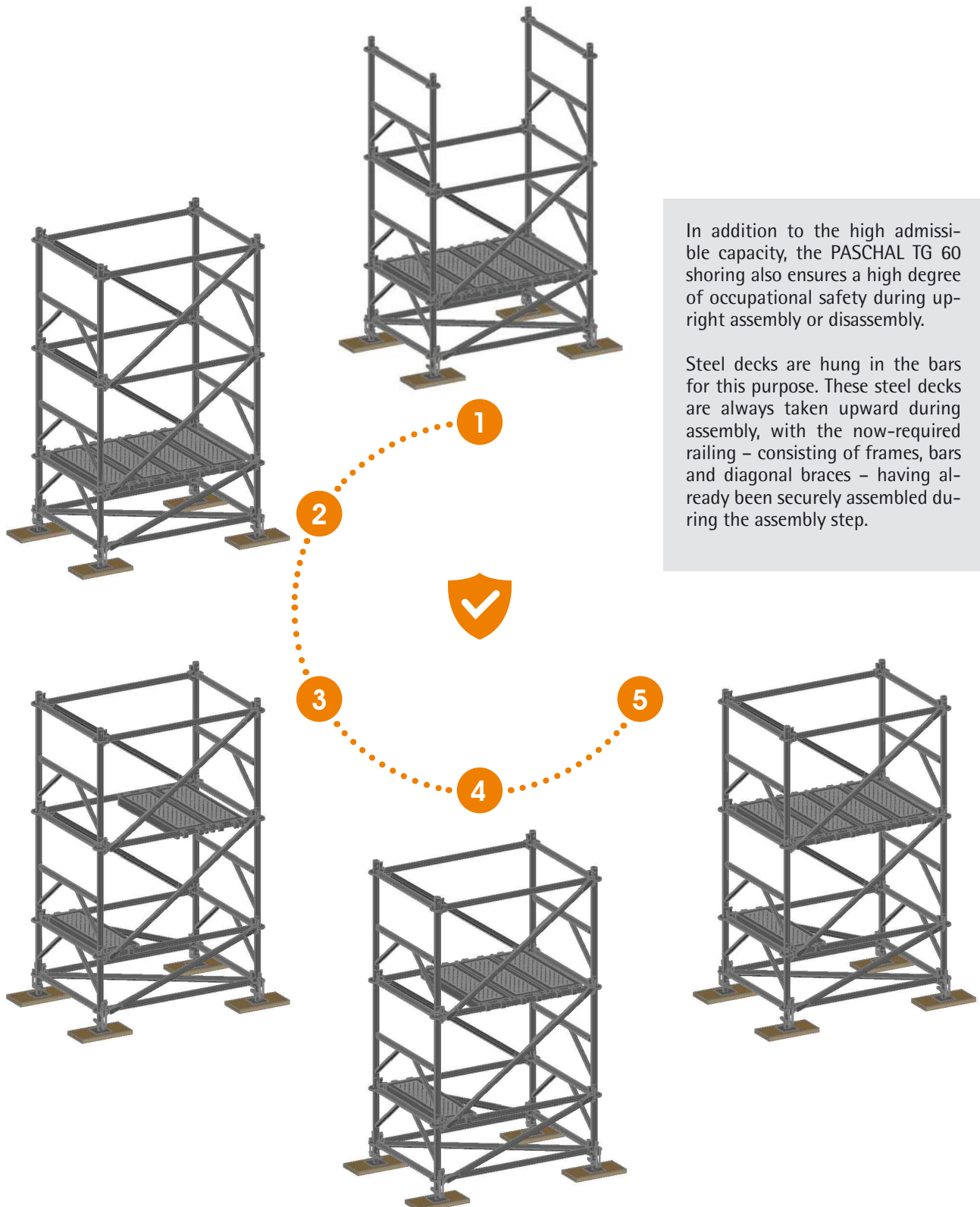
- Save time in assembly and disassembly thanks to screwless connection technology
- Safe and easy one-man assembly
- Parts cannot get lost
- Low use of materials
- Maintenance-free and always operational
- Light weight of individual components
- Fully-fledged parts program
- Impressive economy and flexibility





