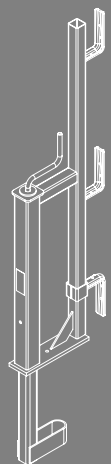


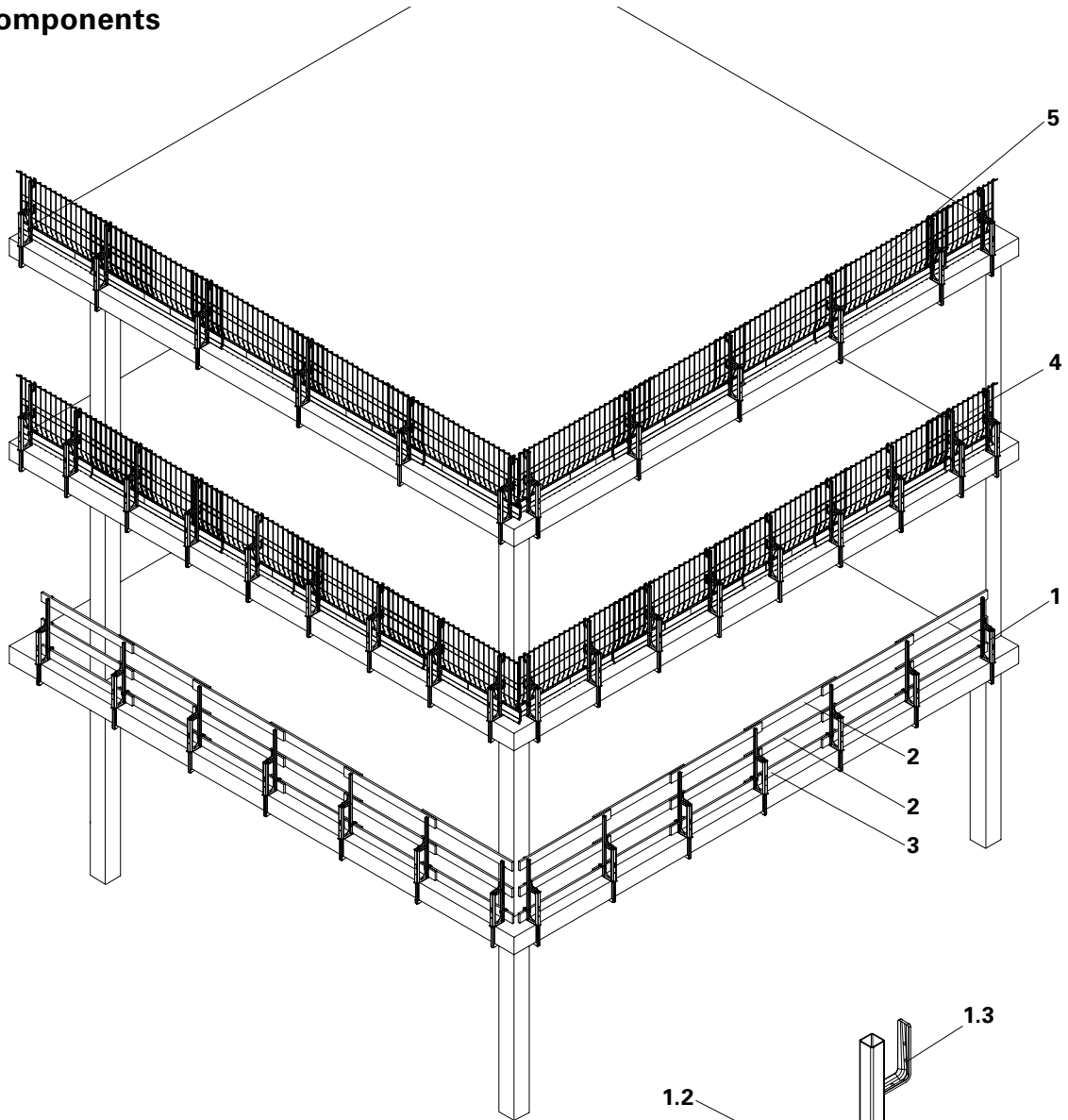
# Guardrail Holder-2 Safety System

Instructions for Assembly and Use – Standard Configuration

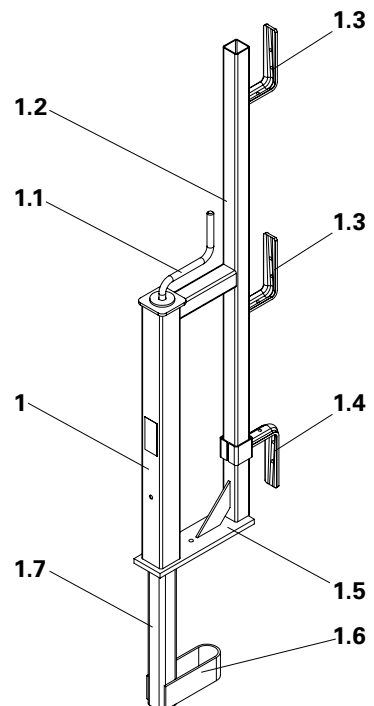
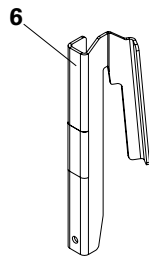


<b>Overview</b>	
Main components	1
Key	2
Presentational reference	2
<b>Introduction</b>	
Target groups	3
Additional technical documentation	3
Intended use	4
Technical data	4
Instructions on use	4
<b>Safety instructions</b>	
Cross-system	5
System-specific	6
Safety during assembly	7
Identification markings	8
Inspection and hand-over	8
<b>Standard configuration</b>	
A1 Logistics	10
Storage and transportation	10
Maintenance and cleaning	11
Maintenance and repairs	11
A2 Assembly	12
Widths of influence	12
Guardrails and toe boards	13
Side Mesh Barriers PMB	14
Clamping Holder GH-2	15
A3 Assembly on the corners	16
Guardrails and toe boards	16
Side Mesh Barriers PMB	17
A4 Assembly on formwork girders/timbers	18
A5 Dismantling	20
<b>Components</b>	
Components	22

## Main components



- 1 Guardrail Holder-2
- 1.1 Crank
- 1.2 Frame Guardrail Holder-2
- 1.3 L-Angle
- 1.4 Toe Board Holder
- 1.5 Support
- 1.6 Stirrup
- 1.7 Clamping Tube
- 2 Guardrail
- 3 Toe board
- 4 Side Mesh Barrier PMB 130
- 5 Side Mesh Barrier PMB 260
- 6 Clamping Holder GH-2



## Key

### Pictogram | Definition



Safety instructions



Note



Load-bearing point



Visual check



Tip



Misapplication

### Dimension specifications

Dimensions are usually given in mm. Other units of measure, e.g. cm, are specified in the illustrations.

Load details are usually given in kg. Other measurement units, e.g. t, are specified 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**.

### Arrows

- Arrow representing an action

---

## Presentational reference

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 accordingly for all component sizes contained in the standard configuration.

For a better understanding, detailed illustrations are partly incomplete. The safety installations which have possibly not been featured in these detailed drawings must nevertheless still be available.

## Target groups

### Contractors

These Instructions for Assembly and Use are designed for contractors who use PERI products either for

- assembling, modifying and dismantling, or
- use them, e.g. for concreting, or
- who have them used, e.g. for forming operations.

### Construction site coordinator

The 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 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.

### Qualified and competent personnel

Due to the specialist knowledge gained from professional training, work experience and recent professional activity, the qualified person has a reliable understanding of safety-related issues and can correctly carry out inspections.

Depending on the complexity of the test to be undertaken, e.g. scope of testing, type of testing or the use of a certain measuring device, a range of specialist knowledge is necessary.

