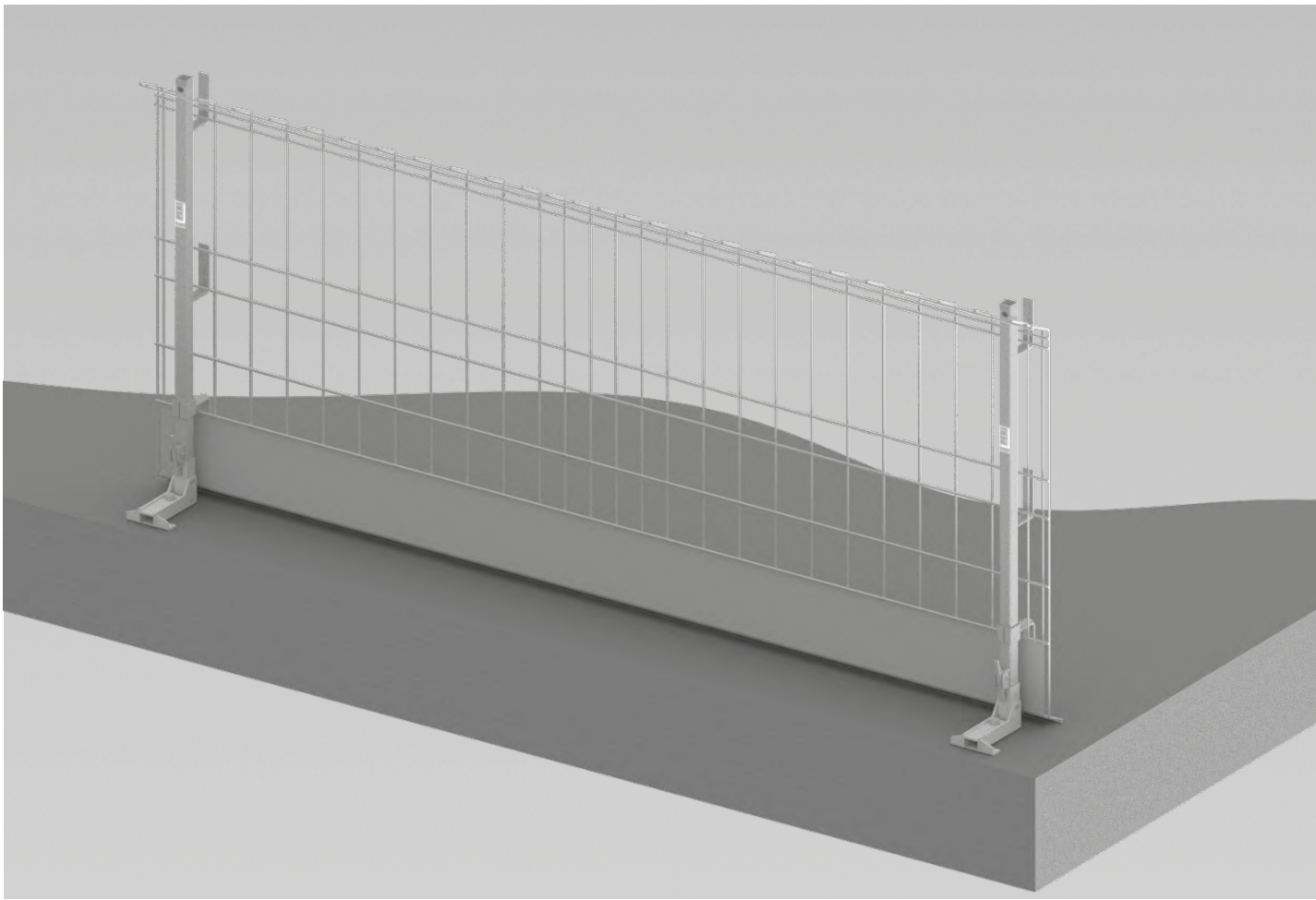
PROKIT EP 110
Safety System

Instructions for Assembly and Use – Standard configuration – Version 2.1



PERI Ltd

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Main components

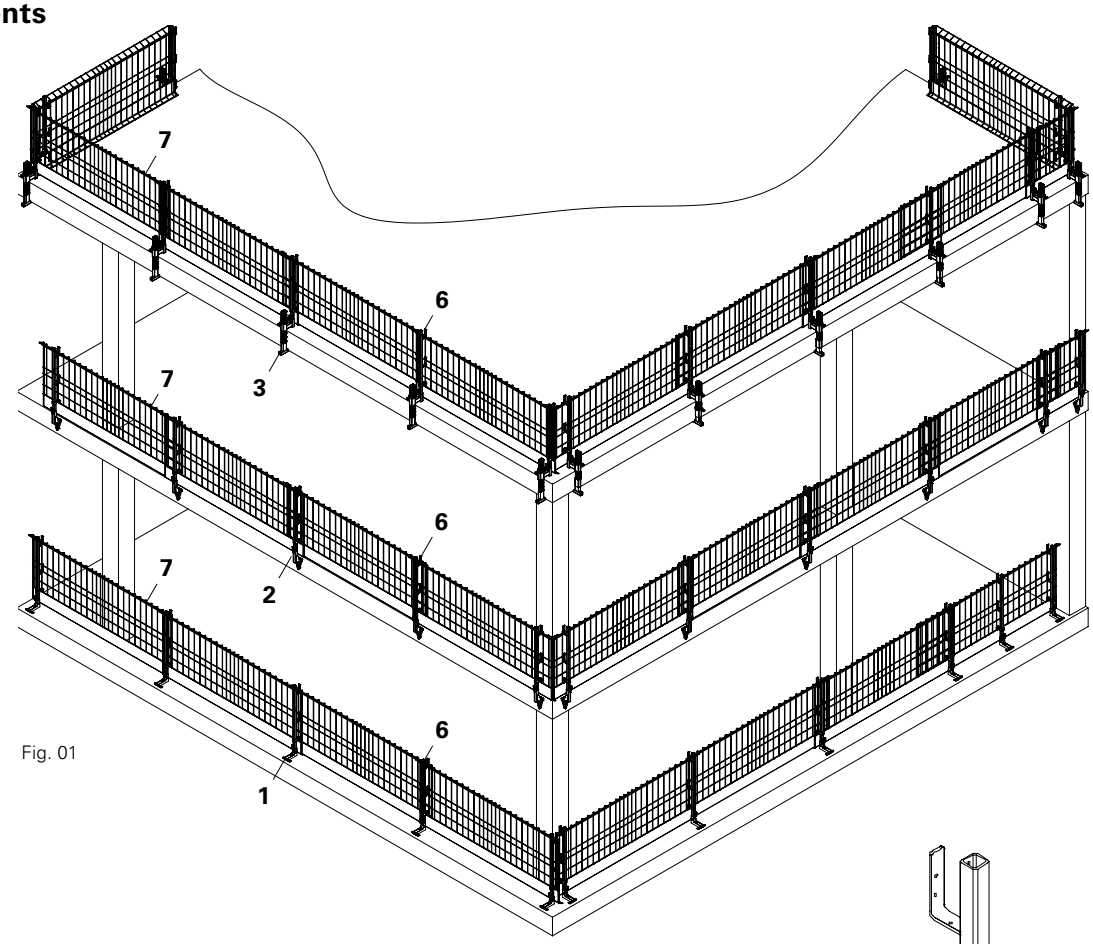


Fig. 01

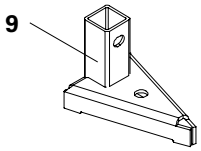


Fig. 07

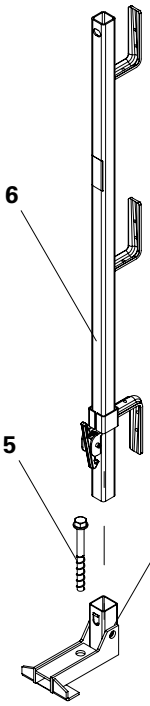


Fig. 02

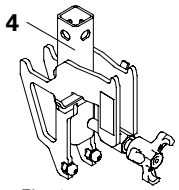


Fig. 05

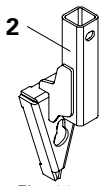


Fig. 03

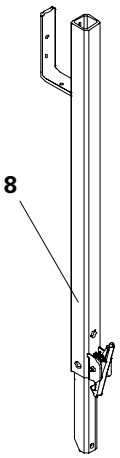


Fig. 06

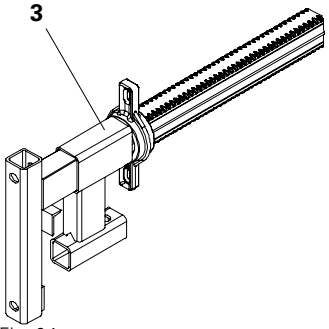


Fig. 04

1 Foot PROKIT Alpha Std Dual
2 Side Foot PSF
3 Uni Clamp PUC
4 Sheet Piling Clamp PSC
5 Anchor Bolt PERI 14 x 150
6 Post PP
7 Side Mesh Barrier PMB
8 Post Extension PPE
9 Slab Foot PDF (will be replaced)

Key

Pictogram | Definition


Danger/Warning/Caution


Note


To be complied with


Load-bearing point


Visual inspection


Tip


Incorrect use


Safety helmet


Safety shoes


Safety gloves


Safety goggles


Personal protective equipment to prevent falling from a height (PPE)


Observe additional documentation

Arrows

→ Arrow representing an action

⇨ Arrow representing a reaction of an action*

→ Arrow representing forces

* If not identical to the action arrow.

Safety instruction categories
The safety instructions alert site personnel to the risks involved and provide information on how to avoid these risks. Safety instructions can be found at the beginning of the section or before instructions for action and are highlighted as follows:

Danger
This sign indicates an extremely hazardous situation that could result in death or serious, irreversible injury if the safety instructions are not followed.

Warning
This sign indicates a hazardous situation that could result in death or serious irreversible injury if the safety instructions are not followed.

Caution
This sign indicates a hazardous situation that could result in minor or moderate injury if the safety instructions are not followed.

Note
This sign indicates situations in which failure to observe the information can result in material damage.

Format of the safety instructions

Signal word
Type and source of hazard!
Consequences of non-compliance.
⇒ Preventative measures.

Dimensions
Dimensions are usually given in cm. Other measurement units, e.g. m, are shown in the illustrations.

Conventions
- Instructions are numbered with: 1. ....., 2. ....., 3. .....
- The result of an instruction is shown by: →
- Position numbers are clearly provided for the individual components and are given in the drawing, e.g. **1**, in the text in brackets, for example (**1**).
- Multiple position numbers, i.e. alternative components, are represented with a slash: e.g. **1/2**.

Notes on illustrations
The illustration on the front cover of these instructions is understood to be a system representation only. The assembly steps presented in these Instructions for Assembly and Use are shown in the form of examples with only one component size. They are valid for all component sizes contained in the standard configuration.

To facilitate understanding, illustrations are sometimes incomplete. The safety equipment that is not shown in these detailed descriptions must nevertheless be available.

Terminology
Components are not always named in full so that they are easier to read.
All components deemed valid according to the program overview may be used.
Exceptions are specified.

Example:
– Side mesh barrier
corresponds to:
– Side Mesh Barrier PMB
– Side Mesh Barrier PMB S.

Target groups

Contractors
These Instructions for Assembly and Use are designed for contractors who either
- assemble, modify and dismantle PERI systems, or
- use them, e.g. for concreting, or
- allow them to be used for other operations, e.g. carpentry or electrical work.

Safety and Health Protection Coordinator*
- is appointed by the client,
- must identify potential hazards during the planning phase,
- determines measures that provide protection against risks,
- creates a safety and health protection plan,
- coordinates the protective measures for the contractor and site personnel so that they do not endanger each other,
- monitors compliance with the protective measures.

Competent person
- is appointed by the contractor,
- must be on site for all system operations,
- prepares and updates the plan for assembly, modification and dismantling,
- prepares and updates the plan for use of the system by the user,
- supervises the assembly, modification and dismantling work (supervisor).

Competent persons qualified to carry out inspections
Due to the specialist knowledge gained from professional training, professional experience and recent professional activity, the competent person qualified to carry out inspections has a reliable understanding of safety-related issues and can carry out inspections correctly. Depending on the complexity of the inspection to be undertaken, e.g. scope of testing, type of testing or the use of certain measuring devices, a range of specialist knowledge is necessary.

Qualified personnel
PERI systems may only be assembled, modified or dismantled by personnel who are suitably qualified to do so. Qualified personnel must have completed a course of training** in the work to be performed, covering the following points at least:
- Explanation of the plan for the assembly, modification or dismantling of the system in an understandable form and language.
- Description of the measures for safely assembling, modifying or dismantling the system.
- Naming of the preventive measures to be taken to avoid the risk of persons and objects falling.
- Designation of the safety precautions in the event of changing weather conditions that could adversely affect the safety of the system, as well as the personnel concerned.
- Details regarding permissible loads.
- Description of all other risks and dangers associated with assembly, modification or dismantling operations.

- Ensure that the respective current version of relevant national guidelines and regulations are complied with!
- If no country-specific regulations are available, PERI recommends that you proceed according to German guidelines and regulations.

* Valid in Germany e.g.: Regulations for Occupational Health and Safety on Construction Sites 30 (RAB 30).

** Instructions are given by the contractor themselves or a competent person selected by them.

Product description

Regular assembly
These Instructions for Assembly and Use describe the standard assembly and the intended use of the PROKIT EP 110 – Safety System.

The system is a lateral protection system consisting of fastening elements, posts and side grilles.

Features:
Product description
PROKIT EP 110 – Safety System
- provides temporary lateral protection on slabs, walls, stairs and sheet piling.
- secures falling edges for work to be carried out after concreting.
- allows flexible use with different post connections, one post and side mesh barriers of various lengths, also when accommodating complicated building geometries.
- The lateral protection can be raised to 175 cm with the Post Extension PPE.

For stair areas, wooden guardrail boards are used as lateral protection.

Product advantages
- Lightweight
- Variable
- Extendable

Wind attack surfaces due to icing are not taken into account.
Snow and ice loads are not taken into account.

System dimensions
Side Mesh Barrier PMB/PMB S:
- Lengths:
  – 260 cm
  – 240 cm
  – 120 cm
  – 90 cm
- Height: 110 cm

Technical data
Slab thickness for assembly
- from above: ≥ 20 cm
- front side: ≥ 30 cm

Intended use
- Use in the form of a temporary building construction for providing a safe working area for the construction, maintenance, repair and demolition of buildings and other structures and the required access for carrying out work. (Extract from DIN EN 12811-1:2004-03)
- Protection of personnel from falling.
- Protection of bystanders (passers-by) from falling objects.

PERI products have been designed for exclusive use in the industrial and commercial sectors by suitably trained personnel only.

Foreseeable misuse
- Transportation of persons and loads
- Discharge of loads not permitted by the system.
- Assembly, use and disassembly in an orientation, position or location not specified or shown in the standard assembly.

The lateral protection system

- is limited to a height of 40 m or a maximum wind speed of 32 m/s (approx. 115 km/h). Up to a construction height of 40 metres, the wind loads in Europe are represented by a velocity pressure of 600 N/m². For greater construction heights, separate verification pursuant to EN 13374 must be provided for temporary lateral protection.
- must not be set up in stormy weather.
- is designed for class A with an inclination of the working plane of max. 10° (18°%).
- The substrate and the selected fastening system must be able to absorb the specified forces (observe the manufacturer's instructions).