# Safe assembly and disassembly

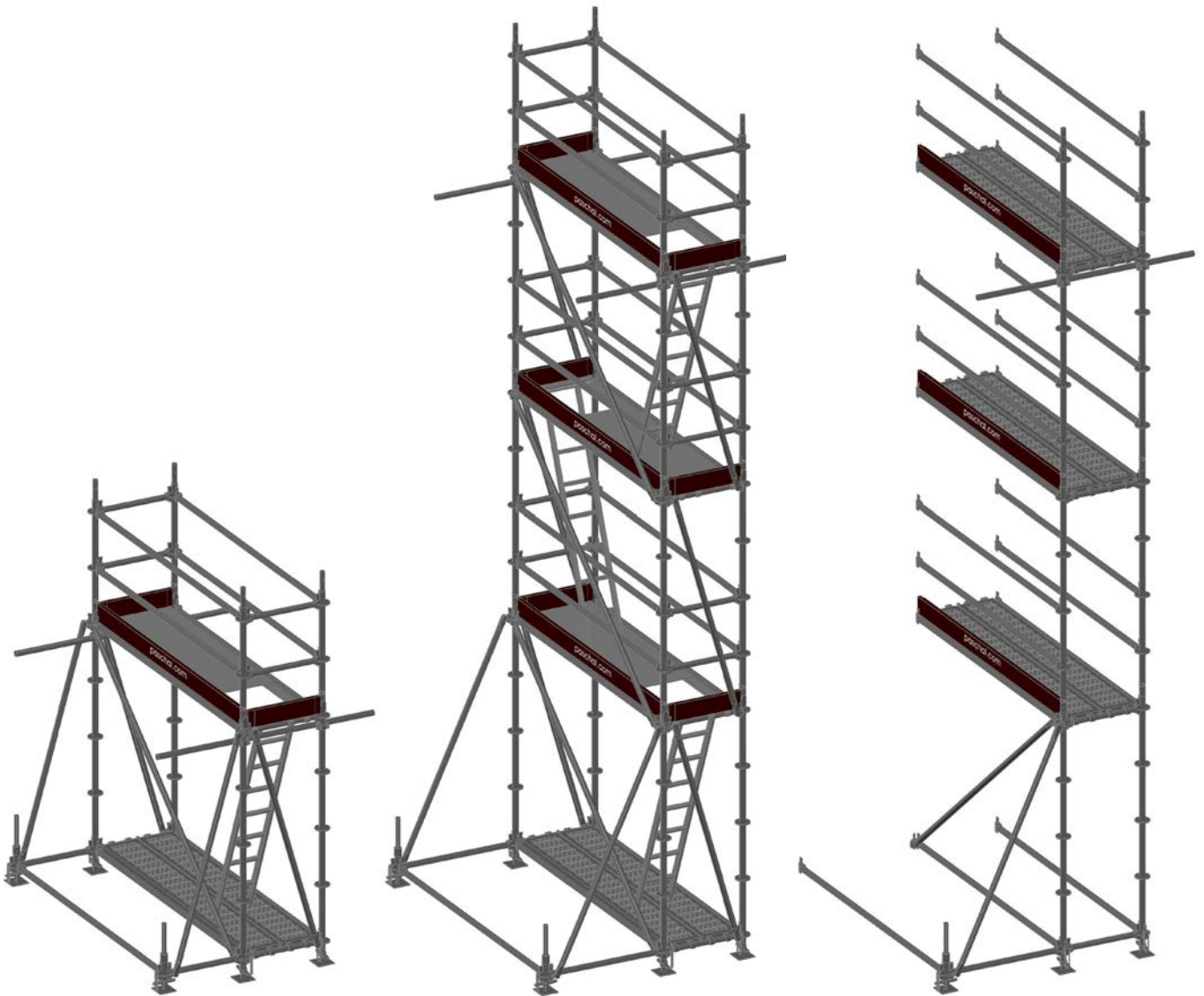
through closed leading railings



# Reinforcement scaffolding

For working on vertical surfaces

The components of the PASCHAL TG 60, additional ladders, and platforms with traps can also be used to systematically construct reinforcement scaffolding. The basic module can be increased in height in several layers. Correspondingly high additional modules allow the construction's geometry to be adjusted in length.