### Qualified specialists

PERI products may only be assembled, modified or dismantled by personnel who are suitably qualified to do so. For the work to be carried out, the qualified specialists must have received instructions\*\* which contain at least the following points:

- Explanation of the plan for the assembly, modification or dismantling of the formwork in an understandable form and language.
- Description of measures in order to safely assemble, modify or dismantle the scaffolding.
- Designation of the preventive measures to avoid the risk of persons and objects falling.

- Designation of the safety precautions in the event of changing weather conditions which could adversely affect the safety of the PERI products concerned as well as the personnel.
- Details regarding the permissible loads.
- Description of any other risks that are associated with the assembly, modification or dismantling procedures.



**In other countries, ensure that the relevant national guidelines and regulations in the respective current version are complied with!**

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

\*\* Instructions are given by the contractor himself or a qualified person selected by him.

---

## Additional technical documentation

- Instructions for Assembly and Use:
  - PROKIT EP 110
- Instructions for Use:
  - Pallets and Stacking Devices
  - Pallet Lifting Trolley
- Brochures:
  - PROKIT EP 110

## Intended use

### Product description

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

The Guardrail Holder-2 is clamped at the front side on the concrete slab edge, formwork girders or timbers by means of integrated clamps.

The Guardrail Holder-2 is an element of temporary edge protection according to EN 12811-1 and EN 13374, Class A.

This allows the use on:

- concrete slabs up to a clamping thickness of 40 cm,
- timbers and VT 20/GT 24 Formwork Girders, with and without planking or formwork boards, up to a clamping thickness of 30 cm.

The Guardrail Holder-2 accommodates horizontal loads as a cantilever.

Only guardrails and toe boards may be used which comply with the requirements of the side protection system according to EN 12811-1 or EN 13374, Class A.

In the standard configuration, wooden boards are to be used as guardrails and toe boards with Strength Class C24 for Solid Wood according to EN 338.

The PERI Side Mesh Barrier may only be used with the integrated Clamping Holder GH-2/PMB as a temporary edge protection on the Guardrail Holder-2.

## Technical data

- The static verification regarding the load-bearing capacity and suitability for use allows application according to EN 12811-1 and EN 13374, Class A.
- Widths of influence:
  - Tables for use on concrete slab edges. (Section A2)
  - Tables for use on timbers or formwork girders. (Section A4)

---

## Instructions on use

The 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.

Changes to PERI components are not permitted.

## Cross-system

### General

The contractor must ensure that the Instructions for Assembly and Use supplied by PERI are available at all times and are 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 do not replace the risk assessment!

Always take into consideration and comply with the safety instructions and permissible loads.

For the application and inspection of PERI products, the current safety regulations and guidelines must be observed in the respective countries where they are being used.

Materials and working areas are to be inspected on a regular basis especially before each use and assembly for:

- signs of damage,
- stability and
- function.

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

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

Components provided by the contractor must conform with the characteristics required in these Instructions for Assembly and Use as well as all valid construction guidelines and standards. Unless otherwise indicated, this applies in particular to:

- timber components:  
Strength Class C24 for Solid Wood according to EN 338.
- scaffold tubes:  
galvanised steel tubes with minimum dimensions of  $\varnothing 48.3 \times 3.2$  mm according to EN 12811-1:2003 4.2.1.2.
- scaffold tube couplings according to EN 74.

Deviations from the standard configuration are only permitted after a further risk assessment has been carried out by the contractor. On the basis of this risk assessment, appropriate measures for working and operational safety as well as stability are to be determined.

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

Before and after exceptional occurrences that may have an adverse effect regarding the safety of the PERI product, the contractor must immediately

- create another risk assessment, with appropriate measures for ensuring the stability of the formwork system being carried out based on the results,
- and arrange for an extraordinary inspection by a qualified and competent person. The aim of this inspection is to identify and rectify any damage in good time in order to guarantee the safe use of the safety system.

Exceptional occurrences can include:

- accidents,
- longer periods of non-use,
- natural events, e.g. heavy rainfall, icing, heavy snowfall, storms or earthquakes.

### Assembly, modification and dismantling work

Assembly, modification or dismantling of PERI products may only be carried out by qualified specialists under the supervision of an authorized person. The qualified specialists 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 Instructions for Assembly and Use, the contractor must create installation instructions in order to ensure safe assembly, modification and dismantling of the PERI product.

The contractor must ensure that the personal protective equipment required for the assembly, modification or dismantling of the PERI product, e.g.

- safety helmet,
  - safety shoes,
  - safety gloves,
  - safety glasses,
- is available and used as intended.

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

The contractor must

- provide safe working areas for site personnel which are to be reached through the provision of safe access ways. Areas of risk must be cordoned off and clearly marked.
- ensure the stability during all stages of construction, in particular during assembly, modification and dismantling operations.
- ensure and prove that all loads can be safely transferred.

### Utilisation

Every contractor who uses the PERI product or allows parts of the product to be used, has the responsibility for ensuring that the equipment is in good condition.

If the PERI product 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 be then coordinated.

## **System-specific**

Install Guardrail Holder-2 and safety barriers before dismantling the working scaffold or working platforms positioned below.

The Guardrail Holder-2 is mounted only if sufficient concrete strength has been reached.

When working on leading edges suitable fall protection measures must be maintained, e.g. the use of personal protective equipment (PPE) in the way intended.

Safety barriers are to be dismantled only if the facade is closed or the site management has given the go-ahead.

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



## Safety during assembly

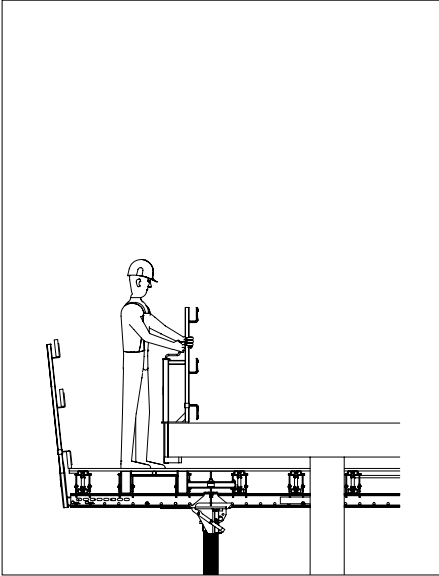


Fig. E.01

### Safety measures for standard configurations



**In order to guarantee the protection against falling, the contractor must create a site-specific risk assessment for the assembly, dismantling and modification of the Guardrail Holder-2 as well as its intended use. On the basis of this the risk assessment, the contractor must take suitable measures to ensure effective anti-fall protection.**



- Comply with national regulations regarding fall height and anti-fall protection. If the attachment of side 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 (Fig. E.01) are given preference over individual solutions.
- The side protection which has been installed must be inspected and approved by a qualified person before the initial use.

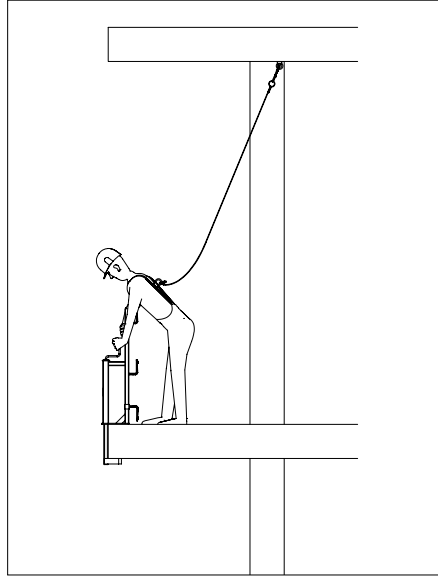


Fig. E.02

### Selection of personal protective equipment (PPE) against falling

The PPE against falling requires the following:

- It must be suitable for the prevailing conditions at the working areas.
- 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 selected PPE against falling must comply with the relevant regulations and codes of practice in the respective country where it is being used.
- The length selected must rule out the possibility of falling off the edge.