Inclination of the working plane max. 10°

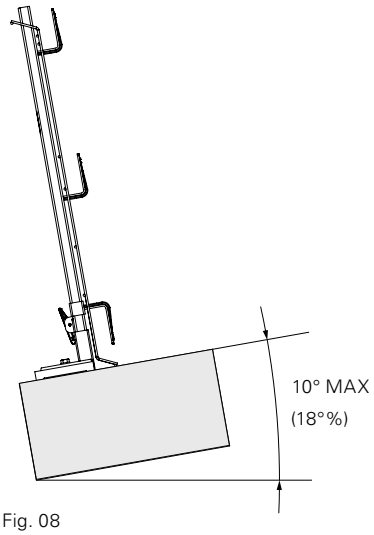


Fig. 08

L_{EB} = Length of influence width
L_A = Post spacing
$L_A \leq L_{EB}$

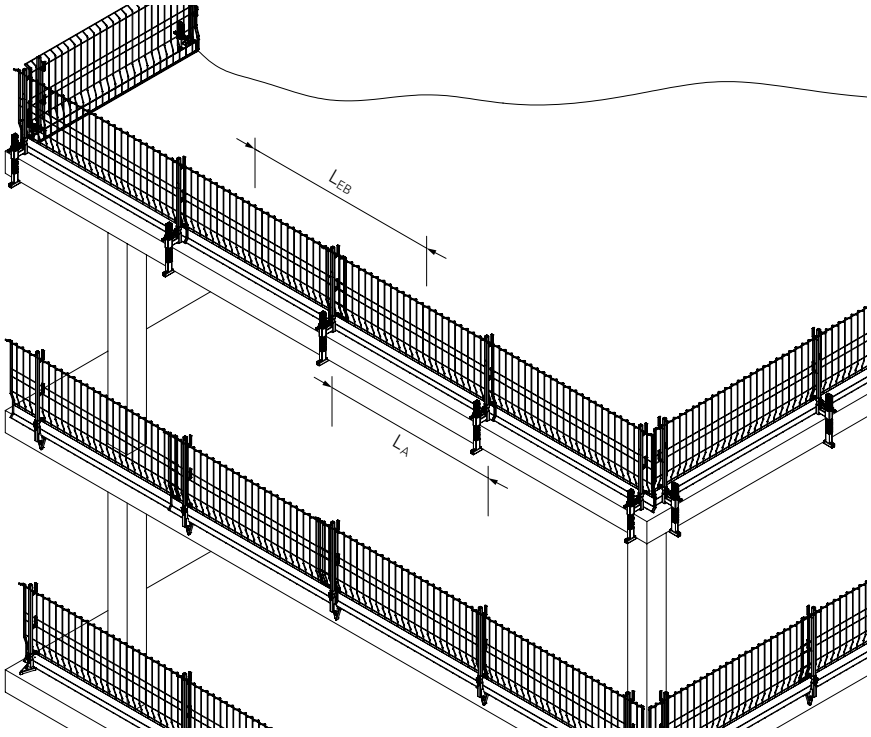


Fig. 09

Cleaning and maintenance instructions

In order to maintain the value and operational readiness of the formwork materials over the long term, clean the panels after each use.

Some repair work may also be inevitable due to the tough working conditions.
Damaged components must be replaced.

The contractor must ensure that the personal protective equipment required for cleaning, maintenance and repair work such as

- Safety helmet,
- Safety shoes,
- Safety gloves,
- Safety goggles,

is available and used as intended.

The following instructions should help to keep cleaning and maintenance costs as low as possible.

Cleaning tools must be adapted to the respective surfaces of the components so that they are not damaged.

Never clean powder-coated components, e.g. elements and accessories, with steel brushes or hard metal scrapers; this preserves the powder coating.
Use spacers for reinforcements with large or flat supports; this largely avoids indentations in the formlining under load.

Mechanical components, e.g. spindles or gear mechanisms, must be cleaned of dirt or concrete residue before and after use, and then greased with a suitable lubricant.

Provide suitable support for the components during cleaning so that no unintentional change in their position is possible.

Do not clean components suspended on crane lifting gear.

Additional technical documentation

- User information for pallets and stacking devices
- Data sheet:
  - Anchor Bolt PERI 14 x 150
  - PERI Screw-On Sleeve M16/164

Instructions for Use

Use in a way not intended, deviating from the standard configuration or the intended use according to the Instructions for Assembly and Use, represents a misapplication with a potential safety risk, e.g. risk of falling.

Only PERI original components may be used. The use of other products and spare parts is not allowed and represents a misapplication with associated safety risks.

Changes to PERI components are not permitted.

The system described in these Instructions for Assembly and Use may contain patent-protected components.

RFID transponder

Individual components are equipped with an RFID transponder. RFID transponders combine hardware with additional software to create a smart product.
Depending on the component and digital solution, you can:

- Call up technical documents.
- View maintenance plans.
- Track information on transport and logistics.

For more information, see "RFID LA-TAG Assembly Set User Information".

Disposal

Carry out disposal in accordance with the relevant national regulations.

Observe the safety data sheets of the auxiliary and operating materials.

Cross-system

Safety instructions apply to all service life phases of the system.

General information
The contractor must ensure that the Instructions for Assembly and Use supplied by PERI are available at all times and understood by the site personnel.

These Instructions for Assembly and Use can be used as the basis for creating a risk assessment. The risk assessment is compiled by the contractor. The Instructions for Assembly and Use are not a substitute for a risk assessment!

Observe and comply with the safety instructions and permissible loads.

For the application and inspection of PERI products, observe the current laws and regulations in force in the respective countries.

Materials and working areas are to be inspected before each use and assembly for:
- damage,
- stability and
- functional integrity.

Damaged components must be exchanged immediately on site and no longer used.

Safety components are to be removed only when they are no longer required.

When on slab formwork, scaffolds and working platforms:
- do not jump,
- do not run,
- do not drop anything from or onto it.

Components provided by the contractor must comply with the characteristics stipulated in these Instructions for Assembly and Use and all applicable laws and standards. Unless otherwise indicated, the following applies in particular:
- Timber components:
  Strength class C24 for solid wood according to DIN EN 338:2016-07.
- Scaffolding tubes:
  Galvanised steel tubes with minimum dimension Ø 48.3 x 3.2 mm according to DIN EN 12811-1:2004-03 4.2.1.2.
- Scaffolding tube couplings:
  according to DIN EN 74-1:2022-09 and DIN EN 74-2:2022-09.

Deviations from the standard configuration are only permitted after a further risk assessment has been carried out by the contractor.

Appropriate measures for working and operational safety, as well as stability, are defined on the basis of this risk assessment.

Corresponding proof of stability can be provided by PERI on request if the risk assessment and resulting measures to be implemented are made available.

Nails and wood screws must not protrude. Only allow other connecting components to protrude to the extent that is necessary.
If necessary, mark protruding components or fit them with protective material.
Secure all bolts with cotter pins and all screws with nuts

The steel/wood or concrete structure must be able to withstand loads in all directions.
Check edge and centre distances and tie points.

Before and after extraordinary events that may have damaging effects on the safety of the system, the contractor must immediately
- produce another risk assessment, the results of which must be used to implement suitable measures to ensure the stability of the system,
- arrange for an extraordinary inspection to be carried out by a competent person qualified to do so. The aim of this inspection is to detect and repair damage in good time in order to ensure safe use of the system.

Exceptional events could be:
- accidents, fire, explosions, collisions,
- long periods of non-use,
- natural events, e.g. heavy rainfall, heavy snowfall, significant icing, storms or earthquakes.

Suitable measures could be:
- removing nets/tarpaulin,
- clearing snow and ice,
- reducing live loads,
- securing loose materials.

Assembly, modification and dismantling work
PERI systems may only be assembled, modified or dismantled under the supervision of a person qualified to do so and by suitably qualified employees. The qualified personnel must have received appropriate training for the work to be carried out with regard to specific risks and dangers.

On the basis of the risk assessment and the Instructions for Assembly and Use, the contractor must create assembly instructions to guarantee safe assembly, modification and dismantling of the PROKIT Safety System.

The contractor must ensure that the personal protective equipment required for the assembly, modification or dismantling of the system, e.g.
- Safety helmet,
- Safety shoes,
- Safety gloves,
- Safety goggles,

is available and used as intended.

For work at a higher level, use an approved ladder or platform system, or an assembly scaffold.

If personal protective equipment against falling from a height (PPE) is required or specified in local regulations, the contractor must determine appropriate attachment points on the basis of the risk assessment.
The PPE to be used to prevent falling is determined by the contractor.

The contractor must provide safe working areas for site personnel which are to be reached via safe access routes.

The contractor must ensure that the following points are observed:
- If necessary, secure single components and assemblies to prevent them from falling, e.g. using ropes.
- Cordon off and signpost danger zones.
- Ensure stability during all construction stages.
- Ensure and demonstrate that all loads that occur are safely transferred.

Use
Every contractor who uses or allows the PERI systems to be used, is responsible for ensuring that the equipment is in good condition.

If the system is used successively or at the same time by several contractors, the health and safety coordinator must point out any possible mutual hazards and all work must then be coordinated.

When systems are used in publicly accessible areas,
- measures to prevent unauthorised use, e.g. enclosure of access areas, must be taken.
- measures are taken against injuries caused by bumping against protruding components, e.g. assembly of protective components.

Always keep the contact surfaces of the system free of dirt, objects, snow and ice.
Close off the system in extreme weather conditions.

System-specific

Risk of falling due to open edges. Serious injuries may occur. Either assemble the PROKIT EP 110 Safety System whilst positioned on a secure working and safety scaffold or wear personal protective equipment to prevent falling (PPE). Specify the PPE attachment points for the specific project.

Safety System
PROKIT EP 110

- before dismantling, install the working scaffolds or working platforms positioned below.
- dismantling takes place only if the facade is closed or the site management has given the go-ahead.
- assembly takes place only if sufficient concrete strength has been achieved.

When working on leading slab edges, observe suitable measures to prevent falling from a height, such as the proper use of personal fall protection equipment (PPE).

Guardrails and toe boards must be mounted so that no horizontal movement is possible nor can they be lifted out vertically.

Openings in front of the grating and the contact area that allow a ball larger than 2 cm to pass through must be sealed off on site.

Openings between the lateral protection system and other structures must not exceed 12 cm horizontally.

If the lateral protection system and its accessories are impacted by a person falling or by falling objects, it may only be used after it has been checked by a qualified person.

Safety during assembly

Safety measures for the standard configuration:

In order to guarantee protection against falling, the contractor must draw up a site-specific risk assessment for the assembly, dismantling and modification of the PROKIT EP 110 – Safety System, as well as its intended use. On the basis of this risk assessment, the contractor must take suitable measures to ensure effective anti-fall protection.

- Comply with national regulations regarding fall heights and anti-fall protection. If the attachment of lateral protection is not possible due to technical reasons, personal protective equipment (PPE) against falling must be used in accordance with its intended purpose.
- Technical and collective safety measures are to be given preference over individual solutions.
- The lateral protection installed must be inspected and approved by a qualified person before commissioning.

Selection of personal protective equipment (PPE) against falling

PPE requirements are as follows:

- It must be suitable for the prevailing conditions at the working area.
- It must provide protection against the risks involved and at the same time ensure that these measures themselves do not lead to any increased risk.
- The chosen PPE against falling must comply with the relevant regulations and codes of practice in the respective country where it is being used.
- The length must be selected such that it is impossible to fall over the edge.

Choice of attachment points

The attachment point requirements are as follows:

- If possible, select overhead attachment points.
- Select the attachment point in such a way that a pendulum fall is prevented.
- The load-bearing capacity of the attachment point, structure or substrate must be sufficient to withstand the forces generated in the event of a fall.
- The attachment point must be able to handle loads in all directions.

Assembly suggestions

For
the PROKIT EP 110 – Safety System:

- As collective anti-fall protection, e.g. assembly from a safe position.
- With a suitable attachment point for the use of personal protective equipment against falling.

Assembly in the event of variations from the standard configuration

- The contractor responsible for installing the lateral protection must carry out a risk analysis.
- Securing measures must be carried out according to the specifications for the standard configuration.
- A qualified person must carry out the acceptance procedure.

Identification marking

Post connections, Post PP and Side Mesh Barrier PMB are marked in accordance with EN 13374 Class A.
(Fig. 11.01 – Fig. 11.01f)
(Fig. 11.02 – Fig. 11.02b)

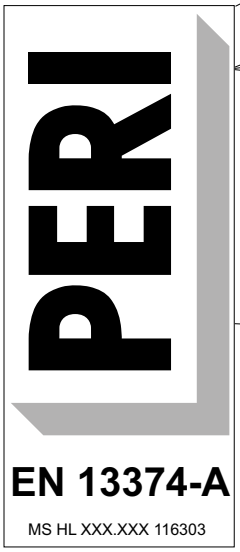


Fig. 11.01

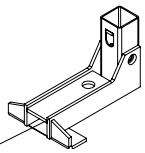


Fig. 11.01a

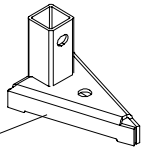


Fig. 11.01b

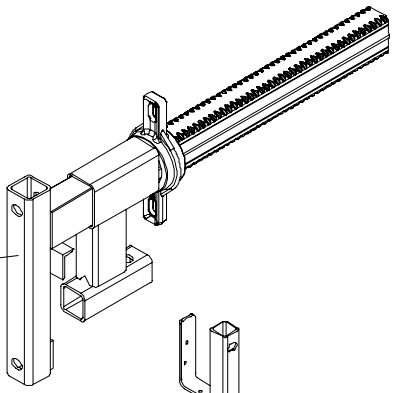


Fig. 11.01d

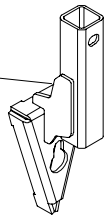


Fig. 11.01c

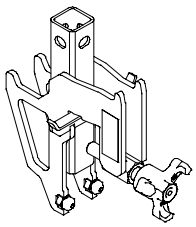


Fig. 11.01g

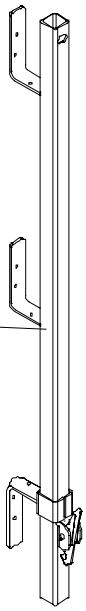


Fig. 11.01e

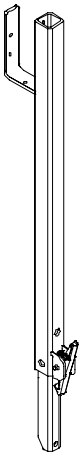


Fig. 11.01f

Fig. 11.02

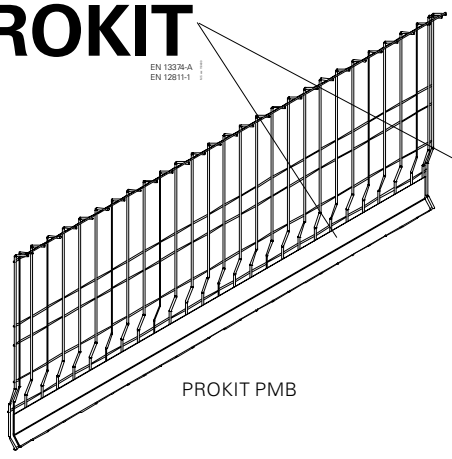


Fig. 11.02a

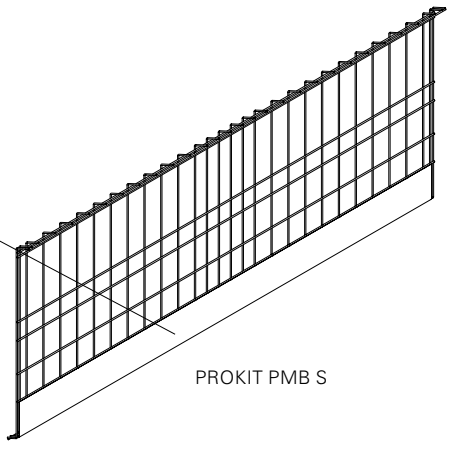


Fig. 11.02b

Inspection and handover

The fully assembled safety system must be inspected and authorised for use by a competent person prior to commissioning.
The contractor who installs the lateral protection is responsible for documenting the approval.

During the hand-over, the contractor responsible for installing the lateral protection must advise the user of the possible risks involved with non-intended use and his obligation to provide adequate prevention against risk and danger!

Post Connection

An appropriate connection must be chosen based on the existing boundary conditions.
Four different connections are available, each with differing characteristics. These are listed in the following table. The connection must be able to transfer the specified forces.

Post connections	Article no.	Design feature is fixed to the lateral protection	Connection type		
			Tie bolt in drilled hole	Screw-On Sleeve M16/164 with metric bolt	Clamp
Foot PROKIT Alpha Std Dual	033750	Concrete slab (top)	x	x	–
Slab Foot PDF	–	Concrete slab (top)	x	x	–
Side Foot PSF	117324	Concrete slab (front side)	x	–	–
Uni Clamp PUC	118660	Concrete slab or parapet	–	–	x
Sheet Piling Clamp PSC	126330	Sheet piling (steel)	–	–	x

Tab. 11.01

Lateral protection

Suitable lateral protection is selected based on the centre distance of the post connections.