## Basic module 73 cm x 257 cm 1-layer

Cover width: W = 73 cm  
Module length: L = 257 cm  
Standing height: H ~ 2,25 m

## Basic module 73 cm x 257 cm 3-layer

Cover width: W = 73 cm  
Module length: L = 257 cm  
Standing height: H ~ 6,25 m

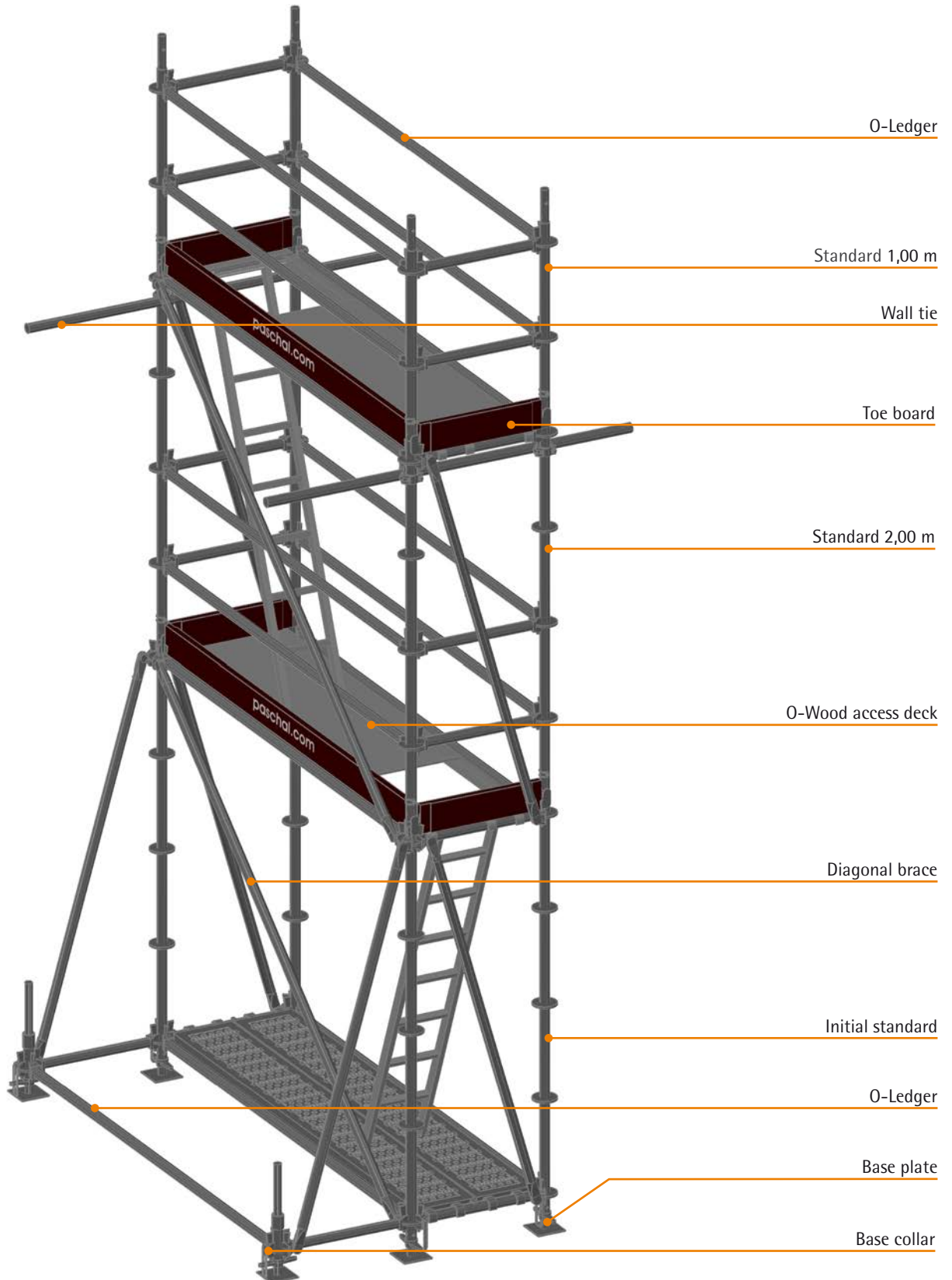
## Additional module 73 cm x 257 cm 3-layer