### Choice of attachment points:

Attachment points require the following:

- If possible, select attachment points above the head. (Fig. E.02/E.03)
- Select an attachment point so that a pendulum fall is prevented.
- The load-bearing capacity of the attachment point, building or supporting surface must be ensured in order to accommodate the forces arising during a fall.
- The attachment point must be able to handle loads in all directions.

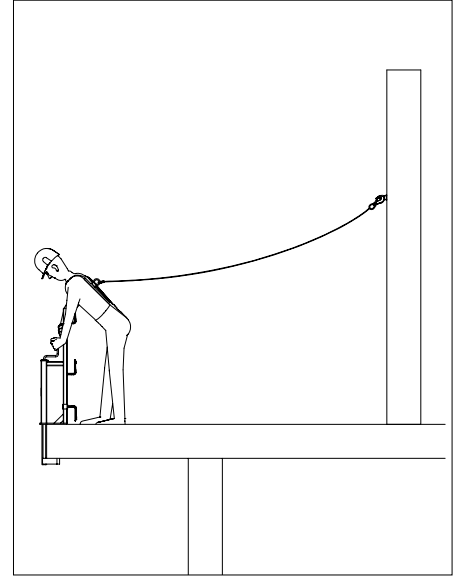


Fig. E.03

### Assembly suggestions

For the Guardrail Holder-2 and supplementary components:

- As collective anti-fall protection, e.g. assembly from a safe position. (Fig. E.01)
- With a suitable attachment point for the use of personal protective equipment against falling. (Fig. E.02/E.03)

### Assembly in the event of variations from the standard configuration

- The contractor responsible for installing the side protection must carry out a risk analysis.
- Securing measures must be realized according to the specifications as for the standard configuration.
- Acceptance by a qualified and competent person is required.

## Identification markings

The Guardrail Holder-2 is marked according to EN 13374, Class A.

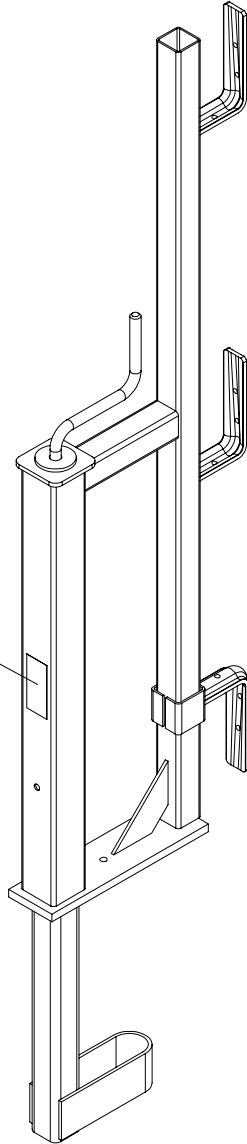
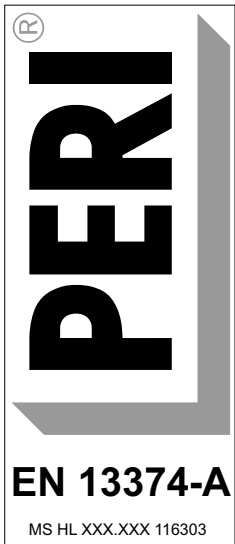


Fig. E.04

## Inspection and hand-over

The fully assembled side protection system must be inspected and approved for use before initial operations by a qualified person.

The documentation of the release lies with the contractor responsible for installing the side protection.

During the hand-over, the contractor responsible for installing the side 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!



## Storage



- Follow Instructions for Use for PERI Pallet and Stacking Devices!
- PERI pallets and stacking devices are to be stored in such a way so that no unintentional change in their position is possible! Secure with tension belts during strong wind conditions.
- Use suitable lifting gear for transporting!
- During storage, provide protection against aggressive substances!

### Crate Pallet 80 x 120

(Fig. A1.01)

1. Load-bearing capacity = 1.5 t
2. Crane sling angle  $\leq 15^\circ$ 
  - 4-sling lifting gear min. L = 3.0 m.
3. Guardrail Holder-2 per crate pallet
  - Max. 28 pieces.
  - Guardrail Holder-2 retracted.
4. Stacking height:
  - Max. three crate pallets on top of each other.

### Pallet EP 110

(Fig. A1.03/A1.04)

1. Load-bearing capacity = 600 kg
2. Crane sling angle  $\leq 15^\circ$ 
  - 4-sling lifting gear min. L = 3.0 m.
3. Side Mesh Barrier PMB per pallet:
  - Max. 25 pieces (PMB 130 or PMB 260).
4. Stacking height:
  - Max. 3 pallets on top of each other in compliance with the stacking instructions.

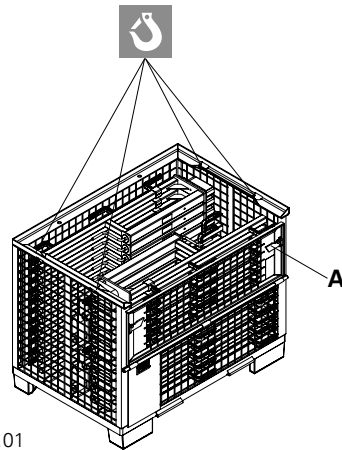


Fig. A1.01

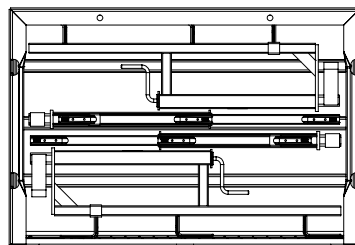


Fig. A1.02

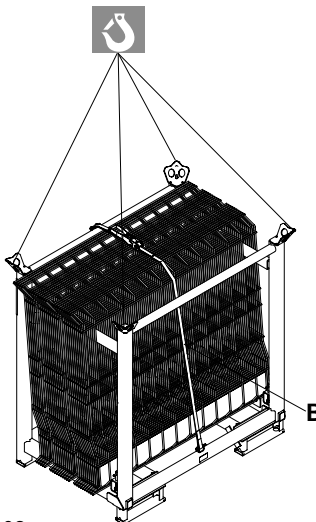


Fig. A1.03

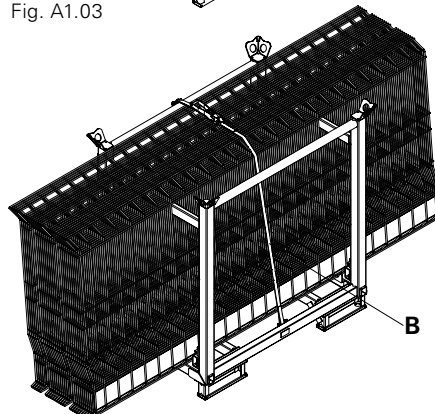


Fig. A1.04

## Transport



- Follow Instructions for Use for PERI Pallet and Stacking Devices!
- Always attach the 4-sling lifting gear using the four load-bearing points!
- Do not stand under suspended loads!
- Before transporting, lock the closed flap (A) on both sides and, if available, secure lid!
- Release lifting gear only if the position of the PERI Crate Pallets and Pallets cannot be unintentionally changed!
- Transport and set down PERI Crate Pallets and Stacking Devices only on clean, flat and sufficiently load-bearing surfaces!

PERI Crate Pallets and Stacking Devices are suitable for lifting with a crane or forklift. They can also be moved with the PERI Pallet Lifting Trolley. All PERI Crate Pallets and Stacking Devices can be lifted using both the longitudinal and front sides.

### Crate Pallet 80 x 120

(Fig. A1.01/A1.02)

For securing the load against theft, the crate pallet can be optionally fitted with a lid.

