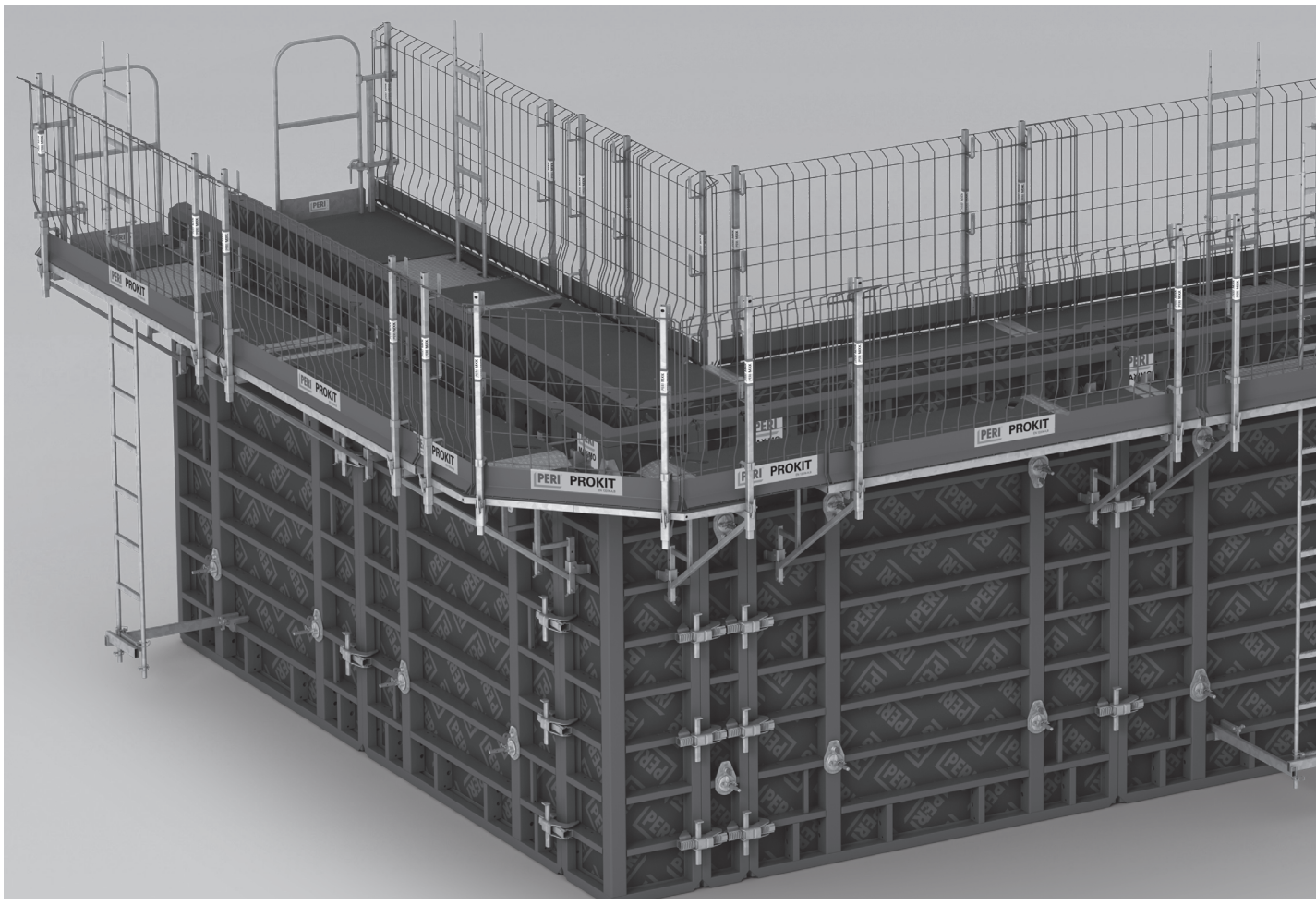
MAXIMO MXK
Bracket System

Instructions for Assembly and Use – Standard configuration – Version 2.02



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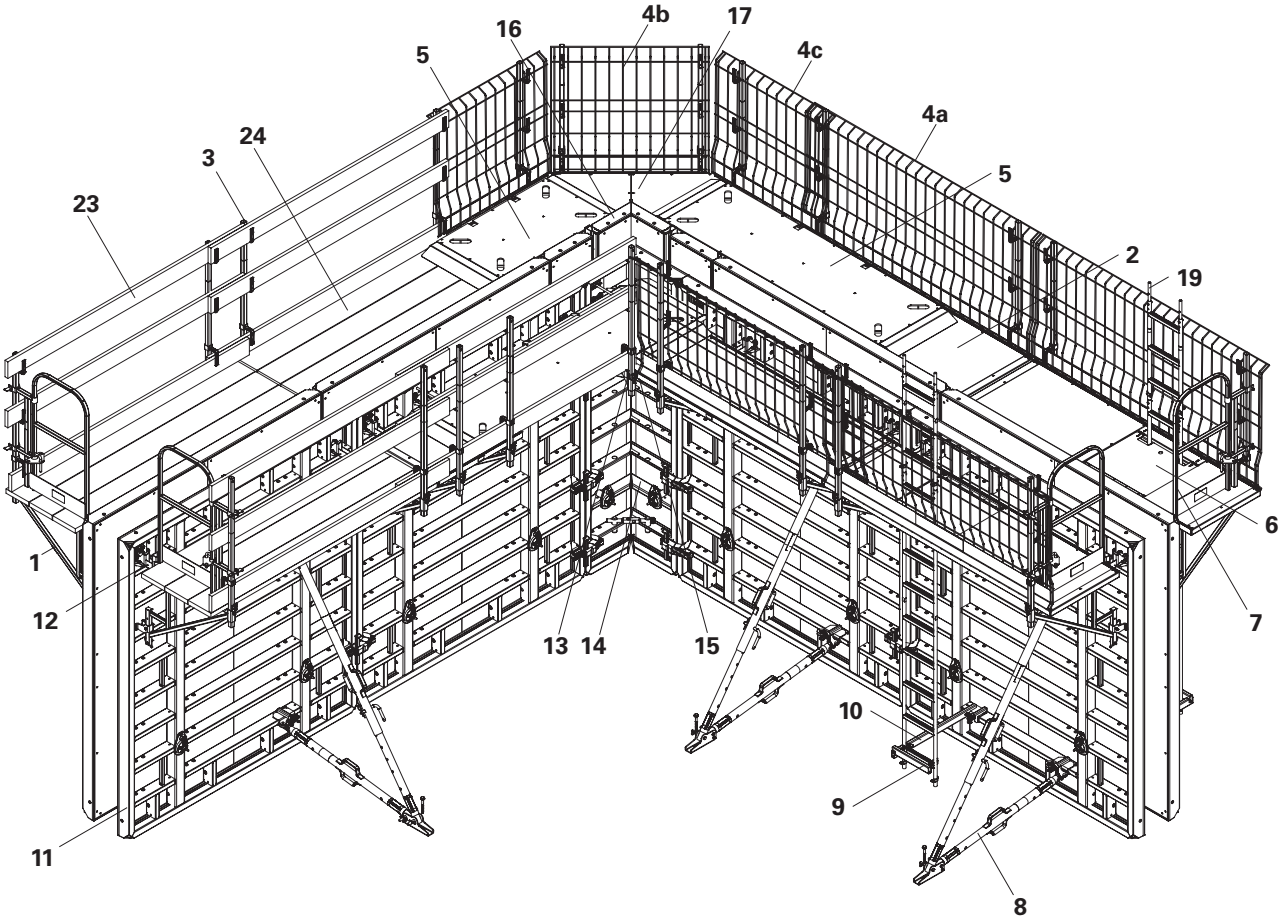
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MAXIMO Bracket System MXK 96

Overview

Main components



1 Scaffold Bracket MXK
2 Scaffold Deck MXK
3 Guardrail Post MXK
4a Lateral protection barrier 240
4b Lateral protection barrier 120
4c Lateral protection barrier 90
5 Compensation Deck MXK / MXK short
6 Scaffold Deck MXK 240 w. Hatch
7 Stopend Rail MXK
8 Push-Pull Props RS
9 Ladder MXP 270
10 Ladder Connector MXK
11 MAXIMO Panel (270x240)
12 Intermediate board
13 Ins.Cor. Adapter MAR MXK
14 Inside Corner MXI (270x60)
15 Inside Corner Post Holder MXK
16 Outs. Corner MXA 270x45
17 External Corner Deck MXK
19 Ladder RFP 90
23 Lateral protection with boards
24 Deck with planks

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.

Structure 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:
– Horizontal ledger
corresponds to:
– Horizontal Ledger UH Plus
– Horizontal Ledger UH-2.

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/scaffolding 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.

- **In other countries, ensure that the relevant national guidelines and regulations in the respective current version are complied with!**
- **If no country-specific regulations are available, it is recommended to proceed according to German guidelines and regulations.**

* Valid in Germany: 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 a Bracket System MXK.

The MAXIMO Bracket System MXK is a variable bracket system.
It was developed for the MAXIMO and TRIO panelled formwork systems as a flexible individual or complete system that can be mounted predominantly on a safe floor with:
– ladder access and self-locking access hatch,
– safety guardrails,
– solutions for corners,
– and longitudinal infills.

Features
- The system width is adapted to suit the panel widths of the formwork system.
- After the initial assembly, the core components remain attached to the panels when being moved on the construction site.

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

Technical data
- Scaffold Deck MXK:
  Permissible load: 150 kg/m² load class 2 in accordance with EN 12811-1
- Width of bracket MXK in cm (scaffold deck width):
  – 240 cm
  – 120 cm
  – 90 cm
- Width of Compensation Deck MXK in cm:
  – 295.5 cm
- Width of Compensation Deck MXK short in cm:
  – 149.0 cm

Intended use
- Use of the Bracket System MXK as 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)
- Preventing personnel from falling
- Protection of bystanders (passers-by) from falling objects and dirt.

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

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.

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.



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.

Spray the formwork on both sides with concrete release agent before each use; this makes the formwork easier and faster to clean. Spray the concrete release agent very thinly and evenly!

Do not spray Working Platforms and access routes with concrete release agent.
Slip hazard.

Spray the rear side of the formwork with water immediately after concreting; this avoids any time-consuming and costly cleaning operations.

When used continuously, spray the formlining elements with concrete release agent immediately after deshuttering; then clean by means of a scraper, brush or rubber lip scraper.
Important: do not clean formlining made of plywood with high-pressure equipment. This could result in the formlining being damaged.

Fix recesses and built-in parts with double-head nails; as a result, the nails can easily be removed later, and damage to the formlining is largely avoided.

Close all unused tie holes with plugs; this eliminates any subsequent cleaning or repair work.
Tie holes accidentally blocked with concrete are cleared by means of a steel pin from the formlining side.

When placing bundles of reinforcement bars or other heavy objects on horizontally supported formwork elements, suitable support, e.g. squared timbers, is to be used; this prevents impressions and damage to the formlining to a large extent.

Internal concrete vibrators should be fitted with rubber caps if possible; as a result, any damage to the formlining is reduced if the internal vibrator is accidentally inserted between the reinforcement and formlining.

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

- Posters
  - MAXIMO
  - TRIO
- Instructions for Assembly and Use:
  - MAXIMO
  - MAXIMO MX 15
  - MAXIMO MX 18
  - TRIO
- Instructions for Use:
  - Pallets and stacking devices
  - Lifting Hook MAXIMO 1.5 t
  - Lifting Gear Combi MX

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.

Operation with damaged or incomplete load-carrying equipment is not permissible.

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

Additional wind attack surfaces resulting from icing and additional masses were not taken into account.
Superimposition of ice loads with snow and/or wind were not taken into account.
If necessary, these should be verified by way of a project-specific calculation.

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, this makes it possible to:

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

Clean the frame of the MX-2 panel (not the formlining) with a high-pressure cleaner and a water pressure of ≤1,000 bar and a lance distance to the profile of at least 20 cm. PERI recommends using a lower water pressure so as not to damage the RFID inlay.



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, the current safety regulations and guidelines valid in the respective countries must be observed.

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 EN 338.
- Scaffolding tubes:
  Galvanised steel tubes with minimum dimensions Ø 48.3 x 3.2 mm in accordance with EN 12811-1:2003 4.2.1.2.
- Scaffolding tube couplings:
  according to EN 74-1 and EN 74-2.

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

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 Instructions for Assembly and Use, the contractor must create installation instructions in order to guarantee safe assembly, modification and dismantling of the climbing unit.

Before initial use, the safe functioning of the scaffold must be checked by a person qualified to carry out the inspection. The results of the inspection must be documented in an inspection log.



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 through the provision of safe access ways. cordon off and clearly mark danger zones.
- guarantee stability during all stages of construction, in particular during assembly, modification and dismantling operations.
- 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

Strike components only when the concrete has sufficiently hardened and the person in charge has given the go-ahead for deshuttering to take place.

