

EKRO SCAFFOLDING SYSTEM

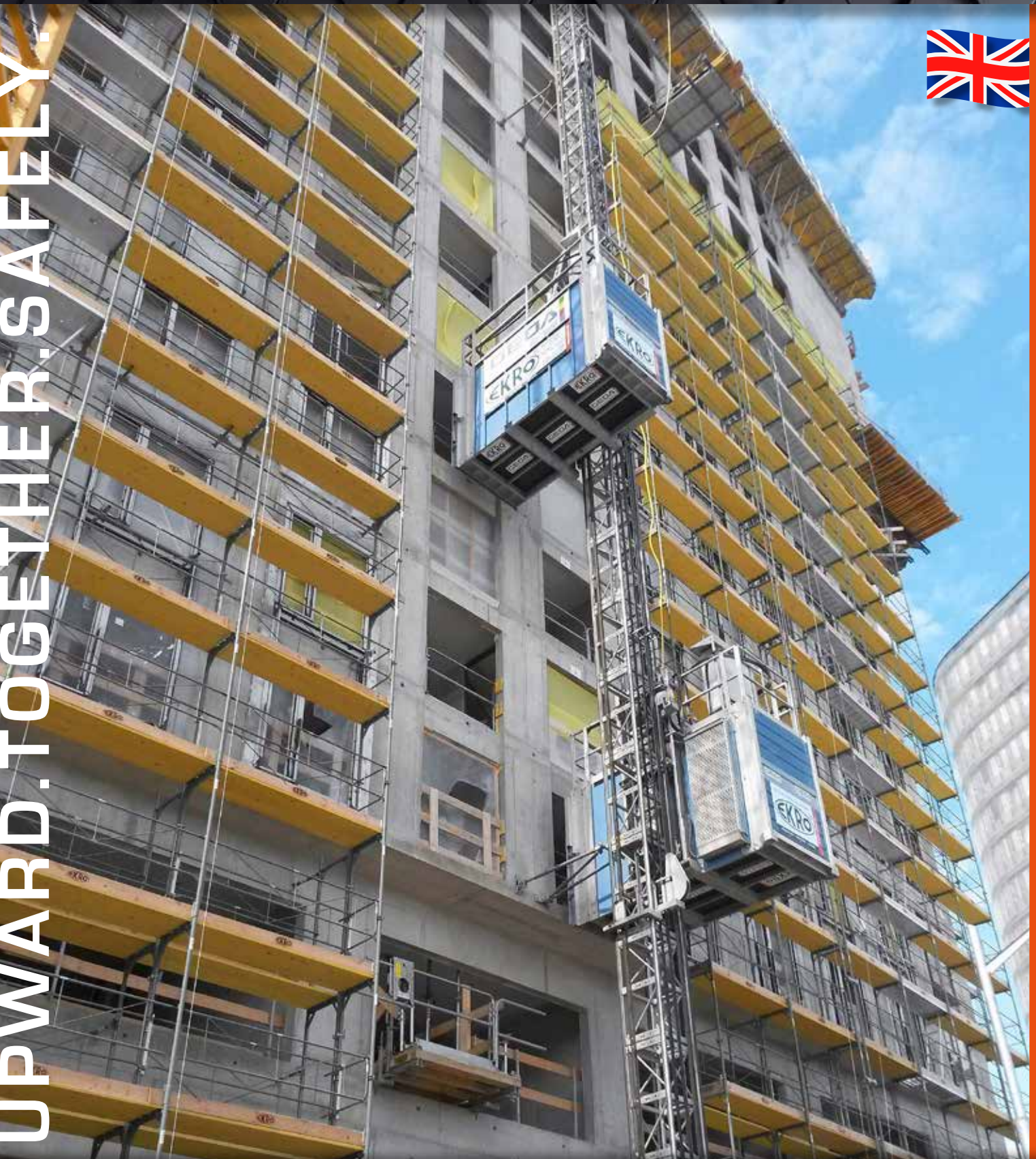
EKRO® ■ Scaffolding – Upward. Together. Safely.



UPWARD. TOGETHER. SAFELY.



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SAFE, HIGH-QUALITY & CUSTOMISED

Having made its home in the heart of the Styrian iron and steel industry region, EKRO is a modern, quality-conscious family enterprise with **70 years of experience** in the manufacture of scaffolding systems and equipment for the construction sector. Around 65 employees at 3 locations work on behalf of our customers.

The success of the **ISO-9001-certified company** is primarily the result of the high level of flexibility and quick response to customer demands.

Production and custom-made products

From the very beginning, the focus at the production plant in Krieglach staffed with skilled local workers has been on **façade scaffolding and construction equipment** developed in-house to make jobs at construction sites easier, faster and safer. Custom constructions for the **construction and event industry** are implemented for individual customer needs.

UPWARD. TOGETHER. SAFELY.

Delivery and collection all across Austria

The in-house plant fleet with our experienced drivers ensures **reliability and expertise**. What's more, our three sites mean that we can offer **extremely quick response and delivery times**.



INTRODUCTION

All definitions and calculations are excerpts from the standards listed, the Construction Worker Protection Ordinance (Bauarbeiterschutzverordnung, BauV), the instructions for set-up and use as well as the static calculations of the EKRO Scaffolding System and its accessories.

ÖNORM B 4007	Scaffolds – General, application, type of construction and loading	Edition 15.12.2015
ÖNORM EN 12810-1	Façade scaffolding made of prefabricated components Part 1: Products specifications	Edition 01.06.2004
ÖNORM EN 12810-2	Façade scaffolding made of prefabricated components Part 2: Particular methods of structural design	Edition 01.06.2004
ÖNORM EN 12811-1	Temporary works equipment Part 1: Scaffolds – Performance requirements and general design	Edition 01.06.2004
ÖNORM EN 12811-2	Temporary works equipment Part 2: Information on materials	Edition 01.06.2004
ÖNORM EN 12811-3	Temporary works equipment Part 3: Load testing	Edition 01.03.2005

GENERAL TERMS

SCAFFOLD

Support structure usually consisting of individual parts for multiple use. Its purpose is to produce fixed-place supports for temporary storage of loads, for supporting components, etc. Once the work is done, it is disassembled again.

Below are several different types of scaffolding:

■ Operating scaffold

Temporary structure to provide a safe workplace for erecting, maintaining, repairing and demolishing buildings and other structures and also the access required for this purpose.

■ Protective scaffold

Scaffolding that protects against a fall from a greater height or from falling building materials, tools or other objects.

■ Fall protection scaffold

Scaffolding to secure personnel against falling from a greater height on surfaces with a slant of up to 20°.

■ Roof edge protection scaffold and roof protection screen

Scaffolding and protective device to secure personnel, materials and devices against falling from a greater height on surfaces with a slant exceeding 20°.

■ Protective roof

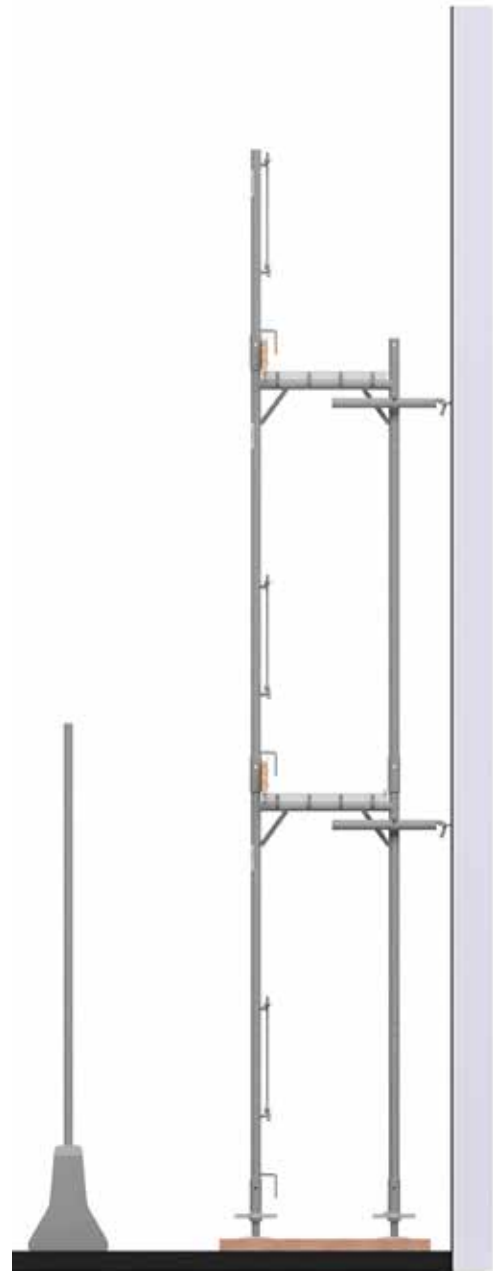
Scaffolding that protects people and property falling construction material, tools and other objects.

■ Passage scaffold

Scaffolding that protects people and property on traffic areas from falling construction material, tools and other objects.

GENERAL INFORMATION ABOUT SET-UP, REMOVAL AND MODIFICATION OF SCAFFOLDS

- These tasks must be carried out by suitable workers, who have received instruction and are under the supervision of individuals familiar with the work. Any workers not participating in the scaffolding jobs must remain outside the hazard area.
- When setting up scaffolding, all scaffolding components must be inspected for obvious faults by a qualified individual. Scaffolding parts with obvious faults must not be used.
- Scaffolding components made of metal must not have any faults that might impair their sturdiness. They must have adequate corrosion protection.
- Scaffold decking must be checked for perfect condition before use.
- Scaffolding must not be set up incompletely or partially removed and left this way.
- When removing scaffolding, scaffolding materials, tools and other objects must only be let down on a rope in a safe manner.
- For installation and removal of scaffolding components and in good weather, individuals who have been instructed and are experienced and physically fit may walk on a scaffold level that is at least 40 cm wide, even if measures in line with Section 7 "Fall hazard" of the Construction Worker Protection Ordinance have not been taken. Nevertheless, it is advisable to use a mounting forward railing or personal protective equipment to protect against fall to increase occupational safety.
- Scaffolding that is set up at or on traffic areas must be clearly and easily seen by drivers and passengers and be identified by a warning light in the dark or conditions of poor visibility. Measures need to be taken to draw attention in front of the scaffolding from an appropriate distance. Collision protection is required at an appropriate distance from the scaffold. Measures set forth by the competent traffic authority that change the above requirements must be obeyed.



Collision protection such as with CITYBLOC®, mobile fencing adapter and mobile fencing

CLASSIFICATION – EKRO SCAFFOLDING SYSTEM

Scaffolding systems must be classified according to ÖNORM EN 12810-1:2003:

Classification of scaffolding systems

Classification criteria	Categories
Live load	2, 3, 4, 5, 6 in line with Table 3 in EN 12811-1:2003
Decking and its supports	(D) measured with or (N) without drop test
System width	SW06, SW09, SW12, SW15, SW18, SW21, SW24
Passage height	H1 and H2 in line with Table 2 in EN 12811-1:2003
Cladding	(B) with or (A) without cladding
Vertical access	(LA) with a ladder or (ST) with stairs or (LS) with both

(Extract from ÖNORM EN 12810-1:2004)

The resulting classification designation for the EKRO scaffolding system:

EN 12810-3D-SW06/250-H1

The classification designations (A) or (B), or (LA), (ST) or (LS) are possible from a statics viewpoint in the case in question. With a classification of (A) or (B), compliance with the required fixing information must be ensured.

THE CLASSIFICATION OF THE EKRO SCAFFOLDING SYSTEM CONSISTS OF THE FOLLOWING ASPECTS:

LIVE LOAD CLASSIFICATION

The scaffolding itself can be used up to load category 6, whereby the load class applied is dependent on the operating platforms used.

The EKRO scaffolding system in combination with the operating platform 60 (wood) and operating platform 60 PRO (laminated) allows use up to load category 3 (200 kg/m²).

In combination with the operating platform Alu 60 (aluminium), operating platform Alu 30 (aluminium) and operating platform 30 (wood), use up to max. load category 4 (300 kg/m²) is possible.

Use up to load category 5 (450 kg/m²) is possible with the operating platform Alu 60 PRO (aluminium) and operating platform Alu 30 PRO (aluminium).

The scaffolding in combination with the operating steel 30 (steel) allows for use up to load category 6 (600 kg/m²).

Allocation to the load categories according to ÖNORM EN 12811-1

Operating scaffolds according to 5.1 for:	Load category
Light work (according to 5.1.2)	2
Plaster work, coating and trim work (according to 5.1.3)	3
Masonry, concrete, stone masonry, cogging and assembly work (according to 5.1.4)	4
Heavy loads (according to 5.1.5)	At least load category 5 ^a

^a The actually occurring effects must be taken into account.

(Extract from ÖNORM B 4007:2015)

CLASSIFICATION OF DECKING AND SUPPORTS

Using the preliminary static measurements, it is possible to confirm and mathematically prove that the operating platforms made of wood and aluminium correspond to the relevant load categories in accordance with ÖNORM EN 12811-1 and may be used in line with the intended use.

In addition, TU Graz provided test reports that attested to positive evaluations as per Austrian standard ÖNORM EN 12810-2:2004 Appendix B (drop test). As a result, classification (D) was assigned.

Decking and its supports: Rating with drop test (D)

The operating platform 60/250 made of wood was moved up to load category 3. However, according to ÖNORM B 4007, this is only suitable for the catch position as it does not comply with the prescribed minimum thickness. As a result, this wood operating platform is marked with (N).