### Pallet EP 110

(Fig. A1.03/A1.04)



- Tension strap (B) must be securely closed and tensioned!
- When forming stacks, the pallets are aligned so that one longitudinal side is positioned next to another longitudinal side.

The Side Mesh Barrier PMB can be removed from the opened pallet by hand.

## Maintenance and cleaning

In order to maintain the value and operational readiness of the safety system over a long period of time, ensure that the system is carefully handled at all times.

### Care

- For damage-free transportation, suitable PERI Crate Pallets and Stacking Devices are available.
- For storage or intermediate storage, place components in the PERI Crate Pallets or Stacking Devices that have been cleaned.

### Cleaning

- Never clean powder-coated components with a steel brush or hard metal scraper; this ensures that the powder-coating remains intact.
- Provide suitable support for the components during cleaning so that no unintentional change in their position is possible.
- Do not clean components when suspended on a crane.

## Maintenance and repairs

### Repairs



**The repair of PERI products may only be carried out by PERI qualified personnel!**

### Repairs are necessary if:

- The clamping tube tilts during retraction and extension.
- The maximum moving distance of the clamping tube of 400 mm is not possible.
- The spindle is hard to turn.
- The spindle can easily be turned but the clamping tube cannot be extended or retracted.
- Parts of the Guardrail Holder-2 are bent or missing.

### Spare parts

Only PERI original components may be used. After repair work has been carried out, the PERI product must be inspected by a suitably qualified person.

### Maintenance

The Guardrail Holder-2 is maintenance-free.

## Widths of influence



- Risk of falling in the event of non-compliance with the widths of influence!
- Take into account the information provided in the section Safety during assembly!

### Width of Influence

The diagram (Fig. A2.01) shows the ratio of slab thickness to the permissible width of influence.

### Influencing factors

- |          |                                   |
|----------|-----------------------------------|
| <b>A</b> | Guardrails and toe boards 15x3 cm |
| <b>B</b> | Side Mesh Barrier PMB             |

(Fig. A2.01)

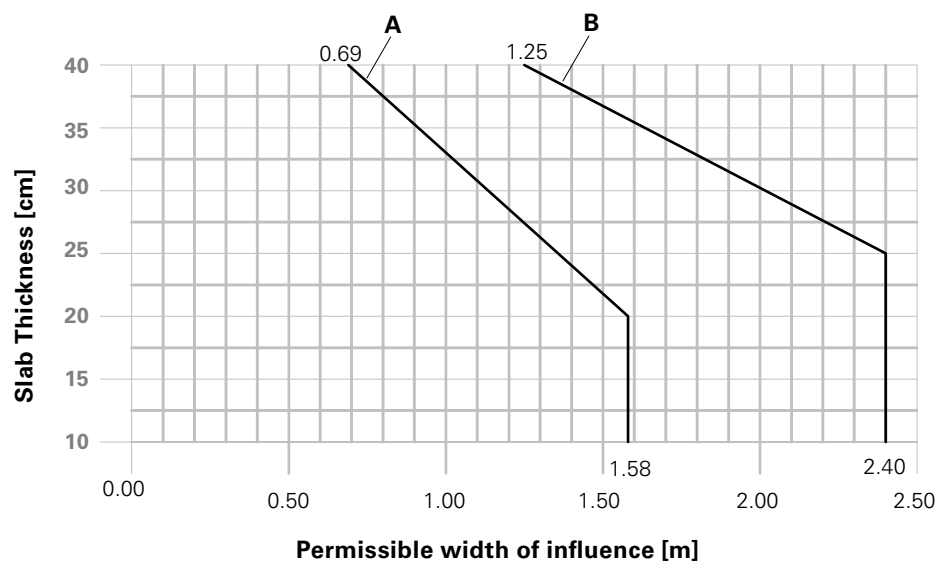


Fig. A2.01

## Guardrails and toe boards



- Risk of falling when working on leading edges!
- Take into account the information provided in the section Safety during assembly!
- Risk of falling! Guardrails and toe boards must be mounted so that no horizontal movement is possible! Check that components are securely fitted!
- Moving the Guardrail Holder-2 by hand after assembly must not be possible!

### Assembly

1. The area for the support (1.6) must be clean and completely flat.
  2. Push the Guardrail Holder-2 (1) across the structure. (Fig. A2.02)
  3. Turn the crank (1.1) in a clockwise direction.
    - Clamping tube (1.4) retracts. (Fig. A2.03)
    - The clamping tube (1.4) must lie flat on the slab edge. (Fig. A2.03)
    - The stirrup (1.7) must lie completely flat. (Fig. A2.03)
  4. Tighten the crank by hand so that any movement by hand is no longer possible. (corresponds to approx. 50 Nm)
  5. Position the guardrails (7) in the L-angles (1.5). (Fig. A2.04)
  6. Push toe board holder (1.2) upwards and position toe boards (8). (Fig. A2.04)
- Fix toe boards and guardrails with suitable nails or screws to the L-angles (1.5) and toe board holders (1.2). (Fig. A2.05)

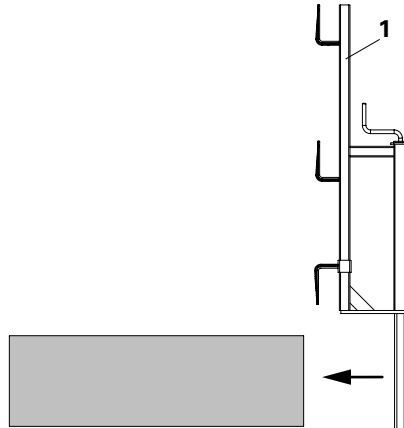


Fig. A2.02

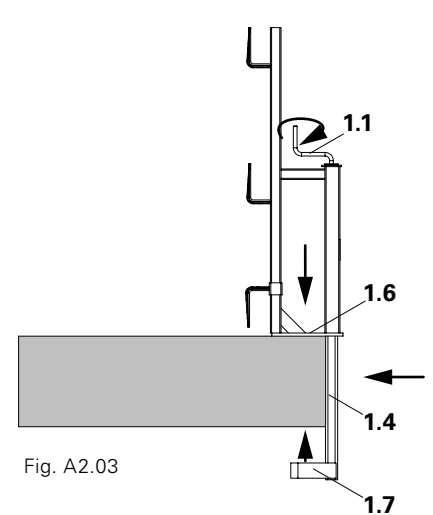


Fig. A2.03

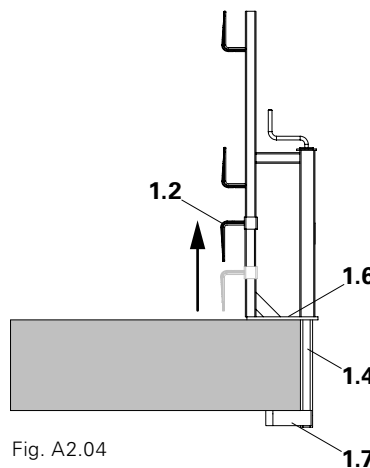


Fig. A2.04

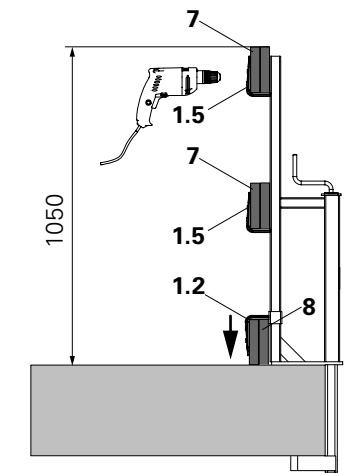


Fig. A2.05



After installation, a competent person must inspect the assembled safety system and approve for use.