Cover width: W = 73 cm  
Module length: L = 257 cm  
Standing height: H ~ 6,25 m



# Reinforcement scaffolding

For working on vertical surfaces



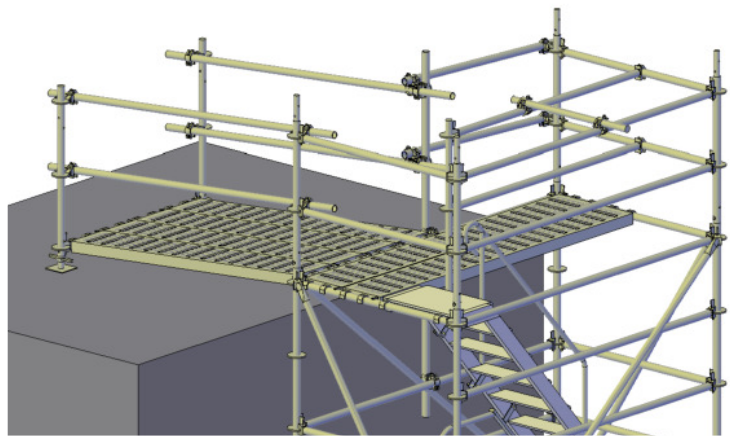
# Stair tower

Safe ascent to all levels

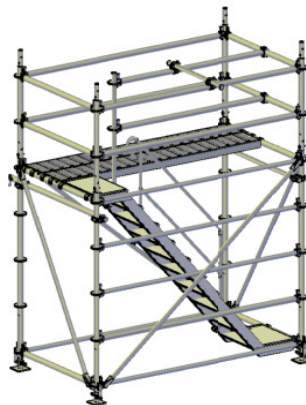


Multi-storey stair towers can also be constructed systematically with the components of the PASCHAL TG 60 and additional stairs and platforms.

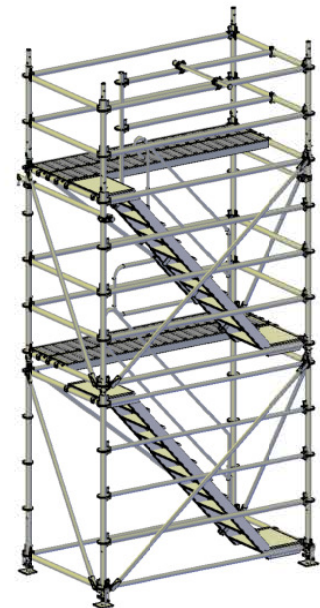
The exit ramp enables safe exit at any level. The tower is constructed modularly, i.e. every stairs module can be preassembled on the ground and then extended using a crane. A multi-layer tower can also be moved with a crane.