CLASSIFICATION OF WIDTH CLASS

System width: SW06 (ω = width of scaffolding level including the thickness of the toe board)

Width classes for scaffolding levels

Width class	ω in m
W06	$0.6 \leq \omega < 0.9$
W09	$0.9 \leq \omega < 1.2$
W12	$1.2 \leq \omega < 1.5$
W15	$1.5 \leq \omega < 1.8$
W18	$1.8 \leq \omega < 2.1$
W21	$2.1 \leq \omega < 2.4$
W24	$2.4 < \omega$

[Extract from ÖNORM EN 12811-1:2004]

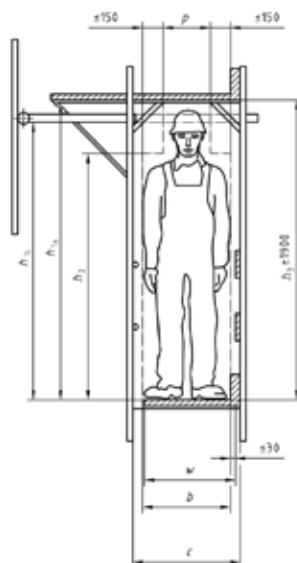
CLASSIFICATION OF PASSAGE HEIGHT

Passage height: Class H1

Clear headroom classes

Class	Clear headroom		
	Between the scaffolding levels h_3	Between scaffolding levels and crossbeams or scaffolding brackets h_{1a} and h_{1b}	Shoulder height h_2
H ₁	$h_3 \geq 1.90$ m	$1.75 \text{ m} \leq h_{1a} < 1.90$ m $1.75 \text{ m} \leq h_{1b} < 1.90$ m	$h_2 \geq 1.60$ m
H ₂	$h_3 \geq 1.90$ m	$h_{1a} \geq 1.90$ m $h_{1b} \geq 1.90$ m	$h_2 \geq 1.75$ m

[Extract from ÖNORM EN 12811-1:2004]



Legend

- b Free passage width, which must be greater than 500 mm and ($c - 250$ mm)
- c Clear distance between posts
- h_{1a}, h_{1b} Clear headroom between scaffolding levels and crossbeams or scaffolding brackets
- h_2 Clear shoulder height
- h_3 Clear headroom between scaffolding levels
- p Clear width in the head area, which must be greater than 300 mm and ($c - 450$ mm)
- w Width of the scaffolding levels in line with 5.2

[Extract from ÖNORM EN 12811-1:2004]

GENERAL INFORMATION - EKRO SCAFFOLDING SYSTEM

The EKRO scaffolding system is an operating scaffold for plaster work, coating and trim work in the meaning of the Austrian Standard B 4007:2015-12 and for where no heavy construction products or materials are used.

In terms of design, it is a double-row modular frame scaffold made of metal.

- Main field lengths: 2.50 m; 1.85 m; 1.25 m; 0.65 m
- Special field length: 1.50 m



Set-up video
EKRO scaffolding system
with operating platforms made of
aluminium



Set-up video
EKRO scaffolding system
with operating platforms
made of wood

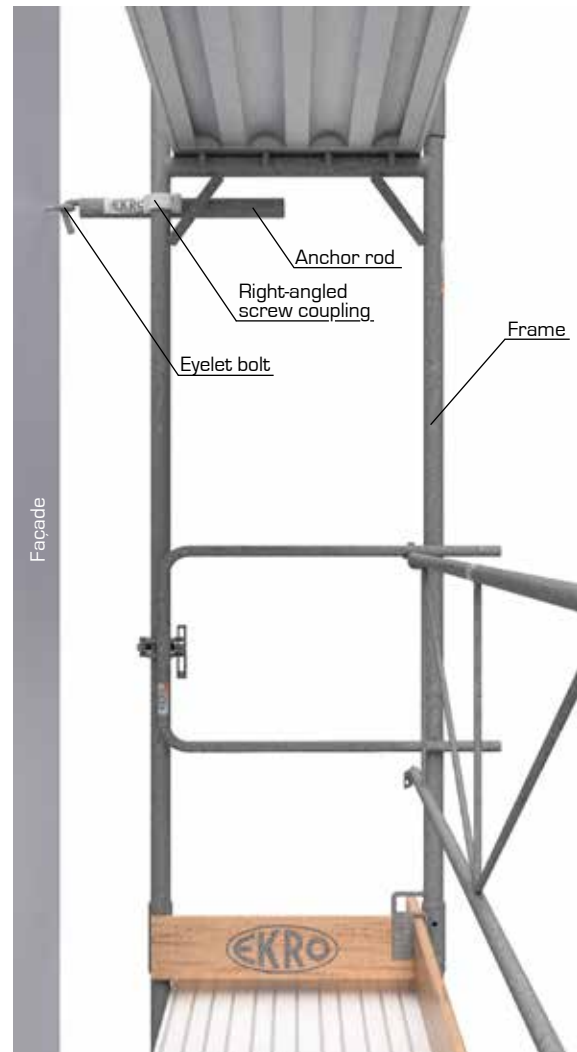
ANCHORING – EKRO SCAFFOLDING SYSTEM

Anchor rods must be used to divert anchoring forces into an anchoring base with sufficient load-bearing capacity. Scaffolding must not be fastened to snow guards, rainwater pipes, windows, lightning rods and never with tie wire or ropes.

Additional wind forces due to advertising spaces, nets or tarpaulin must be taken into account. Anchoring must be installed continuously when the scaffolding is set up.

Anchor rods must be attached in the immediate vicinity of the frame connectors using right-angled screw couplings or normal key couplings.

Anchoring must only be removed when the scaffolding is dismantled; their removal must be coordinated with the dismantling process. If the anchoring has to be removed sooner, it is imperative to ensure beforehand that there is a fully adequate substitute.



LOADS IN WALL FASTENING

EXPOSED SCAFFOLDING

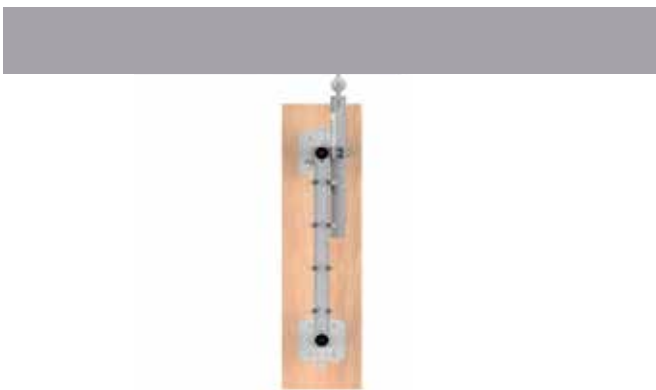
Max. tensile force for each wall fastening:
3 kN (design value)

CASED SCAFFOLDING

Max. tensile force for each wall fastening:
7 kN (design value)

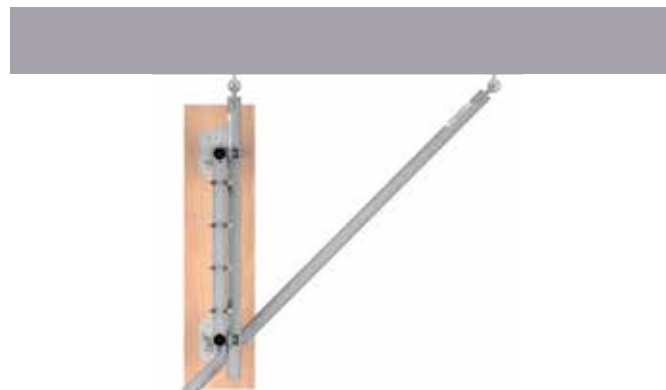
EXAMPLE OF NORMAL ANCHORING

Wall fixing normal to the wall



EXAMPLE OF HORIZONTAL REINFORCEMENT

Wall fixing normal and parallel to the wall



This reinforcement is also considered a normal installation on the wall.

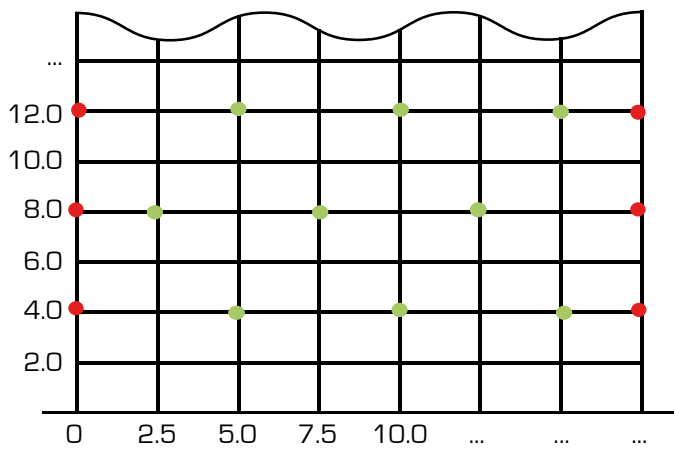
Horizontal anchoring must be installed at least every 6 fields (6 x 2.5 m = 15 m).

THE FOLLOWING APPLIES TO EXPOSED SCAFFOLDING:

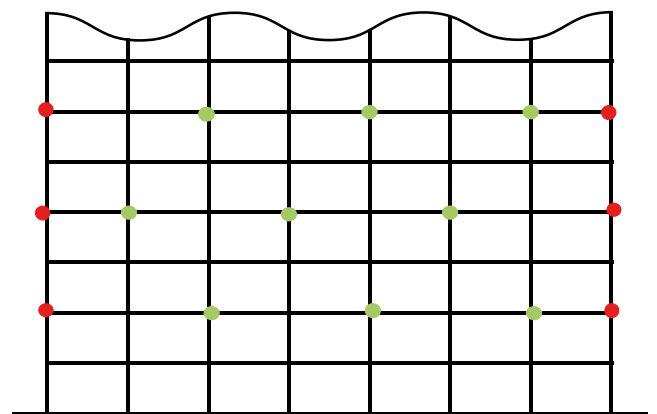
In the peripheral zone, the first frame row must be anchored with a maximum distance of 4.00 m. The greatest distance of the anchoring in the centre area without covering is 8.00 m up to load category 5 and 4.00 m for load category 6. Each frame row must be anchored. The top anchoring must be installed at a maximum of 2.00 m below the top scaffolding level.

For scaffolding heights over 30 m, anchoring must be as described for load category 6.

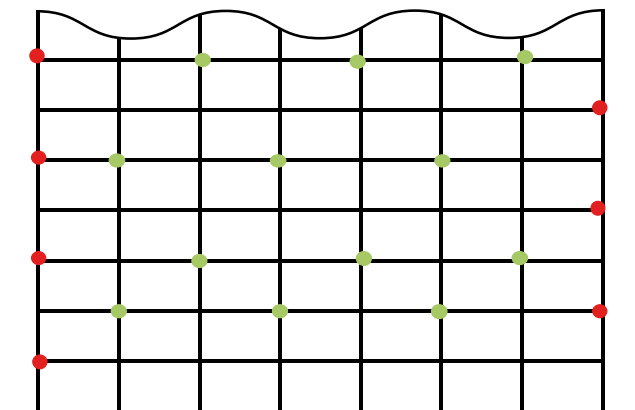
EXPOSED LC3



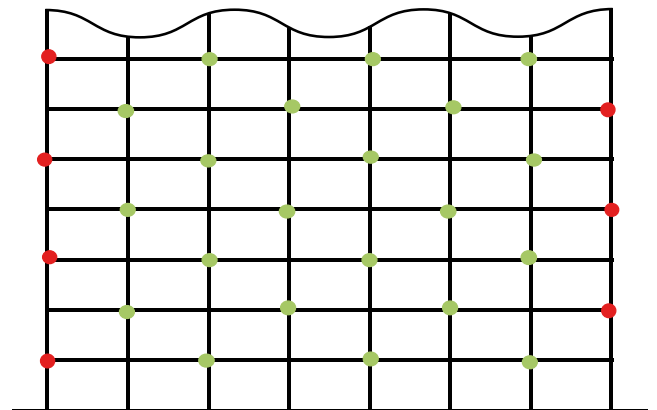
EXPOSED LC4



EXPOSED LC5



EXPOSED LC6



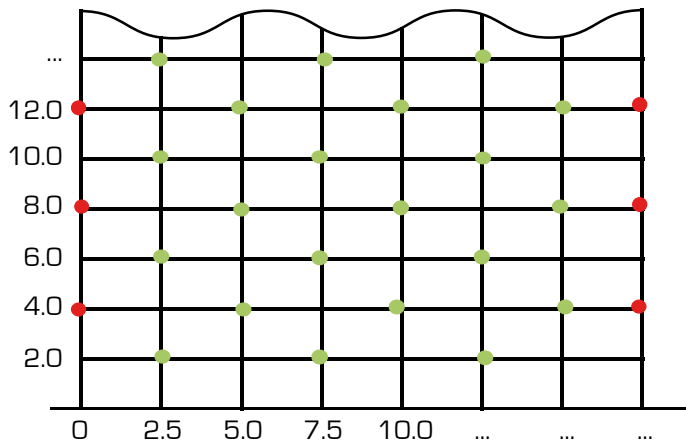
Legend:

- Wall fixing (normal to the wall)
 - Wall fixing (normal + parallel to the wall)
- Frame width: 2.5 m
Frame height: 2.0 m

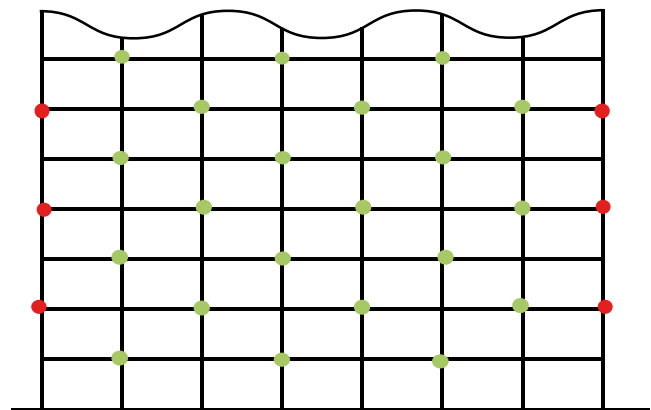
THE FOLLOWING APPLIES TO CASSED SCAFFOLDING:

The greatest distance of the anchoring incl. casing is 4.00 m. Each frame row must be anchored. The top anchoring must be installed at a maximum of 2.00 m below the top scaffolding level. A 100% impermeable tarpaulin covering 100% of the façade area was assumed in the static calculation. For scaffolding heights over 30 m, casing is not possible.