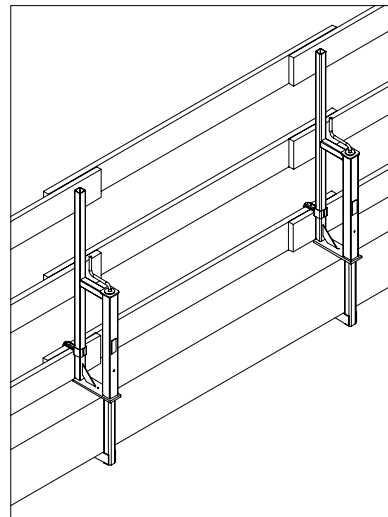


Fig. A2.04a

## Side Mesh Barrier PMB



- Risk of falling when working on leading edges!
- Take into account the information provided in the section Safety during assembly!
- During installation in the Guardrail Holder-2, the Side Mesh Barrier PMB may only be mounted together with the Clamping Holder GH-2!
- Moving the Guardrail Holder-2 by hand after assembly must not be possible!



The procedure during assembly is the same for all Side Mesh Barriers PMB.

### Assembly

1. The area for the support (1.6) must be clean and completely flat.
2. Push the Guardrail Holder-2 (1) across the structure. (Fig. A2.06)
3. Turn the crank (1.1) in a clockwise direction.
  - Clamping tube (1.4) retracts. (Fig. A2.07)
  - The support (1.6) must rest on its entire surface.
  - The clamping tube must lie flat on the slab edge. (Fig. A2.08)
  - The clamp jaw (1.7) must lie completely flat. (Fig. A2.08)
4. Tighten the crank by hand so that any movement by hand is no longer possible (corresponds to approx. 50 Nm).
5. Install the Side Mesh Barrier PMB (5) from above in the Guardrail Holder-2 (1). (Fig. A2.09/A2.10/A2.11)
6. Position the Side Mesh Barrier PMB (5) in the L-angles (1.5). (Fig. A2.09)
7. Lift the toe board holder (1.2).
8. Push the toe board (5.1) to the Guardrail Holder-2. (Fig. A2.10)
9. Lower the toe board holder. (Fig. A2.11)

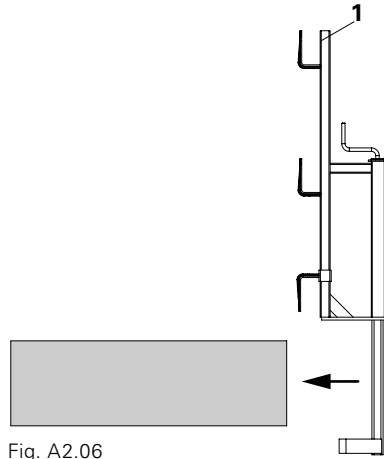


Fig. A2.06

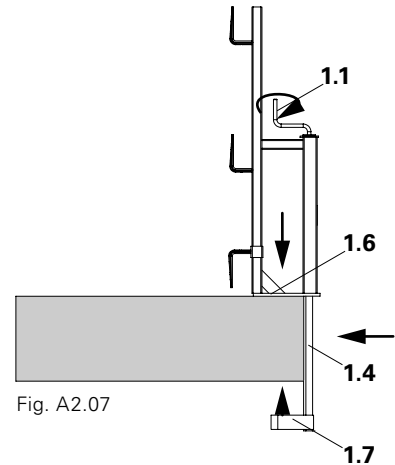


Fig. A2.07

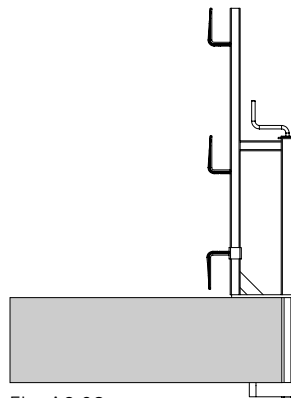


Fig. A2.08

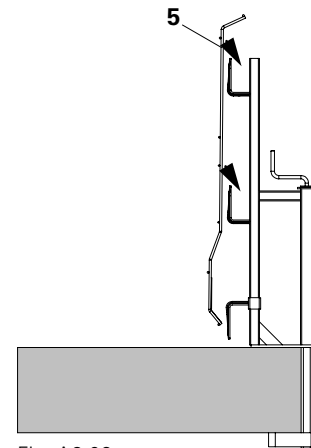


Fig. A2.09

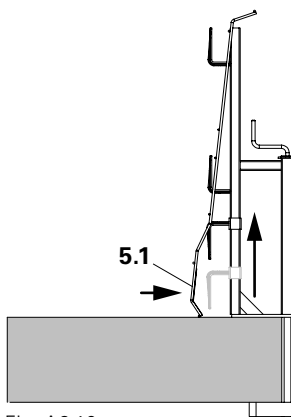


Fig. A2.10

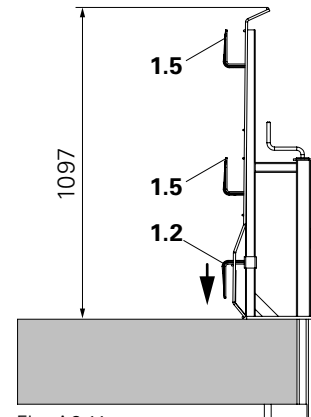


Fig. A2.11



## Clamping Holder GH-2



**Risk of falling through non-secured side protection!**

**Attach Clamping Holder GH-2 to each Guardrail Holder-2 if the Side Mesh Barrier PMB is to be used.**



The procedure during assembly is the same for all Side Mesh Barriers PMB.

### Assembly

1. Insert Clamping Holder GH-2 from above into the tube of the Guardrail Holder-2. (Fig. A2.12/A2.13)
2. Secure Clamping Holder GH-2 with a hammer. (Fig. A2.14)
3. Assembly with one Side Mesh Barrier PMB. (Fig. A2.14/A2.14a)
4. Assembly with two Side Mesh Barriers PMB. Standard assembly with overlapping on Guardrail Holder-2. (Fig. A2.15/A2.15a)



After installation, a competent person must inspect the assembled safety system and approve for use.