Lateral protection		Max. L_A* [cm]
Side Mesh Barrier PMB 260	**Side Mesh Barrier PMB S 260**	240
Side Mesh Barrier PMB 240	**Side Mesh Barrier PMB S 240**	230
Side Mesh Barrier PMB 120	**Side Mesh Barrier PMB S 120**	110
Side Mesh Barrier PMB 90	**Side Mesh Barrier PMB S 90**	80
Guardrails and handrail boards 15 x 3 cm		200

*L_A = Centre distance of the post connections

Tab. 11.02

Storage

- Refer to the user information for pallets and stacking devices.
- Ensure transport units are correctly stacked and secured.
- Pallets and stacked items are to be protected against the effects of the weather, e.g. secured against lifting by means of tension belts.
- Use suitable lifting gear for transport.
- For periods of storage, provide protection against aggressive substances.

PERI recommends the following aids:

Components

9 Crate Pallet 80 x 120, galv.
10 Crate Pallet 80 x 120, painted
11 Pallet EP 110
12 Load-bearing point
13 4-sling lifting gear
17 Pallet PMB S

Crate pallet 80 x 120

(Fig. A1.01)

Permissible load-bearing capacity: 1.5 t

Crane sling angle:≤ 15°
Length of the 4-sling lifting gear:
≥ 3.0 m.

Stack height
4 crate pallets (**9**) on top of each other.

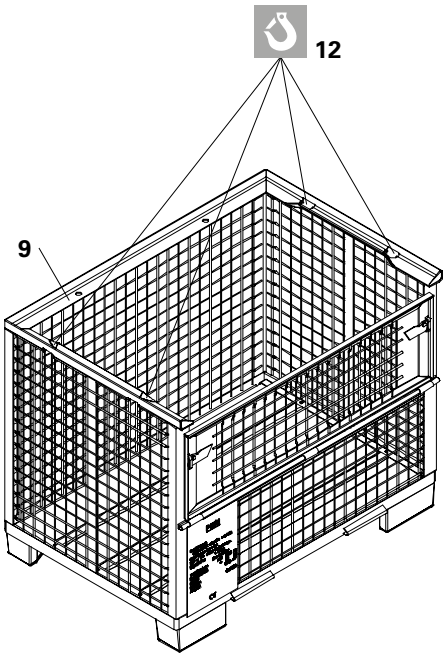


Fig. A1.01

Post connection	Article no.	Qty *
Foot PROKIT Alpha Std Dual	033750	400
Slab Foot PDF	–	544
Side Foot PSF	117324	300
Uni Clamp PUC	118660	70
Sheet Piling Clamp PSC	126330	100

* qty per crate pallet

Tab. A1.01

Pallet EP 110 for Side Mesh Barrier PMB

When forming stacks, align the pallets so that the long sides are side by side.
(Fig. A1.02)

Permissible load-bearing capacity: 600 kg

Crane sling angle
$\beta \leq 15°$
Length of the 4-sling lifting gear:
≥ 3.0 m. (Fig. A1.02a)

Side Mesh Barrier PMB per pallet
Max. 25 pieces.

Stack height
Max. 3 pallets on top of each other in compliance with the stacking instructions; see Instructions for Use for Pallets and Stacking Devices.

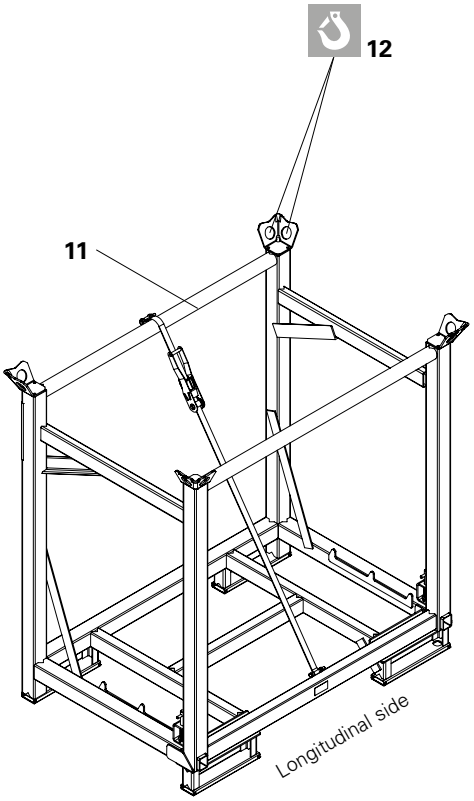


Fig. A1.02

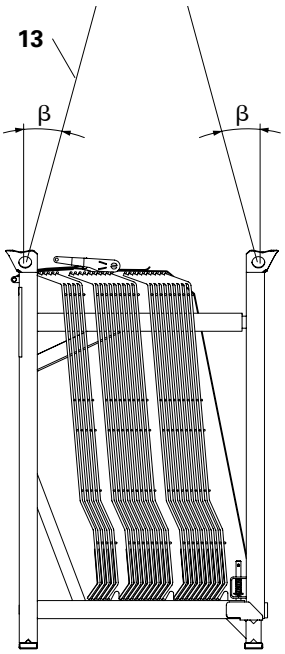


Fig. A1.02a

Stow according to type!
- The maximum pallet load is only achieved by filling it with the same type of goods.
- Mixing Side Mesh Barriers PMB with Side Mesh Barrier PMB S reduces the load capacity.

Transportation

- Use PERI lifting accessories and lifting gear and only those load-bearing points provided on the component.
- Always attach the 4-sling lifting gear to the four load-bearing points (**12**). (Fig. A1.03)
- For transportation, the substrate must have sufficient load-bearing capacity.
- The access areas on the construction site must be free of obstacles and tripping hazards, and must also be slip-resistant.
- Do not drop the components.

When loading onto trucks, ensure that the lashing for the Side Mesh Barrier PMB is both uniform and not too tight.

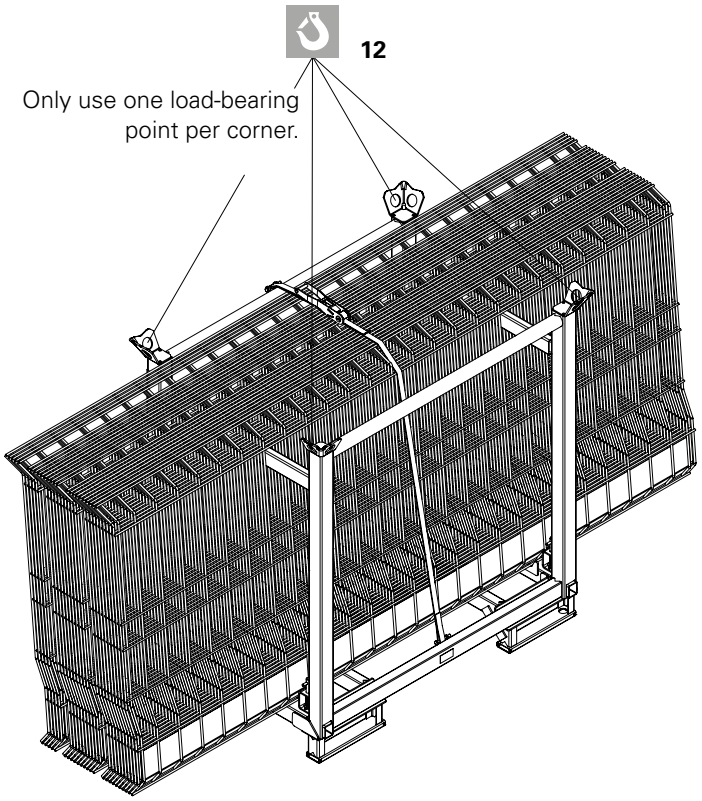


Fig. A1.03

Pallet PMB S for Side Mesh Barrier PMB S

When forming stacks, align the pallets so that the long sides are side by side.
(Fig. A1.04)

Permissible load-bearing capacity: 1,100 kg

Crane sling angle
β ≤ 15°
Length of the 4-sling lifting gear:
≥ 3.0 m. (Fig. A1.04a)

Side Mesh Barrier PMB S per pallet
Max. 55 pieces.

Stack height
Max. 2 pallets on top of each other in compliance with the stacking instructions.

Components

12 Load-bearing point
13 4-sling lifting gear
17 Pallet PMB S
17.1 Stiffening element
17.2 Load securing tube

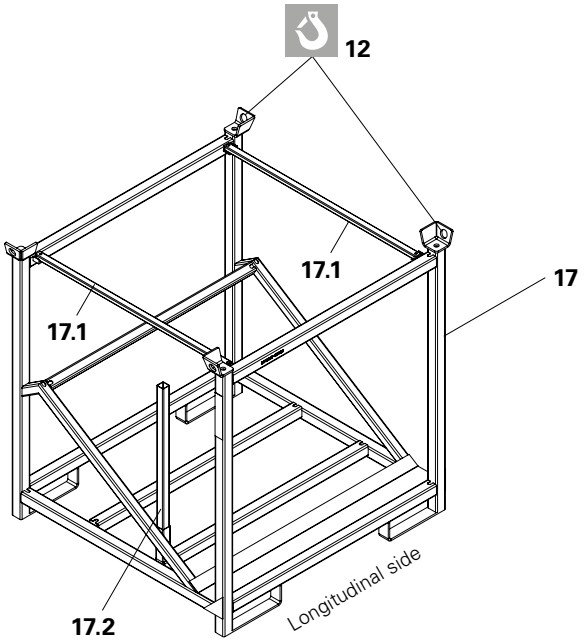


Fig. A1.04

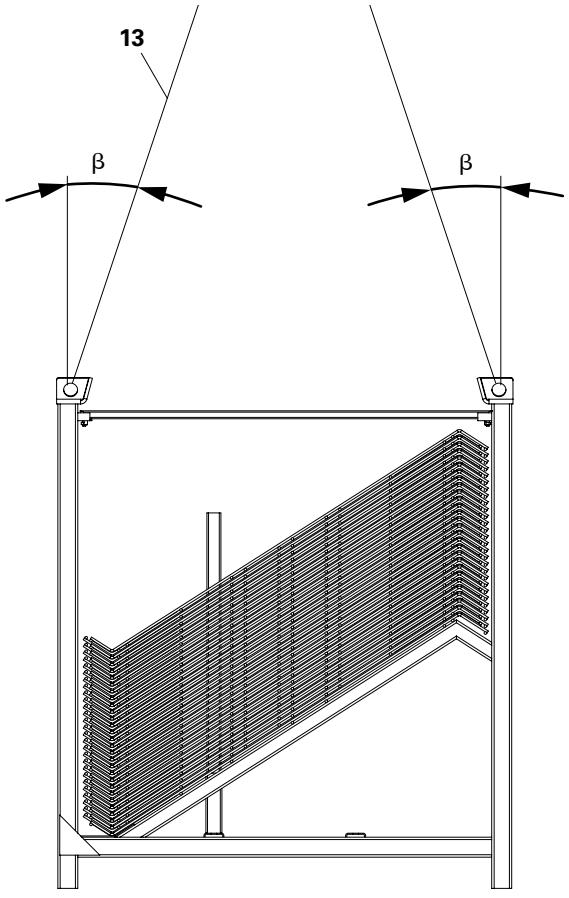


Fig. A1.04a

Stow according to type!
- The maximum pallet load is only achieved by filling it with the same type of goods.
- Mixing Side Mesh Barriers PMB with Side Mesh Barrier PMB S reduces the load capacity.

Stacking
Side Mesh Barriers PMB S

Stacking instructions

To maximise the pallet's capacity, stack the Side Mesh Barrier PMB S rotated by 180° on alternate sides, do not turn them over:

1. Insert the first Side Mesh Barrier PMB S with toe board at the bottom (**7a bottom**).
2. Insert the second Side Mesh Barrier PMB S with toe board at the top (**7a top**).

(Fig. A1.05 - Fig. A1.06a)

3. Insert further Side Mesh Barriers PMB S as described above, first inserting the toe board at the bottom, then the toe board at the top alternately.

(Fig. A1.05 - Fig. A1.06a)

→ This is how the maximum capacity is achieved.

4. Insert load securing tube (**17.2**).
5. Insert stiffening elements (**17.1**).

(Fig. A1.07 + Fig. A1.06)

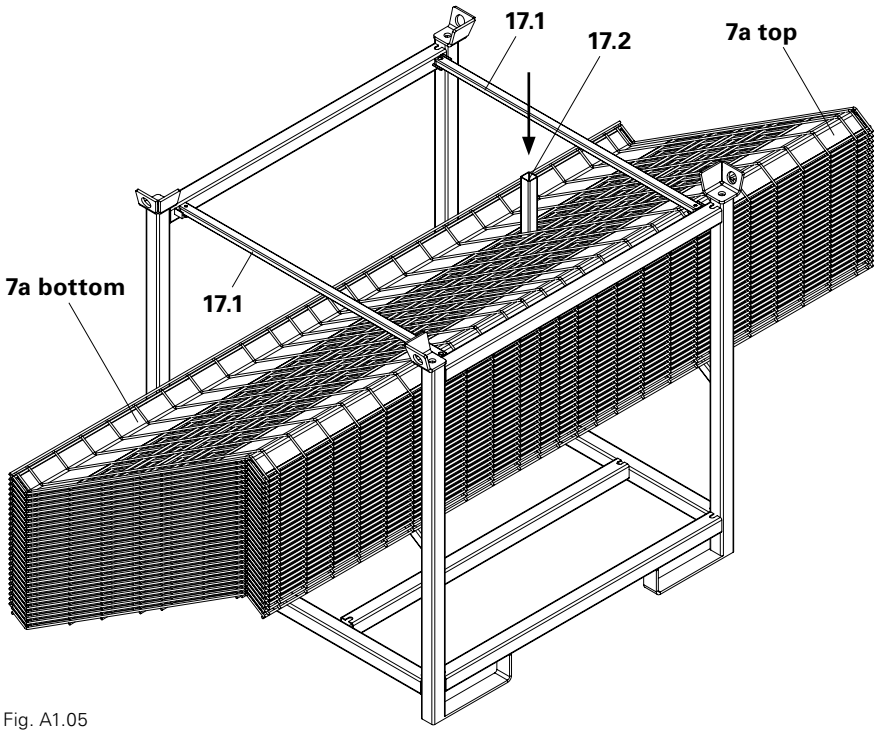


Fig. A1.05

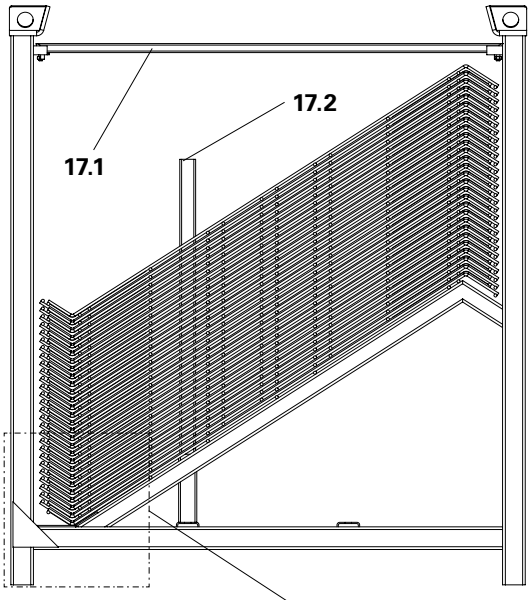


Fig. A1.06

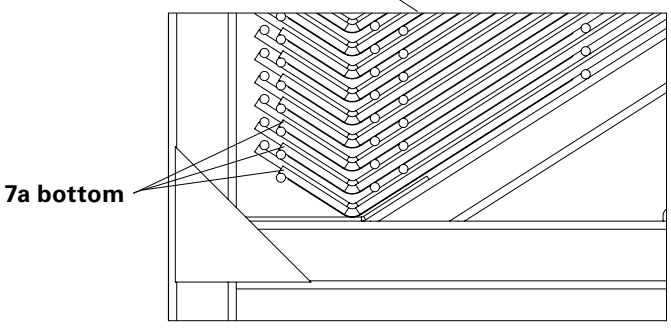


Fig. A1.06a

Transportation

- Use PERI lifting accessories and lifting gear and only those load-bearing points provided on the component.
- Always attach the 4-sling lifting gear (**13**) to the four load-bearing points (**12**).