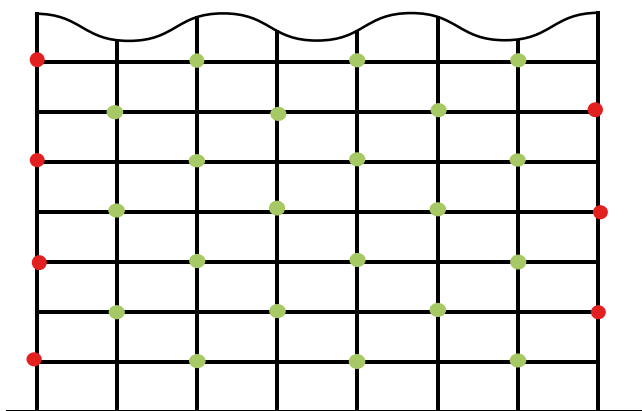
CASED LC3



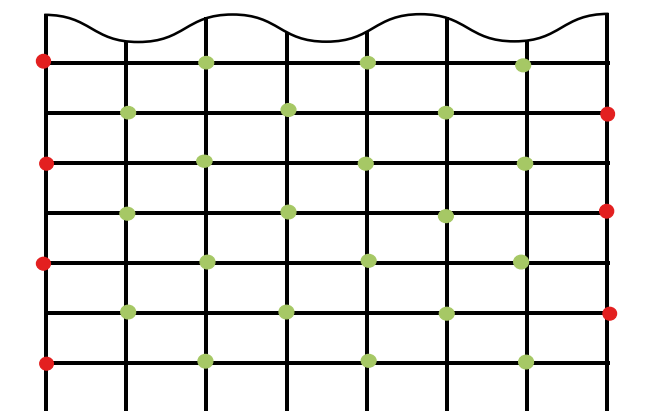
CASED LC4



CASED LC5



CASED LC6



Legend:

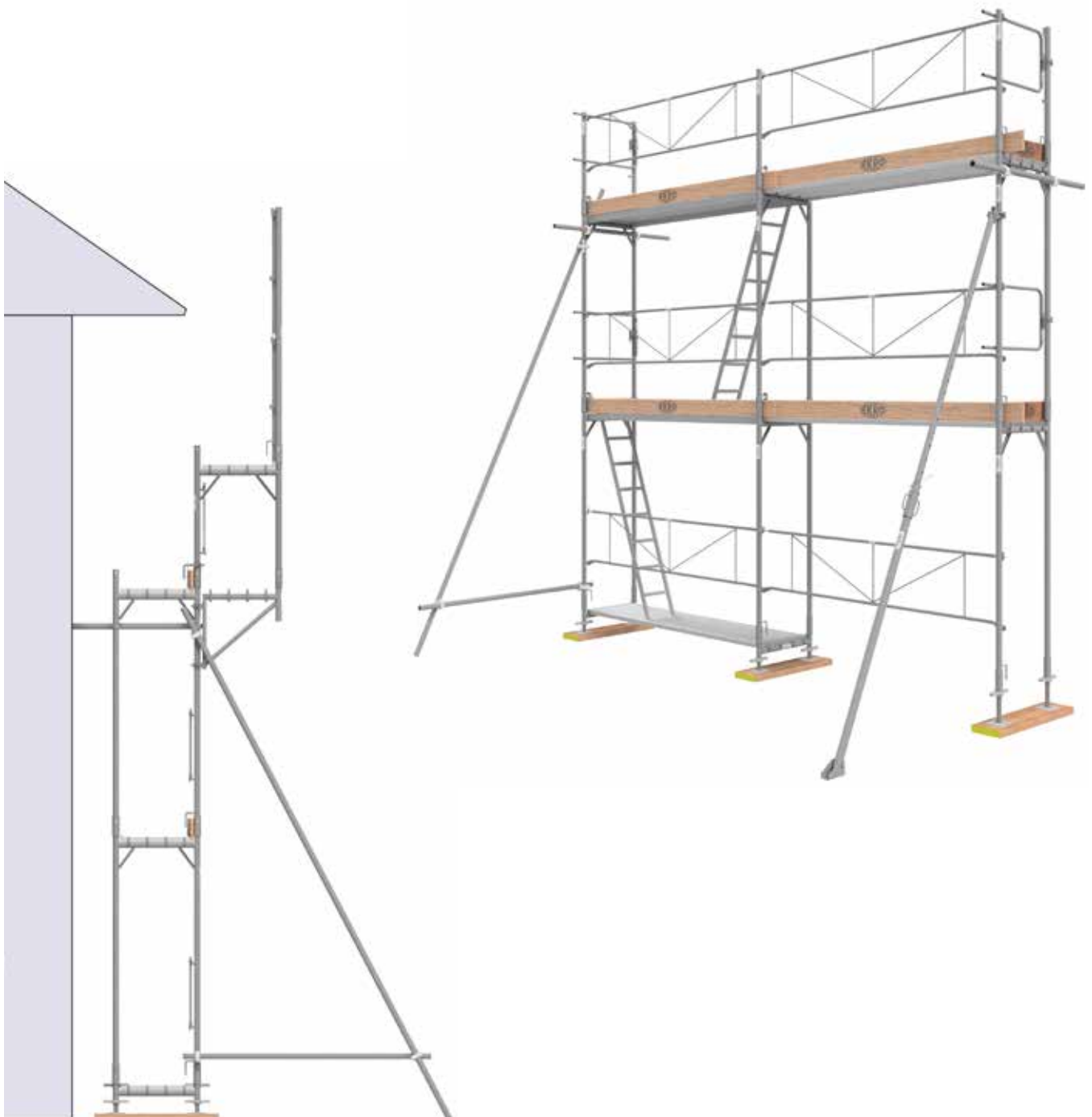
- Wall fixing (normal to the wall)
 - Wall fixing (normal + parallel to the wall)
- Frame width: 2.5 m
Frame height: 2.0 m

FREE-STANDING SCAFFOLDING WITHOUT ANCHORING

When structural conditions do not permit anchoring of scaffolding to the façade, free-standing scaffolding will be used.

The scaffolding can be supported up to a work height of 7.50 m instead of the anchoring on the façade. Support is provided either with a pipe 500, pipe 200, a right-angled screw coupling and two rotating screw couplings / a normal key coupling and two rotating key couplings or an adjustable support 470 PRO or 510 PRO which is fastened to the scaffolding near the frame junction. The support 470 PRO or 510 PRO must be fixed in the ground. Sufficient stability of the surface must thereby be ensured.

In addition, pipes 150 with two right-angled screw couplings or two normal key couplings must be attached below the top scaffolding level so that the scaffolding is supported against the façade.



The following supports are available:

- Support 470 PRO – adjustment range 3.10–4.70 m
- Support 510 PRO – adjustment range 3.10–5.10 m
- Support with pipe 400, pipe 500, pipe 600



Support 470 PRO



Support 510 PRO



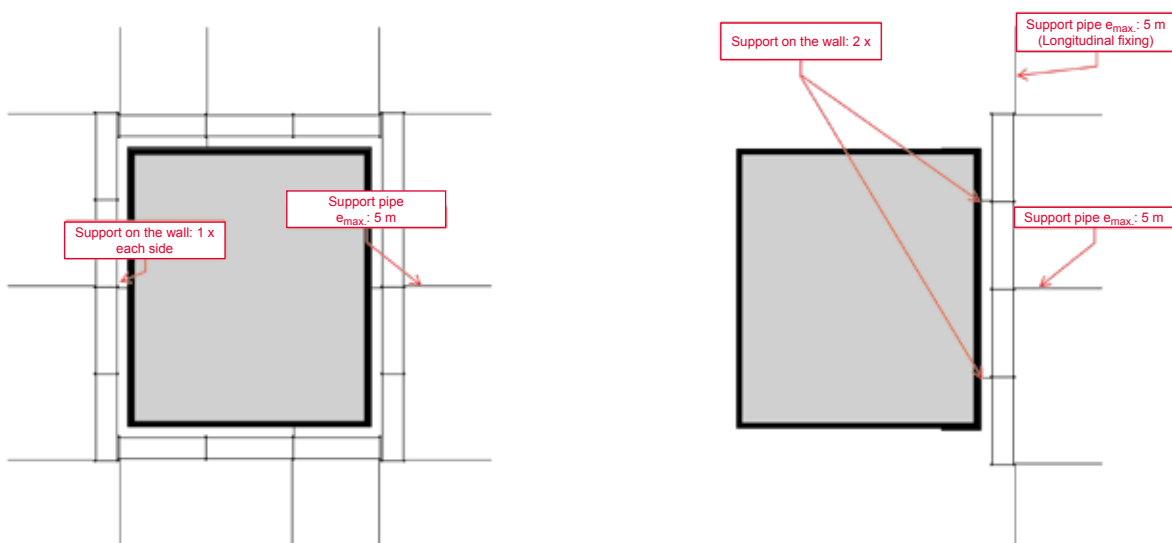
Pipe 400/500/600



According to the structural analysis, diagonal reinforcements must be attached every 2 fields (2 x 2.5 m = 5 m). However, the Construction Worker Protection Ordinance must be observed, which indicates that scaffolding must be positioned so that it can stand freely and securely or it must be anchored securely to the property in question, tightly and in a pressure-resistant manner.

A diagonal reinforcement in both directions is needed at the end of the scaffolding (parallel and normal to the scaffold level).

ASSEMBLY CIRCUMFERENTIAL TO THE BUILDING ASSEMBLY ON ONE SIDE OF THE BUILDING



CRANE OFFSET

The scaffolding components must be connected permanently for the crane offset (e.g. SK screw M10x70 and SK nut M10).

The scaffolding is moved without support 470 PRO and 510 PRO.

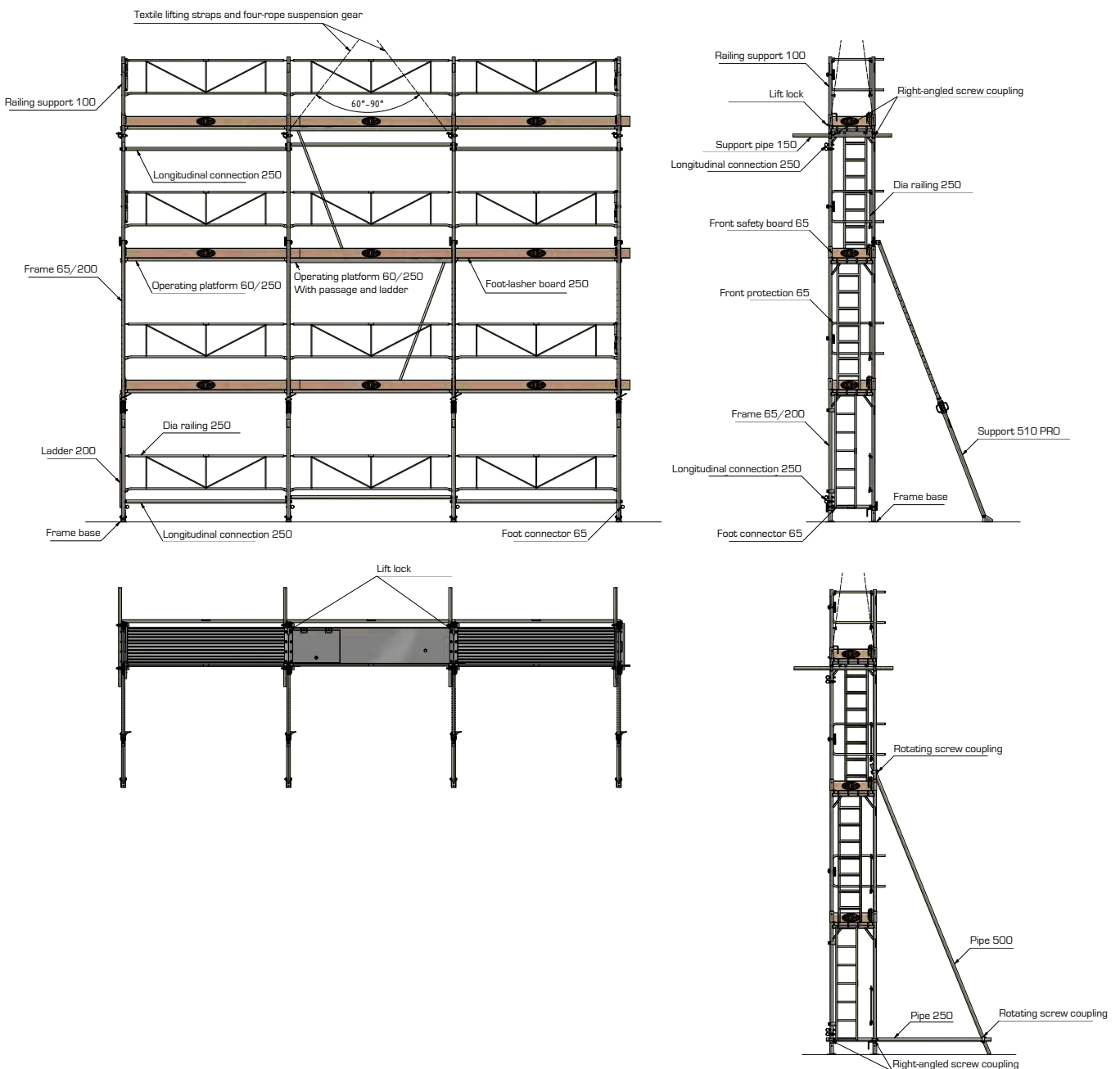
Longitudinal connections 250, base connectors 65 and lift locks must be installed on the scaffolding. Inner railings are necessary when the distance to the component exceeds 30 cm.

QUALIFICATION OF ASSIGNED PERSONNEL

Only skilled specially trained personnel with a valid crane licence may perform crane offsets. Textile straps and four-rope suspension gear must be used for moving. The length must be adjusted to create a tilt angle of 45° to 60°.

MAXIMUM STANDING HEIGHT AND MAXIMUM SCAFFOLDING LENGTH

A maximum standing height of 6.00 m and maximum scaffolding length of 7.50 m must not be exceeded.