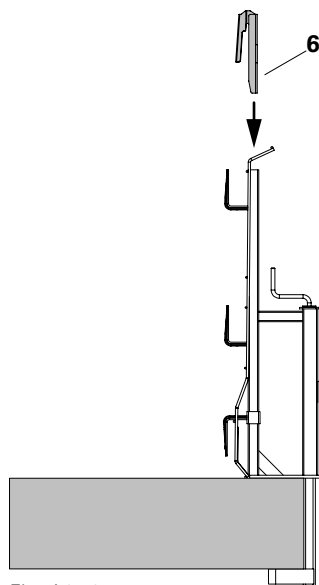


Fig. A2.12

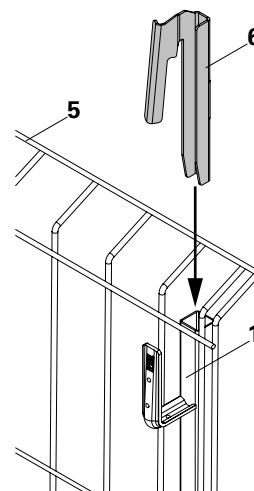


Fig. A2.13

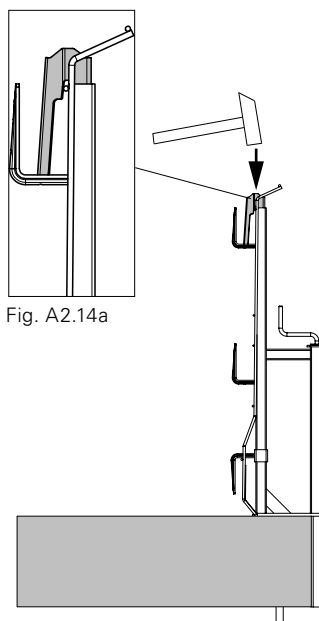


Fig. A2.14

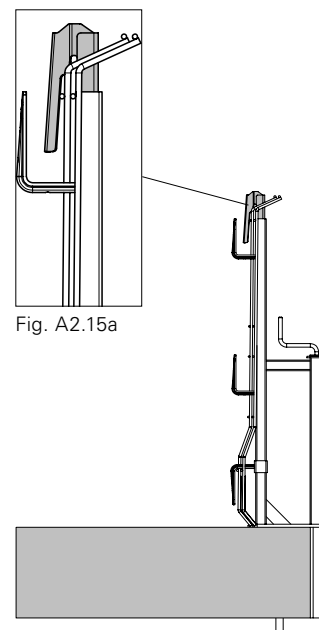


Fig. A2.15

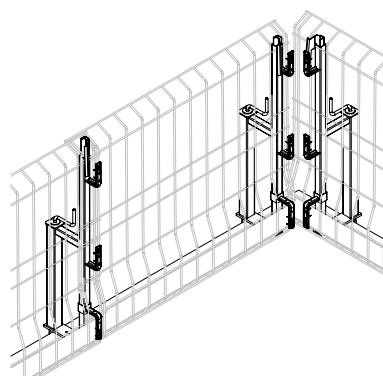


Fig. A2.16

## Guardrails and toe boards

### Assembly

(see Section A2)

1. The area for the support (1.6) must be clean and completely flat.
2. Push the Guardrail Holder-2 (1) across the structure.
3. Turn the crank (1.1) in a clockwise direction.
  - Clamping tube (1.4) retracts.
  - The support (1.6) must rest on its entire surface.
  - The clamping tube (1.4) must lie flat on the slab edge.
  - The clamp jaw (1.7) must lie completely flat.
4. Tighten the crank by hand so that any movement by hand is no longer possible (corresponds to approx. 50 Nm).
5. Position the guardrails (7) in the L-angles (1.5). (Fig. A3.02/A3.02a)
6. Push toe board holder (1.2) upwards and position toe boards (8).
7. Fix with suitable nails or screws to the L-angles (1.5) and toe board holders (1.2). (Fig. A3.01/A3.02)

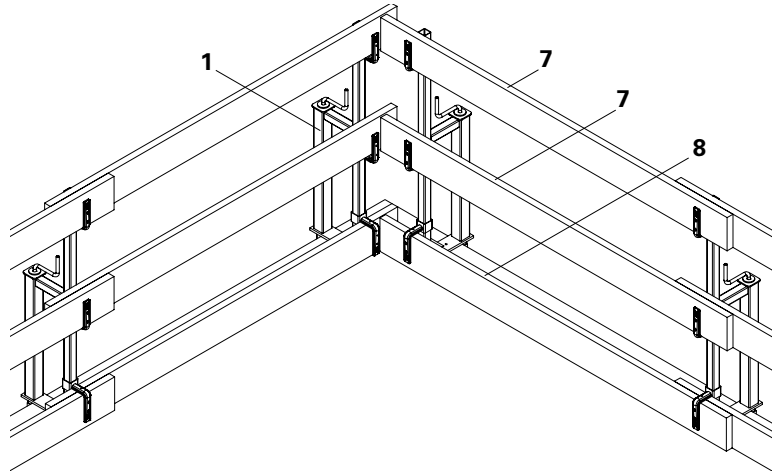


Fig. A3.01



After installation, a competent person must inspect the assembled safety system and approve for use.

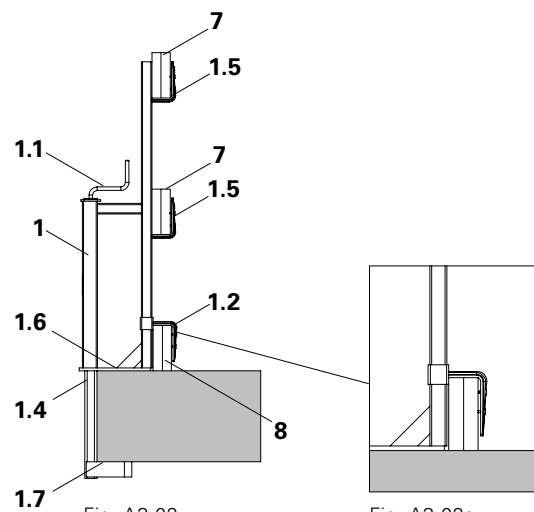


Fig. A3.02

Fig. A3.02a

## Side Mesh Barrier PMB

### Assembly

(see Section A2)

1. The area for the support (1.6) must be clean and completely flat.
  2. Push the Guardrail Holder-2 (1) across the structure.
  3. Turn the crank (1.1) in a clockwise direction.
    - Clamping tube (1.4) retracts.
      - The support (1.6) must rest on its entire surface.
      - The clamping tube must lie flat on the slab edge.
      - The clamp jaw (1.7) must lie completely flat.
  4. Tighten the crank by hand so that any movement by hand is no longer possible (corresponds to approx. 50 Nm).
  5. Install the Side Mesh Barrier PMB (5) from above in the Guardrail Holder-2 (1).
  6. Position the Side Mesh Barrier PMB (5) in the L-angles (1.5).
  7. Lift the toe board holder (1.2).
  8. Push the toe board (5.1) to the Guardrail Holder-2.
  9. Lower the toe board holder.
  10. Insert Clamping Holder GH-2 from above into the tube of the Guardrail Holder-2.
  11. Secure Clamping Holder GH-2 with a hammer.
- (Fig. A3.03/A3.04)

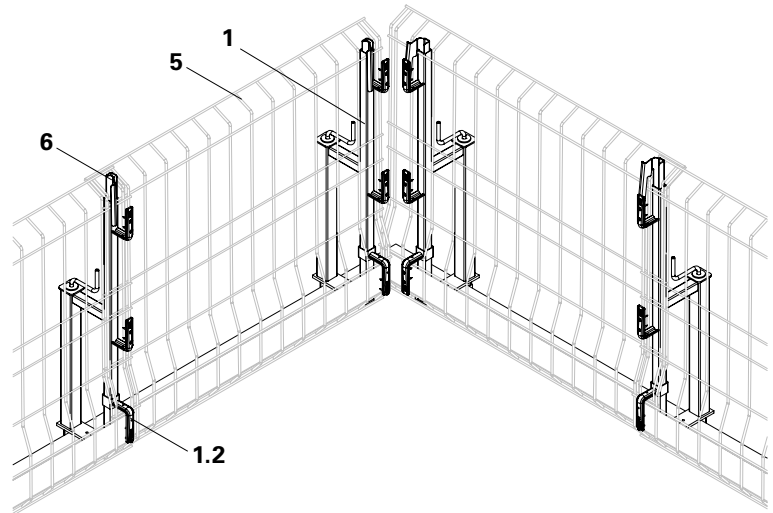


Fig. A3.03

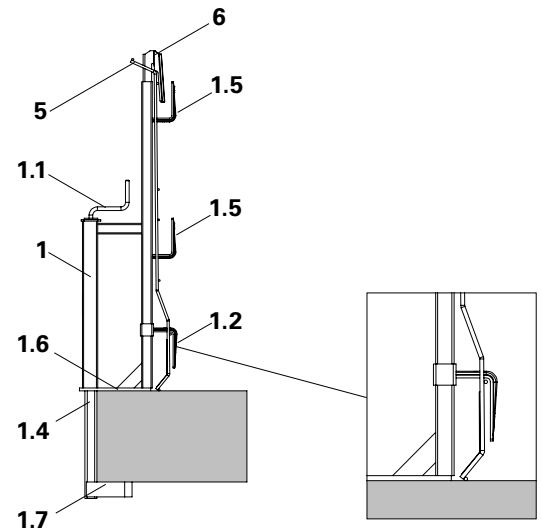


Fig. A3.04

Fig. A3.04a



After installation, a competent person must inspect the assembled safety system and approve for use.