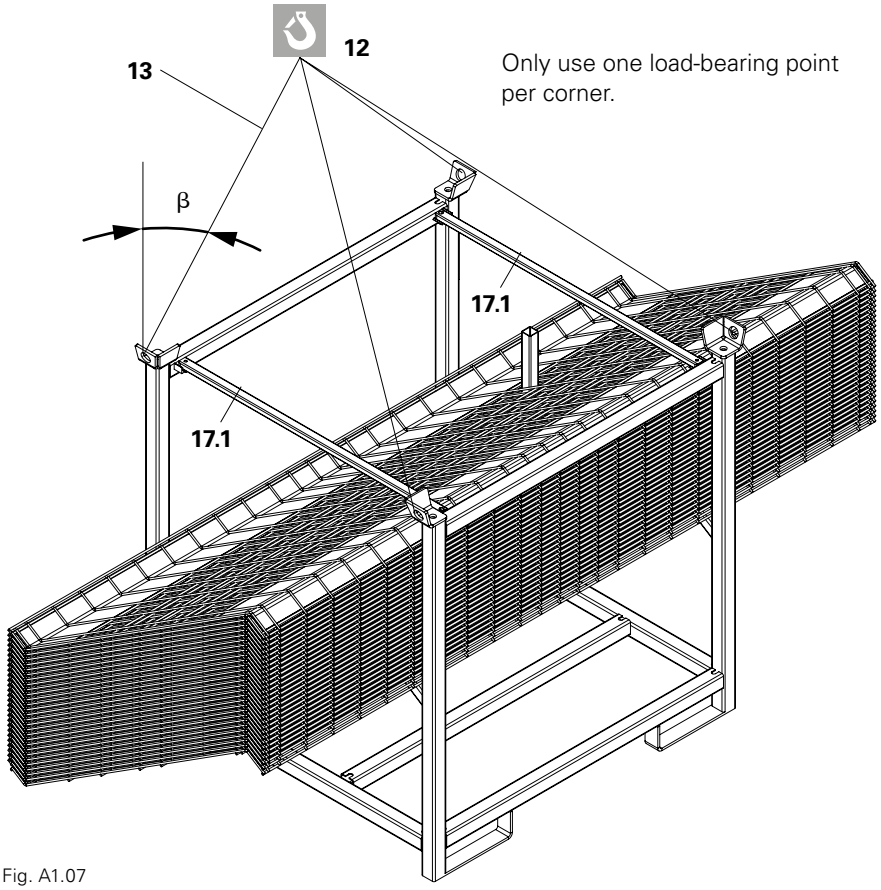
(Fig. A1.07)

- The maximum angle of inclination of the sling chain is $\beta \leq 15°$.
- For transportation, the substrate must have sufficient load-bearing capacity.
- The access areas on the construction site must be free of obstacles and tripping hazards, and must also be slip-resistant.
- Do not drop the components.

When loading onto trucks, only attach lashing straps in the area of the stiffening elements (**17.1**).

Do not stack the Pallet PMB S for transport!

- Is the pallet evenly and firmly lashed down with the Side Mesh Barrier PMB S?
- Is the load securing tube (**17.2**) inserted?
- Are the stiffening elements (**17.1**) inserted?



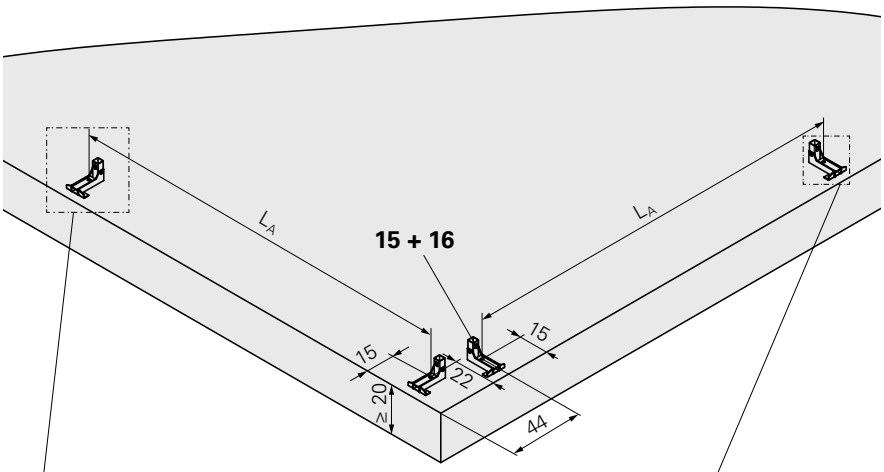
Only use one load-bearing point per corner.

Fig. A1.07

Foot PROKIT Alpha Std Dual
(alternatively, Slab Foot PDF)

The slab foot is mounted on the concrete slab and serves to support the post used for installing the lateral protection.

- Slab thickness: ≥ 20 cm.
- Determine the number and spacing of the slab feet for the specific project.
- Determine the centre distance L_A as a function of the length of the side mesh barrier and the permissible influence width L_{EB} (see Tab. A2.01) and Section "Selection" on page 17.
- Fixing with tie bolt (**5**) (Fig. A2.01a):
  → Take into consideration the data sheet for PERI Anchor Bolt 14 x 150, see Section "Additional technical documentation" on page 9
- Alternative fixing with screw-on sleeve (**15**) and hexagon bolt M16x130 (**16**) (Fig. A2.01b + Fig. A2.01c):
  → Observe the data sheet for the Screw-On Sleeve PERI M16/164, see Section "Additional technical documentation" on page 9.
- The system must be able to transfer the specified forces (observe manufacturer's information).



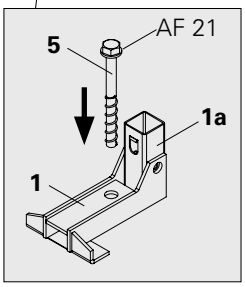


Fig. A2.01a

Fig. A2.01

Alternative fixing 15 + 16

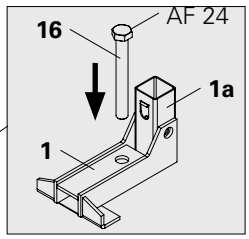


Fig. A2.01b

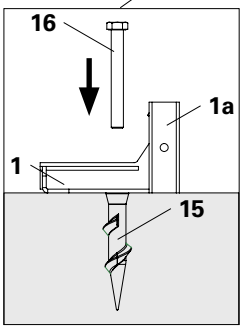


Fig. A2.01c

Components

1	Foot PROKIT Alpha Std Dual (alternatively, Slab Foot PDF)
1a	Rectangular tube
5	Tie bolt
6	Post PP
7	Side mesh barrier
15	Screw-On Sleeve M16/164 (alternative)
16	Hexagon bolt M16x130 (alternative)

alternative
Slab Foot PDF possible

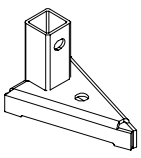


Fig. A2.01d

- Instead of drilling a hole for the tie bolt, the Screw-On Sleeve M16/164 (**15**) can be screwed into the concrete slab immediately after concreting (observe spacing dimensions).
- After the concrete has set, fix the slab foot in the screw-on sleeve using the hexagon bolt M16 (**16**).

A2 Post connections

Mounting the slab foot with a tie bolt:

1. Drill hole – Ø 14 mm – for the tie bolt (**5**). Observe the dimension L_A, see Section "Selection" on page 17. (Fig. A2.01)
2. Place the slab foot (**1**) on the concrete slab and fix using the tie bolt (**5**). (Fig. A2.01a)
3. Insert post (**6**) into rectangular tube (**1a**), see Section "A3 Post" on page 33.
4. Fit the side mesh barrier (**7**), see Section "A4 Lateral protection" on page 35.

(Fig. A2.02)

Alternatively: Fit the slab foot with screw-on sleeve:

1. For installation dimensions, see the data sheet for the Screw-On Sleeve M16/164, and observe dimension L_A, see Section "Selection" on page 17. (Fig. A2.01)
2. Screw the screw-on sleeve (**15**) into the concrete slab immediately after concreting.
3. Once the concrete has hardened, place the slab foot (**1**) over the screw-on sleeve (**15**) and fasten with hexagon bolt M16 (**16**). (Fig. A2.01b + Fig. A2.01c)
4. Carry out further installation steps as described above under 3. and 4.

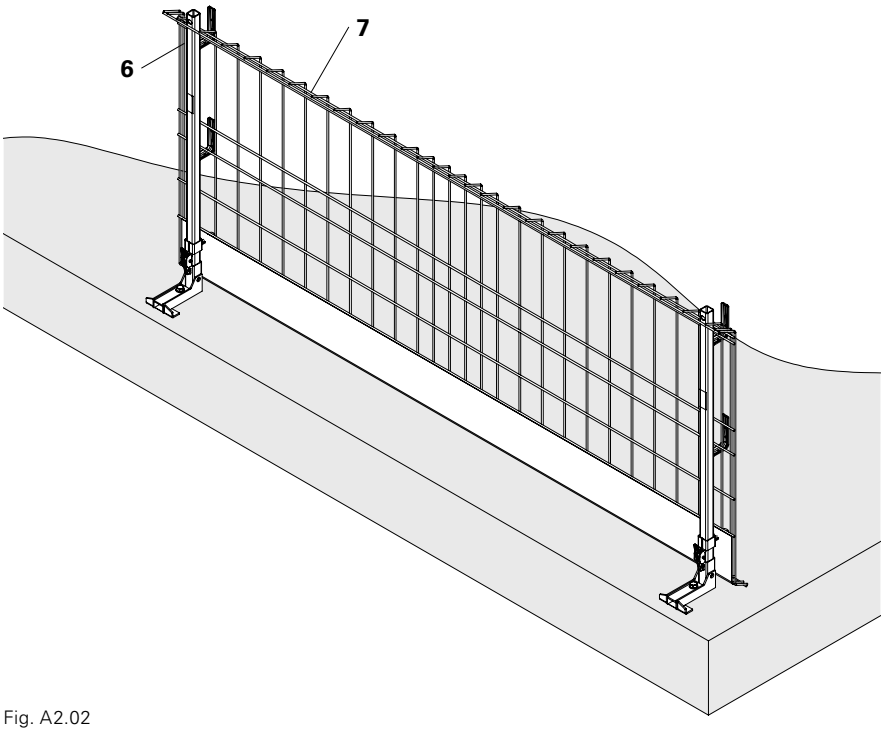


Fig. A2.02

Designations:

- Influence width L_{EB} [m] = wind load acting on a post (from centre of side mesh barrier - post - to centre of side mesh barrier) $L_A < L_{EB}$.
- Tie force [kN] = Maximum force acting on the tie (tie bolt).

Tie forces for Foot PROKIT Alpha Std Dual depending on L_{EB}

Lateral protection consisting of:	Wooden rails	Side Mesh Barrier PMB/PMB S	Post Extension PPE Side mesh barrier
Length of influence width L_{EB} [m]	2.0	2.4	1.6
Tie force [kN]	11	5.5	12.5

Tab. A2.01

Tie forces for alternative Slab Foot PDF depending on L_{EB}

Lateral protection consisting of:	Wooden rails	Side Mesh Barrier PMB/PMB S	Post Extension PPE Side mesh barrier
Length of influence width L_{EB} [m]	2.0	2.4	1.2
Tie force [kN]	11	5.4	11.5

Tab. A2.02

Side Foot PSF

The side foot is mounted on the front side of the concrete slab or on a wall and serves to support the post used for installing the lateral protection.

- Slab thickness: ≥ 30 cm.
- Determine the number and spacing of the side feet for the specific project.
- Determine the centre distance L_A as a function of the length of the side mesh barrier and the permissible influence width L_{EB} (see Tab. A2.03) and Section "Selection" on page 17.
- Take into consideration the data sheet for PERI Anchor Bolt 14 x 150, see Section "Additional technical documentation" on page 9
- The system must be able to transfer the specified forces (observe manufacturer's information).

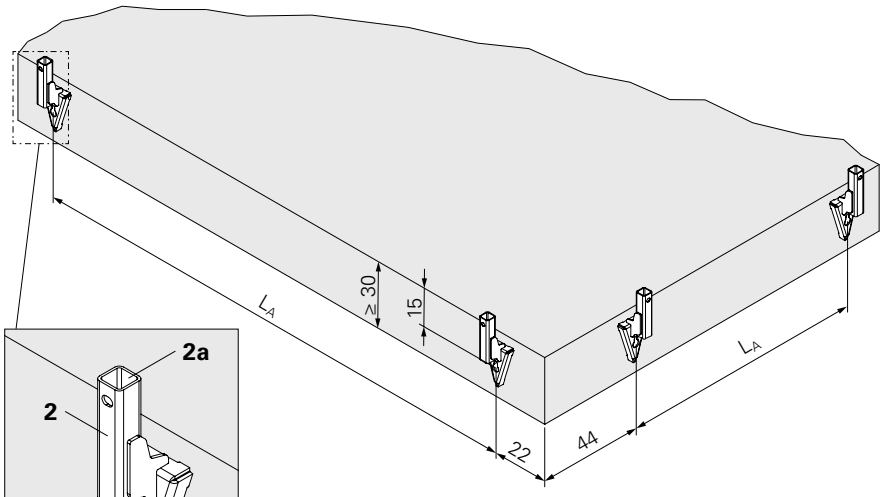


Fig. A2.03

Fig. A2.03a

Components

2 Side Foot PSF
2a Rectangular tube
5 Tie bolt
6 Post PP
7 Side mesh barrier

Fitting the side foot

1. Drill hole – Ø 14 mm – for the tie bolt (**5**). Take into consideration dimension L_A, see section Selection.

(Fig. A2.03)

2. Fix the side foot (**2**) with the tie bolt (**5**). (Fig. A2.03a)
3. Push the side foot down and tighten the tie bolt.
4. Insert post (**6**) into rectangular tube (**2a**), see Section "A3 Post" on page 33.
5. Fit the side mesh barrier (**7**), see Section "A4 Lateral protection" on page 35.

(Fig. A2.04)

- For different ways to install the side mesh barriers, see Section "A4 Lateral protection" on page 36.
- Openings > 2 cm in the toe board area must be sealed off.

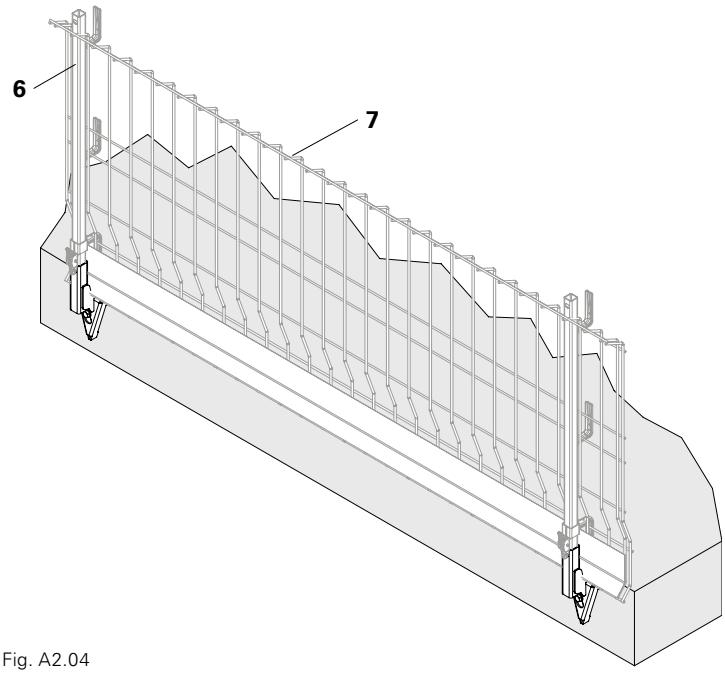


Fig. A2.04

Designations:

- Influence width L_{EB} [m] = wind load acting on a post (from centre of side mesh barrier - post - to centre of side mesh barrier) $L_A < L_{EB}$.
- Tie force [kN] = Maximum force acting on the tie (tie bolt).

Tie forces as a function of L_{EB}

Lateral protection consisting of:	Wooden rails	Side Mesh Barrier PMB/PMB S	Post Extension PPE Side mesh barrier
Length of influence width L_{EB} [m]	2.0	2.4	1.2
Tie force [kN]	13	6.5	13

Tab. A2.03

Uni Clamp PUC

The Uni Clamp PUC is clamped on the concrete slab or concrete parapet and serves to support the post used for installing the lateral protection.