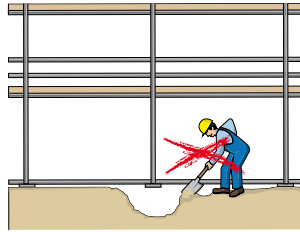


STANDARD STRUCTURAL ANALYSIS – EKRO SCAFFOLDING SYSTEM

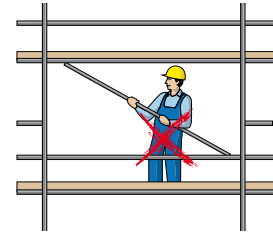
The standard structural analysis of the EKRO scaffolding system is based on a **scaffolding height of 30 m and the special case with up to 100 m.**

Special requirements require a structural analysis for the property of the particular construction project.

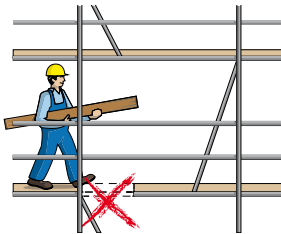
The following safety information must be complied with for each set-up height and set-up type:



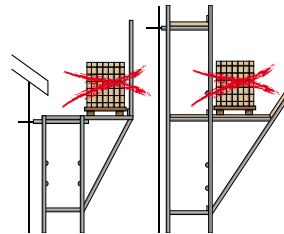
The foundation or surface on which the EKRO scaffolding system will be set up must be dimensioned according to the load.



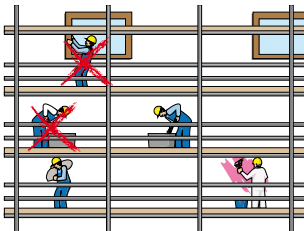
Only the scaffolding operator is authorised to make changes to the EKRO scaffolding system.



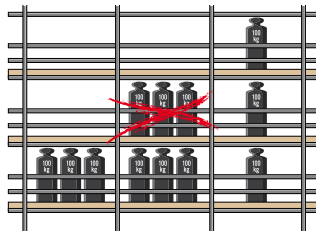
Hatches of floor openings must be kept closed while working on the scaffolding level.



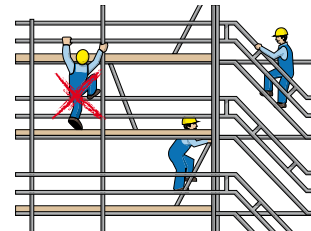
Safety scaffolding and protective covers must be kept free of loads.



Load a maximum of one level per scaffolding row.



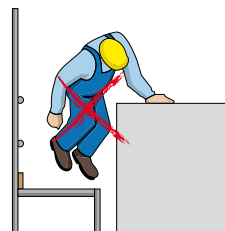
Do not overload the scaffolding deck and observe the load category.



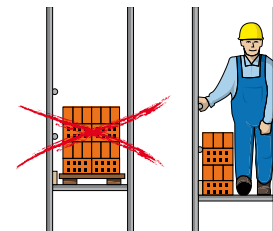
Standard climbing aids must be used.



The correct distance to the building must be ensured.



Jumping onto the EKRO scaffolding system is prohibited.



A passage must be maintained for material storages.

- Do not wear clothing or jewellery that may get caught on components of the EKRO scaffolding system. This includes ties, scarves, rings, necklaces.
- Long hair must be tied back.
- Smoking is prohibited during set-up and take-down work.
- Personal protective equipment must be worn during set-up and take-down work.
- Safety helmets must fit snug and secure on the head. Helmets must be secured, e.g. with additional straps on the chin and neck.

CALCULATION ASSUMPTIONS FOR THE PERMISSIBLE LOAD FOR THE OPERATING PLATFORMS

Operating platform dimensions

- Platform length: 2.5 m
- Platform width: 0.6 m

Surface area of the platform

■ $2.5 \text{ m} \times 0.6 \text{ m} = 1.5 \text{ m}^2$

Uniformly distributed load

- Load category 3: 200 kg/m^2
- Load category 4: 300 kg/m^2
- Load category 5: 450 kg/m^2
- Load category 6: 600 kg/m^2

Load per platform

$1.5 \text{ m}^2 \times 200 \text{ kg/m}^2 = 300 \text{ kg}$
 $1.5 \text{ m}^2 \times 300 \text{ kg/m}^2 = 450 \text{ kg}$
 $1.5 \text{ m}^2 \times 450 \text{ kg/m}^2 = 675 \text{ kg}$
 $1.5 \text{ m}^2 \times 600 \text{ kg/m}^2 = 900 \text{ kg}$

The decking surface for each scaffolding field in load category 4, 5 or 6 must be able to take a partial surface load (q_2) that is greater than the uniformly distributed load. The partial surface load is determined by multiplying the surface area of the scaffolding field by the partial surface factor (a_p). The values for “ q_2 ” and “ a_p ” are specified in the table below. The surface area is calculated from the length and width of each decking area. It is calculated in line with ÖNORM EN 12811-1, Section 6 – “Requirements for structural design” and is presented as follows:

- Load category 4: $0.4 \times 1.5 \text{ m}^2 = 0.6 \text{ m}^2$ → Partial surface
 $0.6 \text{ m}^2 \times 500 \text{ kg/m}^2 = 300 \text{ kg}$ → Max. partial surface load in a scaffolding field
- Load category 5: $0.4 \times 1.5 \text{ m}^2 = 0.6 \text{ m}^2$ → Partial surface
 $0.6 \text{ m}^2 \times 750 \text{ kg/m}^2 = 450 \text{ kg}$ → Max. partial surface load in a scaffolding field
- Load category 6: $0.5 \times 1.5 \text{ m}^2 = 0.75 \text{ m}^2$ → Partial surface
 $0.75 \text{ m}^2 \times 1000 \text{ kg/m}^2 = 750 \text{ kg}$ → Max. partial surface load in a scaffolding field

Live loads on scaffolding loads

Load category	Uniformly distributed load q_1 kN/m ²	Load concentrated on a 500 mm x 500 mm surface F_1 kN	Load concentrated on a 200 mm x 200 mm surface F_2 kN	Partial surface load	
				q_2 kN/m ²	Partial surface factor a_p ¹⁾
1	0.75 ²⁾	1.50	1.00	-	-
2	1.50	1.50	1.00	-	-
3	2.00	1.50	1.00	-	-
4	3.00	3.00	1.00	5.00	0.4
5	4.50	3.00	1.00	7.50	0.4
6	6.00	3.00	1.00	10.00	0.5

¹⁾ See 6.2.2.4
²⁾ See 6.2.2.1

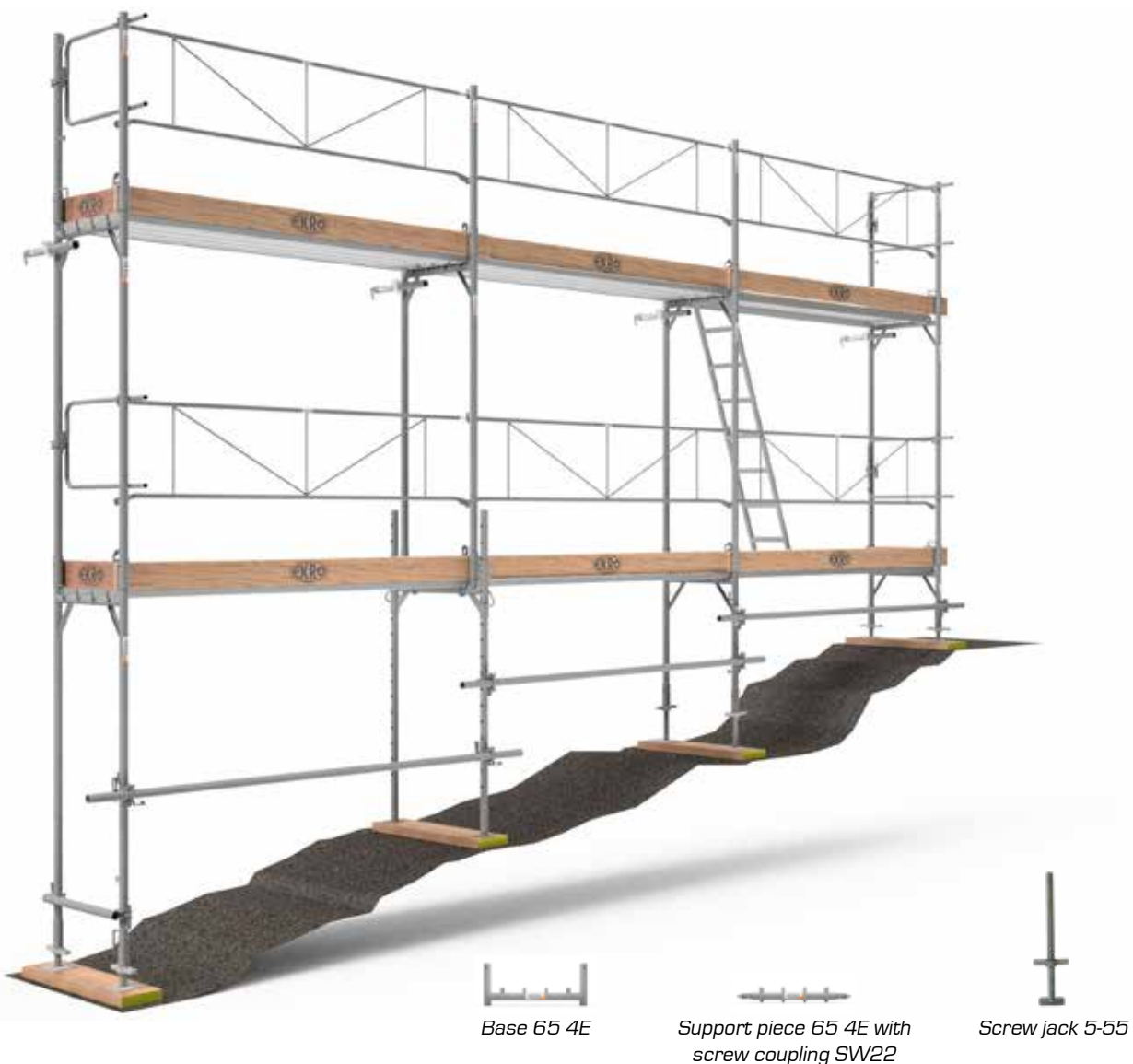
(Extract from ÖNORM EN 12811-1:2004)

SCAFFOLDING SET-UP – AREA LEVELLING

Scaffolding must be set up on bases with appropriate load-bearing capacity that cannot shift. When distributing the support loads on the base, it is imperative to observe its load-bearing capacity.

Bricks, boxes, pallets or similar items must not be used.

Area levelling must be installed for uneven surfaces, protrusions and to reach certain heights for levels. This must be reinforced with Dia railings, longitudinal connections or pipes and couplings.



MOUNTING FORWARD KIT

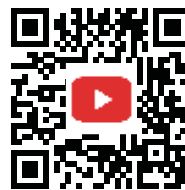
The mounting forward kit is an aluminium welded construction, which serves as fall protection while the scaffolding is being assembled and disassembled. It consists of at least two mounting forward supports 230, a mounting forward strut 250 and a mounting forward end railing 65. The telescopic mounting forward strut 250 is implemented in such a way that it cannot be detached due to the internal construction. One or two mounting forward strut(s) 250 can be used as fall protection.

At least one scaffolding field must have already been set up and anchored in line with the assembly instructions for the mounting forward kit to be able to be used accordingly.

USING THE MOUNTING FORWARD KIT



Set-up video
EKRO scaffolding system
Operating platforms made of aluminium and mounting forward kit



Set-up video
EKRO scaffolding system
Operating platforms made of wood and mounting forward kit



Mounting forward support 230



Mounting forward strut 250



Mounting forward end railing 65

CORNER SOLUTIONS

The dual screw jack 5-55 is used for the inner and outer scaffolding corners. The side pipes of the two joining frames 65/200 4E are attached to the dual foot screw jack 5-55 and connected with a rotating screw coupling or rotating key coupling. On the levels above it, the two frames 65/200 4E must be connected at least every 4 metres with rotating screw couplings or rotating key couplings.

At the inner scaffolding corner the Dia railing 185 is used as the inner corner solution. The Dia railing 185 for the inner corner solution allows for quick and safe walking on the inner scaffolding corner. Just like the conventional Dia railing 250, the Dia railing 185 for inner corner solution is hooked to the frame 65/200 4E and fastened in the area of the inner corner with a rotating screw coupling or rotating key coupling on the side pipe of frame 65/200 4E. Alternatively, an adjustable Dia railing can be used.



*Dia railing 185
for inner corner solutions
with pipe 48 mm*



*Dia railing adjustable
Adjustment range 1.20–2.00 m*



*Dual screw jack 5-55
for corner solution*

LENGTH COMPENSATION FOR VARIABLE FIELD LENGTHS

If it is not possible to attach the operating platforms and Dia railings in the attachments provided for structural reasons, then variable field lengths can be implemented using length compensation clamps and length compensation couplings. This can be implemented with standard operating platforms made of aluminium or wood and the standard Dia railings.

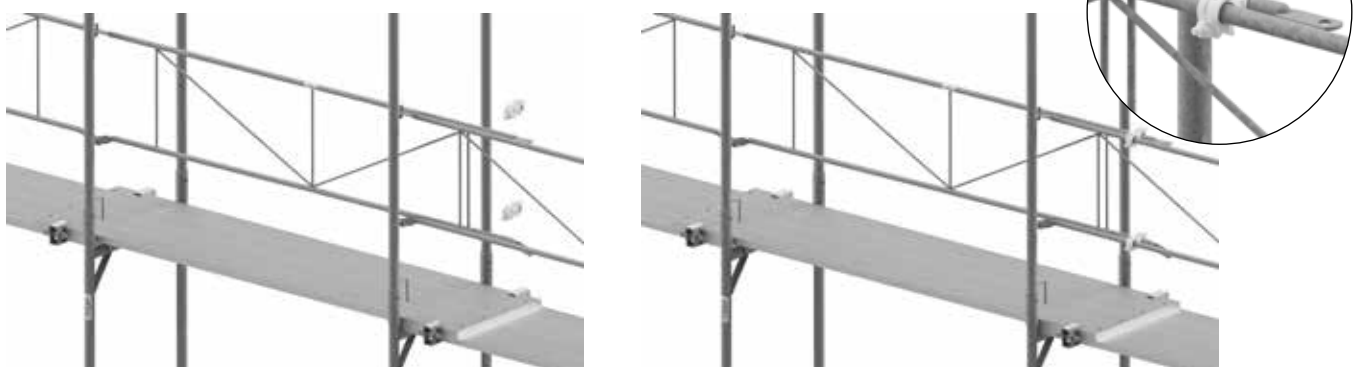
To perform length compensation, the EKRO scaffolding system must be completely set up and fixed on the façade with anchor rods according to the static regulations.