### Risk of falling!

- In the event of non-compliance with the widths of influence.
- Mount Guardrail Holder-2 only on components which can reliably transfer any forces that occur.
- The Guardrail Holder-2 must be mounted on the formwork girder or timber on the front side and middle.
- Mounting the Guardrail Holder-2 crosswise to the formwork girder or timber is not allowed. (Fig. A4.01)
- The tightening torque of the crank on the Guardrail Holder-2 = min. 50 Nm.

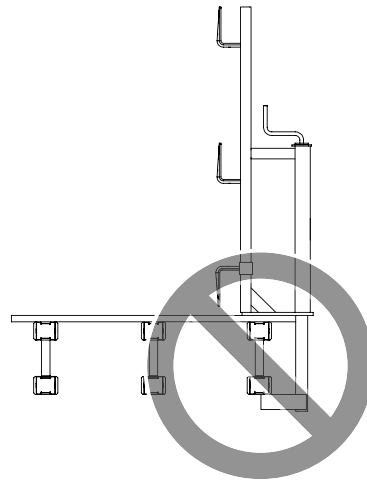


Fig. A4.01



The fastenings are to be regularly checked and re-tightened if necessary, e.g. after a storm, during hot or dry weather conditions.

Assembly of the Side Mesh Barrier  
PMB is likewise possible.  
(Procedure: see Section A2)

The Guardrail Holder-2 is a side protection element according to EN 12811-1. This allows the use on:  
timbers and VT 20/GT 24 Formwork Girders, with and without planking or formwork boards, up to a clamping thickness of 30 cm.

Side protection	Calculation value EB'	Calculation of the width of influence EB
Guardrail boards	1.02 m	EB = EB' / q <sub>k</sub> 
Side Mesh Barrier	1.86 m	The width of influence EB is valid only for the Guardrail Holder-2. The side protection is to be verified separately.

Table A4.01

Fastening means with oily surfaces:

Pos.	Fastening means	Item no.
9	Double-Headed Nail L = 65 mm; Ø 3.1 mm	018280
10	TSS-TORX 6x40	024540
11	TSS-TORX 6x60	024470

Table A4.02

### Determining q<sub>k</sub>

$$q_k = q(z) \times K$$

**K** = service life factor

(The service life factor normally lies between 0.6 – 0.7 and is not dependent on the period of use)

**q(z)** = gust velocity

**q<sub>k</sub>** = usually applied with 0.6 kN/m<sup>2</sup>.

Table A4.03



## Risk of falling!

- When working on leading edges!
- Take into account the information provided in the Assembly Safety section.
- Guardrails and toe boards must be mounted so that no horizontal movement is possible! Check that components are securely fitted.
- Moving the Guardrail Holder-2 by hand after assembly must not be possible.
- The assembly area of the Guardrail Holder-2 must be free of formwork oil.

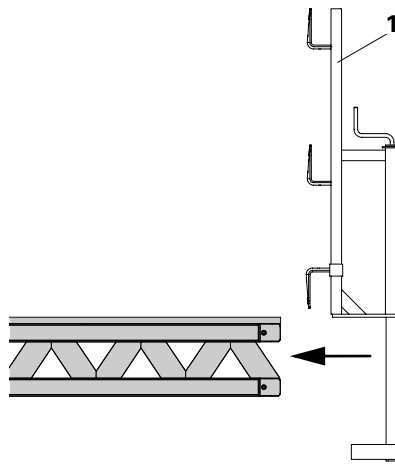


Fig. A4.02

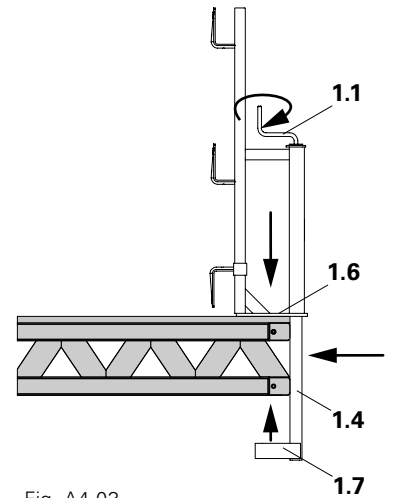


Fig. A4.03

## Assembly

1. The area for the support (1.6) must be clean and completely flat. (Fig. A4.02)
2. On the front side and middle, push the Guardrail Holder-2 (1) over the formwork girder. (Fig. A4.03/A4.04a)
3. Turn the crank (1.1) in a clockwise direction.
  - Clamping tube (1.4) retracts. (Fig. A4.03)
  - The clamping tube (1.4) must lie flat against the formwork girder. (Fig. A4.03/A4.04)
  - The clamp jaw (1.7) must lie completely flat. (Fig. A4.04)
4. Tighten the crank by hand (corresponds to approx. 50 Nm).
5. Secure Guardrail Holder-2 against moving through the use of a double headed nail or one TSS-TORX screw. (Table A4.02/Fig. A4.04/A4.04a)
  - Moving the Guardrail Holder-2 by hand must no longer be possible!
6. Position the guardrails (7) in the L-angles (1.5). (Fig. A4.06)
7. Push toe board holder (1.2) upwards and position toe boards (8). (Fig. A4.05/A4.06)
8. Fix with suitable nails or screws to the L-angles (1.5) and toe board holders (1.2). (Fig. A4.06)

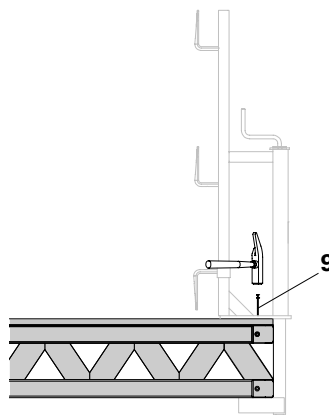


Fig. A4.04

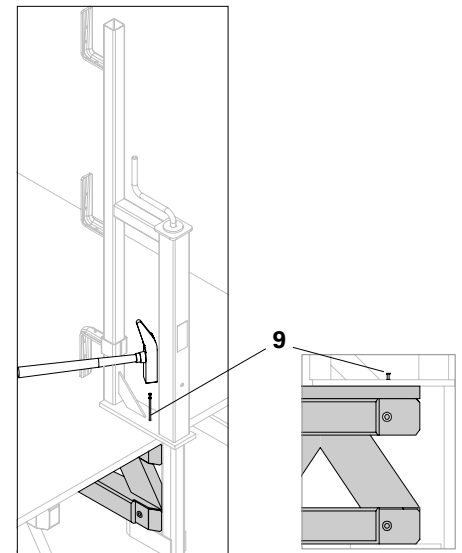


Fig. A4.04a

Fig. A4.04b

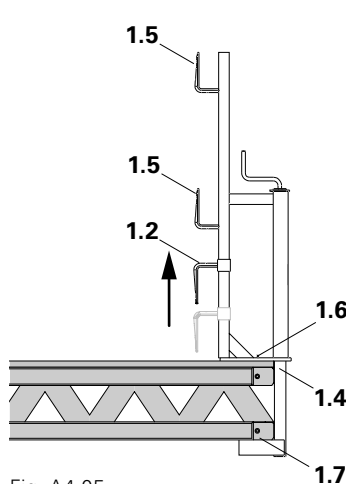


Fig. A4.05

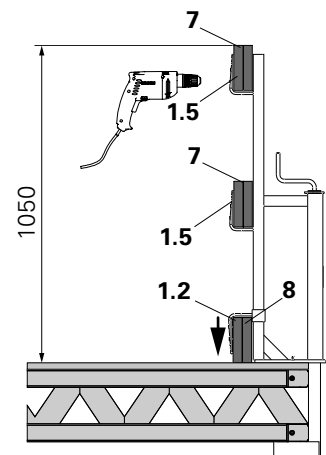


Fig. A4.06



After installation, a competent person must inspect the assembled safety system and approve for use.