- Slab or parapet thickness: ≤ 45 cm. (Fig. A2.05b)
- Determine the number and spacing of the uni clamps for the specific project.
- Determine the centre distance L_A as a function of the length L of the side mesh barrier and the permissible influence width L_{EB} (see Tab. A2.04) and Section "Selection" on page 17. (Fig. A2.05)
- To achieve the required tightening torque, use a 2 kg sledgehammer!
- The system must be able to transfer the specified forces (observe manufacturer's information).

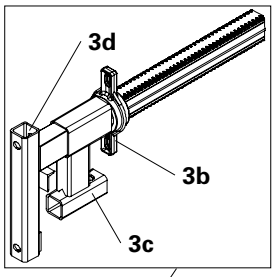


Fig. A2.05a

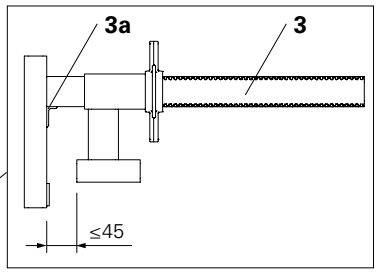


Fig. A2.05b

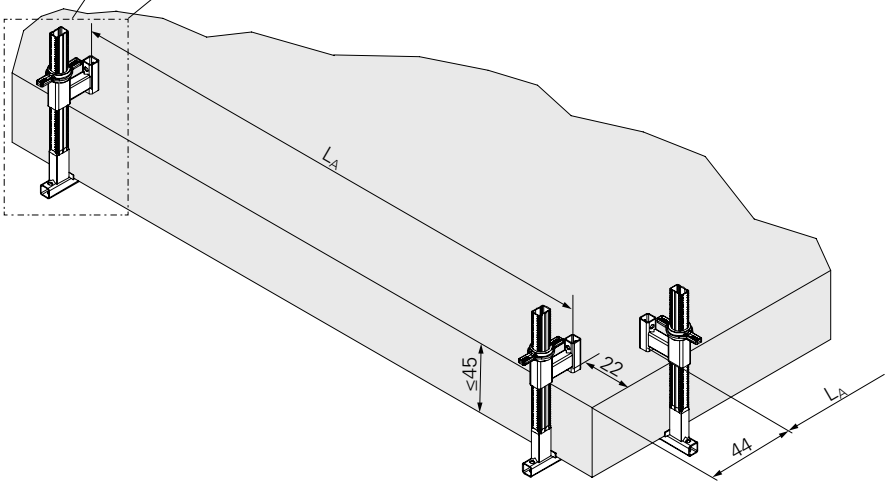


Fig. A2.05

Components

3 Uni Clamp PUC
3a Support bracket
3b Quick jack nut
3c Rectangular tube – Concrete slab
3d Rectangular tube – Concrete parapet
6 Post PP
7 Side mesh barrier

Designations:

- Influence width L_{EB} [m] = wind load acting on a post (from centre of side mesh barrier - post - to centre of side mesh barrier) $L_A < L_{EB}$.
- Tie force [kN] = Maximum force acting on the tie (tie bolt).

Tie forces as a function of L_{EB}

Lateral protection consisting of:	Wooden rails	Side Mesh Barrier PMB/PMB S	Post Extension PPE Side mesh barrier
Length of influence width L_{EB} [m]	2	2.4	1.2

Tab. A2.04

A2 Post connections

Fitting the Uni Clamp PUC

1. Push the Uni Clamp PUC (**3**) over the structure. Ensure that the support bracket (**3a**) is resting against the edge of the slab or parapet.
2. Turn the quick jack nut (**3b**) clockwise and tighten with a hammer (sledgehammer with 2 kg weight).
   → The Uni Clamp PUC is securely clamped to the slab or parapet.
3. Insert the post (**6**) into the rectangular tube of the Uni Clamp PUC, for
   – Slab: rectangular tube (**3c**), (Fig. A2.06)
   – Parapet: rectangular tube (**3d**), (Fig. A2.07)
   see Section A3.
4. Fit the side mesh barrier (**7**), see Section “A4 Lateral protection” on page 35.

(Fig. A2.08)

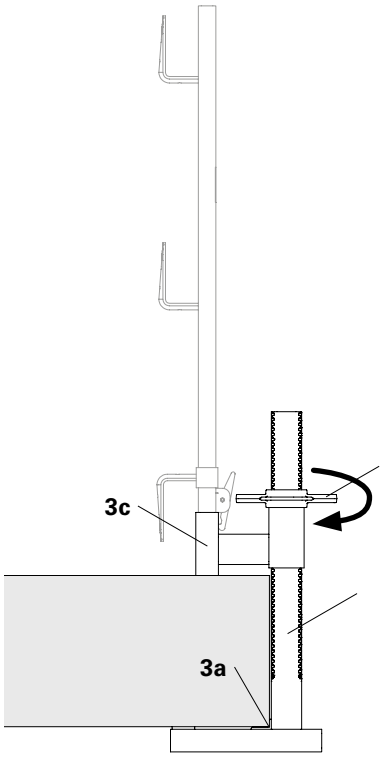


Fig. A2.06

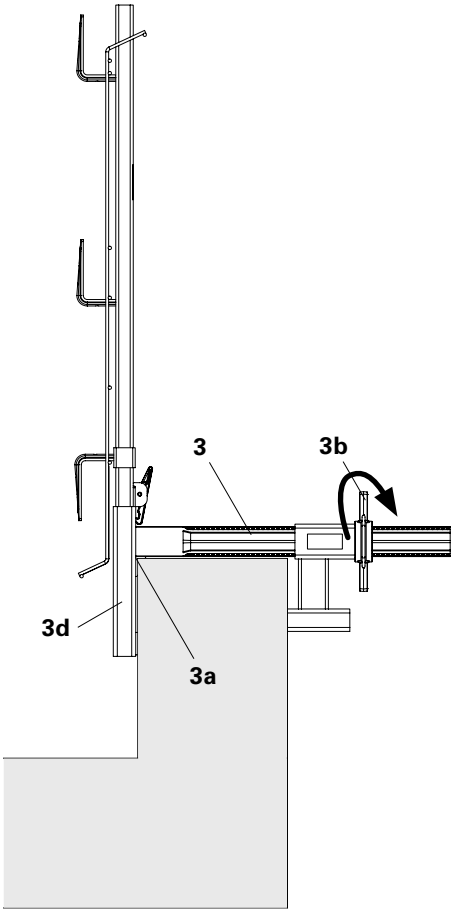


Fig. A2.07

Shown here: Uni Clamp PUC, Post PP and side mesh barrier secured to the concrete slab.
(Fig. A2.08)

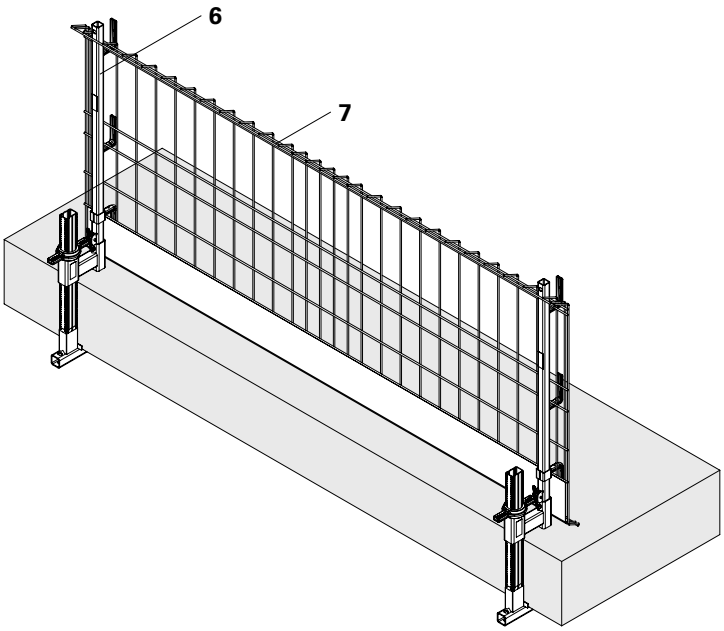


Fig. A2.08

Sheet Piling Clamp PSC

The Sheet Piling Clamp PSC (**4**) is simply clamped to the sheet piling or a steel beam - no holes need to be drilled.

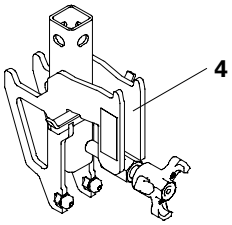


Fig. A2.09

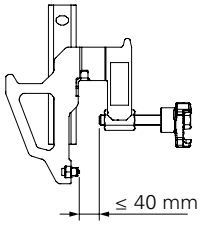


Fig. A2.09a

Fitting to sheet piling

- Sheet piling thickness: ≤ 40 mm. (Fig. A2.09a)
- Centre distance L_A depends on the length of the side mesh barrier, see section Selection. (Fig. A2.10)
- Support surface of the sheet piling: ≥ 13 cm. (Fig. A2.10)

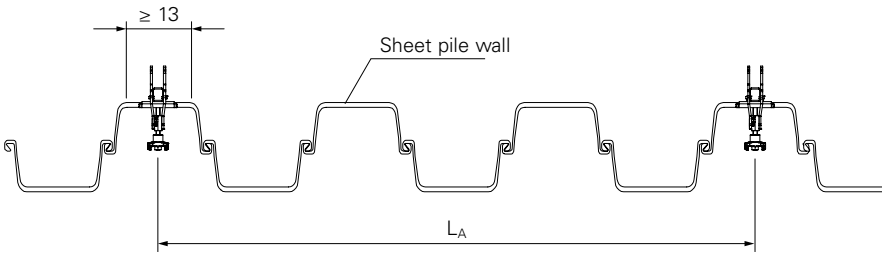


Fig. A2.10

Structural arrangements

- Variant 1

1. Fit the three-winged nut (**4b**) in the direction of the lower level. (Fig. A2.11)
2. Projection of the sheet piling above the ground: ≥ 18 cm.

- Variant 2

1. Fit the three-winged nut (**4b**) in the direction of the higher level. (Fig. A2.12)
2. Projection of the sheet piling above the ground: ≥ 15 cm.

Do not combine variants 1 and 2.

Variant 1

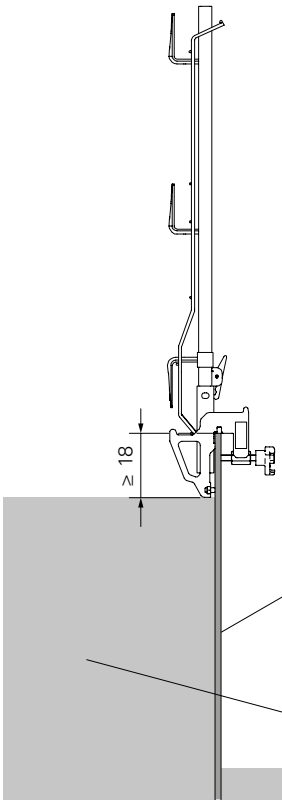


Fig. A2.11

Variant 2

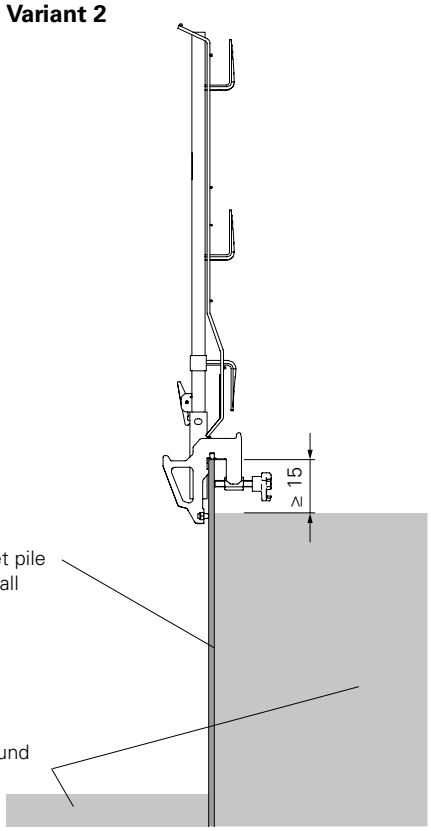


Fig. A2.12

Components

4 Sheet Piling Clamp PSC
4a Rectangular tube
4b Three-winged nut
4c Carbide mandrel
4d Lateral support areas
6 Post PP
7 Side mesh barrier

Fitting the sheet piling clamp

1. Slide the sheet piling clamp (**4**) over the sheet piling.
(Fig. A2.13 + Fig. A2.13a)
2. Turn the three-winged nut (**4b**) clockwise and tighten with a hammer.
   → Make sure that
   – the hard metal mandrels (**4c**) are in contact with the sheet piling.
   – the lateral support areas (**4d**) are in contact with the sheet piling at the top.
(Fig. A2.14 + Fig. A2.14a)
   → The sheet piling clamp is tightly clamped to the sheet piling.
3. Insert the post (**6**) into the rectangular tube of the sheet piling clamp, see Section “A3 Post” on page 33.
4. Fit the side mesh barrier, see Section “A4 Lateral protection” on page 35.
(Fig. A2.15)

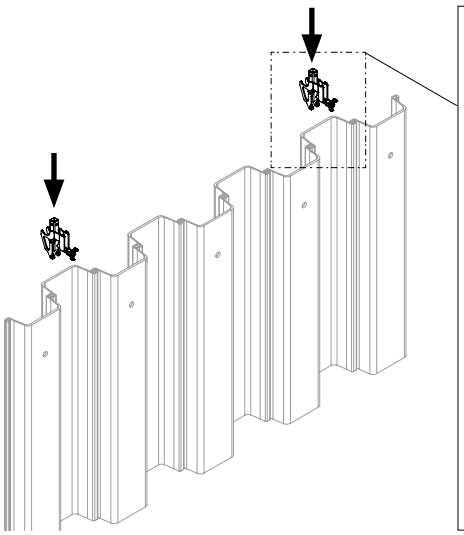


Fig. A2.13

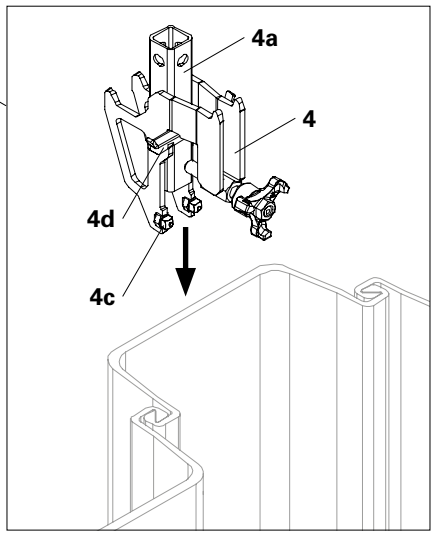


Fig. A2.13a

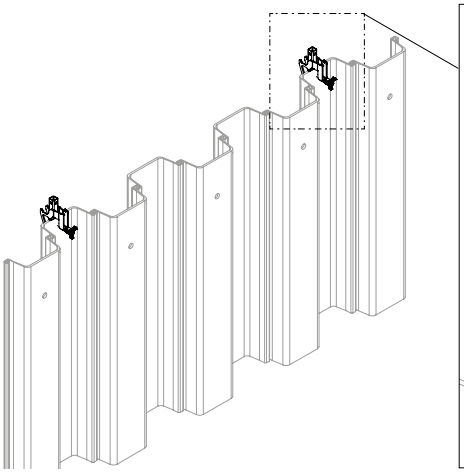


Fig. A2.14

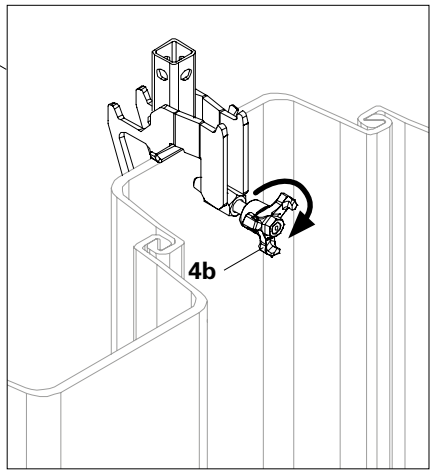


Fig. A2.14a

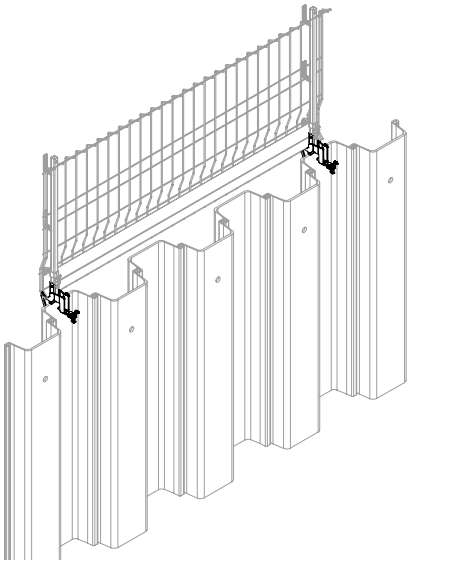


Fig. A2.15

Installation on steel girders

Fit the sheet piling clamp on vertical steel girders.
(Fig. A2.17)

Conditions:
- Steel girder has 2 flanges on each side.
- Web height: ≥ 16 cm.