LENGTH COMPENSATION CLAMP



Length compensation clamp

COUPLING FOR LENGTH COMPENSATION

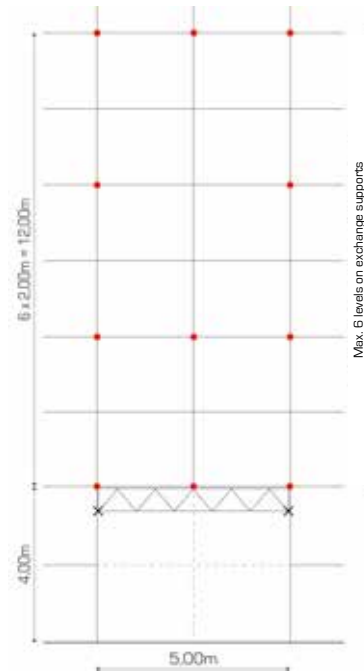
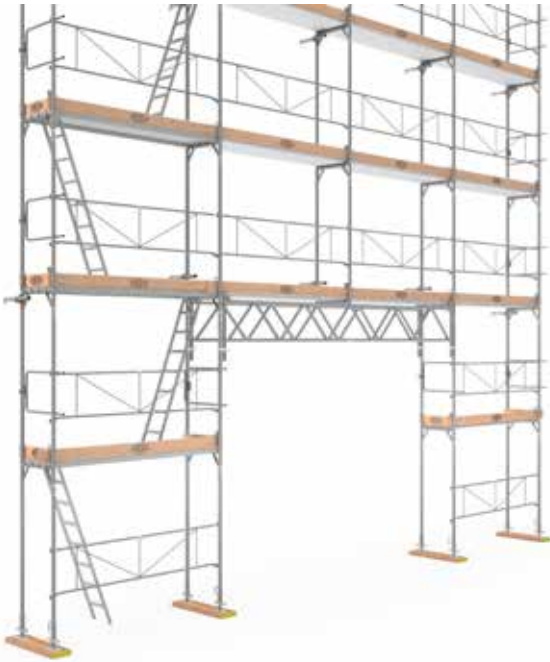


Coupling for length compensation

BRIDGING

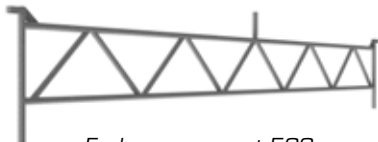
EXCHANGE SUPPORT 500 FOR BRIDGING

Bridges are used as needed for large building or store entrances or other traffic paths. The exchange supports 500 are hooked to the frame 65/200 4E and additionally fastened with rotating screw couplings or rotating key couplings on the frame 65/200 4E. A connector 65 4E must be installed to attach decking and additional scaffolding frames in the centre.



A maximum of 6 levels may be built onto the exchange supports.

For example, supports at 4 m high + 6 levels → 4 m + 12 m = standing height of 16 m = façade height 18 m



Exchange support 500



Connector 65 4E for exchange support 500

BRIDGING WITH STEEL MESH GUARD

When using steel mesh guards made of aluminium, attention must be paid with respect to max. scaffolding height. Further scaffolding set-up requires support pieces 65 4E for installing on steel mesh guards.

The following steel mesh guards made of aluminium are available:

- Steel mesh guard Alu 45/810
- Steel mesh guard Alu 45/610
- Steel mesh guard Alu 45/410



Steel mesh guard Alu



Support piece 65 4E
for mounting on lattice beam



Bearing rail 60 4E
for mounting on lattice beam

PASSAGES

A maximum of 13 scaffolding levels may be built on top of the passage frame to prevent exceeding the maximum total height of 30 metres.

Each passage frame must be anchored in the façade.

Applicable regulations for the blind, visually impaired and individuals with restricted mobility as per Austrian standards ÖNORM V 2104 and ÖNORM B 1600 must be observed with passages.

The following passage frames are available:

- Passage frame 150/250 4E (passage width -P1.5 m)
- Passage frame 180/250 4E (passage width -P1.8 m)
- Passage frame 220/250 4E (passage width -P2.2 m)



Passage width -P1.5 m

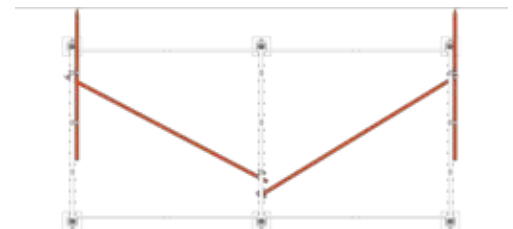


Passage width -P1.8 m



Passage width -P2.2 m

As per Austrian standard ÖNORM B 4007:2015-12 regarding catch positions of passage scaffolds, the thickness of solid wood decking without additional reinforcement must be at least 45 mm with spans exceeding 2.0 m. Decking must be marked "D".



Additional reinforcement
(from a standing height of 10 m)

The following decking materials meet these requirements:

- Operating platform 30/250, thickness 48 mm (wood)
- Operating platform 60/250 PRO, reinforced for catch position (laminated)
- Operating platform Alu 60/250; operating platform Alu 60/250 PRO (aluminium)
- Operating platform Alu 30/250; operating platform Alu 30/250 PRO (aluminium)



Operating platform 30/250
Thickness 48 mm



Operating platform 60/250 PRO
Reinforced for catch point



Operating platform Alu
60/250



Operating platform Alu
30/250

PROTECTIVE ROOF 180

Protective roofs are parts of the scaffolding that protect persons from falling objects and materials. If no other adequate measures are taken to protect persons, these protective roofs must be attached over the work spaces or traffic paths in line with the relevant national requirements. Climbing on the protective roof is only permitted for installation purposes; otherwise, this is prohibited. The protective roof corresponds to load category 2.



If snow is imminent, the following must also be observed:

- The protective roof must be braced with a pipe 250 for each protective roof console 180.
- A pipe 250 with rotating screw coupling must be fixed to the outermost vertical pipe.
- At the top end of the frame in the field above, the pipe must be fixed with another rotating screw coupling.

The following decking materials can be used for the protective roof 180:

- Operating platform 30/250, thickness 48 mm (wood)
- Operating platform 60/250 PRO (laminated)
- Operating platform Alu 60/250; operating platform Alu 60/250 PRO (aluminium)
- Operating platform Alu 30/250; operating platform Alu 30/250 PRO (aluminium)



Protective roof 180
Incl. lift lock



Operating platform 30/250
Thickness 48 mm

ROOF EDGE PROTECTION SCAFFOLD

The roof edge protection scaffold serves to secure people against falls from greater heights. Side protection can either be constructed with two overlapping steel mesh guards 250/100 or with two Dia railings 250 mounted one above the other and mounted side protection net with a maximum mesh size of 10 cm.

Safety guards 250/100 or Dia railings 250 are attached to the railing support 200 or, as an alternative, to railing support 100 and mounted railing support piece 100.

The operating platforms of the roof safety scaffolding must be positioned as closely as possible below the edge but must not be positioned more than 1.50 m below the roof edge or the building edge when working in the area of the roof edge. The distance between the safety wall and the building edge must be at least 0.70 m. Operating platforms that are not secured with the lift lock of the railing support must be secured against being raised by wind with the lift lock.

Each frame must be anchored in the area of the roof safety scaffolding and 2.00 m below it.

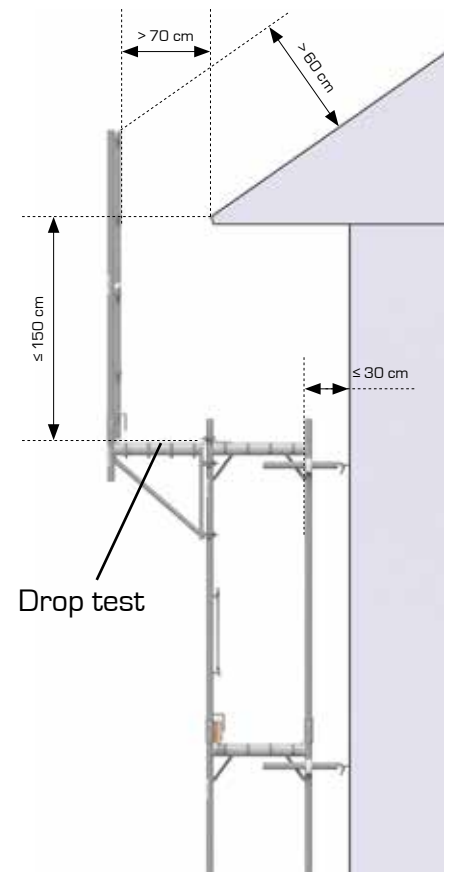
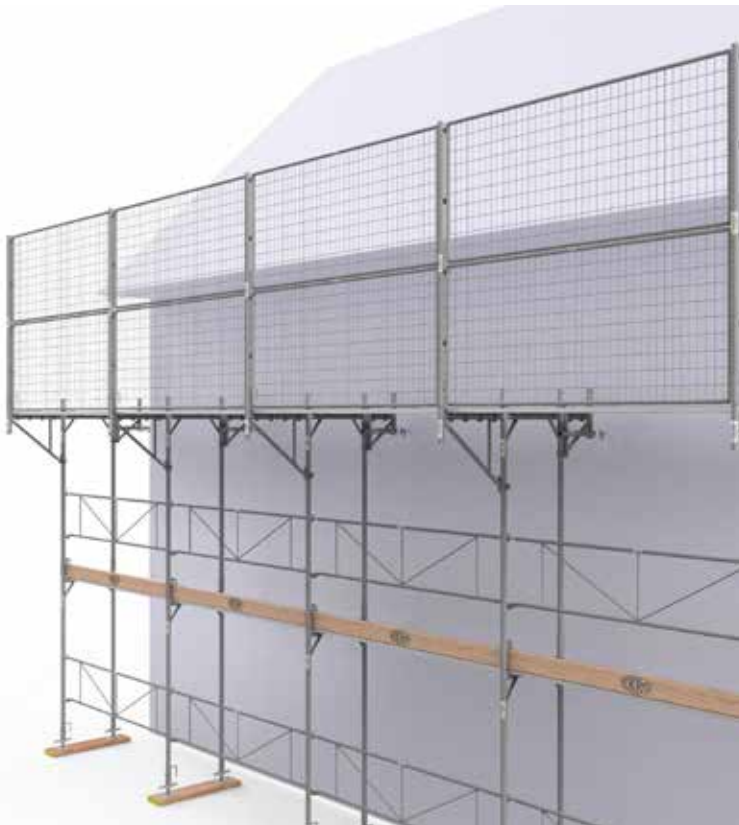
Unless its demands exceed those of an operating platform, the catch position must meet the requirements of class D (drop test) as per Austrian standard ÖNORM EN 12810-2:2004 Appendix B.

For catch positions of operating, protection and passage scaffolds, the thickness of solid wood decking without additional reinforcement must be at least 45 mm with spans exceeding 2.00 m.

The following decking materials meet these requirements and can be used for the catch position:

- Operating platform 30/250, thickness 48 mm (wood)
- Operating platform 60/250 PRO, reinforced for catch position (laminated)
- Operating platform Alu 60/250; operating platform Alu 60/250 PRO (aluminium)
- Operating platform Alu 30/250; operating platform Alu 30/250 PRO (aluminium)
- Operating platform Alu 60/250 with passage and ladder (aluminium)

USE WITH STEEL MESH GUARD



USE WITH DIA RAILING AND SIDE PROTECTION NET



The following railing supports are available:

- Railing support 200
- Railing support 100
- Railing support attachment 100



Side protection net 1000/200
with belt closure



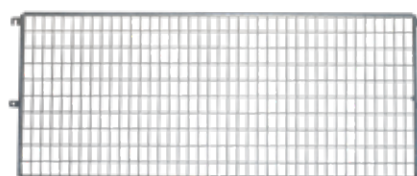
Railing support 200



Railing support 100



Railing support attachment
100



Steel mesh guard 250/100

CLASSIFICATION OF ROOF EDGE PROTECTION SCAFFOLDS

Roof edge protection scaffolds are divided into various classes as per ÖNORM EN 13374:2013+A1, Appendix A.

Class A

Protection class A corresponds to a design where only resistance to static loads, which are based on the requirements below, is guaranteed:

- Support of a person who is leaning on the side protection or holds the side protection when running;
- Collectively effective restraint of a person who runs or falls against the side protection.

Class B

Protection class B corresponds to a design where only resistance to static loads and low dynamic effects, which are based on the requirements below, is guaranteed:

- Support of a person who is leaning on the side protection or holds the side protection when running;
- Collectively effective restraint of a person who runs or falls against the side protection;
- Collectively effective restraint of a person who slips/falls on a sloped surface.

Class C

Based on the requirement below, protection class C is designed in such a way that it can withstand major dynamic effects to stop a person who slips on a surface with a steep slope from falling:

- Collectively effective restraint of a person who slips/falls on a surface with a steep slope.

[Extract from ÖNORM EN 13374:2013+A1 page 10–11]

SIDE PROTECTION NET

Side protection nets are mostly used with roof work, where they serve as fall protection for persons. They are installed in roof edge protection scaffolds or on the working level of façade scaffolds using **belt closures** or **ISILINK CLIPS**. Mesh width must not exceed 10 x 10 cm.