**Exit ramp 140 cm wide**  
 (Shown on the stair tower)  
 Length:  $L = 207 \text{ cm}$   
 Height adjustment: up to 100 cm possible



**Stair tower modular 1-layer**  
 Width:  $W = 140 \text{ cm}$   
 Module length:  $L = 257 \text{ cm}$   
 Exit height:  $H = 2,21 - 2,51 \text{ m}$

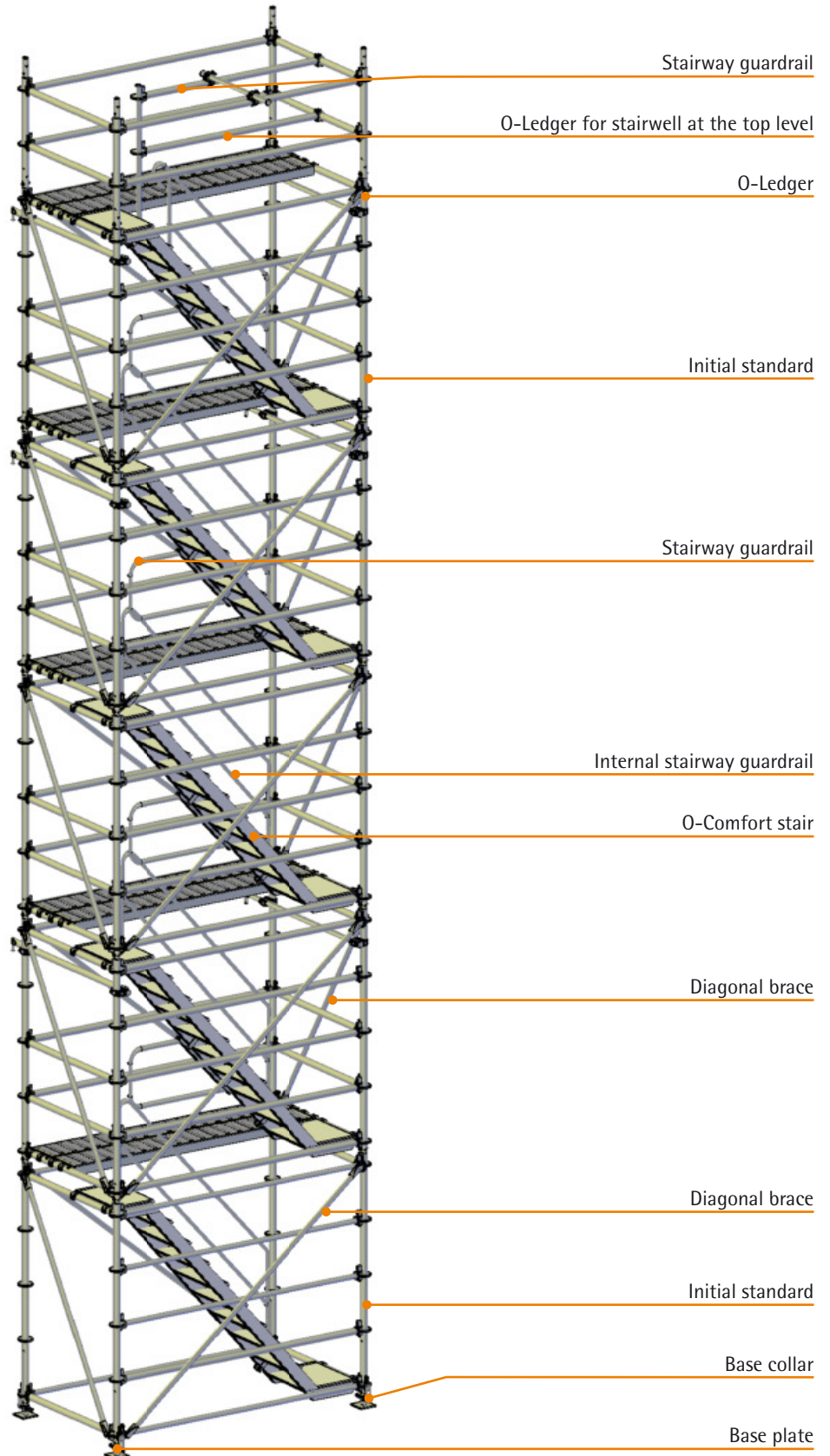


**Stair tower modular 2-layer**  
 Width:  $W = 140 \text{ cm}$   
 Module length:  $L = 257 \text{ cm}$   
 Exit height:  $H = 4,42 - 4,72 \text{ m}$



# Stair tower

Safe ascent to all levels



# Logistics, storage, transport

## Space-saving and safe

Due to the high material requirements usually associated with the use of shoring, special pallets are available for storage, transport and provisioning of the construction site.