Anchoring is to take place only if the anchorage has sufficient concrete strength.

Inspection of the anchoring and associated components must be carried out by the contractor (user).

Enclosure of the platforms or mounting of additional surface areas is not permissible because wind load calculations will be affected.

The platforms are to be inspected for damage at regular intervals by authorised and competent personnel.

Dirt that affects functionality is to be removed immediately.

When stepping onto platforms, watch out for hazards and use PPE if necessary.

When working at open edges of the building, such as when moving the platforms, site personnel must always be secured against falling, e.g. with PPE. Cordon off danger zones.
(See MAXIMO and TRIO anchoring points)
(Section "Fig. A2.01" on page 14)

Site personnel, construction materials or tools must not be transported with the crane during moving operations. Exceptions to this can be determined through the operational working and assembly instructions on the basis of a corresponding risk assessment carried out by the contractor.

When operating lifting equipment near the platforms there is the risk of accidental detachment of the load.
This risk is to be taken into consideration when creating the site-specific work and assembly instructions.

BGI 663
"Handling instructions for the use of work and safety scaffolding".
Extract taken from Section 7:
- For their own safety, it is important that site personnel use the designated access means for ascents and descents, and do not climb or jump off the scaffold.
- Do not jump on the scaffold decks or throw any objects off the side.
- When storing material, leave a sufficiently wide passageway on the fitting.

Storage and transportation

General information
- Store and transport components in such a way that no unintentional change in their position is possible. Detach load-lifting accessories and lifting gear from the lowered components only if they are in a stable position and no unintentional change is possible.
- Do not drop the components.
- Only ever use approved and inspected means of transportation from PERI including lashing, lifting gear and slings.
- Only ever attach the means of transport to the intended attachment points with a positive fit using suitable lifting gear and slings.

During the relocation procedure
- Ensure that components are picked up and set down in such a way that unintentional falling over, falling apart, sliding, falling down or rolling is avoided.
- Always use ropes to guide components or assemblies that are susceptible to wind when moving them with a crane.
- No one is allowed to remain under the suspended load.
- The access areas on the construction site must be free of obstacles and tripping hazards, and must also be slip-resistant.
- For transportation, the substrate must have sufficient load-bearing capacity.
- Use original PERI storage and transport systems, e.g. crate pallets, pallets or stacking devices.

A1 Storage and transportation

Storage

- **The Instructions for Use for PERI pallets and stacking devices must be observed!**
- **Always ensure that storage and transportation units are securely stacked using suitable lashing equipment!**
- **Use PERI load-bearing and lifting gear.**

Stacking height on the storage area:
Max. 2 stacks on top of each other.

Stacking

1. Place the first scaffold deck upside down on a Euro pallet.
2. Position three squared timbers.
3. Place the second deck on the squared timbers with the top side facing upwards.
   → The steel rails (2.3) must be interlocked.
   (Fig. A1.01)
4. Place the third deck upside down on the second deck.
   (Fig. A1.02)
5. Position three squared timbers.
6. Repeat steps 3 to 5 three times.
7. Place the final deck with the top facing upwards.
8. Tightly lash the decks with packaging tape or tension belts.
   → Decks must be secured to prevent them from falling off and sliding.
   (Fig. A1.03)
8. Place the scaffold brackets horizontally in the crate pallet.
   (Fig. A1.04)

Store and transport components in such a way that no unintentional change in their position is possible. Detach load-lifting accessories and lifting gear from the lowered components only if they are in a stable position and no unintentional change is possible.

Follow the instructions provided in the "Storage and Transportation" section.

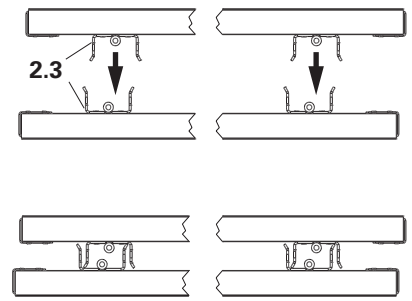


Fig. A1.01

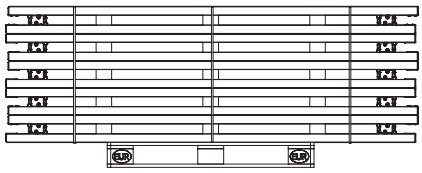


Fig. A1.02

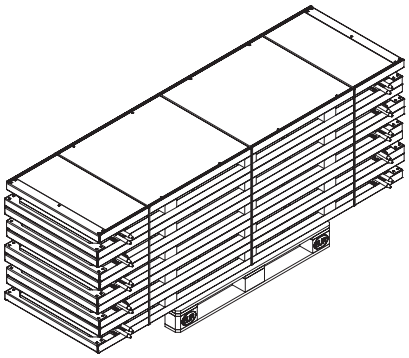


Fig. A1.03

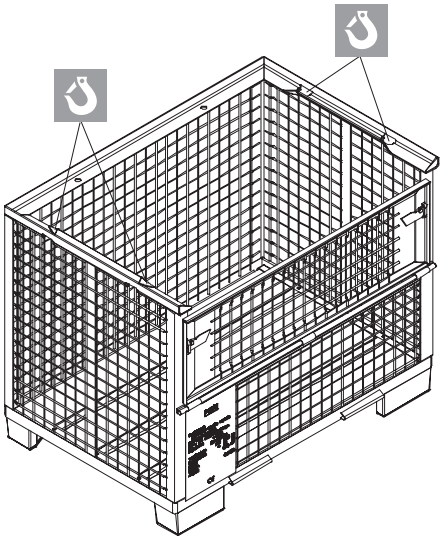


Fig. A1.04

Transportation

- **Standing under a suspended load is prohibited!**
- **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 release the lifting hooks until the panels are in a stable position!**

The number of panels that can be transported depends on the respective national transport regulations.

Number of panels per stack for transportation by truck.
Size: max. 10 pieces. (Fig. A1.03)

Only panels of the same size are to be transported in one stack!

PERI pallets and stacking devices are suitable for lifting by crane or forklift. They can also be moved with the PERI pallet lifting trolley.

Do not drop the components.

During movement procedures ensure that components are picked up and set down in such a way that unintentional toppling, falling apart, sliding, falling or rolling is prevented.

Further information on the subject of transport can be found in the instructions for use for pallets and stacking devices

A2 Anchoring points for PPE on MAXIMO and MAXIMO MX-2

Anchoring points for PPE on MAXIMO Panel Formwork MX 15 and MX 18

It is possible to anchor yourself to the MAXIMO Formwork with PPE. (Fig. A2.01)

The stability of the panel formwork must be guaranteed at all times! The formwork must be assembled in accordance with the risk assessment, referring to the relevant Instructions for Assembly and Use if necessary!

MAXIMO provides the following anchoring points:

- Attachment point 1: flanged through-hole in the edge profile.
- Attachment point 2: upper, horizontal perforated strut, second hole from the edge profile (hole facing the centre of the panel).
- Attachment point 3: through-hole in centre perforated strut, second hole from the edge profile (hole facing the centre of the panel).

The points shown here have been verified in accordance with DGUV GS-PS-15 "Principles for testing anchoring points in scaffolding and formwork systems" (as of 01.2023).

The PPE used* must be compatible with the anchoring points. The contractor makes the selection, carries out the documentation, makes everything available and ensures compliance.

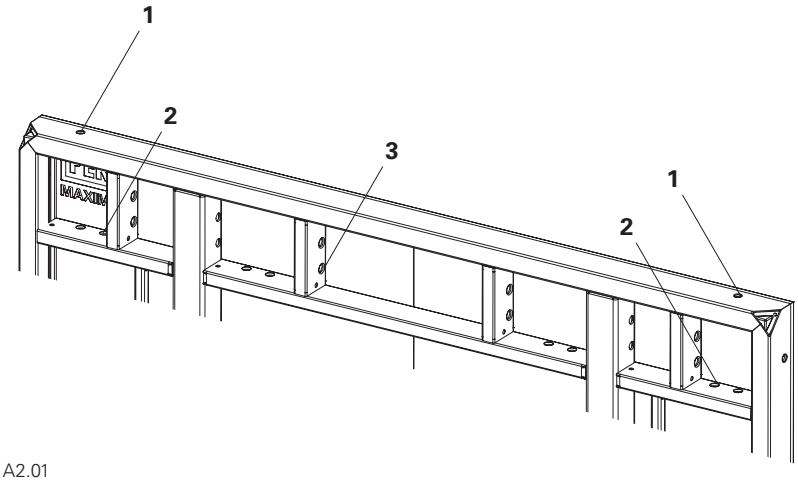


Fig. A2.01

* e.g. webbing sling with a permissible breaking load of 26 kN and a width of 25 mm in accordance with EN 354 and EN 795, length 0.6 m.

A2 Anchoring points for PPE on MAXIMO and MAXIMO MX-2

- Anchoring point 1:
Flanged through-hole in the edge profile.
(Fig. A2.02).



Fig. A2.02

- Anchoring point 2:
Upper, horizontal perforated strut,
second hole from the edge profile
(hole facing the centre of the panel).
(Fig. A2.03).



Fig. A2.03

- Anchoring point 3:
Through-hole in centre perforated strut,
second hole from the edge profile
(hole facing the centre of the panel).
(Fig. A2.04).



Fig. A2.04

A2 Anchoring points for PPE on MAXIMO and MAXIMO MX-2

- It is possible to anchor yourself to the MAXIMO MX-2 Panel Formwork with PPE.
  (Fig. A2.05)
- The stability of the panel formwork must be guaranteed at all times.
- The formwork must be assembled in accordance with the risk assessment, referring to the relevant Instructions for Assembly and Use if necessary!

The MAXIMO MX-2 Panel Formwork provides the following anchoring points:

- Attachment point 1: flanged through-hole in the edge profile
- Attachment point 2: upper horizontal perforated strut, second hole from the edge profile (hole facing the centre of the panel)
- Attachment point 3: through-hole in vertical perforated strut, second hole from the edge profile (hole facing the centre of the panel)
- Attachment point 4: on the positioning handle of the panel

- The points shown here have been verified in accordance with DGUV GS-PS-15 "Principles for testing anchoring points in scaffolding and formwork systems" (as of 01.2023).
- The PPE used* must be compatible with the anchoring points. The contractor makes the selection, carries out the documentation, makes everything available and ensures compliance.

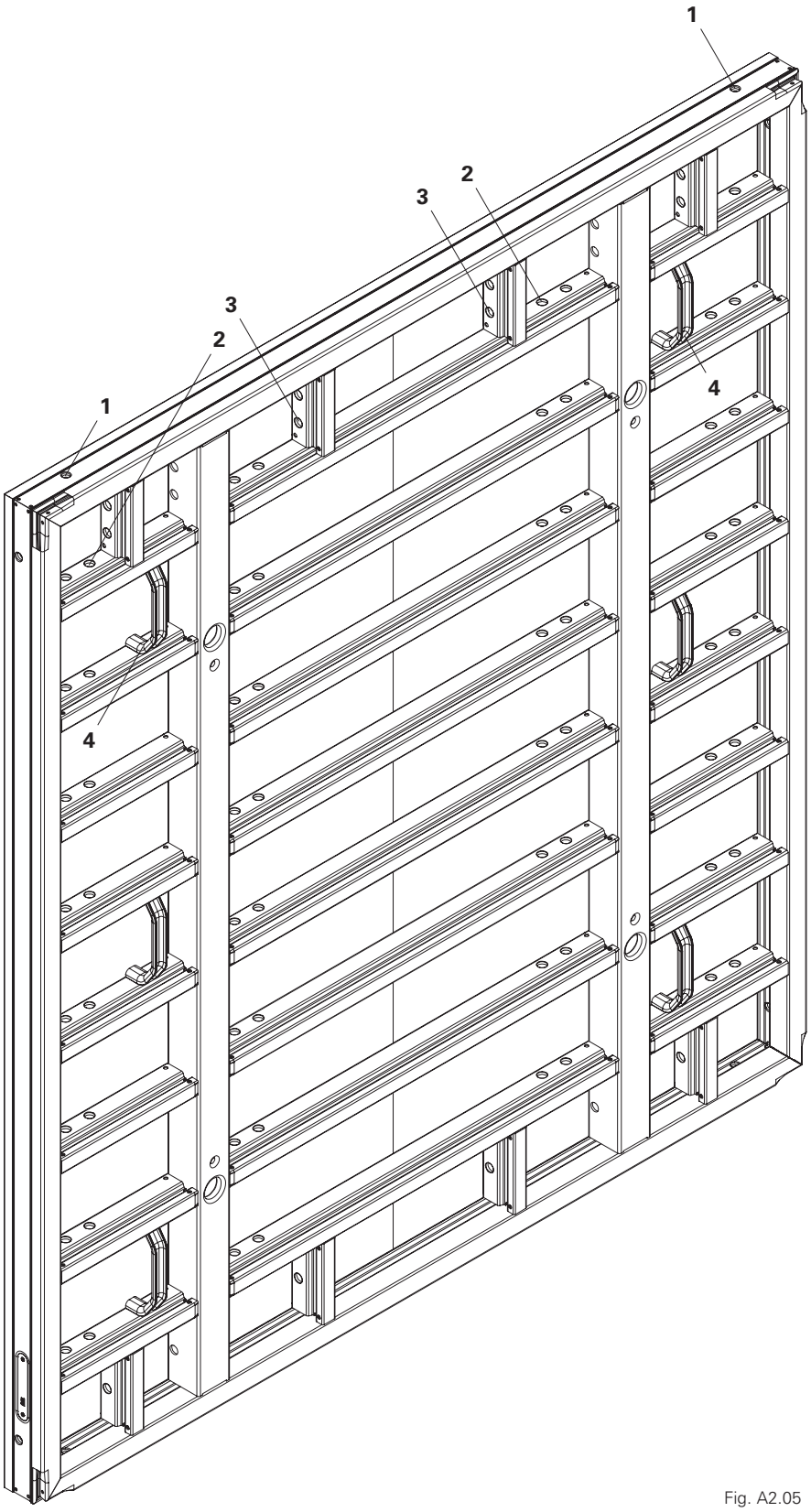


Fig. A2.05

* e.g. webbing sling with a permissible breaking load of 26 kN and a width of 25 mm in accordance with EN 354 and EN 795, length 0.6 m.