Belt closure



Isilink clips

EACH NET IS LABELLED WITH THE FOLLOWING:

- Manufacturer name
- Date of manufacture
- Type of net and mesh size
- Exact article name (article number)
- Minimum energy absorption capacity/
minimum tensile force of the test mesh
- Inspection ID no. of inspection authority
- Inspection certificate



Inspection certificate

ANNUAL CHECK

In addition to being checked before each use, side protection nets must be checked annually. Every net must be provided with 3 test meshes when they are first delivered. One of these meshes must be sent to the manufacturer each year. If the test mesh meets the requirements, a new inspection plate is provided, which must be attached to the net. The complete net must be sent to the manufacturer for inspection no later than after 4 years.



Test meshes

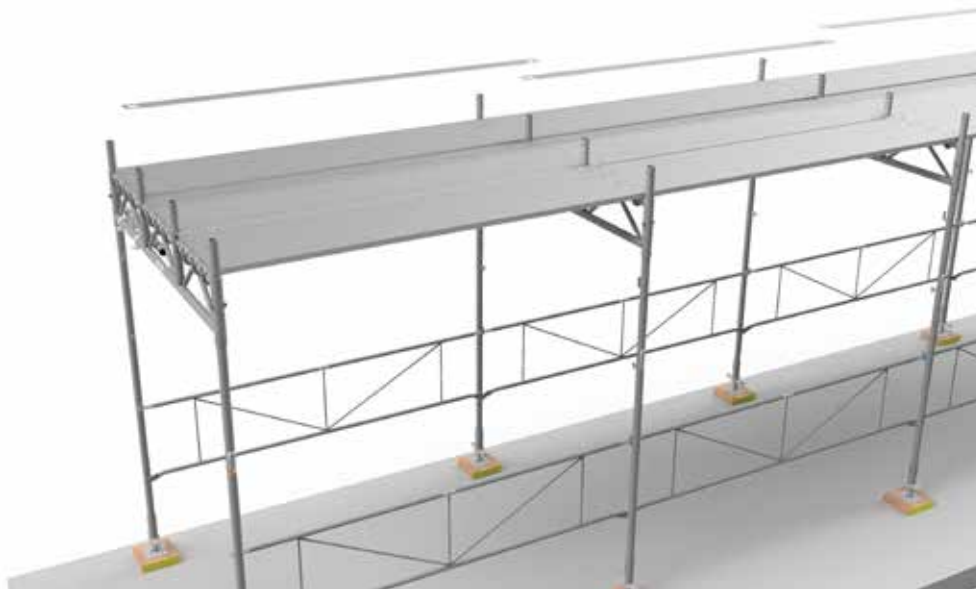
GAP COVER

The gap cover consists of an aluminium hollow-chamber profile that has an opening for attaching the frame at both ends.

It is used to increase safety and to make the workplace more comfortable. It is mainly used with passage frames and consoles.

The passage frames/ consoles are set up as described in the assembly instructions. After all operating platforms and anchorings have been mounted, the gap cover is inserted on the frame between the operating platforms. The further set-up process that follows is as described in the assembly instructions.

USING THE GAP COVER FOR PASSAGE FRAMES



USING THE GAP COVER FOR SCAFFOLDING CONSOLES



CONSOLES

Consoles are used to widen the work area on the scaffolding. The coupling console 30 2E, coupling console 65 4E or system console 65 4E can be attached to the EKRO scaffolding system pointing in or out. When the coupling console 65 4E or system console 65 4E is additionally supported with a pipe 200 and two rotating screw couplings or two rotating key couplings, 8 additional scaffolding levels may be built onto the consoles.



The following consoles are available:

- Coupling console 65 4E with 2 screw couplings SW22
- System console 65 4E with attachment
- Coupling console 30 2E with 2 screw couplings SW22



*Coupling console 65 4E
with 2 screw couplings SW22*



*System console 65 4E
with attachment*



*Coupling console 30 2E
with 2 screw couplings SW22*

INNER CONSOLES (WALL CONSOLES)

If the maximum allowed distance between scaffolding decking and the scaffolded object cannot be maintained, coupling consoles rather than wall protection must be installed as an alternative.

The corresponding operating platforms must be hooked to the coupling consoles and secured with the lift lock.



The following are examples of parts used with wall consoles:

- Operating platform 30
- Coupling console 30 2E with 2 screw couplings SW22
- Lift lock with screw coupling SW22



Operating platform 30



*Coupling console 30 2E
with 2 screw couplings SW22*

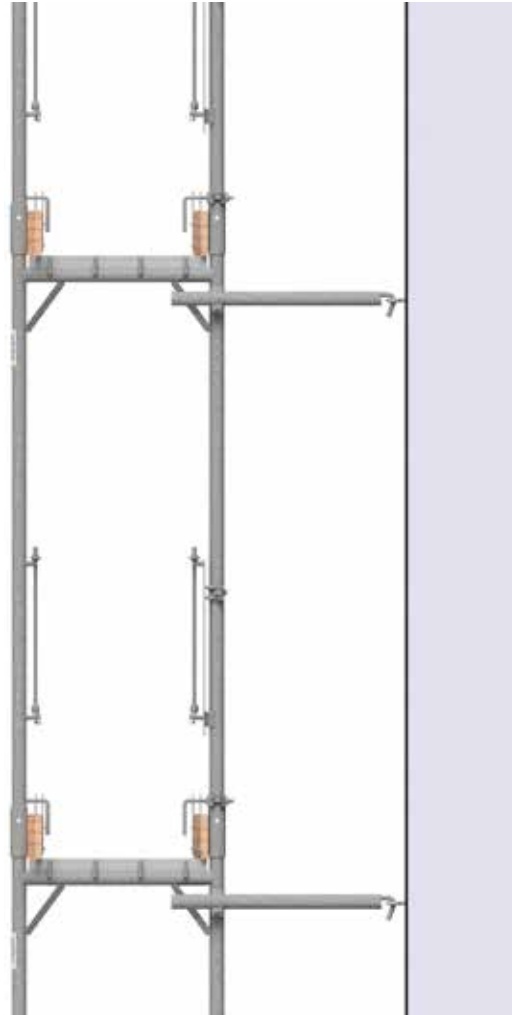


*Lift lock
for Ø48 SW22*

INNER RAILING (WALL PROTECTIONS)

If the maximum allowed distance between the scaffolding decking and the scaffolded object cannot be maintained, Dia railings and foot-lasher boards must also be installed on the wall side.

The Dia railings are hooked to the Dia railing fastener for inner railings and to the frame 65/200 4E.



The following are examples of parts used for wall protection:

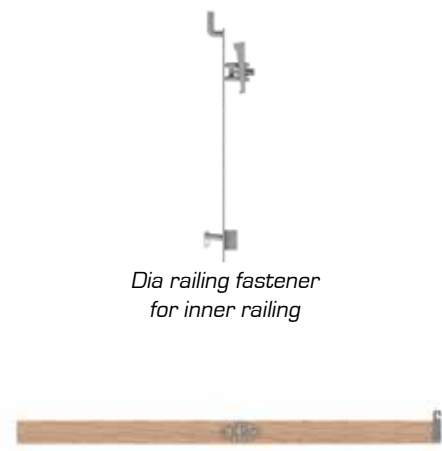
- Dia railing fastener for inner railing
- Dia railing
- Foot-lasher board with screw coupling
- Foot-lasher board



Dia railing



*Foot-lasher mount
with screw coupling*



*Dia railing fastener
for inner railing*



Foot-lasher board 250

VERTICAL ACCESS OPTIONS

As per Austrian standard ÖNORM B 4007:2015-12, it is imperative to attach ladders or access systems such as safely passable stairs (stair towers, staircases or outside stairs) or inclined ladders for safely climbing and exiting the scaffolding or scaffolding levels.

In exceptional cases when the use of stairs or inclined ladders is infeasible due to circumstances related to the construction or scaffolding design, vertical access systems may be used instead (e.g. column scaffolding, formwork, mobile scaffolding).

Stairs and accesses must be installed so that all possible work spaces on a scaffolding level are no more than 20 m away from the stairs and accesses.

Work areas must be separated from traffic areas (access areas) if:

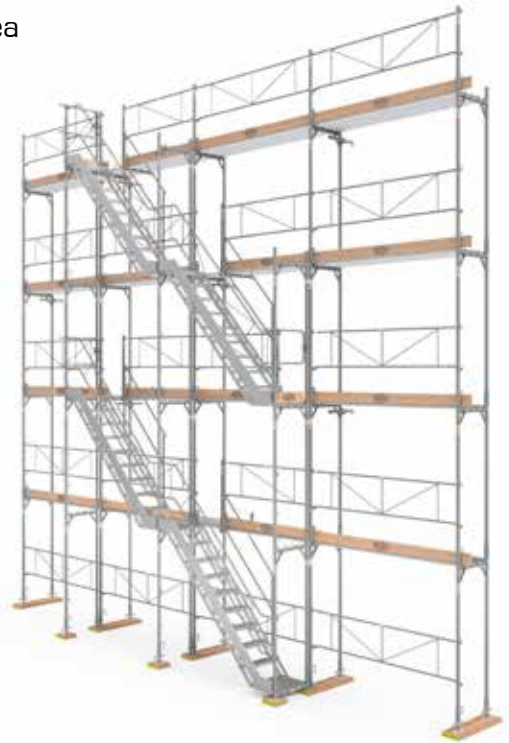
- A large amount of materials is transported through the access; or
- The access height in the scaffolding exceeds 10 m; or
- A large amount of work is being done (e.g. for roof extensions if the scaffolding is used for accessing the roof area).

1-LEVEL/2-LEVEL SCAFFOLDING STAIRS

- None of the hatches must be open in the work areas
- Ladders must not obstruct work in the work areas
- Higher levels of convenience when ascending
- Scaffolding approximately 0.65 m wider in the stair area



1-level scaffolding stairs

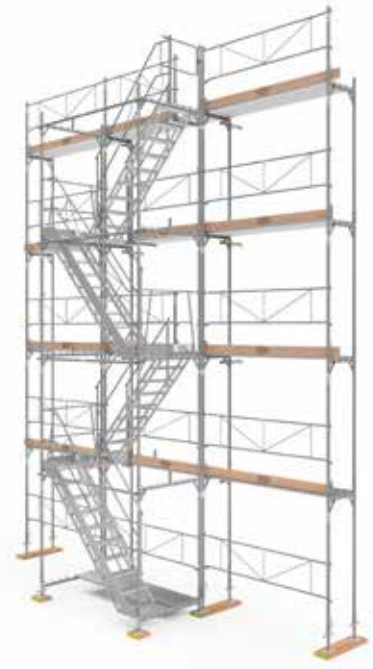


2-level scaffolding stairs



SCAFFOLDING STAIRS IN ALTERNATING DIRECTIONS

- Optimum levels of convenience
- Quickest way to reach the working level
- Work and stair areas are completely separate
- Scaffolding approximately 1.35 m wider in the stair area

**ALTERNATIVE OPTIONS FOR VERTICAL ACCESS**

- Operating platform Alu 60/250 with passage, with ladder (hatch must always be closed)
- Operating platform Alu 60/125 with passage (hatch must always be closed)
- Ladder 200 with 2 screw couplings SW22 (vertical access for the first scaffolding level)



*Operating platform Alu 60/250
with passage, with ladder*



*Operating platform Alu 60/125
with passage*



*Ladder 200
with 2 screw couplings SW22*



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SCAFFOLDING SYSTEM

Article no.	Designation		Type	Approx. kg	Dimensions	M
200412	Frame 65/200 4E		Galvanised	18.50	2.00 x 0.65 m	M
200411	Frame 65/200 4E		Painted green	17.90	2.00 x 0.65 m	
201338	Half frame 65/100 4E		Galvanised	11.70	1.00 x 0.65 m	M
201336	Half frame 65/100 4E		Painted green	10.80	1.00 x 0.65 m	
201347	Quarter frame 65/50 4E		Galvanised	8.00	0.50 x 0.65 m	M
201833	Eighth frame 65/25 4E		Galvanised	6.50	0.25 x 0.65 m	
200415	Base 65 4E	For operating platform or scaffolding stairs	Galvanised	4.70	0.65 m	M
201352	Offset frame 65/200 4E		Galvanised	27.00	2.00 x 0.65 m	
104866	Railing frame 65 2E	Adjustment range up to 2 m	Galvanised	25.30	0.65 m	M
101672	Passage frame 150/250 4E	For 2 x operating platforms 60 and 1 x operating platform 30	Galvanised	45.10	2.50 x 1.50 m	M
101670	Passage frame 180/250 4E	For 3 x operating platforms 60	Galvanised	48.70	2.50 x 1.80 m	M
101667	Passage frame 220/250 4E	For 3 x operating platforms 60 and 1 x operating platform 30	Galvanised	57.50	2.50 x 2.20 m	M
101547	Frame lock		Galvanised	0.15	Ø 8 mm	M