(Fig. A2.16)

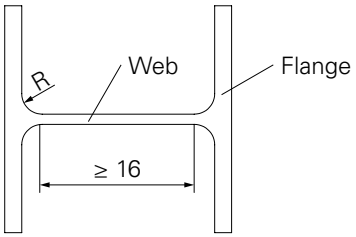


Fig. A2.16

Fix the sheet piling clamp to the web of the steel girder, see previous page.

Fitting the sheet piling clamp

1. Slide the sheet piling clamp (**4**) over the sheet piling.
2. Turn the three-winged nut (**4b**) clockwise and tighten with a hammer.
   → Make sure that
   – the hard metal mandrels (**4c**) are in contact with the sheet piling.
   – the lateral support areas (**4d**) are in contact with the sheet piling at the top.
   → The sheet piling clamp is tightly clamped to the sheet piling.
3. Insert the post (**6**) into the rectangular tube of the sheet piling clamp, see Section “A3 Post” on page 33.
4. Fit the side mesh barrier, see Section “A4 Lateral protection” on page 35.

(Fig. A2.17)

Do not fasten the sheet piling clamp to the
flanges of the steel girder.

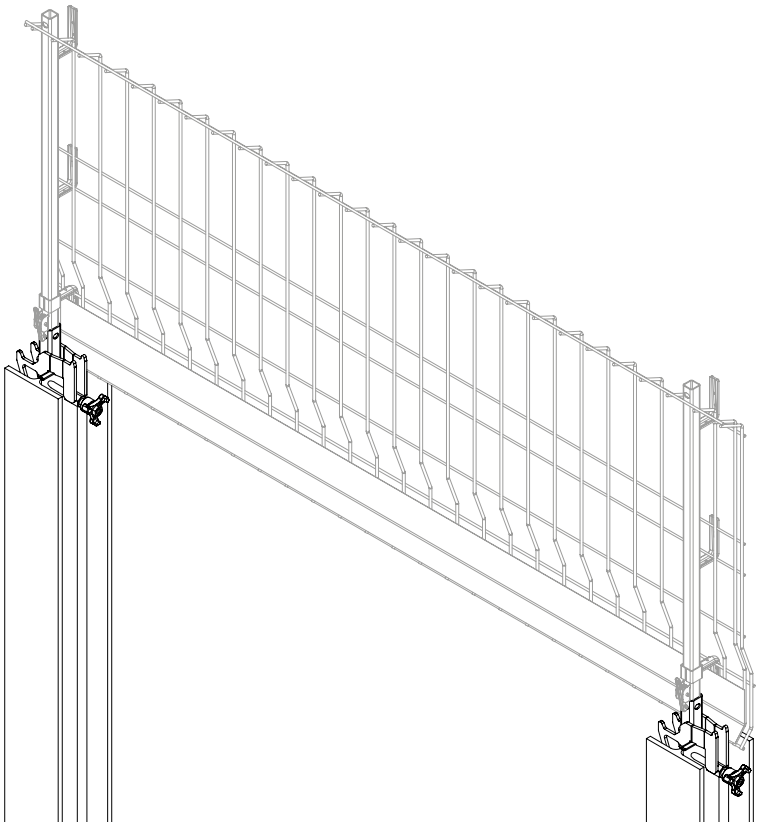


Fig. A2.17

Post PP

The Post PP is inserted into the rectangular tube of the post connection and secured by means of the securing hook.

Check the function of the securing hook on the Post PP.

Components

1a Rectangular tube
6 Post PP
6a L-bracket
6b Toe board holder
6c Securing hook
7 Side mesh barrier

Assembly

Insert the post (**6**) in the rectangular tube (**1a**) of the post connection, e.g. the slab foot. (Fig. A3.01 + Fig. A3.02)
→ The securing hook (**6c**) engages in the slot of the rectangular tube (**1a**) and secures the post. (Fig. A3.02a)

Is the securing hook (**6c**) engaged in the slot of the rectangular tube (**1a**)? (Fig. A3.02a)

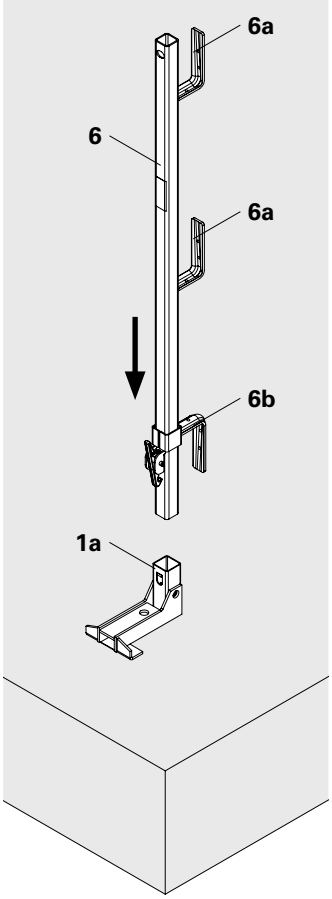


Fig. A3.01

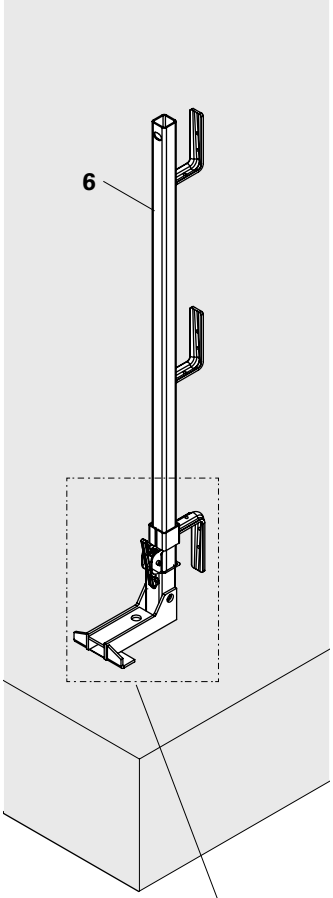


Fig. A3.02

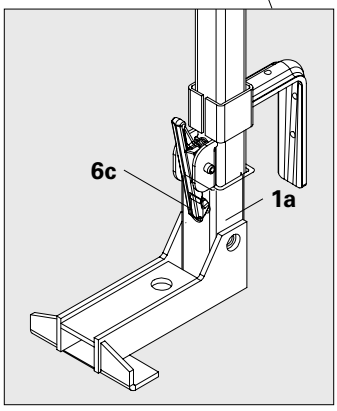


Fig. A3.02a

Side Mesh Barrier PMB

Fall edges are secured with the Side Mesh Barrier PMB.
The Side Mesh Barrier PMB/PMB S is available in 4 lengths.

The max. centre distance L_A depends on the length L of the side mesh barrier, see Table.

Side Mesh Barrier 260 (**7.1**) shown. (Fig. A4.01)

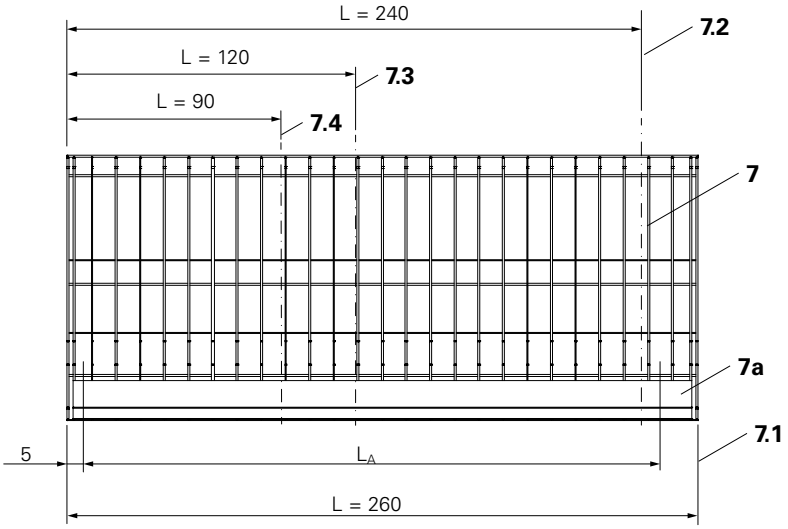


Fig. A4.01

Pos.	Side mesh barrier		Max. L_A* [cm]
7.1	PMB 260	PMB S 260	240
7.2	PMB 240	PMB S 240	230
7.3	PMB 120	PMB S 120	110
7.4	PMB 90	PMB S 90	80

* L_A = spacing of the post and post connections

Tab. A4.01

It is possible to overlap the Side Mesh Barriers PMB/PMB S (**7**) in a line, i.e. two Side Mesh Barriers PMB/PMB S (**7**) are attached to one post (**6**).
It is possible to combine different side mesh barriers, see Section "A7 Combining Side Mesh Barriers PMB and PMB S" on page 41.
(Fig. A4.02 + Fig. A4.03)

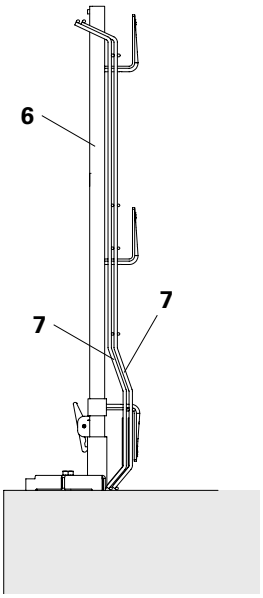


Fig. A4.02

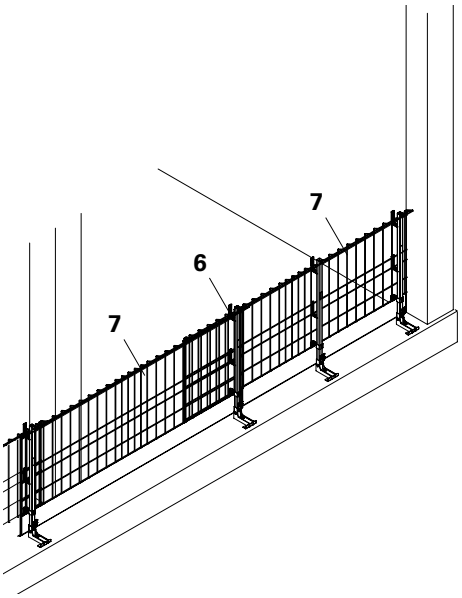


Fig. A4.03

The side mesh barrier is installed starting from the building side

Components

6 Post PP
6a L-bracket
6b Toe board holder
7 Side mesh barrier
7a Toe board

Assembling the side mesh barrier

1. Hook the side mesh barrier (**7**) into the L-brackets (**6a**).
   → The toe board (**7a**) is in contact. (Fig. A4.04 + Fig. A4.08)
2. Slide the lower toe board holder (**6b**) approx. 15 cm upwards.
3. Slide the toe board (**7a**) towards the post (**6**). (Fig. A4.05 + Fig. A4.09)
4. Slide the toe board holder downwards over the toe board.
   → The side mesh barrier is secured with toe board holder. (Fig. A4.06 + Fig. A4.09)

Side Mesh Barrier PMB

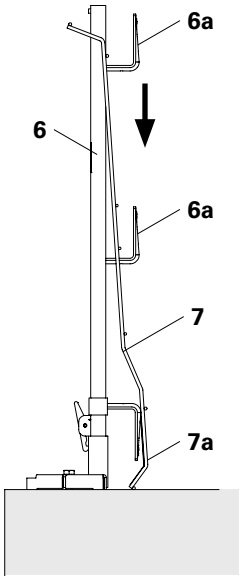


Fig. A4.04

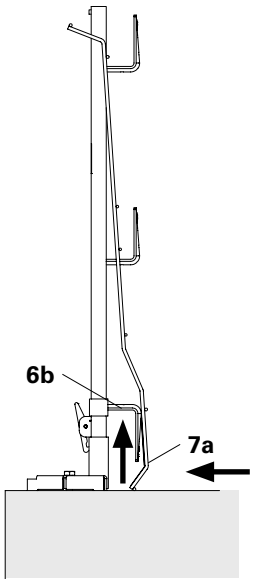


Fig. A4.05

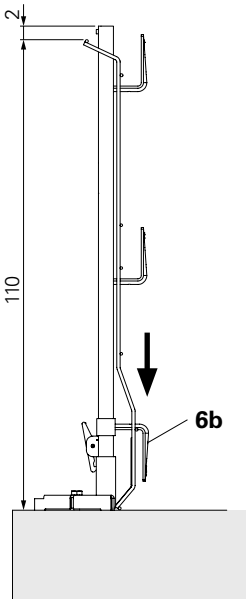


Fig. A4.06

Side Mesh Barrier PMB S

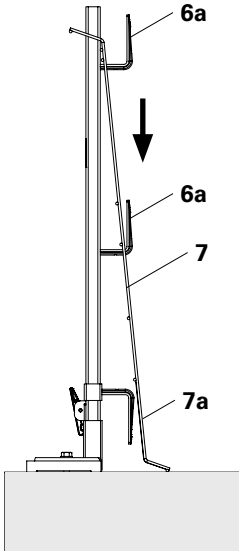


Fig. A4.07

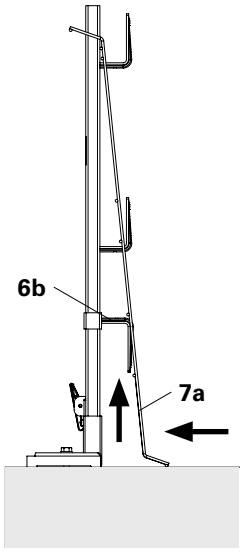


Fig. A4.08

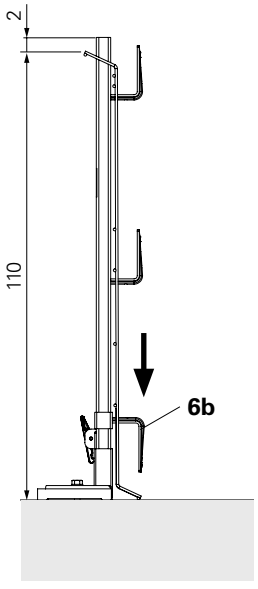


Fig. A4.09

The side mesh barrier is installed starting from the front side

- Attach the side feet to the front of the concrete slab or wall.
- Openings > 2 cm in the toe board area must be sealed off.