A2 Anchoring points for PPE on MAXIMO and MAXIMO MX-2

Anchoring points on the formwork with webbing sling carabiner for PPE:

Anchoring point 1:
Flanged through-hole in the edge profile (Fig. A2.06)



Fig. A2.06

Anchoring point 2:
Upper horizontal perforated strut, second hole from the edge profile (hole facing the centre of the panel) (Fig. A2.07)



Fig. A2.07

Anchoring point 3:
Through-hole in vertical perforated strut, second hole from the edge profile (hole facing the centre of the panel) (Fig. A2.08)



Fig. A2.08

Anchoring point 4:
On the positioning handle (**5.5a**) of Panel MX-2. (Fig. A2.09 + Fig. A2.09a)

There must be **no** PPE attached to the positioning handle (**5.5b**) of the Panels MX. (Fig. A2.09b)



Fig. A2.09

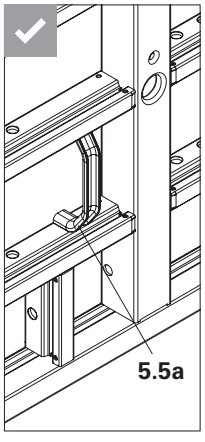


Fig. A2.09a

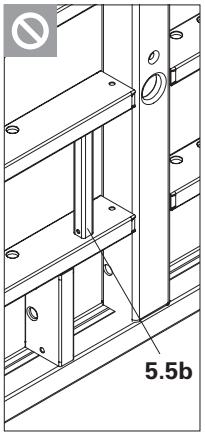


Fig. A2.09b

A3 Use of bracket system

Scaffold Brackets MXK and MXK-RS can be fitted to MAXIMO and TRIO panels.

Components:

1 Scaffold Bracket MXK / MXK-RS
2 Scaffold Deck MXK
3 Guardrail Post MXK
4 Lateral protection barrier
6 Scaffold Deck MXK 240 w. Hatch
7 Stopend Rail MXK
9 Ladder MXP 270
10 Ladder Connector MXK
19 Ladder RFP 90

The Scaffold Brackets MXK / MXK RS can be covered with planks on site. (Section "A6 Scaffold deck assembly" on page 31)

System decks are available in the following sizes:
- Scaffold Deck MXK 2.40 m
- Scaffold Deck MXK 1.20 m
- Scaffold Deck MXK 0.90 m

(Fig. A3.01 – Fig. A3.03)

External corners can be formed with External Corner Deck MXK (Section "A13 Assembly of External Corner MXK" on page 62), internal corners and filler areas (Section "A12 Assembly of Inside Corner MXK" on page 51), with Compensation Deck MXK / MXK short.

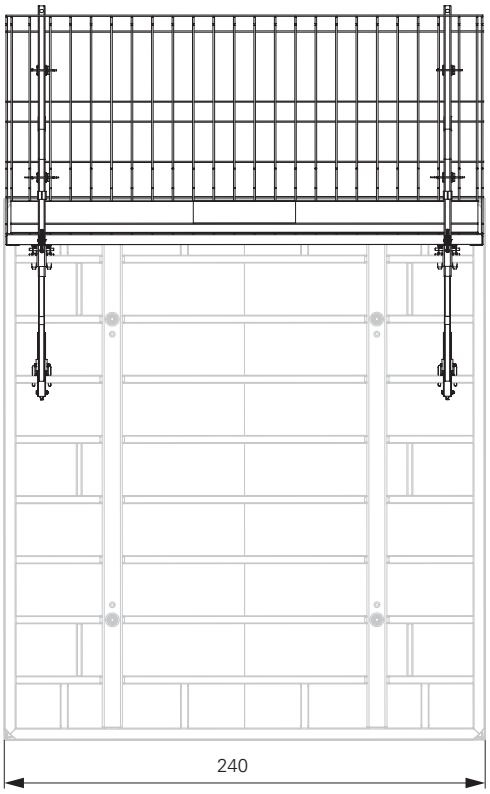


Fig. A3.01

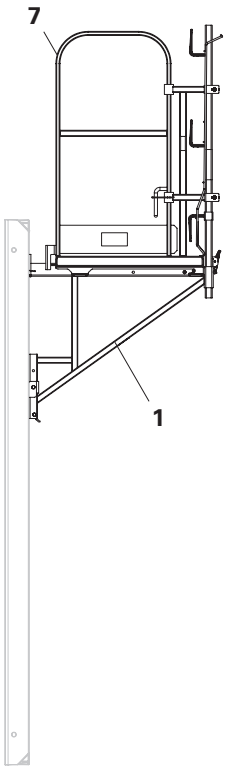


Fig. A3.01a

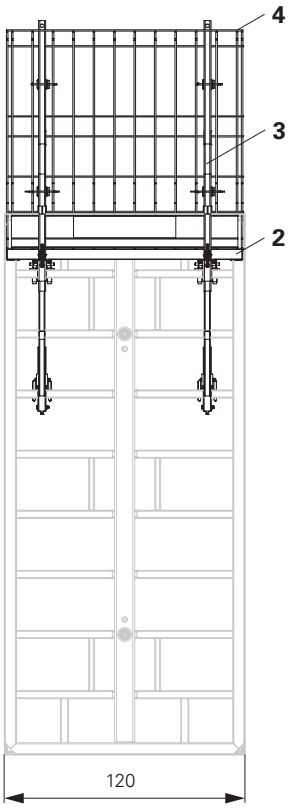


Fig. A3.02

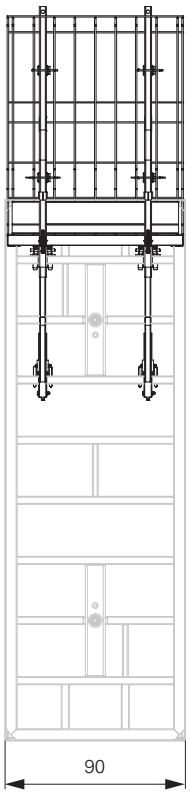


Fig. A3.03

Straight wall

Permissible load 150 kg/m².
Load class 2.

H = 2.70 m.
(Fig. A3.04 + Fig. A3.05)

Lateral protection and scaffold deck on site

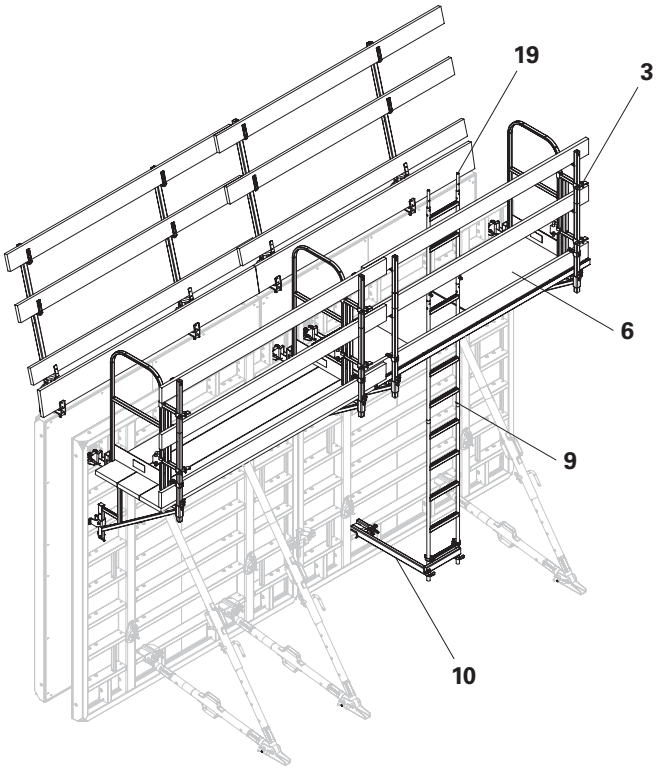


Fig. A3.04

Lateral protection barrier and Scaffold Deck MXK

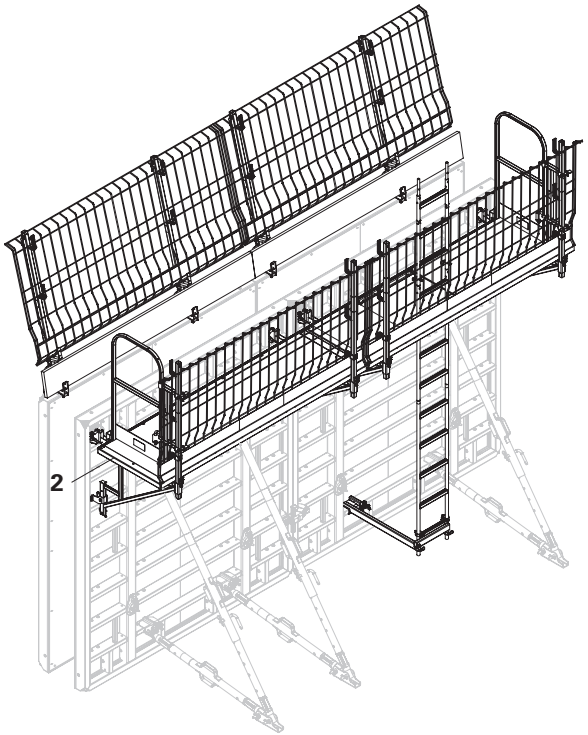


Fig. A3.05

A4 Assembly of Scaffold Bracket MXK

Warning

- The scaffold bracket (**1**) may fall due to incorrect assembly and cause serious irreversible injury or even death.
  ⇒ Follow the assembly instructions.
  ⇒ Assembly must be carried out by qualified personnel.
- Risk of crushing due to improper handling.
  ⇒ Use PPE

Components:

1	Scaffold Bracket MXK / MXK-RS
1.1	Connection head
1.8	Hook, spring-loaded
11.1	Panel strut

The Scaffold Bracket MXK (**1**) is fitted to the panel lying on the ground.

Assembly

1. Place the panel on squared timbers with the formlining facing downwards.

(Fig. A4.01)

2. Position the Scaffold Bracket MXK (**1**).

(Fig. A4.01)

3. Push the Scaffold Bracket MXK (**1**) with the top and bottom connection head (**1.1**) into the connection holes of the perforated struts.

(Fig. A4.02)

→ The Bracket MXK is correctly positioned if the hook (**1.8**) of the fail-safe device is positioned as shown in (Fig. A4.03) and (Fig. A4.03a + Fig. A4.04) .

Carry out a visual and functional check! Is the hook (**1.8**) of the fail-safe device holding the position with spring force?

→ If there is a lack of spring force, do not use Scaffold Bracket MXK (**1**).