The TG 60 pallets are designed to accommodate 22 frames per layer. When full, they can hold a total of 44 standard frames (2 layers) or 88 equalizing frames (4 layers). The frames are arranged in three different intermeshed positions on the pallet. This maximizes the utilization of the storage space available on each pallet. The pallets can be used for all three types of TG 60 shoring frame and can be transported by crane and can be picked up from any side by a fork-lifter. They are optimized for transportation by truck – the width of 1.20 m means that two filled pallets can be placed side-by-side on the truck's loading surface. The units are stored upright on the pallets to prevent any water collecting in the tubes during bad weather.

When empty, a maximum of 18 pallets may be stacked on top of each other. Two full pallets can be stacked on top of another. For storage purposes, a sufficiently stable surface must be assured. The maximum permitted stack inclination of 2 % and the maximum permitted dynamic wind pressure of 0.2 kN/m<sup>2</sup> (corresponds to 64 km/h [40 mph] or wind strength 8) must be respected.

When transporting or storing shoring frames, the frames must be fixed on the pallet using tension straps or steel bands. To secure the items in position on tightening, it is necessary to use a securing profile.



Stacking of filled pallets



Filled pallet (with 22 standard frames)

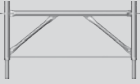
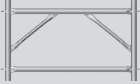
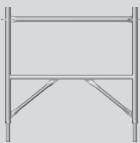
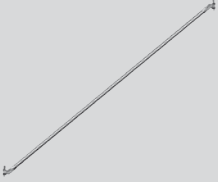













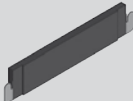

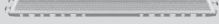
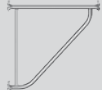