Assembling the side mesh barrier

1. Hook the side mesh barrier (**7**) into the L-brackets (**6a**).
   → The toe board (**7a**) is in contact.
2. Slide the lower toe board holder (**6b**) approx. 15 cm upwards.
3. Slide the toe board (**7a**) towards the post (**6**).
4. Slide the toe board holder (**6b**) downwards over the toe board (**7a**).
   → The side mesh barrier is secured with toe board holder.
   → The toe board holder presses the side mesh barrier against the concrete slab.
   (Fig. A4.10 + Fig. A4.10a)

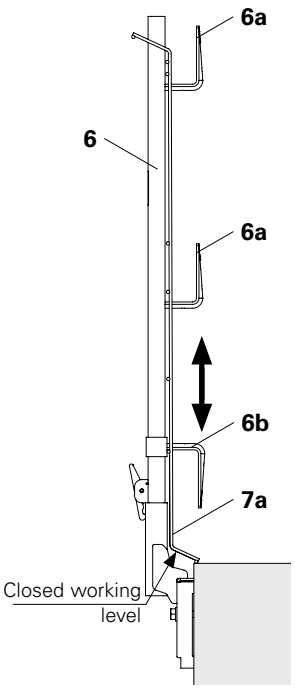


Fig. A4.10

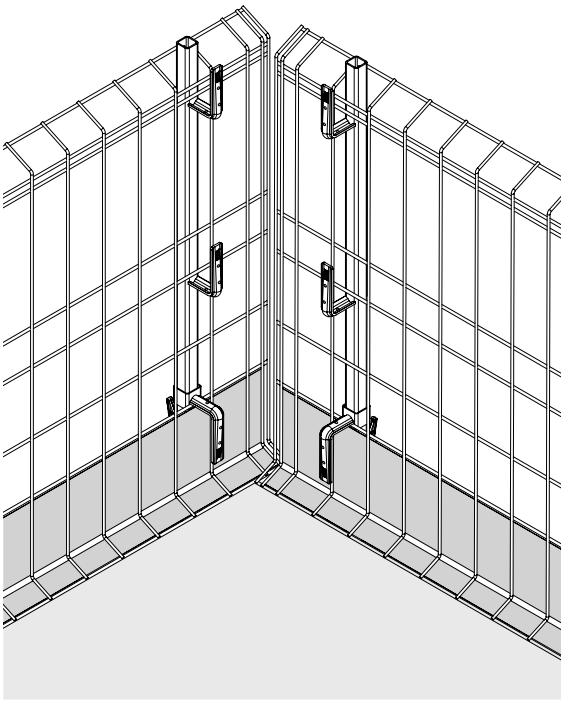


Fig. A4.10a

Guardrails and toe boards

As an alternative to the Side Mesh Barrier PMB/PMB S, 15 x 3 cm boards can also be mounted as lateral protection.

Max. post spacing of L_A*with boards 15 x 3 cm: 200 cm

* L_A = spacing of the post and post connections

Mounting the handrail boards

1. On both sides, place the board in the upper L-brackets (**6a**).
2. On both sides, place the board in the L-brackets (**6a**) in the centre of the post.
3. Push the toe board holder (**6b**) of the post approx. 15 cm upwards.
4. Place the board at the bottom of the post.
5. Slide the toe board holder down over the board.
   → The toe board holder grips the board and holds it in position.
6. Fasten the boards to the L-brackets and toe board holders with nails.

(Fig. A4.11)

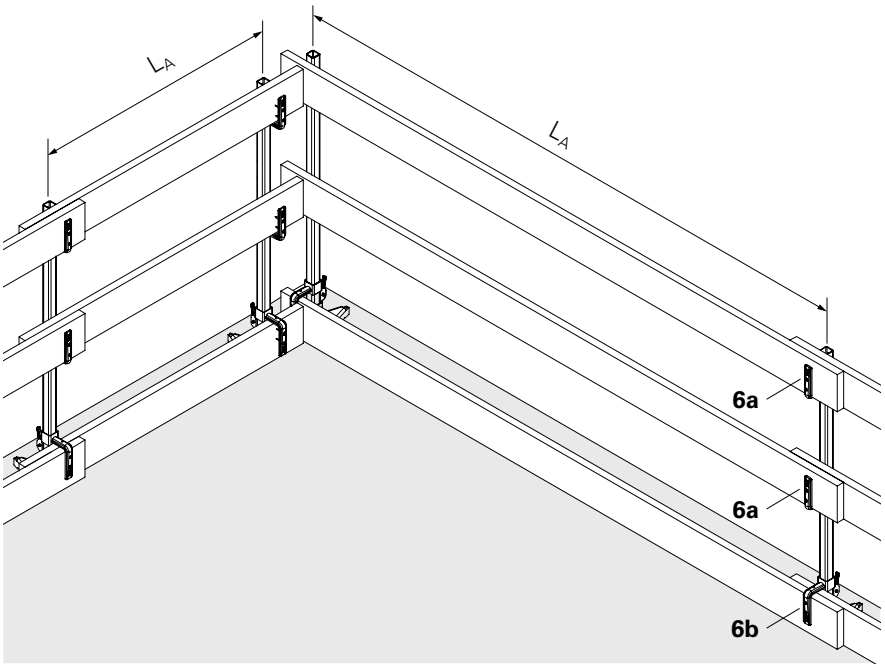


Fig. A4.11

A5 Increasing the height of the lateral protection

Post Extension PPE

For project-specific requirements the Post PP can be extended using the Post Extension PPE.
The post extension increases the height of the lateral protection from 1.10 m to 1.75 m.

Warning

The post extension is not to be used for working areas at great heights.
Working level = upper edge of concrete slab.
The post extension is only permitted for use with Prokit Side Mesh Barriers PMB.

Components

6 Post PP
6a L-bracket (Post PP)
7 Side Mesh Barrier PMB
8 Post Extension PPE
8a L-bracket (Post Extension PPE)
8b Securing hook

The Post Extension PPE (**8**) can be combined with all post connections. (Fig. A5.01)

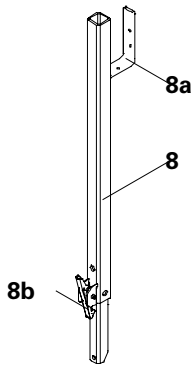


Fig. A5.01

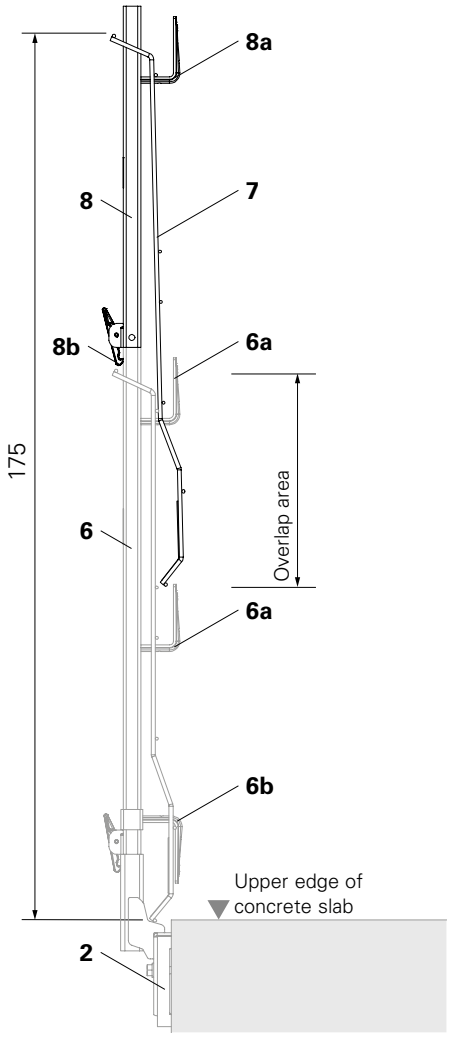


Fig. A5.02

A5 Increasing the height of the lateral protection

Warning

Using Post Extension PPE and increasing the height of the lateral protection is only permissible for Prokit Side Mesh Barriers PMB.

Fitting the post extension

1. Fit the system in accordance with Sections A2 – A4.
2. Insert the Post Extension PPE (**8**) into the post (**6**).
3. On both sides, attach the side mesh barrier (**7**) to the L-brackets (**8a**) of the Post Extension PPE and the upper L-brackets of the post (**6a**).
   → The side mesh barrier of the Post Extension PPE overlaps the side mesh barrier of the posts.

(Fig. A5.02 + Fig. A5.03)

Is the securing hook (**8b**) engaged in the slot of the lower post (**6**)?
(Fig. A5.01 + Fig. A5.02 – Section "A3 Post" on page 33)

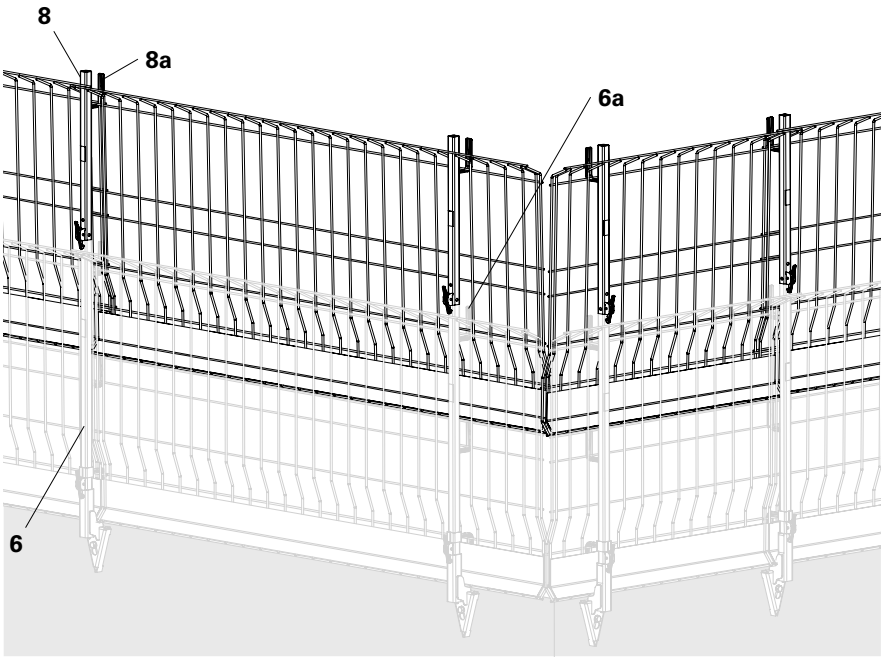


Fig. A5.03

A6 Staircase

Assembly on stairs
For stair areas, wooden guardrail boards are used as lateral protection. A combination involving Side Mesh Barriers PMB and PMB S is permissible.
(Fig. A6.01)

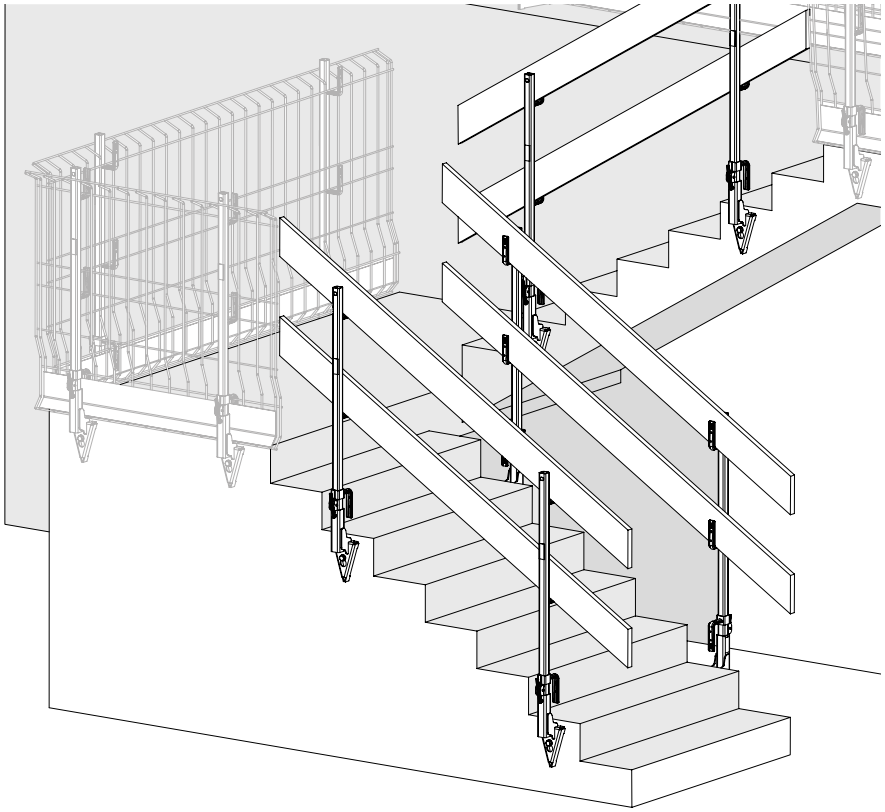


Fig. A6.01

A7 Combining Side Mesh Barriers PMB and PMB S

Inside and outside corners
Combining the Side Mesh Barriers PMB and PMB S is generally permitted.

Combinations at corners:
- Combining the Side Mesh Barriers PMB and PMB S at inside and outside corners is permitted.
- All combinations are permitted for fixing to temporary structures (formwork) and to concrete structures (slab).

Components

6 Post PP
7 Side Mesh Barrier PMB (old)
7 Side Mesh Barrier PMB S (new)

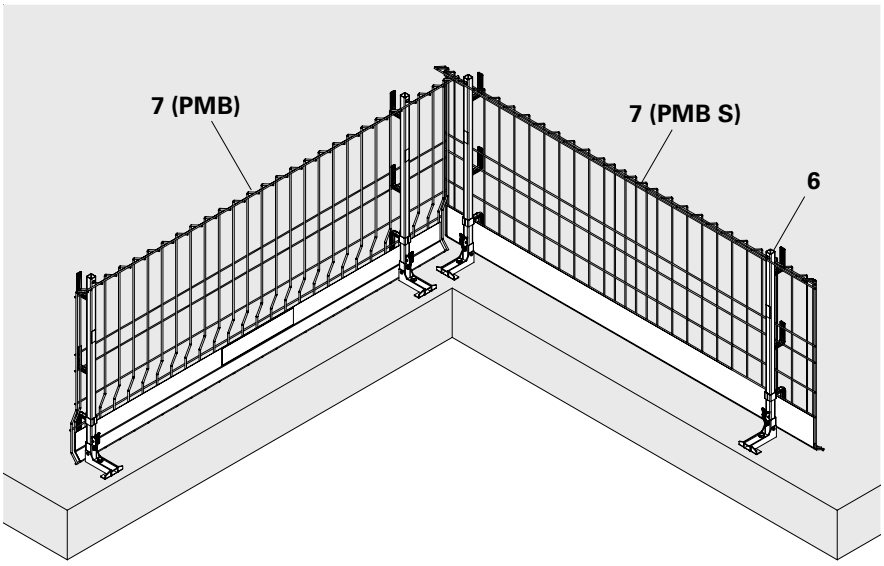


Fig. A7.01

(Fig. A7.01 + Fig. A7.02)

The system must be able to transfer the specified forces (observe manufacturer's information).
Openings > 2 cm in the toe board area must be sealed off.

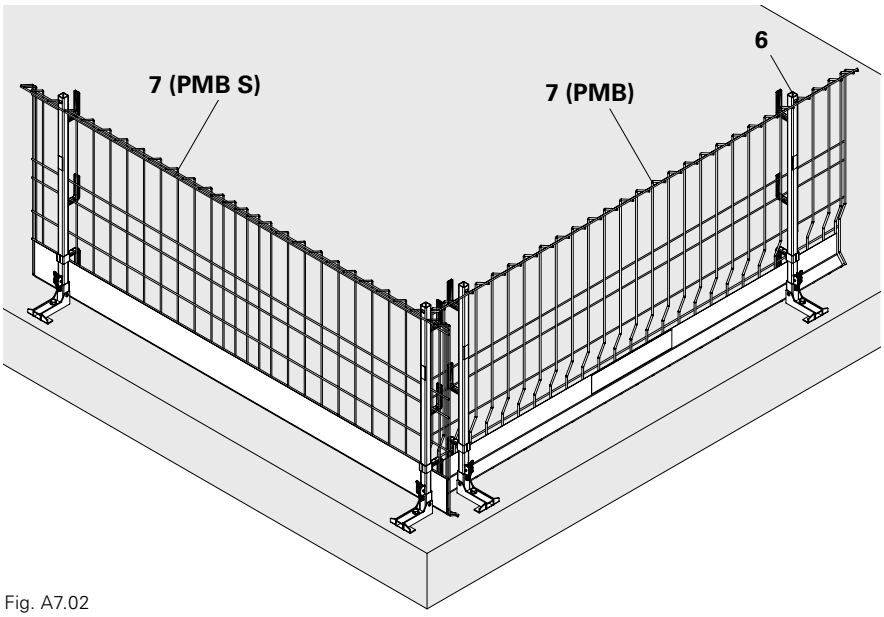


Fig. A7.02

A7 Combining Side Mesh Barriers PMB and PMB S

Combining line segments

- Combining Side Mesh Barriers PMB and PMB S in a horizontal plane, with a minimum overlap of ≥ 20 cm at one post, is permitted.
- All combinations are permitted for fixing to temporary structures (formwork) and to concrete structures (slab).