(Fig. A4.03a)

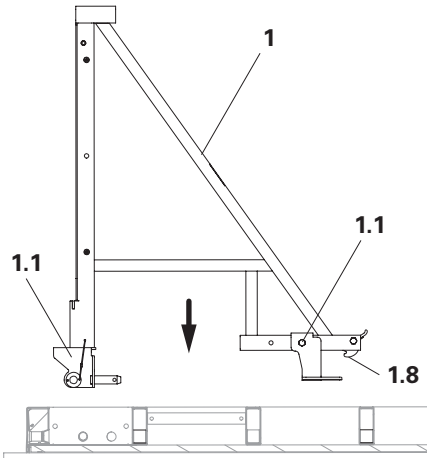


Fig. A4.01

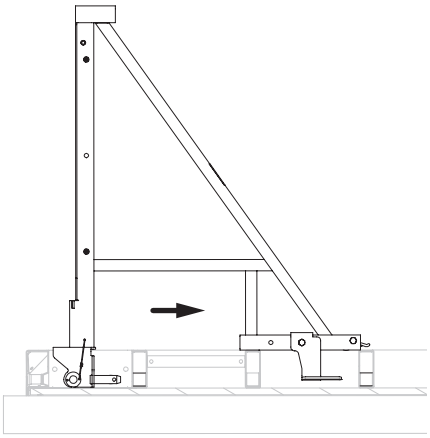


Fig. A4.02

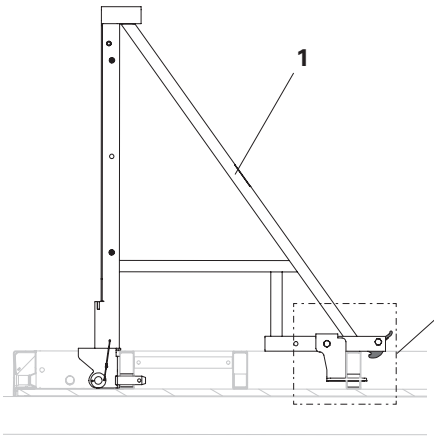


Fig. A4.03

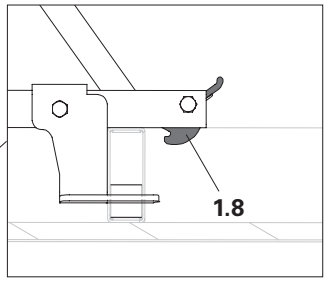


Fig. A4.03a

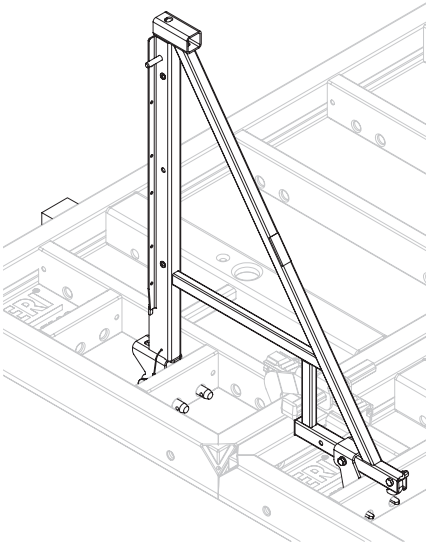


Fig. A4.04

90 cm panel height extension, preferred variant

The Scaffold Bracket MXK (**1**) is fitted to the panel lying on the ground above the panel joint.

Assembly

1. Place the panel on squared timbers with the formlining facing downwards.
2. Lower the Scaffold Bracket MXK (**1**) over the panel joint and slide the upper and lower connection head (**1.1**) into the connection holes of the panel strut (**11.1**).

(Fig. A4.05)

3. The Scaffold Bracket MXK (**1**) is secured when the spring-loaded hook (**1.8**) engages.

(Fig. A4.05 – Fig. A4.06a)

Is the spring-loaded hook (**1.8**) engaged?
(Fig. A4.05 – Fig. A4.06a)

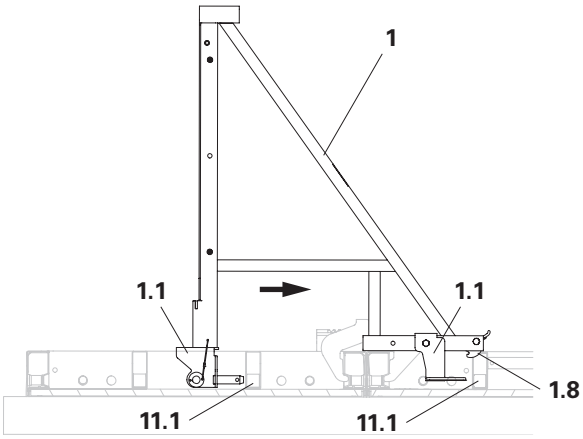


Fig. A4.05

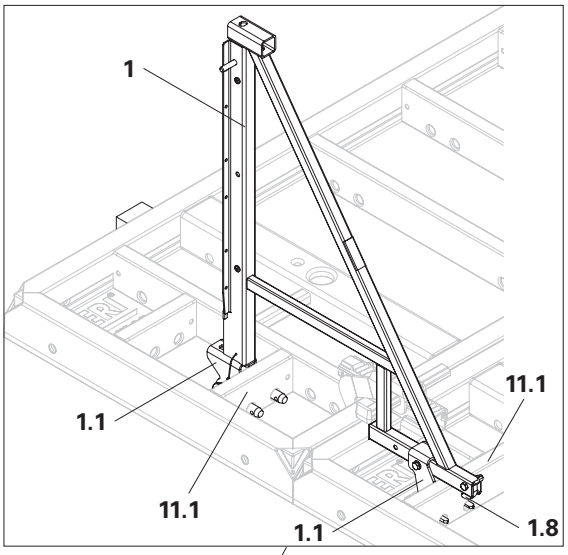


Fig. A4.06a

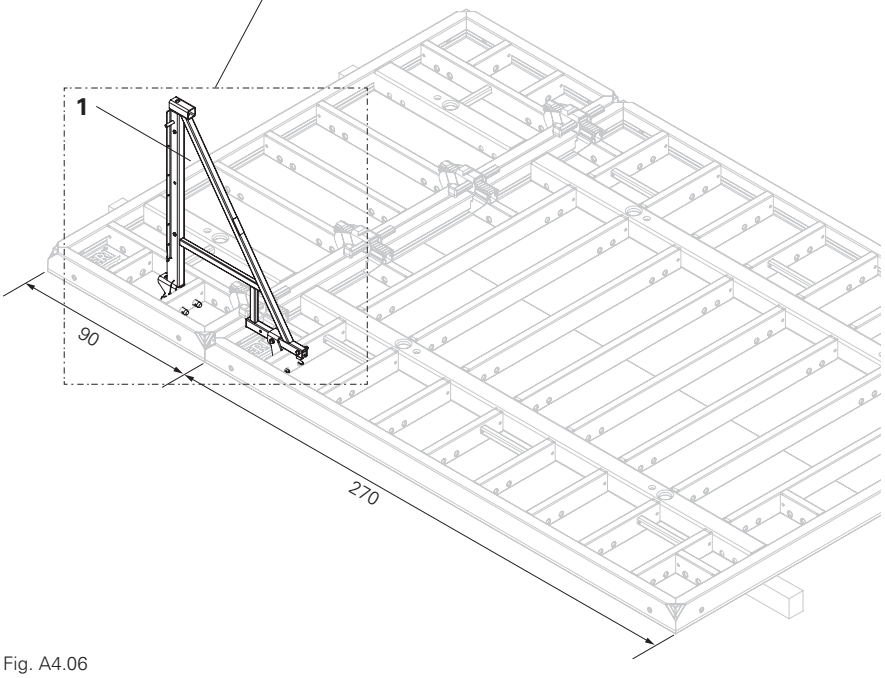


Fig. A4.06

Alternative

For height extensions with 90 cm panel heights, the linch pin (**1.4**) of the safety pin (**1.5**) must be used as an anti-drop-out mechanism!
(Fig. A4.08)

The Scaffold Bracket MXK (**1**) is fitted to the panel lying on the ground.

Components:

1 Scaffold Bracket MXK / MXK-RS
1.1 Connection head
1.4 Linch pin
1.5 Safety pins
1.8 Hook, spring-loaded
2 Scaffold Deck MXK
27 Push-Pull Spreader MX

Alternative assembly process

1. Place the panel on squared timbers with the formlining facing downwards.
2. Loosen the lower connection head (**1.1**) of the Scaffold Bracket MXK (**1**), move it from position (**A**) to position (**B**) and screw it in place.
(Fig. A4.07a)
3. Remove the linch pin (**1.4**) from the safety pin (**1.5**).
(Fig. A4.08)
4. Push the Scaffold Bracket MXK with the upper connection head (**1.1**) into the connection holes of the cross struts of the panel.
   → The hooks of the lower connection head (**1.1**) engage in the bead of the edge profile.
(Fig. A4.09 + Fig. A4.10)
5. Attach the linch pin (**1.4**) to the safety pin (**1.5**). (Fig. A4.11)
   → Scaffold Bracket MXK is now secured.

The lower connection head (**1.1**) must be removed after use!
(Fig. A4.07a)

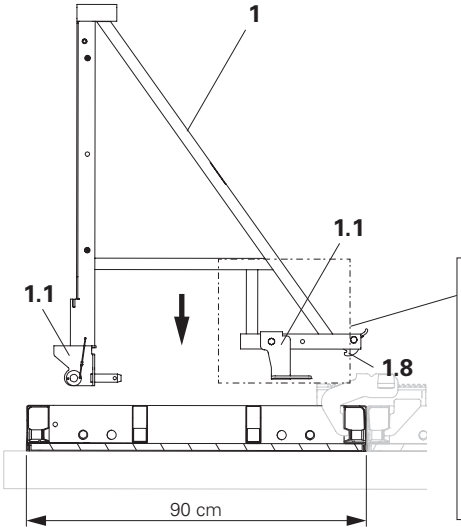


Fig. A4.07

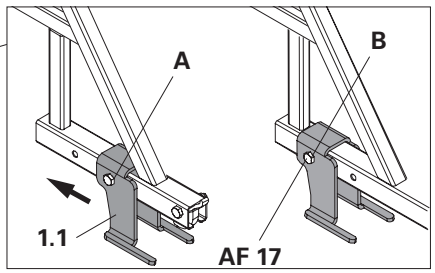


Fig. A4.07a

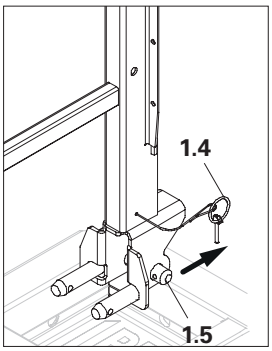


Fig. A4.08

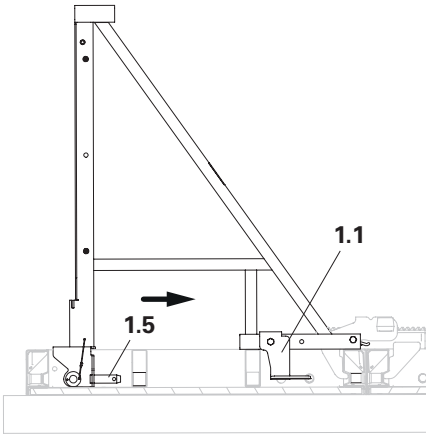


Fig. A4.09

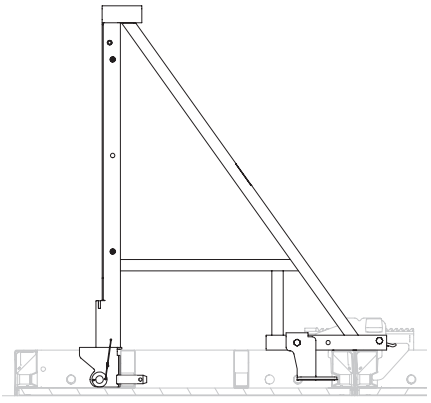


Fig. A4.10

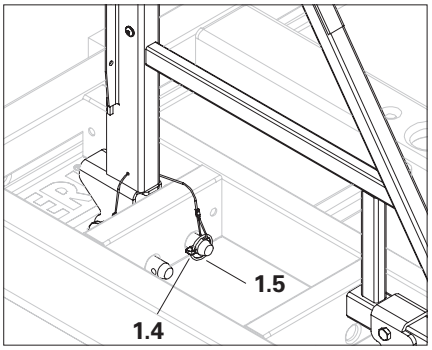


Fig. A4.11

- With 60 cm and 90 cm panels as the uppermost extension panel, tie points often collide with the deck level (Scaffold Deck MXK (**2**)).
- The Scaffold Bracket MXK / MXK RS (**1**) is positioned over the panel joint in this case.

(Fig. A4.12 + Fig. A4.13)

- In this case, anchoring with Tension and Compression Brace MX (**27**) from the top of the stacked panels is recommended.

(Fig. A4.12 + Fig. A4.13)

Seal any unnecessary or unused tie points in the panel with sealing plugs if necessary.