M=EKRO RENTAL PARK



200412



200411



201338



201336



201347



201833



200415



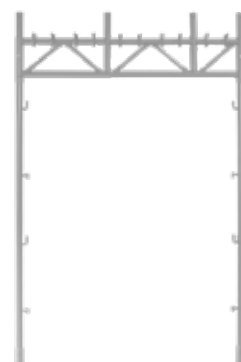
101547



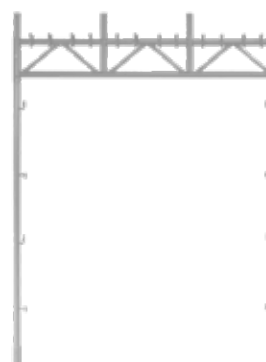
201352



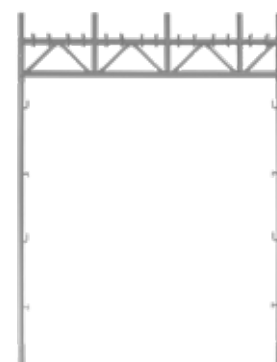
104866



101672



101670

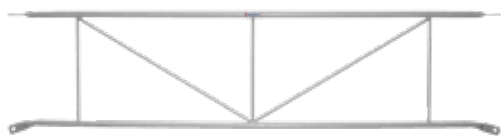


101667

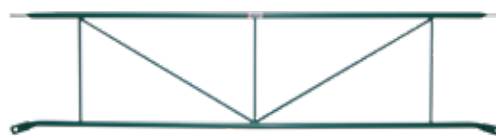
SCAFFOLDING SYSTEM

Article no.	Designation		Type	Approx. kg	Dimensions	M
104851	Dia railing 250		Galvanised	11.70	2.50 m	M
101591	Dia railing 250		Painted green	10.90	2.50 m	
101578	Dia railing 185		Galvanised	7.80	1.85 m	M
101647	Dia railing 185	For inner corner solution with pipe 48 mm	Galvanised	9.50	1.85 m	
200142	Dia railing 150		Galvanised	7.40	1.50 m	
101596	Dia railing 125		Galvanised	5.70	1.25 m	M
200339	Dia railing 65		Galvanised	3.20	0.65 m	M
104883	Dia railing adjustable	Adjustment range from 1.20 to 2.00 m	Galvanised	12.90	2.00 m	
101674	Steel mesh guard 250/100		Galvanised	17.80	2.50 x 1.00 m	M

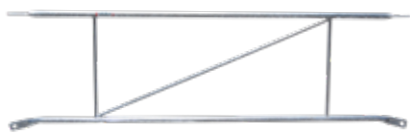
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104851



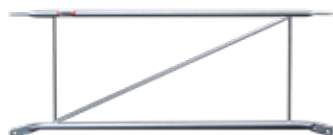
101591



101578



101647



200142



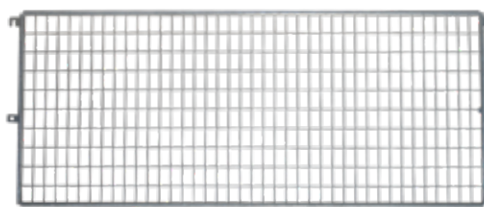
101596



200339



104883



101674

SCAFFOLDING SYSTEM

Article no.	Designation		Type	Approx. kg	Dimensions	M
101651	Dia railing fastener	For inner railing	Galvanised	2.10		M
104829	Coupling for length compensation	For Dia railings Ø 27/27 SW22	Galvanised	1.00		M
105748	Side protection net 1000/200 with belt closure	Mesh size 100 x 100 mm	PP	6.50	10.00 x 2.00 m	
104938	Scaffold protection netting 360 m ²	Roll width 1.80 m	PE	14.60	100.00 x 3.60 m	
101528	Front protection 65		Galvanised	4.10	0.65 m	M
101527	Front protection 65		Painted green	3.90	0.65 m	
101620	Front protection 130		Galvanised	6.00	1.30 m	M

M=EKRO RENTAL PARK



101651



104829



105748



104938



101528



101527



101620

SCAFFOLDING SYSTEM – MOUNTING FORWARD RAILING

Article no.	Designation		Type	Approx. kg	Dimensions	M
201747	Mounting forward support 230		Alu	4.20	2.30 m	
201748	Mounting forward strut 250	Telescopic	Alu	3.20	2.50 m	
201749	Mounting forward end railing 65		Alu	5.80	0.65 m	

M=EKRO RENTAL PARK



201747



201748



201749

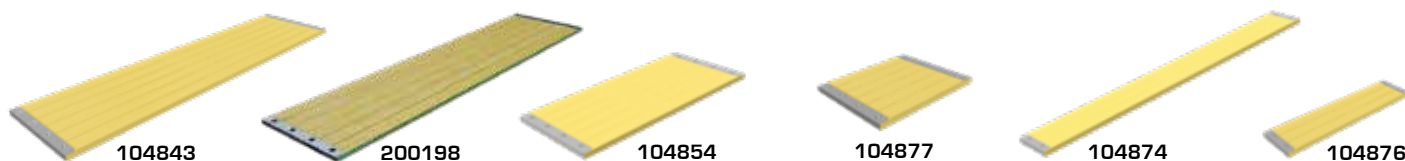


Usage example

SCAFFOLDING SYSTEM – WOOD OPERATING PLATFORMS

Article no.	Designation		Type	Approx. kg	Dimensions	M
104843	Operating platform 60/250	For load category 3 (200 kg/m ²)	Wood	25.00	2.50 x 0.60 x 0.036 m	M
200198	Operating platform 60/250 PRO	Reinforced for catch position, in line with Austrian standard ÖNORM B 4007 2015-12, for load category 3 (200 kg/m ²)	Laminate	24.90	2.50 x 0.60 x 0.036 m	M
104855	Operating platform 60/185	For load category 3 (200 kg/m ²)	Wood	20.40	1.85 x 0.60 x 0.036 m	M
200960	Operating platform 60/150	For load category 3 (200 kg/m ²)	Wood	16.20	1.50 x 0.60 x 0.036 m	
104854	Operating platform 60/125	For load category 3 (200 kg/m ²)	Wood	13.00	1.25 x 0.60 x 0.036 m	M
104877	Operating platform 60/65	For load category 3 (200 kg/m ²)	Wood	6.90	0.65 x 0.60 x 0.036 m	M
104874	Operating platform 30/250	For load category 4 (300 kg/m ²)	Wood	17.80	2.50 x 0.30 x 0.048 m	M
104880	Operating platform 30/185	For load category 4 (300 kg/m ²)	Wood	11.30	1.85 x 0.30 x 0.048 m	M
104876	Operating platform 30/125	For load category 4 (300 kg/m ²)	Wood	8.70	1.25 x 0.30 x 0.048 m	M

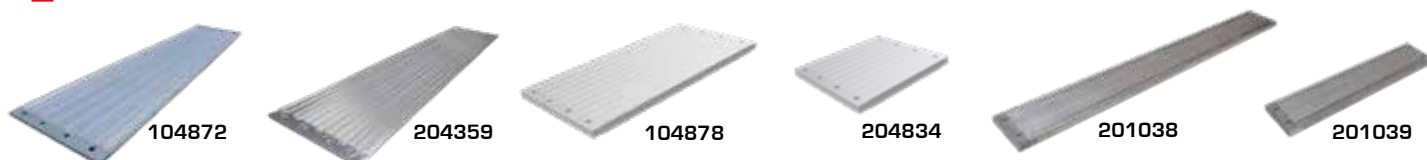
M=EKRO RENTAL PARK



SCAFFOLDING SYSTEM – ALUMINIUM OPERATING PLATFORMS

Article no.	Designation		Type	Approx. kg	Dimensions	M
104872	Operating platform Alu 60/250	For load category 4 (300 kg/m ²)	Alu	19.60	2.50 x 0.60 m	M
204359	Operating platform Alu 60/250 PRO	For load category 5 (450 kg/m ²)	Alu	17.90	2.50 x 0.60 m	M
201037	Operating platform Alu 60/185	For load category 4 (300 kg/m ²)	Alu	14.60	1.85 x 0.60 m	M
204941	Operating platform Alu 60/185 PRO	For load category 6 (600 kg/m ²)	Alu	15.50	1.85 x 0.60 m	M
104878	Operating platform Alu 60/125	For load category 4 (300 kg/m ²)	Alu	10.20	1.25 x 0.60 m	M
204363	Operating platform Alu 60/125 PRO	For load category 6 (600 kg/m ²)	Alu	10.50	1.25 x 0.60 m	M
204834	Operating platform Alu 60/65 PRO	For load category 6 (600 kg/m ²)	Alu	5.90	0.65 x 0.60 m	M
201038	Operating platform Alu 30/250	For load category 4 (300 kg/m ²)	Alu	11.20	2.50 x 0.30 m	M
204364	Operating platform Alu 30/250 PRO	For load category 5 (450 kg/m ²)	Alu	9.70	2.50 x 0.30 m	M
204942	Operating platform Alu 30/185 PRO	For load category 6 (600 kg/m ²)	Alu	7.80	1.85 x 0.30 m	M
201039	Operating platform Alu 30/125	For load category 4 (300 kg/m ²)	Alu	5.60	1.25 x 0.30 m	M
204365	Operating platform Alu 30/125 PRO	For load category 6 (600 kg/m ²)	Alu	5.70	1.25 x 0.30 m	M
204901	Operating platform Alu 30/65	For load category 4 (300 kg/m ²)	Alu	3.10	0.65 x 0.30 m	M

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SCAFFOLDING SYSTEM - STEEL OPERATING PLATFORMS

Article no.	Designation		Type	Approx. kg	Dimensions	M
201499	Operating platform steel 30/250	For load category 6 (600 kg/m ²)	Galvanised	15.00	2.50 x 0.30 m	

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201499

SCAFFOLDING SYSTEM - OPERATING PLATFORM ACCESSORIES

Article no.	Designation		Type	Approx. kg	Dimensions	M
201045	Gap cover Alu 250		Alu	2.40	2.50 x 0.10 m	
201312	Length compensation clamp	For work platform	Galvanised	0.90		M
101649	Lift lock	Ø 48 SW22	Galvanised	0.80		M
200373	Lift lock	Ø 57 SW22	Galvanised	1.00		
201369	Lift lock 65	For operating platform 30	Galvanised	0.60	0.65 m	
204899	Forming plate 60	For transition from 5° to 60°	Galvanised	9.50	0.60 m	

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201045



201312



101649



200373



201369

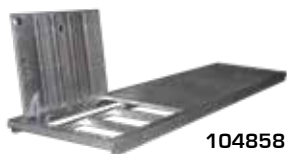


204899

SCAFFOLDING SYSTEM - STAIRS

Article no.	Designation		Type	Approx. kg	Dimensions	M
104858	Operating platform Alu 60/250	With passage, with ladder	Alu	23.80	2.50 x 0.60 m	M
204991	Operating platform Alu 60/125	With passage	Alu	11.90	1.25 x 0.60 m	M
101668	Ladder 200	With 2 screw couplings SW22	Galvanised	8.90	2.00 m	M

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104858

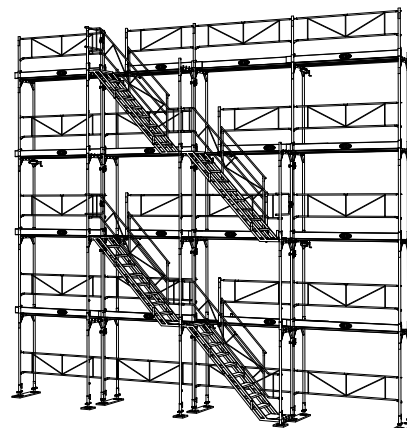
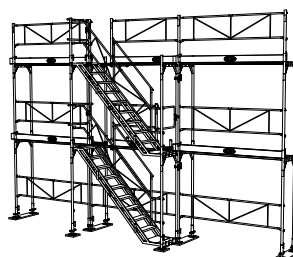


101668



204991

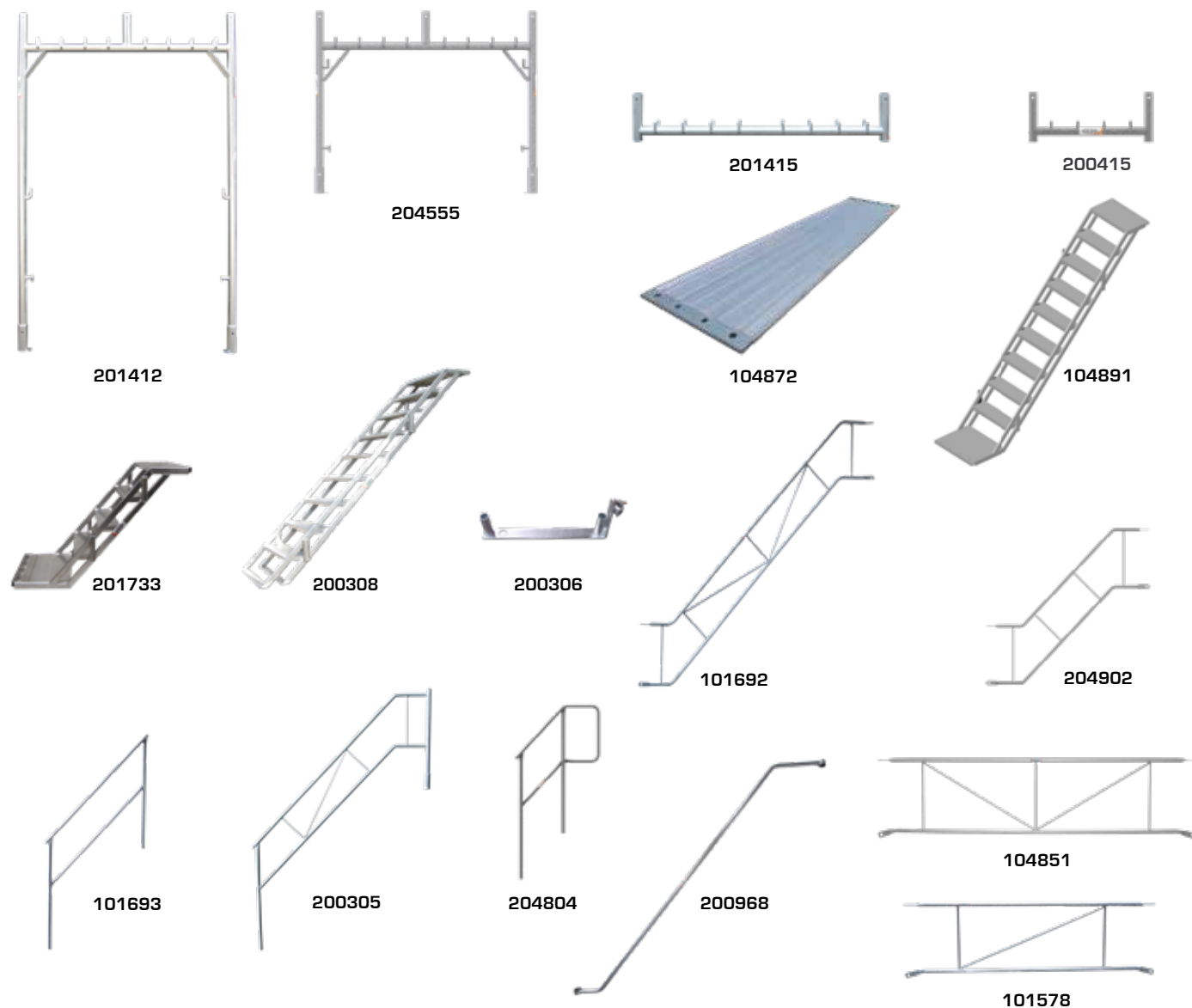
Usage examples
Scaffolding stairs
in front of scaffold
(1-level and 2-level)