- When using a combination of Side Mesh Barriers PMB and PMB S, it is advantageous to use the Side Mesh Barrier PMB on the outside and the Side Mesh Barrier PMB S on the inside.
  → The gap between the drop side and the plate is minimised in this case (less than 2 cm).

(Fig. A7.03 + Fig. A7.03a)

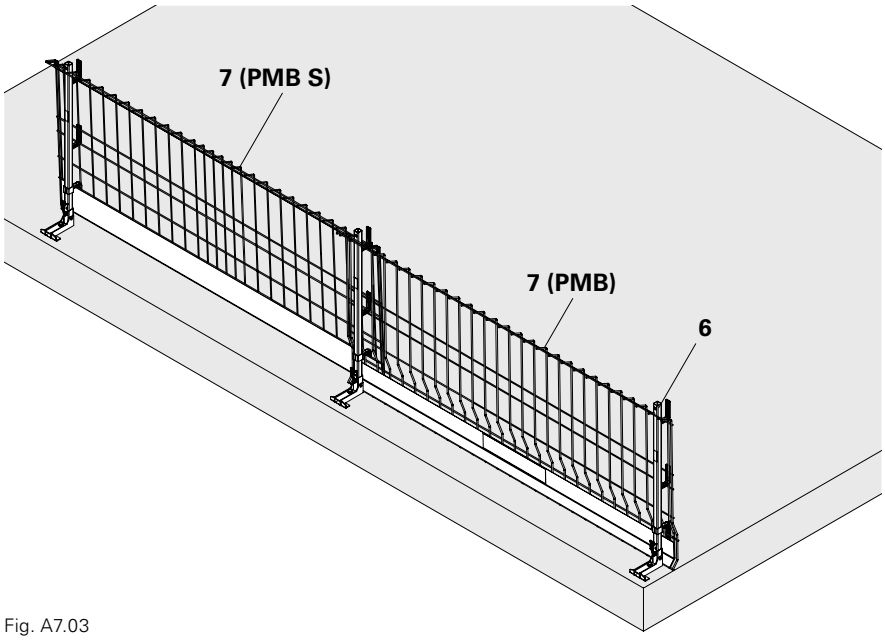


Fig. A7.03

The system must be able to transfer the specified forces (observe manufacturer's information).
Openings > 2 cm in the toe board area must be sealed off.

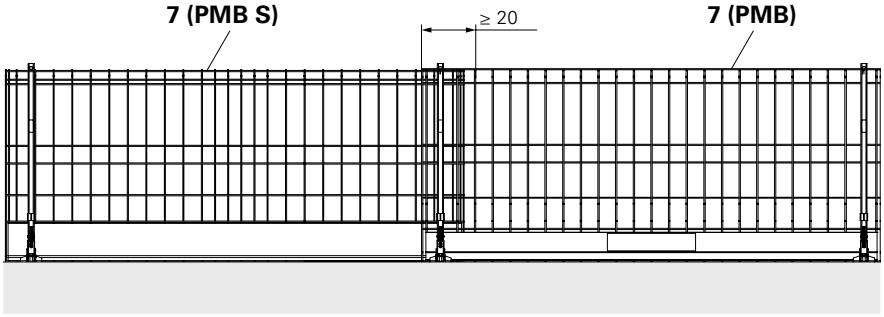
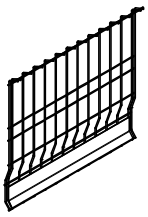


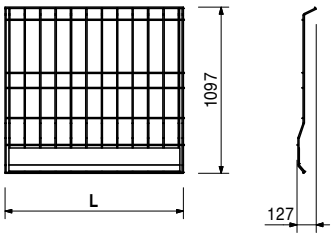
Fig. A7.03a

Art no.	Weight [kg]		L [mm]
		Side Mesh Barriers PMB	
426381	7.140	**Side Mesh Barrier PMB 90**	900
426376	9.260	**Side Mesh Barrier PMB 120**	1200
426371	17.700	**Side Mesh Barrier PMB 240**	2400
417326	19.700	**Side Mesh Barrier PMB 260**	2600

Notes

Maximum distance of posts with Side Mesh Barrier: PMB 260 max. 2.40 m.

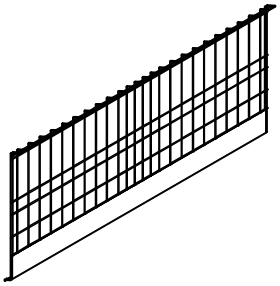


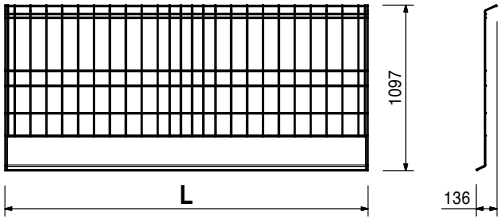


Art no.	Weight [kg]		L [mm]
		Side Mesh Barriers PMB S	
138087	5.940	**Side Mesh Barrier PMB S 90**	900
138086	7.920	**Side Mesh Barrier PMB S 120**	1200
138085	14.560	**Side Mesh Barrier PMB S 240**	2400
138084	16.060	**Side Mesh Barrier PMB S 260**	2600

Notes

Maximum distance of posts with Side Mesh Barrier: PMB S 260 max. 2.40 m.



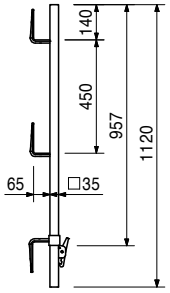


Art no.	Weight [kg]	
117325	4.270	**Post PP**

For the fixation of the Side-Mesh-Barriers.

Notes

Distance of posts with Side Mesh Barrier 260 max. 2.40 m.

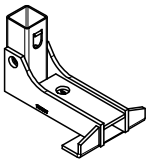


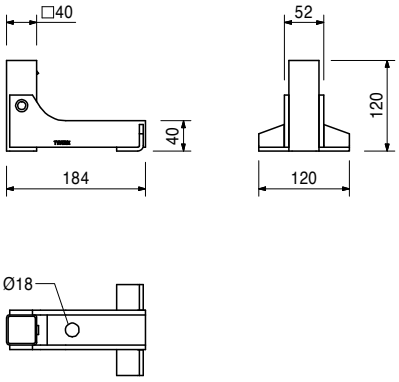
Art no.	Weight [kg]	
033750	1.480	**Foot PROKIT Alpha Std Double**

For assembly of a guardrail on or at edge slabs.

Notes

Maximum distance of posts with Side Mesh Barrier: 260 max. 2.40 m.





Accessory (not included)

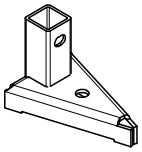
117325 Post PP
123970 Screw-on Sleeve M16/164
132889 Anchor Bolt SW21 Ø14x150mm

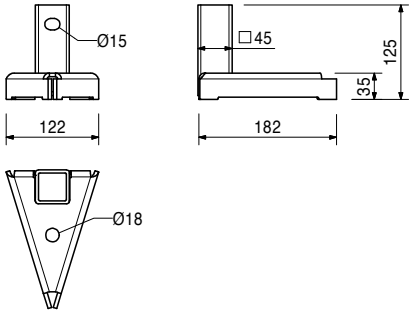
Art no.	Weight [kg]	
417323	1.530	**Slab Foot PDF**

For assembly of a guardrail on or at edge slabs.

Notes

Maximum distance posts with Side Mesh Barrier: 260 max. 2.40 m.





Accessory (not included)

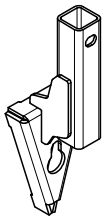
117325 Post PP
123970 Screw-on Sleeve M16/164
132889 Anchor Bolt SW21 Ø14x150mm

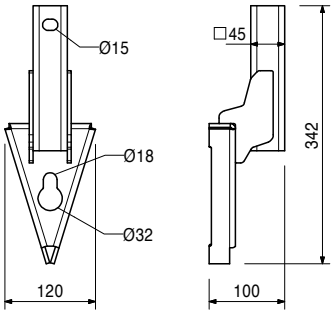
Art no.	Weight [kg]	
117324	2.210	**Side Foot PSF**

For assembly of a guardrail on or at walls and stairs.

Notes

Maximum distance of posts with Side Mesh Barrier: 260 max. 2.40 m.





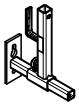
Accessory (not included)

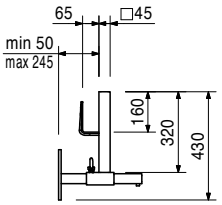
117325 Post PP

132889 Anchor Bolt SW21 Ø14x150mm

Art no.	Weight [kg]	
118670	5.030	**Front Guardrail Holder ad. PFH**

For mounting safety barriers to slab edges and stairs.





Accessory (not included)

117325 Post PP

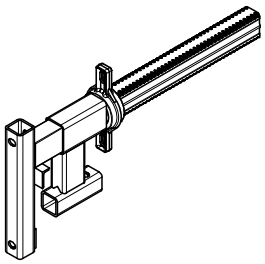
132889 Anchor Bolt SW21 Ø14x150mm

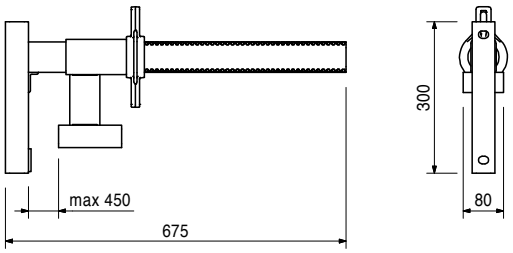
Art no.	Weight [kg]	
118660	6.410	**Uni Clamp PUC**

For the assembly of a guardrail on the front side of slabs or on railings.

Notes

Maximum distance of posts with Side Mesh Barrier: 260 max. 2.40 m.



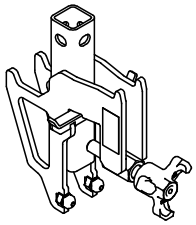


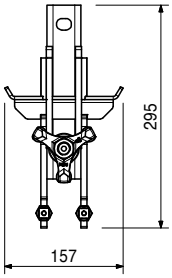
Accessory (not included)

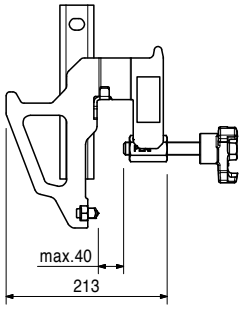
117325 Post PP

Art no.	Weight [kg]	
126330	4.600	**Sheet Piling Clamp PSC**

For assembly of a guardrail on sheet pillings.





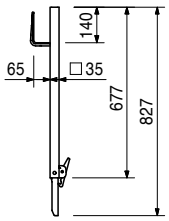


Accessory (not included)

117325 Post PP

Art no.	Weight [kg]	
118296	2.910	**Post Extension PPE**

For increasing the guardrail to 1.75 m.

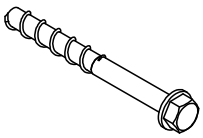


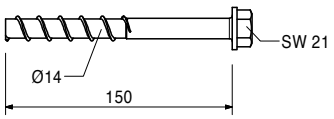
Art no.	Weight [kg]	
132889	0.213	**Anchor Bolt AF21 Ø14x150 TG**

For temporary attachment to reinforced concrete components.

Notes

Take the PERI Data Sheet into consideration!
Drill hole Ø 14 mm.



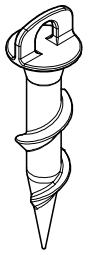


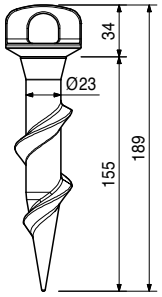
Art no.	Weight [kg]	
123970	0.047	**Screw-On Sleeve M16/164**

For temporary mounting of components on reinforced concrete slabs.

Notes

Inserted into the fresh concrete immediately after concreting.



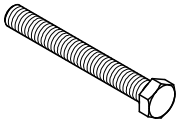


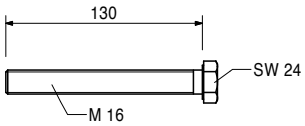
Accessory (not included)

123973 Screw ISO4017-M16x130-8.8-ga

Art no.	Weight [kg]	
123973	0.240	**Screw ISO4017-M16x130-8.8-ga**

For assembly of Slab Foots PDF in combination with Screw-On Sleeve PERI M16/164.



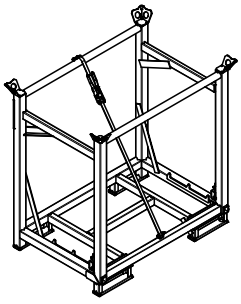


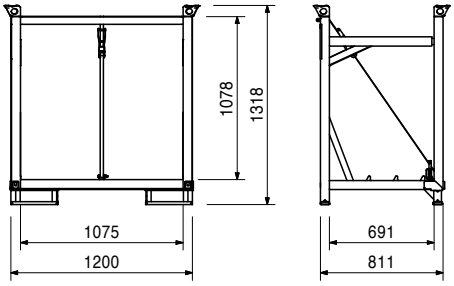
Art no.	Weight [kg]	
123960	70.400	**Pallet EP 110**

For stacking and transportation of 25 Side Mesh Barriers PMB.

Notes

Follow Instructions for Use!
Permissible load-bearing capacity 600.0 kg.

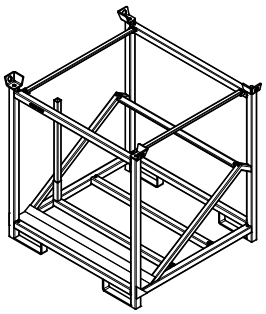


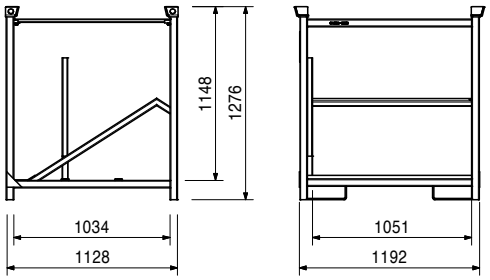


Included in delivery

117560 Lashing Strap 25x2550mm 1 pc

Art no.	Weight [kg]	
033880	93.000	**Pallet RP PMB S Barrier**



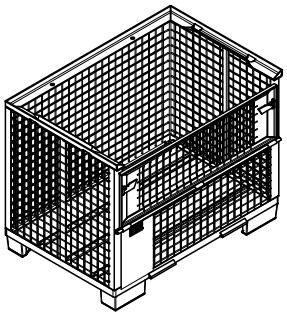


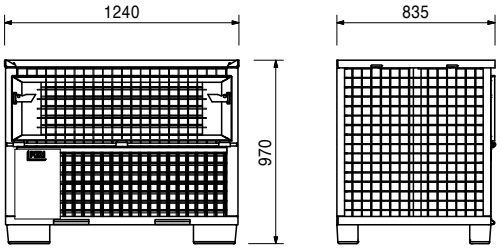
Art no.	Weight [kg]	
		Crate Pallets 80x120
065068	88.200	**Crate Pallet 80x120 ga**
065016	88.200	**Crate Pallet 80x120 painted**

For stacking and transportation of formwork and scaffold components.

Notes

Follow Instructions for Use!
Capacity approx. 0.75 m³.
Load-carrying capacity 1.5 t.





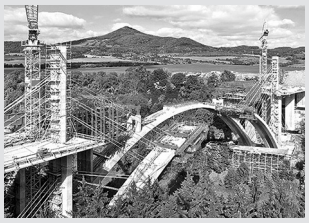
The optimal system for every project and any requirement

Wall formwork

Column formwork

Slab formwork

Climbing systems



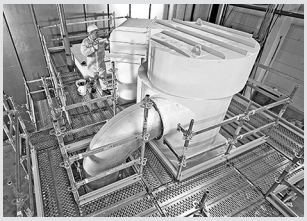
Bridge formwork

Tunnel formwork

Shoring

Working scaffolds for construction

Working scaffolds for facades



Working scaffolds for industry

Access

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Safety systems

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