Height extension with 60 cm panel

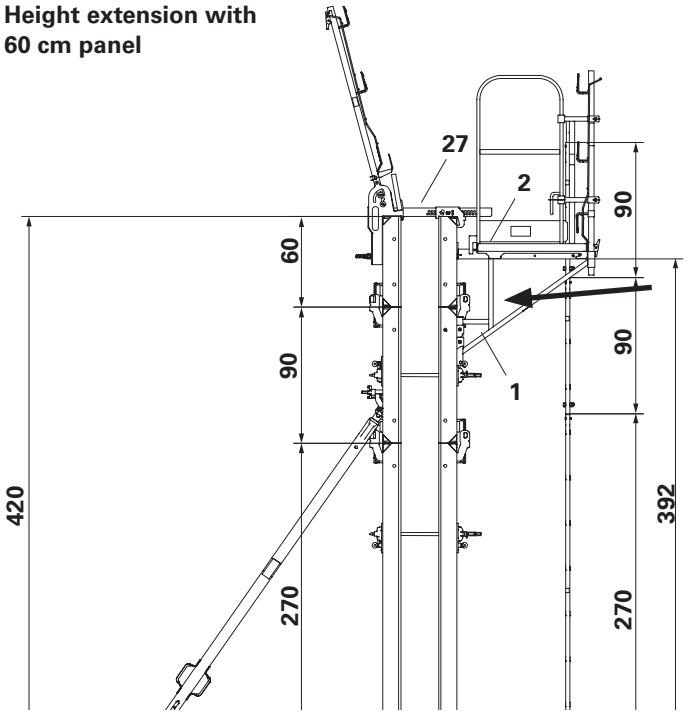


Fig. A4.12

Height extension with 90 cm panel

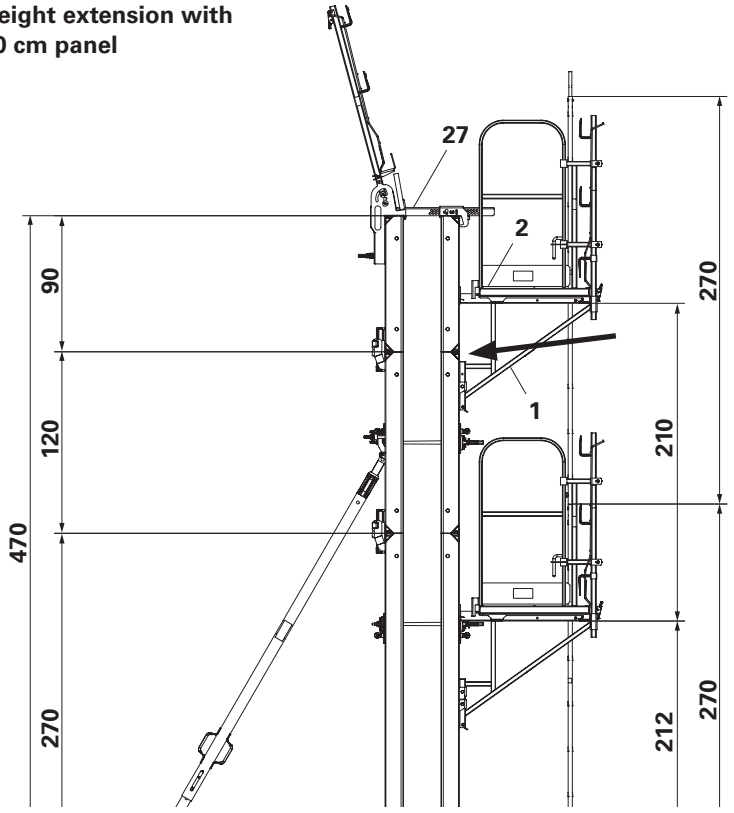


Fig. A4.13

Vertical panel struts

- Use the safety pin as an anti-dropout mechanism for assembly operations on vertical panel struts!
- The Scaffold Bracket MXK (**1**) is fitted to the panel lying on the ground. (Section "A6 Scaffold deck assembly" on page 31).

Components:

1 Scaffold Bracket MXK / MXK-RS
1.1 Connection head
1.2 Double hook
1.3 Three-winged nut
1.4 Linch pin
1.5 Safety pins
1.6 Hole
1.8 Hook, spring-loaded
2 Scaffold Deck MXK
11.1 Panel strut

Assembly

1. Place the panel on squared timbers with the formlining facing downwards.
2. Remove the linch pin (**1.4**) from the hole (**1.6**) of the safety pin (**1.5**).
(Fig. A4.14 + Fig. A4.14a)
3. Pull the safety pin (**1.5**) out of Scaffold Bracket MXK (**1**).
(Fig. A4.14 + Fig. A4.14a)
4. Position the Scaffold Bracket MXK (**1**) on the vertical panel strut (**11.1**).
(Fig. A4.15 – Fig. A4.17)
5. Insert safety pin through the scaffold bracket and panel strut.
(Fig. A4.17 + Fig. A4.17a)
6. Push linch pin (**1.4**) through the hole (**1.6**) of the safety pin (**1.5**) and secure.
(Fig. A4.18 + Fig. A4.18a)
   → Scaffold Bracket MXK is now secured.
   → Scaffold Bracket MXK rests on the horizontal panel strut (it is irrelevant whether the connection head is bolted in position (**A**) or (**B**).
(Fig. A4.15)

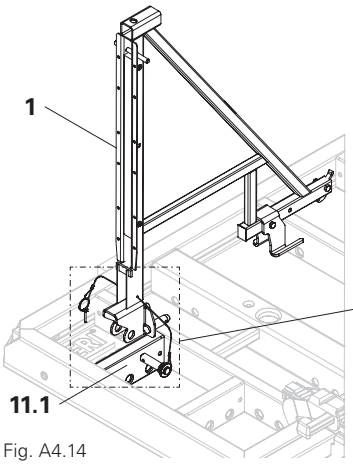


Fig. A4.14

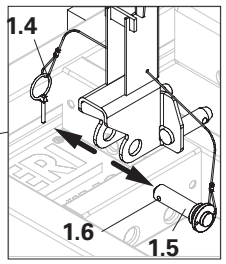
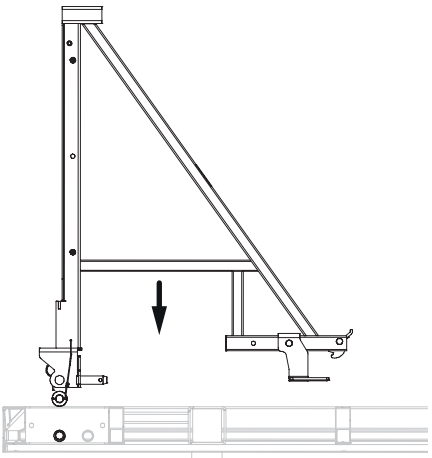
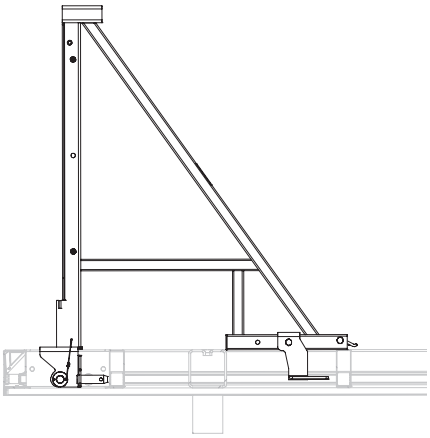
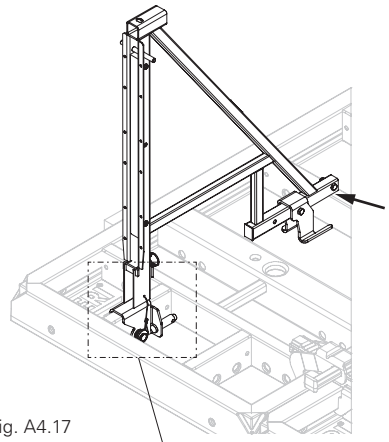
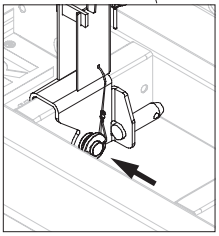


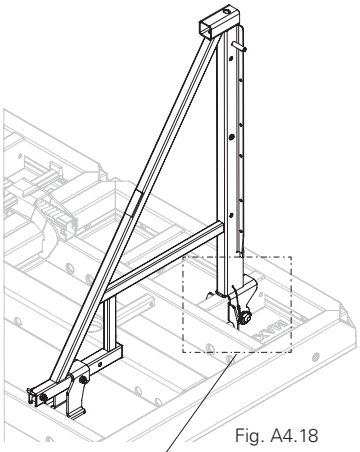
Fig. A4.14a


Fig. A4.15


Fig. A4.16


Fig. A4.17


Fig. A4.17a


Fig. A4.18

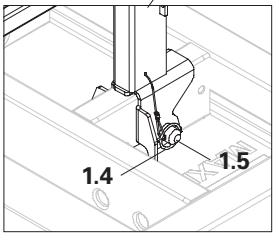


Fig. A4.18a

Horizontal panel struts

The Scaffold Bracket MXK-RS (**1**) is fitted to the panel lying on the ground.

Assembly

1. Place the panel on squared timbers with the formlining facing downwards.

(Fig. A5.01 + Fig. A5.01a)

2. Hook the Scaffold Bracket MXK-RS (**1**) with the upper connection head (**1.1**) at an angle into the connection holes of the horizontal panel strut. The support plate must be positioned on the panel strut.

(Fig. A5.02 + Fig. A5.02a)

3. Push the Scaffold Bracket MXK-RS with the double hook (**1.2**) into the connection holes of the horizontal panel strut. The console bracket must be fully supported.

(Fig. A5.03 + Fig. A5.03a)

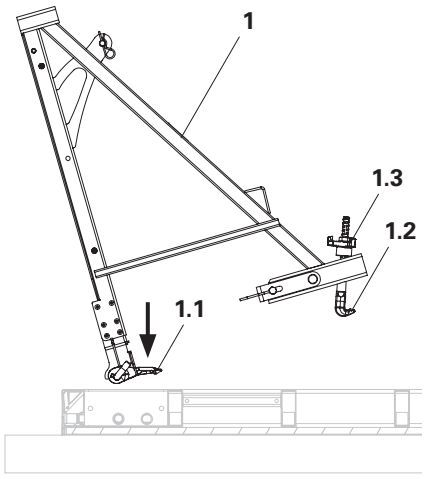


Fig. A5.01

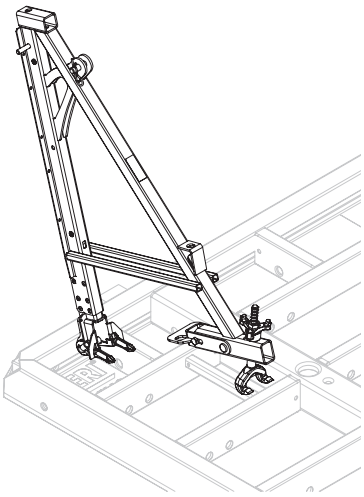


Fig. A5.01a

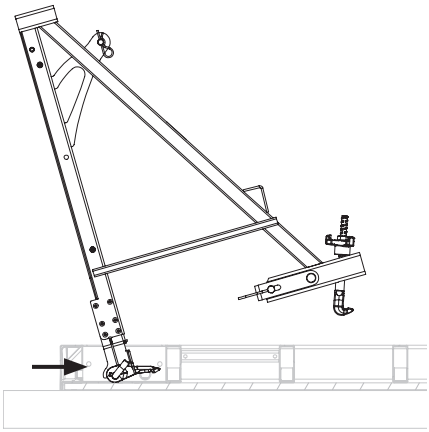


Fig. A5.02

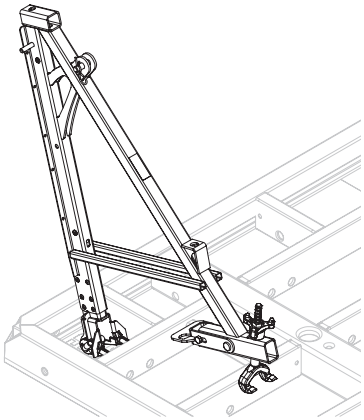


Fig. A5.02a

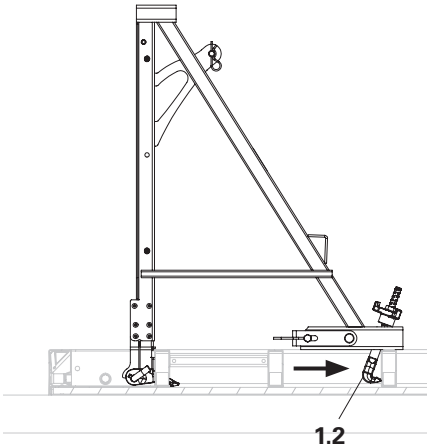


Fig. A5.03

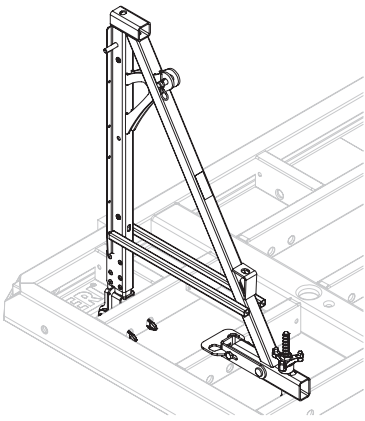


Fig. A5.03a

4. Fasten the three-wing nut (**1.3**) with a hammer or ratchet AF 27.

(Fig. A5.04 + Fig. A5.04a + Fig. A5.04b)

→ The Bracket MXK-RS is correctly installed when the double hook (**1.2**) is positioned and fastened as shown in (Fig. A5.04).