- **Risk of falling! Before dismantling, suitable personal protective equipment against falling must be attached and used as intended!**
- **Store and transport all dismantled components ensuring that no unintentional change in their position is possible!**



Dismantling operations may only commence if a qualified person has given the go-ahead!

## Dismantling guardrails and toe boards

1. Remove screws or nails from the guardrails and toe boards.
2. Remove guardrails.
3. Push toe board holder (1.2) on the Guardrail Holder-2 upwards, and remove toe board.
4. Release Guardrail Holder-2 (1) by turning the crank (1.1) in an anti-clockwise direction. (Fig. A5.01)
5. Remove Guardrail Holder-2, clean it, and check for any signs of damage.
6. Before placing in the PERI Crate Pallet 80x120, ensure the Guardrail Holder-2 is retracted. (see Section A1)

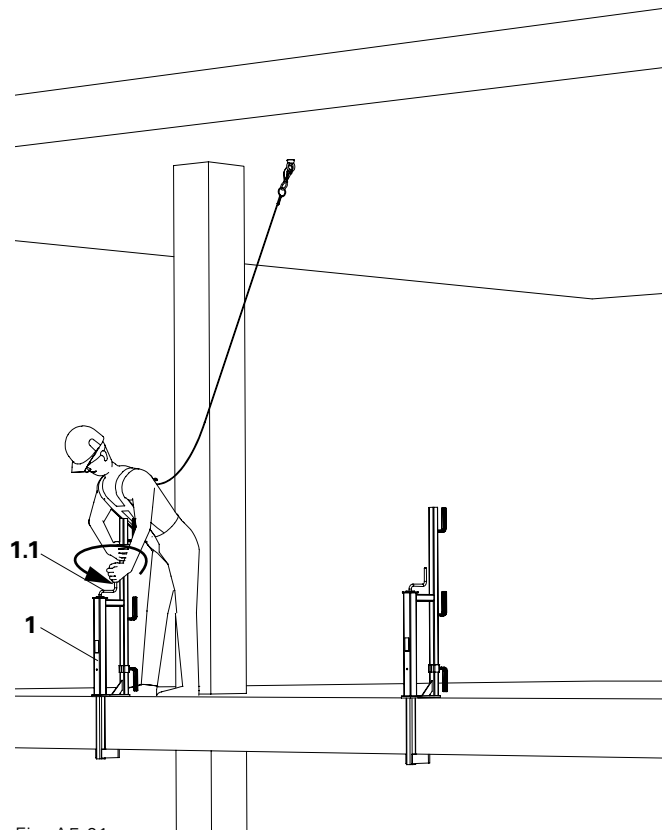


Fig. A5.01

## Dismantling the Side Mesh Barrier PMB

1. Release the Clamping Holder GH-2 (6) by means of light hammer blows, and pull out upwards. (Fig. A5.02)
2. Push the toe board holder (1.2) on the Guardrail Holder-2 upwards, and pull out Side Mesh Barrier PMB (5). (Fig. A4.03)
3. Lift the Side Mesh Barrier PMB (5) upwards and remove, then place in the PERI Pallet EP 110. (see Section A1)
4. Release the Guardrail Holder-2 (1) by turning the crank (1.1) in an anti-clockwise direction. (Fig. A5.01)
5. Remove Guardrail Holder-2, clean it, and check for any signs of damage.
6. Before placing in the PERI Crate Pallet 80x120, ensure the Guardrail Holder-2 is retracted. (see Section A1)

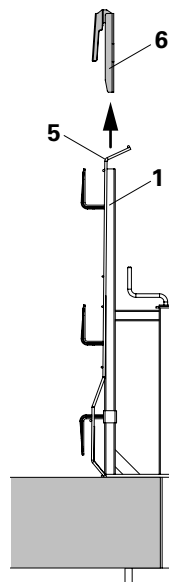


Fig. A5.02

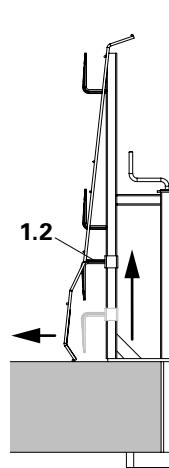


Fig. A5.03

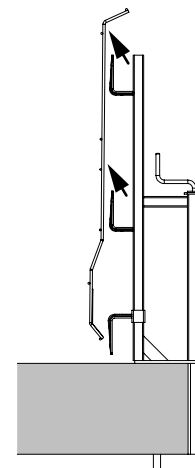


Fig. A5.04



# Guardrail Holder-2



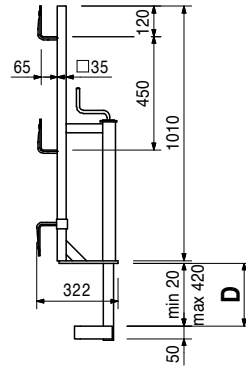
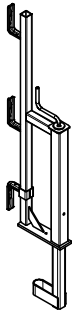
Item no.	Weight kg
115151	10.300

## Guardrail Holder-2

For mounting a fall protection on concrete slabs for up to 40 cm slab thicknesses, or formwork girder / timber of up to 30 cm height.

## Technical Data

Maximum distance with side-mesh-barrier:  
PMB 260 max. 2.40 m, PMB 130 max. 1.20 m.



117326	19.700
117327	10.500

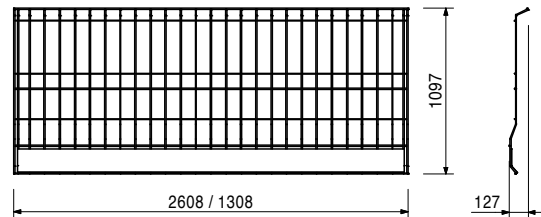
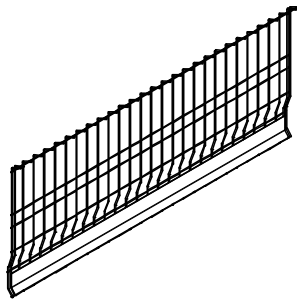
## Side-Mesh-Barrier PMB

### Side-Mesh-Barrier PMB 260

### Side-Mesh-Barrier PMB 130

## Technical Data

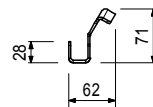
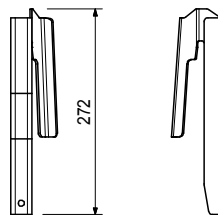
Maximum distance with side-mesh-barrier:  
PMB 260 max. 2.40 m, PMB 130 max. 1.20 m.



129833	0.595
--------	-------

## Clamping Holder GH-2 / PMB

For assembling a Side-Mesh-Barrier PMB on Guardrail Holder-2.







**The optimal System  
for every Project and  
every Requirement**



**Wall Formwork**



**Column Formwork**



**Slab Formwork**



**Climbing Systems**



**Bridge Formwork**



**Tunnel Formwork**



**Shoring Systems**



**Construction Scaffold**



**Facade Scaffold**



**Industrial Scaffold**



**Access**



**Protection Scaffold**



**Safety Systems**



**System-Independent Accessories**



**Services**



**PERI GmbH**  
**Formwork Scaffolding Engineering**  
 Rudolf-Diesel-Strasse 19  
 89264 Weissenhorn  
 Germany  
 Tel. +49 (0)7309.950-0  
 Fax +49 (0)7309.951-0  
 info@peri.com  
 www.peri.com