SCAFFOLDING SYSTEM

Article no.	Designation		Type	Approx. kg	Dimensions	M
201412	Frame 135/200 4E	For operating platform and scaffolding stairs	Galvanised	25.00	2.00 x 1.35 m	M
204555	Half frame 135/100 4E	For operating platform and scaffolding stairs	Galvanised	17.60	1.00 x 1.35 m	M
201415	Base 135 4E	For operating platform and scaffolding stairs	Galvanised	9.00	1.35 m	M
200415	Base 65 4E	For operating platform or scaffolding stairs	Galvanised	4.50	0.65 m	M
104872	Operating platform Alu 60/250	For load category 4 (300 kg/m ²)	Alu	19.60	2.50 x 0.60 m	M
104891	Scaffolding stairs Alu 60/250	For frame 65 or frame 135	Alu	28.40	2.50 x 0.60 m	M
201733	Scaffolding stairs Alu 60/150	For half frame 65 or half frame 135	Alu	17.40	1.50 x 0.60 m	M
200308	Scaffolding stairs Alu 60/250	For exterior ascent on passage	Alu	23.60	2.50 x 0.60 m	M
200306	Frame retainer 65	For exterior ascent on passage	Galvanised	5.90	0.65 m	M

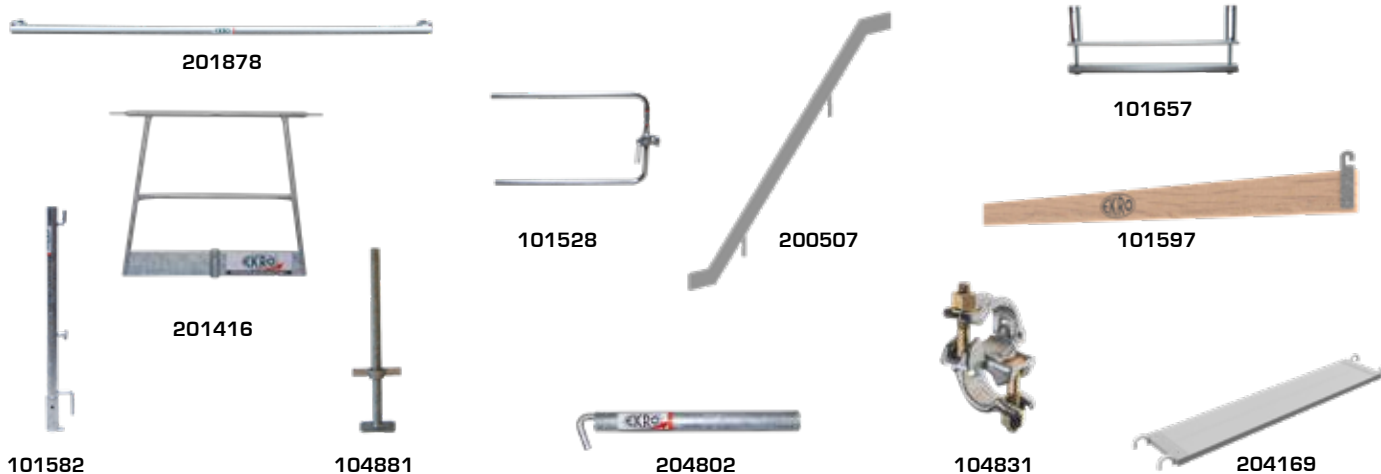
M = EKRO RENTAL PARK



SCAFFOLDING SYSTEM

Article no.	Designation		Type	Approx. kg	Dimensions	M
101692	Outer railing 250	For scaffolding stairs Alu 60/250	Galvanised	14.60	2.50 m	M
204902	Outer railing 150	For scaffolding stairs Alu 60/150	Galvanised	7.60	1.50 m	M
101693	Inner railing 250	For scaffolding stairs Alu 60/250	Galvanised	8.50	2.50 m	M
200305	End internal railing 250	For scaffolding stairs Alu 60/250	Galvanised	15.20	2.50 m	M
204804	Railing 150	For scaffolding stairs Alu 60/150	Galvanised	7.80	1.50 m	M
200968	Railing section 250	With screw coupling SW22	Galvanised	7.50	2.50 m	M
104851	Dia railing 250		Galvanised	11.70	2.50 m	M
101578	Dia railing 185		Galvanised	7.80	1.85 m	M
201878	Longitudinal connection 250	With screw coupling SW22	Galvanised	11.20	2.50 m	M
201416	Front side railing 135	for frame 135	Galvanised	8.60	1.35 m	M
101528	Front protection 65		Galvanised	4.10	0.65 m	M
200507	Foot lasher 250	For scaffolding stairs Alu 60/250	Alu	5.30	2.50 m	M
101597	Foot-lasher board 250	With attachment	Wood	4.20	2.50 m	M
200165	Foot-lasher board 185	With attachment	Wood	3.80	1.85 m	M
101657	Clamping piece 65	For operating platform 60	Galvanised	6.30	0.65 m	M
101582	Railing support 100		Galvanised	3.30	1.00 m	M
104881	Screw jack 5-55	Adjustment range 5–55 cm	Galvanised	4.60	0.75 m	M
204802	Anchor rod 50 PRO		Galvanised	2.20	0.50 m	M
104831	Right-angled screw coupling	Ø 48/48	Galvanised	1.00		M
204169	Mounting lining aluminium 30/135	For scaffolding stairs with frame 135	Alu	5.50	1.35 x 0.30 m	M

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SCAFFOLDING SYSTEM

Article no.	Designation		Type	Approx. kg	Dimensions	M
101597	Foot-lasher board 250	With attachment	Wood	4.20	2.70 x 0.15 m	M
104884	Foot-lasher board 250	without attachment	Wood	3.90	3.00 x 0.15 m	
200165	Foot-lasher board 185	With attachment	Wood	3.80	2.05 x 0.15 m	M
101648	Foot-lasher board 125	With attachment	Wood	2.80	1.45 x 0.15 m	M
200340	Foot-lasher board 65	With attachment	Wood	1.40	0.85 x 0.15 m	M
101652	Foot-lasher mount	With screw coupling SW22	Galvanised	0.80		M
204361	Aperture mounting	For operating platform 60	Galvanised	1.10		
200341	Front safety board 130	With attachment	Wood	2.80	1.30 x 0.15 m	M
101598	Front safety board 65	With attachment	Wood	1.30	0.65 x 0.15 m	M
101582	Railing support 100		Galvanised	3.30	1.00 m	M
101581	Railing support 100		Painted green	2.20	1.00 m	
101584	Railing support 200		Galvanised	9.10	2.00 m	M
101676	Railing support attachment 100		Galvanised	3.10	1.00 m	M

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101597



101652



204361



101598



101582



101581



101584



101676

SCAFFOLDING SYSTEM

Article no.	Designation		Type	Approx. kg	Dimensions	M
101661	Support piece 65 4E	With screw coupling SW22	Galvanised	4.50	0.65 m	M
101642	Coupling console 30 2E	With 2 screw couplings SW22	Galvanised	6.20	0.30 m	M
101644	Coupling console 65 4E	With 2 screw couplings SW22	Galvanised	10.10	0.65 m	M
101612	System console 65 4E	With attachment	Galvanised	8.40	0.65 m	M
200588	Protective roof 180 Incl. lift lock	For work platform	Galvanised	33.90	1.80 m	M
101605	Exchange support 500		Galvanised	55.80	5.00 m	M
201360	Connector 65 4E	For exchange support 500	Galvanised	4.00	0.65 m	M

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101661



101642



101644



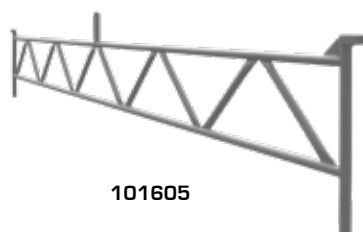
101612



Usage example for protective roof 180
Incl. lift lock



200588



101605

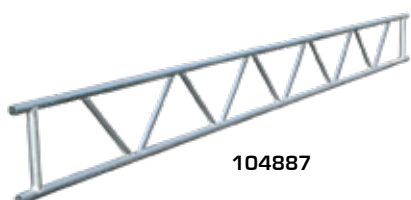


201360

SCAFFOLDING SYSTEM

Article no.	Designation		Type	Approx. kg	Dimensions	M
104888	Steel mesh guard Alu 45/410		Alu	22.00	4.10 x 0.45 m	M
104887	Steel mesh guard Alu 45/610		Alu	33.00	6.10 x 0.45 m	
104885	Steel mesh guard Alu 45/810		Alu	43.00	8.10 x 0.45 m	M
201361	Support piece 65 4E	For mounting on lattice beam	Galvanised	6.30	0.65 m	
201364	Bearing rail 60 4E	For mounting on lattice beam	Galvanised	5.80	0.60 m	
104881	Screw jack 5-55	Adjustment range 5-55 cm	Galvanised	4.60	0.75 m	M
101677	Dual screw jack 5-55	For corner solution	Galvanised	7.40	0.75 m	M
101589	Frame base		Galvanised	1.10		M
200174	Wooden support 25/100	Thickness 55 mm	Wood	5.20	1.00 x 0.25 m	
104828	Wheel	With locking device, load capacity 350 kg	Galvanised	3.30	Ø 200 mm	
101679	Wheel with frame base	With locking device, load capacity 350 kg	Galvanised	6.90	Ø 200 mm	M
101682	Wheel with screw jack 5-55	With locking device, load capacity 350 kg	Galvanised	5.90	Ø 200 mm	M
101530	Mobile boom		Galvanised	15.30	1.15 m	M

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SCAFFOLDING SYSTEM

Article no.	Designation		Type	Approx. kg	Dimensions	M
101590	Support 470 PRO	Adjustment range 3.10-4.70 m	Galvanised	19.90		M
205139	Support 510 PRO	Adjustment range 3.10-5.10 m	Galvanised	23.50		M
201878	Longitudinal connection 250	With screw coupling SW22	Galvanised	11.20	2.50 m	M
101556	Pipe 100	Ø 48 x 3.2 mm	Galvanised	3.20	1.00 m	M
101559	Pipe 150	Ø 48 x 3.2 mm	Galvanised	5.00	1.50 m	M
101555	Pipe 200	Ø 48 x 3.2 mm	Galvanised	6.60	2.00 m	M
101558	Pipe 250	Ø 48 x 3.2 mm	Galvanised	8.30	2.50 m	M
101554	Pipe 300	Ø 48 x 3.2 mm	Galvanised	9.90	3.00 m	M
101553	Pipe 400	Ø 48 x 3.2 mm	Galvanised	13.20	4.00 m	M
101552	Pipe 500	Ø 48 x 3.2 mm	Galvanised	16.50	5.00 m	M
104840	Pipe 600	Ø 48 x 3.2 mm	Galvanised	19.80	6.00 m	M
104830	Normal key coupling	Ø 48/48	Galvanised	1.50		M
104834	Rotating key coupling	Ø 48/48	Galvanised	1.60		M
104836	Wedge shock coupling	Ø 48/48	Galvanised	1.20		M
104831	Right-angled screw coupling	Ø 48/48 SW22	Galvanised	1.00		M
104835	Rotating screw coupling	Ø 48/48 SW22	Galvanised	1.40		M
104837	Sleeve coupling with bolt	Ø 48/48 SW22	Galvanised	1.50		M
104838	Pipe coupling	For pipe Ø 48 mm	Galvanised	0.50		

EKRO RENTAL PARK



101590



201878



101556



104830



104834



104836



104838



104831



104835



104837

SCAFFOLDING SYSTEM						
Article no.	Designation		Type	Approx. kg	Dimensions	M
204802	Anchor rod 50 PRO		Galvanised	2.20	0.50 m	M
104819	Anchor rod 50		Galvanised	2.00	0.50 m	M
204841	Anchor rod 70 PRO		Galvanised	3.00	0.70 m	M
204845	Anchor rod 100 PRO		Galvanised	3.70	1.00 m	M
101502	Anchor rod 100		Galvanised	3.50	1.00 m	M
204849	Anchor rod 150 PRO		Galvanised	5.60	1.50 m	M
204853	Anchor rod 200 PRO		Galvanised	7.60	2.00 m	M
101509	Anchor rod 200		Galvanised	7.40	2.00 m	M
105504	Eyelet bolt 12	PU 20 pieces	Galvanised	3.60	170 mm Ø 12 x 120 mm	
105505	Eyelet bolt 19	PU 25 pieces	Galvanised	6.00	240 mm Ø 12 x 190 mm	
105518	Eyelet bolt 23	PU 10 pieces	Galvanised	2.00	280 mm Ø 12 x 230 mm	
105516	Eyelet bolt 30	PU 10 pieces	Galvanised	4.00	350 mm Ø 12 x 300 mm	
105519	Eyelet bolt 35	PU 10 pieces	Galvanised	4.00	400 mm Ø 12 x 350 mm	
105506	Scaffolding plug	14 x 100 mm PU 50 pieces	Plastic	0.50	14 x 100 mm	
105507	Scaffolding plug	14 x 135 mm PU 50 pieces	Plastic	0.50	14 x 135 mm	
101176	SK screw M10x70	DIN 931	Galvanised	0.05		
101183	SK nut M10	DIN 934	Galvanised	0.02		

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204802



104819



105504



105507



101176



101183