- The Scaffold Bracket MXK-RS provides the possibility of connecting a push-pull prop. Regarding the assembly and influence widths, see the design information for the Scaffold Bracket MXK-RS!

(Section "Tab. A5.01" on page 29)

- The permissible forces and influence widths of the push-pull props can be found in chapter C2.

(Section "C2 Permissible forces and influence widths of the push-pull props" on page 92)

- For height extensions with a 60 cm panel, see Section "A4 Assembly of Scaffold Bracket MXK" on page 21.
- For the preferred variant of the height extension with 90 cm panel, see Section "A4 Assembly of Scaffold Bracket MXK" on page 21.

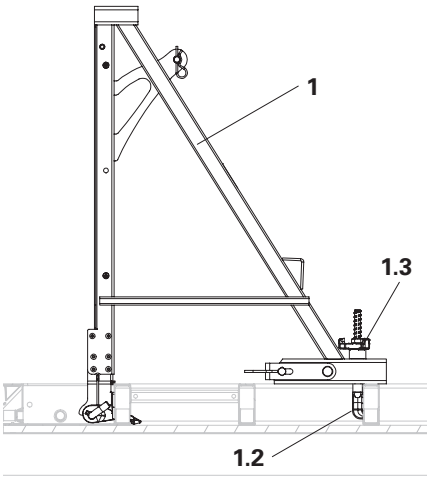


Fig. A5.04

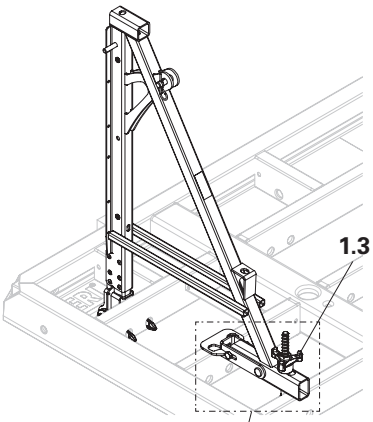


Fig. A5.04a

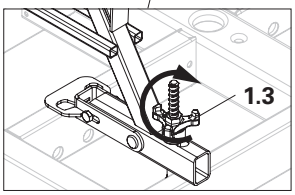


Fig. A5.04b

Vertical panel struts

Use the safety pin as an anti-dropout mechanism for assembly operations on vertical panel struts!

The Scaffold Bracket MXK-RS (**1**) is fitted to the panel lying on the ground. (Section "A6 Scaffold deck assembly" on page 31).

Components:

1	Scaffold Bracket MXK / MXK-RS
1.2	Double hook
1.3	Three-winged nut
1.5	Safety pins
1.7	Curved bolt
1.11	Cotter pin
1.12	Pull tab

Assembly

1. Remove the cotter pin (**1.11**) and pull the safety pin (**1.5**) out of the Scaffold Bracket MXK-RS.

(Fig. A5.05 + Fig. A5.06)

2. Loosen the three-wing nut (**1.3**) and pull the double hook (**1.2**) out of the hole.

(Fig. A5.07)

3. Insert the double hook (**1.2**) into the hole in the diagonal strut.

(Fig. A5.08)

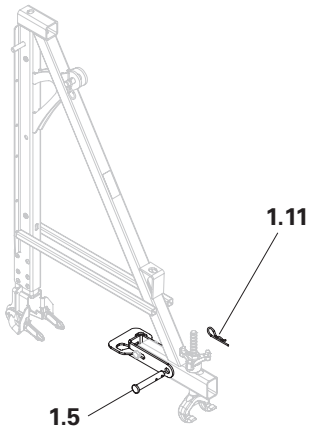


Fig. A5.05

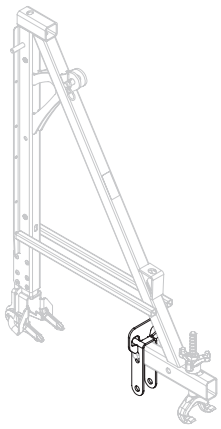


Fig. A5.06

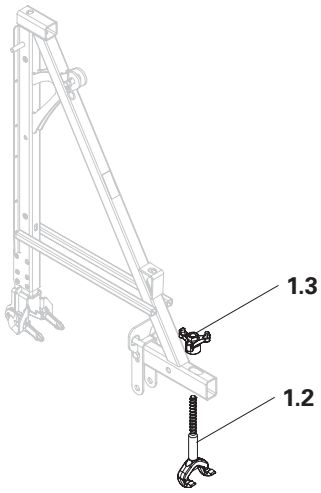


Fig. A5.07

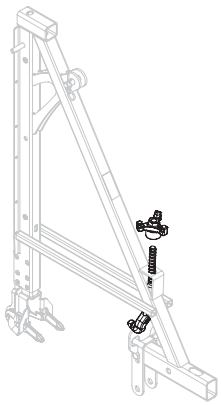


Fig. A5.08

4. Hook the yellow pull tab (**1.12**) into the double hook (**1.2**) that is rotated by 180° and secure the three-wing nut with one turn.

(Fig. A5.09)

5. Pull the captive bolt (**1.7**) out of the upper hole.

(Fig. A5.10)

→ Scaffold Bracket MXK-RS is prepared for assembly on the vertical panel struts.

6. Place the panel on squared timbers with the formlining facing downwards.
7. Place the Bracket MXK-RS on the panel in its installation position.
8. Insert the captive bolt (**1.7**) into the connection hole.

(Fig. A5.11)

9. Turn the captive bolt (**1.7**) downwards and connect the MXK-RS to the panel.

(Fig. A5.12)

10. Push the safety pin (**1.5**) into the connection hole and secure with the cotter pin (**1.11**).

(Fig. A5.12 + Fig. A5.13)

11. Fasten the three-wing nut (**1.3**) with a hammer or AF 27 ratchet, thereby tightening the pull tab.

(Fig. A5.13)

- The Scaffold Bracket MXK-RS provides the possibility of connecting a push-pull prop. Regarding the assembly and influence widths, see the design information for the Scaffold Bracket MXK-RS!

(Section "Tab. A5.01" on page 29) and (Tab. C2.01 + Tab. C2.02).

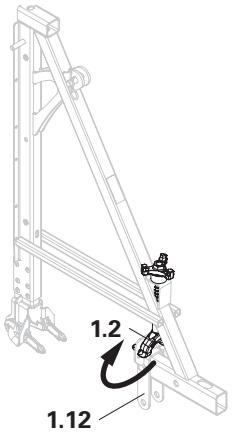


Fig. A5.09

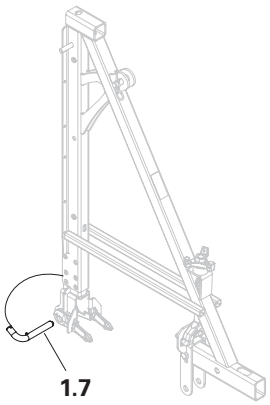


Fig. A5.10

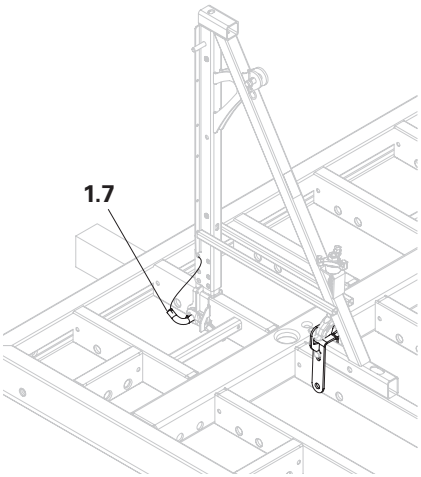


Fig. A5.11

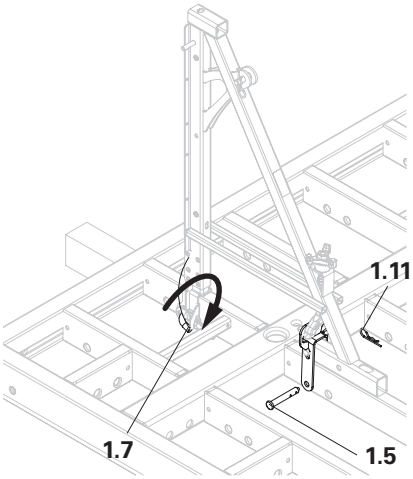


Fig. A5.12

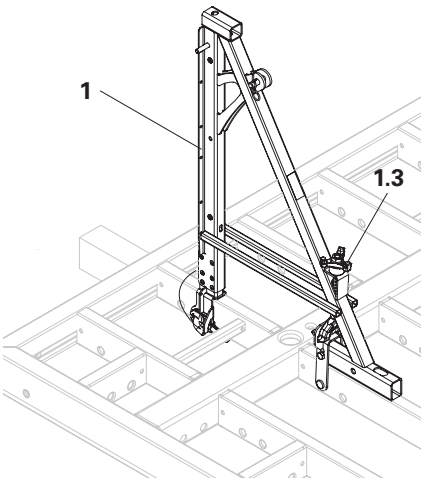


Fig. A5.13

Planking

- Secure the planking with wire nails or screws to prevent slipping and lifting!
- When using planking, the influence width of the Scaffold Bracket MXK (**1**) must be maintained!

Components:

1 Scaffold Bracket MXK / MXK-RS
2 Scaffold Deck MXK
6 Scaffold Deck MXK 240 w. Hatch

Influence widths:

- Assembly of the Scaffold Brackets MXK on horizontal panel struts = max. 190 cm.
- Assembly of the Scaffold Brackets MXK on vertical panel struts = max. 180 cm.

The planking is attached to the Bracket MXK from above with nails in the plastic strip (Fig. A5.14 + Fig. A5.14a) or from below with screws through the holes in the deck profile (Fig. A5.15 + Fig. A5.15a).

Carry out a visual and functional check of the fastenings.

Wooden scaffold decks

- The cover must consist of tightly laid scaffold decks that correspond to at least load class 2 pursuant to DIN EN 12811-1.
- System-independent scaffold decks made of wood (Tab. A5.01) meet these requirements (see DIN 4420-1:2004-03).

Fastening with nails

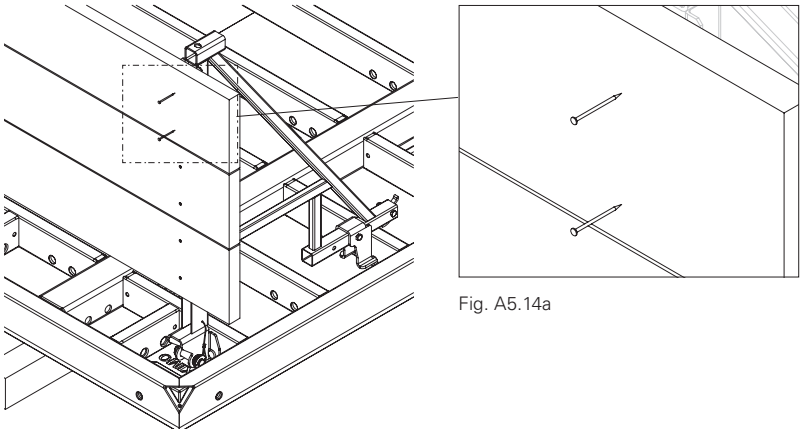


Fig. A5.14

Fig. A5.14a

Fastening with screws

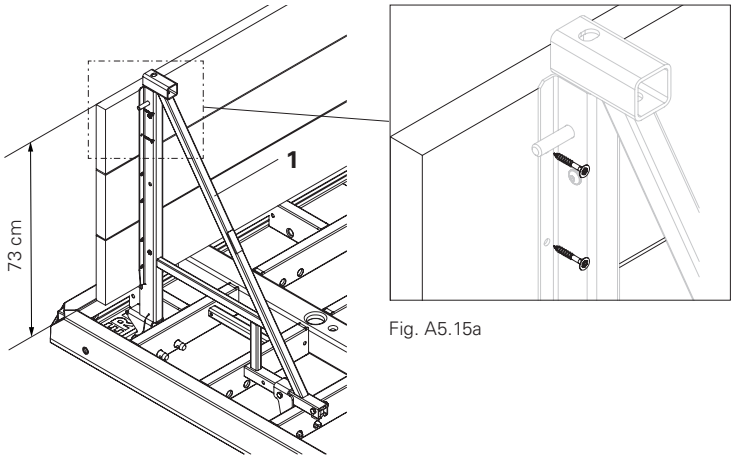


Fig. A5.15

Fig. A5.15a

Permissible spans in [m] for scaffold decks in covers

Board or plank width [cm]	Permissible spans [m] Board or plank thickness				
	3.0 cm	3.5 cm	4.0 cm	4.5 cm	5.0 cm
20	1.25	1.5	1.75	2.25	2.50
24 and 28	1.25	1.75	2.25	2.5	2.75

Tab. A5.01

Scaffold Bracket MXK-RS with planking

When using Scaffold Brackets MXK-RS in conjunction with planking and push-pull props, the bracket system must be reinforced with an additional bolted diagonal brace!
(Fig. A6.01)

Influence widths

- Assembly of the Scaffold Brackets MXK-RS without push-pull props on horizontal panel struts = max. 190 cm.
- Assembly of the Scaffold Brackets MXK-RS without push-pull props on vertical panel struts = max. 180 cm.