Arrangement on the TG 60 pallets







# Parts list - PASCHAL TG 60

	Art. No.	Item			
	N939.260.2036	Shoring frame TG60 0.50 x 1.09 m (0.50 m spacer frame)		N939.260.2034	Shoring frame 0.71 x 1.09 m (base frame)
	N939.260.2035	Shoring frame TG60 1.00 x 1.09 m (1.00 m standard frame)			
	N939.268.0109 N939.268.0157 N939.268.0207 N939.268.0257 N939.268.1109 N939.268.1157 N939.268.1207 N939.268.1257 N939.268.3073 N939.268.3109 N939.268.3140 N939.268.3157 N939.268.3207 N939.268.3257	Diagonal brace 1.09 x 0.50 m Diagonal brace 1.57 x 0.50 m Diagonal brace 2.07 x 0.50 m Diagonal brace 2.57 x 0.50 m Diagonal brace 1.09 x 1.00 m Diagonal brace 1.57 x 1.00 m Diagonal brace 2.07 x 1.00 m Diagonal brace 2.57 x 1.00 m Diagonal brace 0.73 x 2.00 m Diagonal brace 1.09 x 2.00 m Diagonal brace 1.40 x 2.00 m Diagonal brace 1.57 x 2.00 m Diagonal brace 2.07 x 2.00 m Diagonal brace 2.57 x 2.00 m			
	N939.267.8109 N939.267.8158 N939.267.8209	HD = horizontal diagonal brace HD 1.54 O-Ledger 1.09 x 1.09 m HD 1.91 O-Ledger 1.57 x 1.09 m HD 2.34 O-Ledger 2.07 x 1.09 m			
	N939.531.4045	Head jack 45. solid. max. spindle travel 26 cm GW 16 cm			
	N939.531.5045	Cross head jack 45. solid. max. spindle travel 26 cm GW 8.5/17 cm			
	N939.560.2060	Base plate 60, solid, max. spindle travel 41 cm			
	N939.260.2000	Base collar			
	N939.260.4050 N939.260.4100 N939.260.4116 N939.261.7050 N939.261.7100 N939.261.7150 N939.261.7200	Standard 0.50 m without spigot Standard 1.00 m without spigot Standard 1.17 m with 3 rosette without spigot Standard 0.50 m with pressed-in spigot Standard 1.00 m with pressed-in spigot Standard 1.50 m with pressed-in spigot Standard 2.00 m with pressed-in spigot			
	N939.261.7221	Initial standard 2.21 m with pressed-in spigot		N939.263.5257	O-Comfort stair 2.57 x 2.0 x 0.64 m
	N939.175.2012 N939.175.2007	Internal stairway guardrail 1.50 m T12 SW19 Internal stairway guardrail 2.00 m T12 SW19		N939.175.2004	Stairway guardrail 1.00 x 0.5 m SW19
	N939.263.8400	Stair guardrail post 1.3 m for the stairwell at the top level		N939.263.8401	O-Ledger 1.9 m with wedge-head and U-fork for the stairwell at the top level
	N939.387.2257 N939.387.4257	O-Wood access deck L 2.57 x 0.61 m incl. access ladder T9 O-Alum. access deck L 2.57 x 0.61 m incl. access ladder T9		N939.264.2073 N939.264.2109 N939.264.2140 N939.264.2257	O-Toe board 0.73 m O-Toe board 1.09 m O-Toe board 1.40 m O-Toe board 2.57 m
	N939.260.1025 N939.260.1045 N939.260.1050 N939.260.1073 N939.260.1109 N939.260.1140 N939.260.1157 N939.260.1207 N939.260.1257	O-Ledger 0.25 m O-Ledger 0.40 m O-Ledger 0.50 m O-Ledger 0.73 m O-Ledger 1.09 m O-Ledger 1.40 m O-Ledger 1.57 m O-Ledger 2.07 m O-Ledger 2.57 m		N939.386.2140 N939.386.2109 N939.386.2157 N939.386.2207 N939.386.2257	O-Steel deck 1.40 x 0.32 m O-Steel deck 1.09 x 0.32 m O-Steel deck 1.57 x 0.32 m O-Steel deck 2.07 x 0.32 m O-Steel deck 2.57 x 0.32 m
	N939.263.1109	O-Console bracket 1.09 m			

## Parts list - PASCHAL TG 60

	N939.175.4175	Wall tie 1.75 m
	N939.260.2019	Rosette clampable SW 19 mm
	N939.260.2032	Shoring spigot for base frame 0.71 x 1.09 m
	N939.260.2033	Base support
	N939.260.2040	Castor adaptor
	N939.521.7200	Castor 1200 with half coupler permitted load: 12kN
	N939.262.9019	Wedge head swivel coupler SW19
	N939.473.8019	Reducing swivel coupler d.48 x 33.7 SW19
	N939.490.5667	20pcs. Hinged pin D12
	N652.021.1000	Tube d.48.3 x 3.25 x 1000 EN39 galvanized
	N652.021.2000	Tube d.48.3 x 3.25 x 2000 EN39 galvanized
	N652.021.2500	Tube d.48.3 x 3.25 x 2500 EN39 galvanized
	N652.021.3000	Tube d.48.3 x 3.25 x 3000 EN39 galvanized
	N652.021.4000	Tube d.48.3 x 3.25 x 4000 EN39 galvanized
	N652.021.5000	Tube d.48.3 x 3.25 x 5000 EN39 galvanized
	N652.021.6000	Tube d.48.3 x 3.25 x 6000 EN39 galvanized
	N939.510.5085	Tube pallet 85
	N939.510.5125	Tube pallet 125
	N939.511.3000	Modular lattice box without bottom
	N939.649.4514	Timber base plate for lattice box

	N939.511.3003	Shoring frame pallet TG60
	N939.511.3004	Loading and stacking securing U-profile for frame pallet TG60 with spigots
	N939.511.3005	Loading and stacking securing L-profile for frame pallet TG60 without spigots