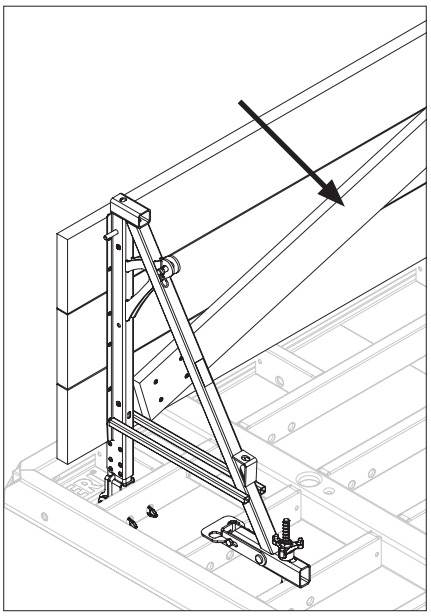


Fig. A6.01

For information on the assembly and influence widths of the Scaffold Brackets MXK-RS with push-pull props, see the design information for the Scaffold Bracket MXK-RS. (Section "Tab. A5.01" on page 29)

Standard configuration for lateral protection with on-site boards

As guardrail and intermediate guardrail:

- For a post spacing of up to 2.00 m, boards with a cross-section of at least 3.0 cm x 15 cm.
- Boards must be secured to the guardrail post with nails or screws to prevent them from slipping.

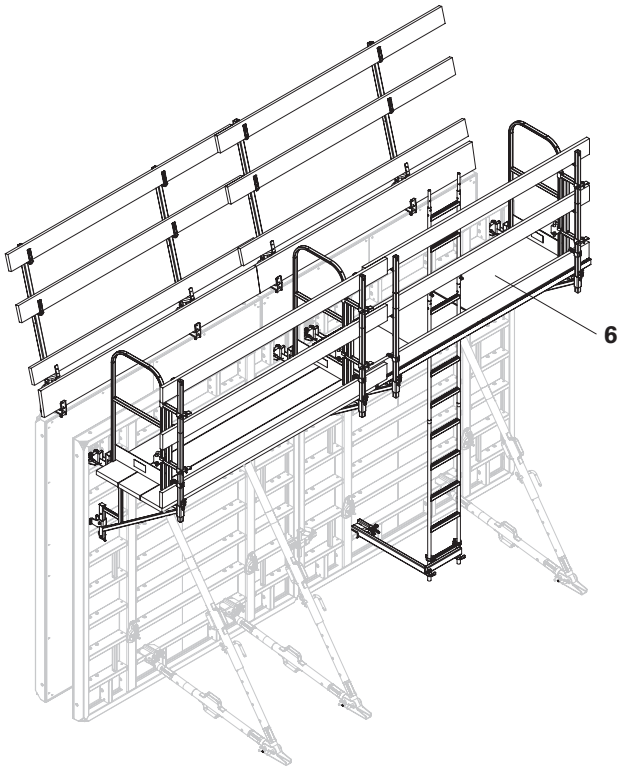


Fig. A6.02

General information

Warning

- The Scaffold Bracket MXK (**2**) may fall due to incorrect assembly and cause serious irreversible injury or even death.
  ⇒ Follow the assembly instructions.
  ⇒ Assembly must be carried out by qualified personnel.
- Risk of crushing due to improper handling.
  ⇒ Use PPE.

Scaffold decks

Depending on requirements, various Scaffold Decks MXK (**2**) can be mounted on the Scaffold Brackets MXK:

- Scaffold Deck MXK
- Scaffold Deck MXK 240 w. Hatch
- Scaffold Deck MXK (steel)
- Scaffold Deck MXK 240 w. Hatch (steel)
- Planking

The scaffold decks of the MAXIMO Bracket System MXK are assembled in the same way.

Carry out a visual and functional check of the fastenings.
Are the scaffold decks or planking properly secured?

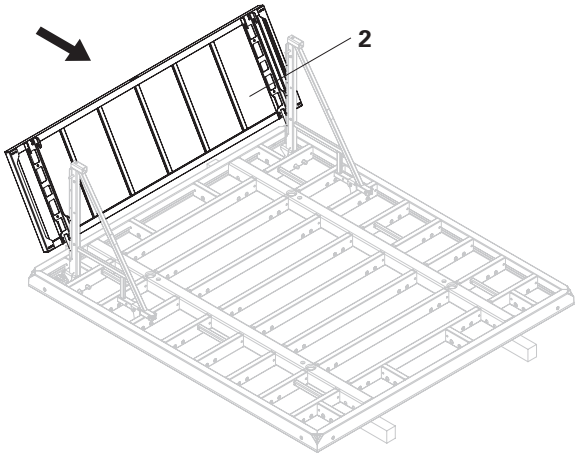


Fig. A6.03

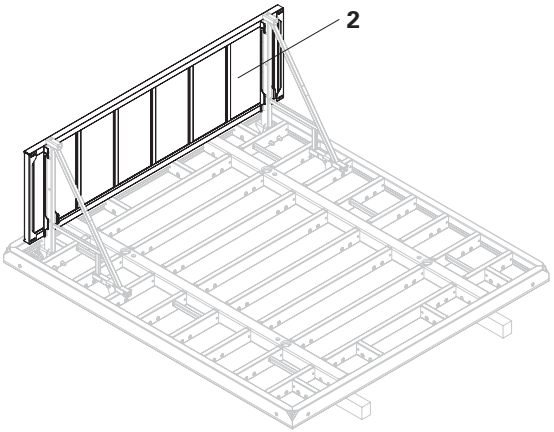


Fig. A6.04

A6 Scaffold deck assembly

Scaffold Deck MXK

- Scaffold Brackets MXK must be fitted to the panel.
- Position Scaffold Deck MXK at an angle of approx. 30° - 45° to the console bracket.

Components:

1	Scaffold Bracket MXK / MXK-RS
1.9	Retaining bolt
1.10	Plate
2	Scaffold Deck MXK
2.1	Guide pin
2.2	Hook
21	Adapter Covering Rail MXK
21.1	Guide Pin MXK
21.2	Hook

Assembly

1. Position both guide pins (**2.1**) of the Scaffold Deck MXK (**2**) behind the plate (**1.10**) of the Scaffold Brackets MXK.

(Fig. A6.05 + Fig. A6.05a)

2. Push the Scaffold Deck MXK (**2**) up to the Bracket MXK.

(Fig. A6.06)

3. Lift the Scaffold Deck MXK over the retaining bolt (**1.9**).

(Fig. A6.07)

4. Push the Scaffold Deck MXK up to the Bracket MXK.

(Fig. A6.08)

5. Lower the Scaffold Deck MXK.

(Fig. A6.09)

→ Scaffold Deck MXK is now mounted. (Fig. A6.10)

The Scaffold Deck MXK (**2**) is secured by assembling the Guardrail Posts MXK.

Are both hooks (**2.2**) of the Scaffold Deck MXK (**2**) hooked over the outer retaining bolts (**1.9**) of the Scaffold Brackets MXK (**1**) on both sides? (Fig. A6.10)

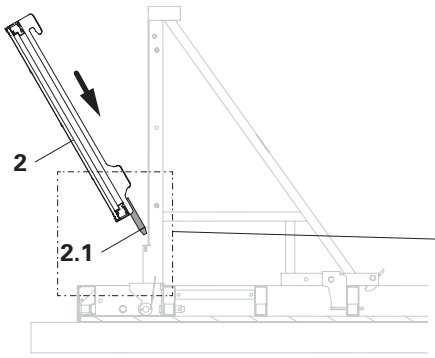


Fig. A6.05

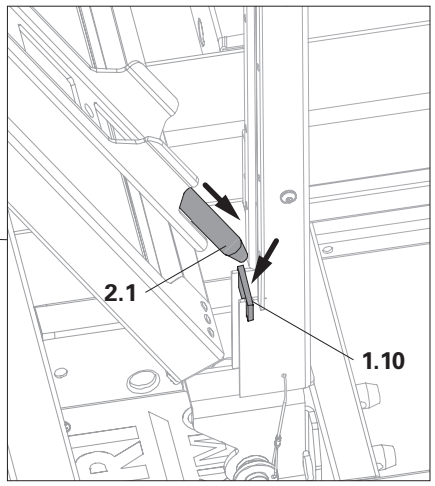


Fig. A6.05a

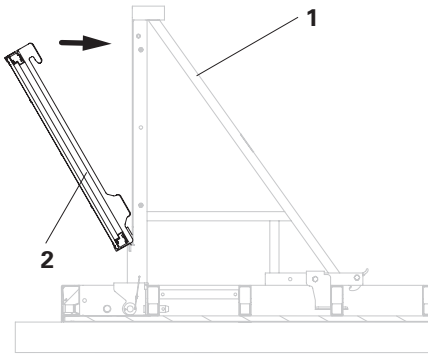


Fig. A6.06

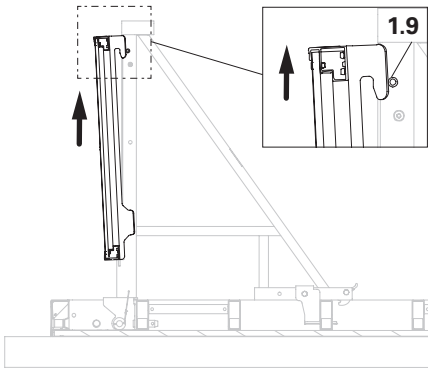


Fig. A6.07

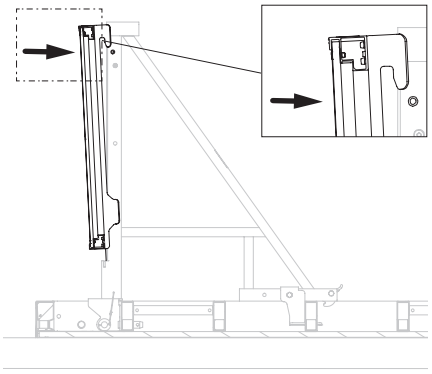


Fig. A6.08

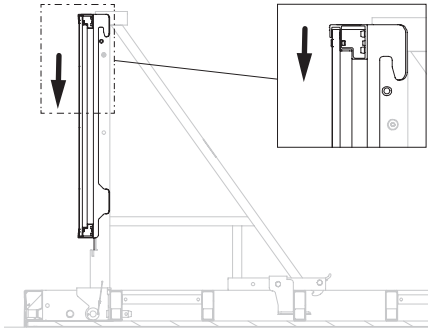


Fig. A6.09

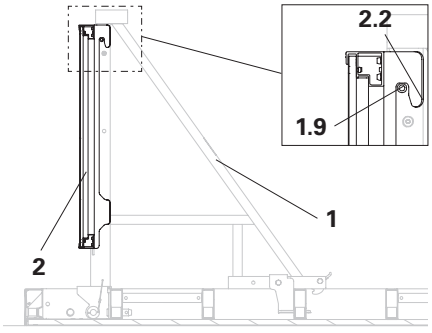


Fig. A6.10

Adapter Covering Rail MXK

- The Adapter Covering Rail MXK (**21**) enables greater flexibility and the scaffold decks to be cantilevered for horizontal panels or various panel combinations.
- The Adapter Covering Rail MXK (**21**) serves as a support for scaffold decks and secures them to prevent lifting.
- Essentially, the Adapter Covering Rail MXK (**21**) is only used with the PERI Bracket System MXK in conjunction with the Scaffold Decks MXK 240 / 120 / 90 and the Scaffold Bracket MXK / MXK-RS (**1**).

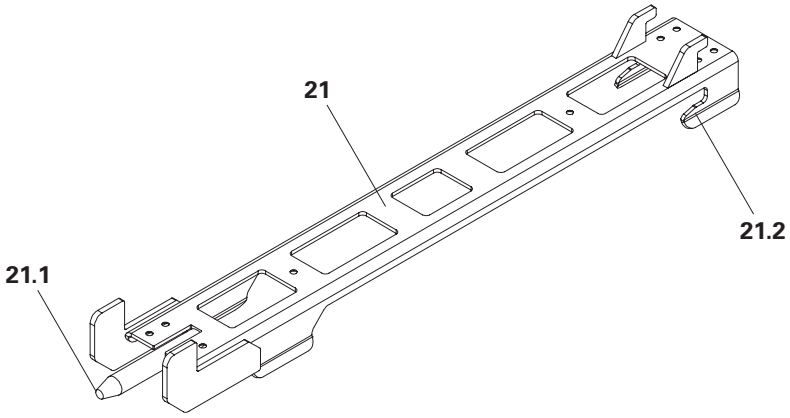


Fig. A6.11

Assembly

1. Insert the Guide Pin MXK (**21.1**) of the Adapter Covering Rail MXK (**21**) into the bottom of the Scaffold Bracket MXK / MXK-RS (**1**) and swivel it in at the top.

(Fig. A6.12)

2. Lift the Adapter Covering Rail MXK (**21**) and latch it into the retaining bolt (**1.9**) of the Scaffold Bracket MXK / MXK-RS (**1**) using the hooks (**21.2**).

(Fig. A6.11 + Fig. A6.14a)

→ The Adapter Covering Rail MXK is correctly positioned when the hooks (**21.2**) are positioned in the retaining bolt (**1.9**) of the scaffold bracket as shown in Fig. A6.14a .

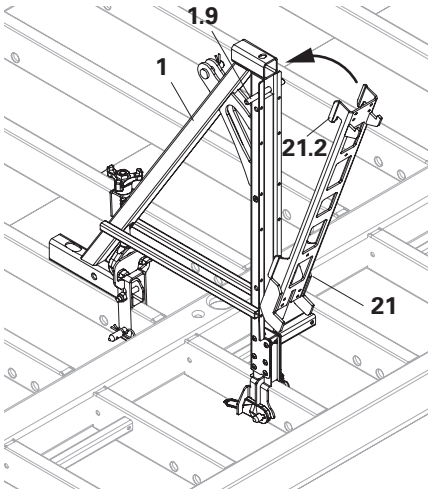


Fig. A6.12

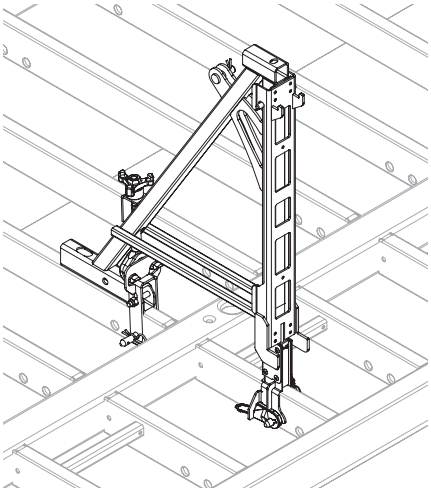


Fig. A6.13

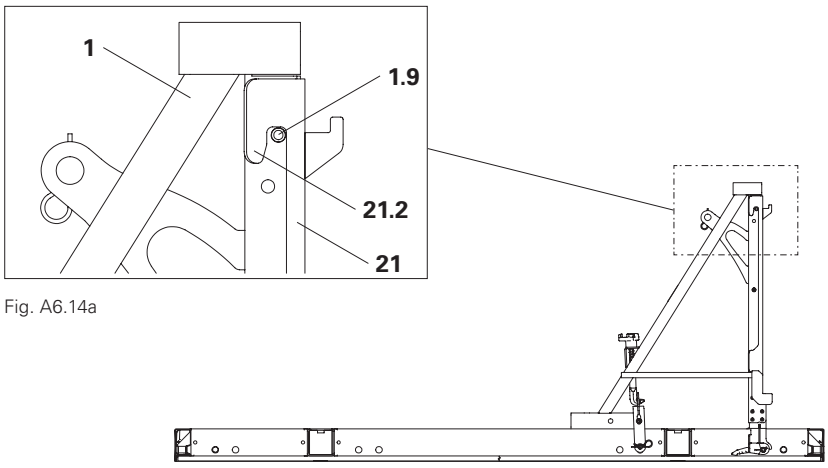


Fig. A6.14a

Fig. A6.14

Scaffold deck cantilever on transverse (horizontal) panels

- The Scaffold Deck MXK 240 / 120 / 90 may only be cantilevered on one side!
- Only use one Adapter Covering Rail MXK per scaffold deck!
- One side must be fixed, the other side can have a cantilever of no more than 30 / 60 cm!
- Use a Scaffold Bracket MXK-RS on the fixed side! This has no play when installed.
- Using guardrail posts installed on site in the area of the cantilever is not permitted!
- On-site filler area must rest securely on the bracket. Using only the cantilever for support is not permitted!
- Before use, it is essential to ensure that the maximum cantilever of 30 / 60 cm is not exceeded!
- Permissible load of max. 150 kg/m².
- Both a Scaffold Bracket MXK and a Scaffold Bracket MXK-RS can be used on the side with the adapter covering rail.

Max. cantilever for scaffold deck:
Scaffold Deck MXK 240 = 60 cm
(Fig. A6.15)
Scaffold Deck MXK 120 = 60 cm
(Fig. A6.16)
Scaffold Deck MXK 90 = 30 cm
(Fig. A6.17)

Are the cantilevers permissible?
→ After installation, always carry out an additional visual check and remeasure cantilevers!

Scaffold Deck MXK 240

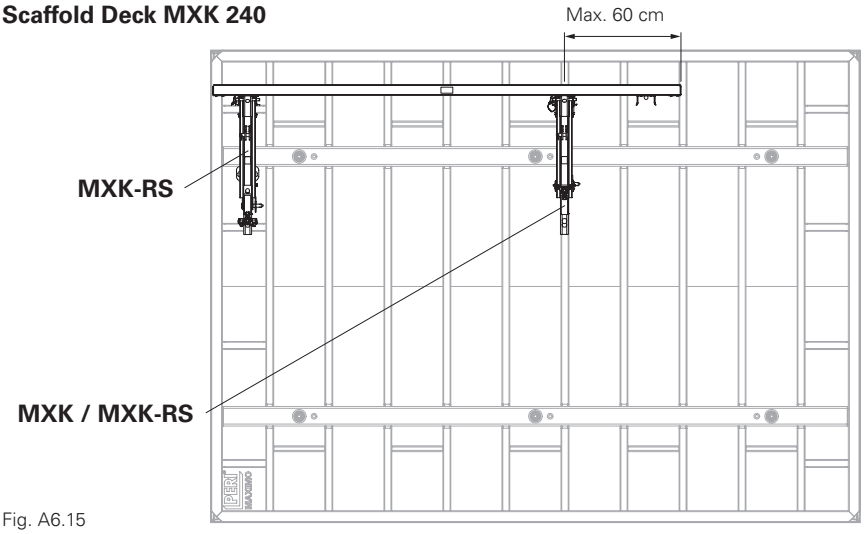


Fig. A6.15

Scaffold Deck MXK 120

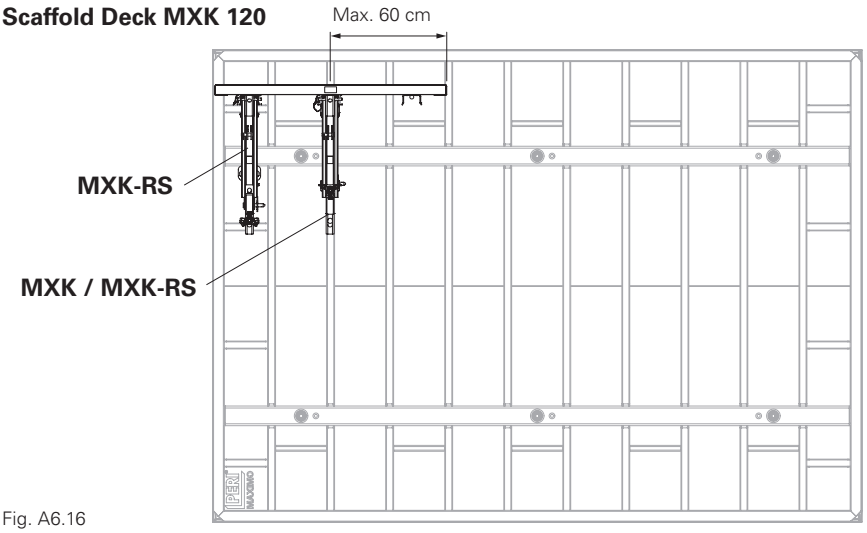


Fig. A6.16

Scaffold Deck MXK 90

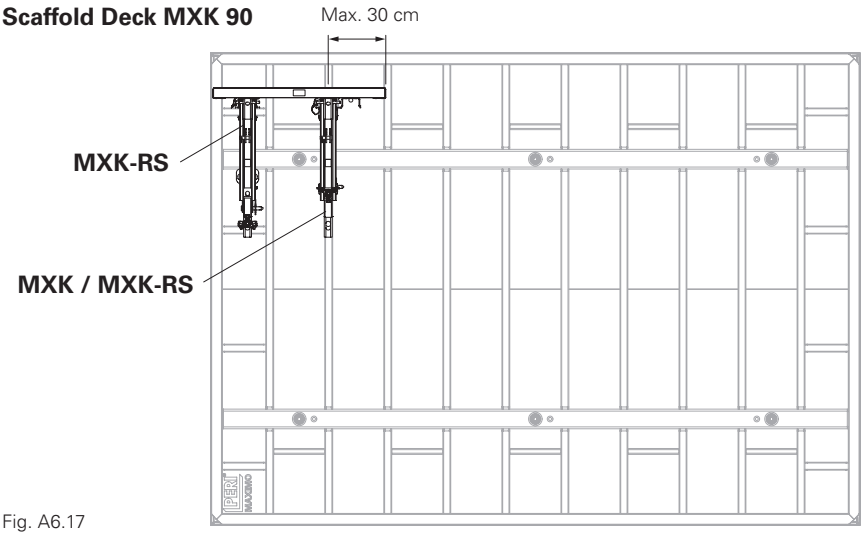


Fig. A6.17

Scaffold deck cantilever on upright panels

- The Scaffold Deck MXK 240 / 120 / 90 may only be cantilevered on one side!
- Only use one Adapter Covering Rail MXK per scaffold deck!
- One side must be fixed, the other side can have a cantilever of no more than 30 / 60 cm!
- Use a Scaffold Bracket MXK-RS on the fixed side! This has no play when installed.
- Using guardrail posts installed on site in the area of the cantilever is not permitted!
- On-site filler area must rest securely on the bracket. Using only the cantilever for support is not permitted!
- Before use, it is essential to ensure that the maximum cantilever of 30 / 60 cm is not exceeded!
- Permissible load of max. 150 kg/m².
- Both a Scaffold Bracket MXK and a Scaffold Bracket MXK-RS can be used on the side with the adapter covering rail.

Max. cantilever for scaffold deck:
Scaffold Deck MXK 240 = 60 cm
(Fig. A6.18 + Fig. A6.18)

Are the cantilevers permissible?
→ After installation, always carry out an additional visual check and remeasure cantilevers!

Example: Panel combinations with Scaffold Deck MXK 240

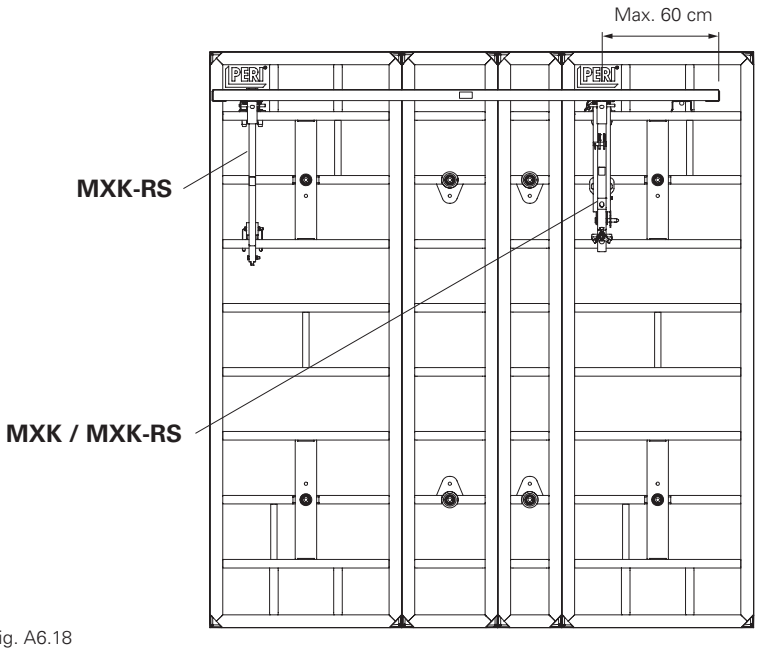


Fig. A6.18

Example: Panel combinations with Scaffold Deck MXK 240

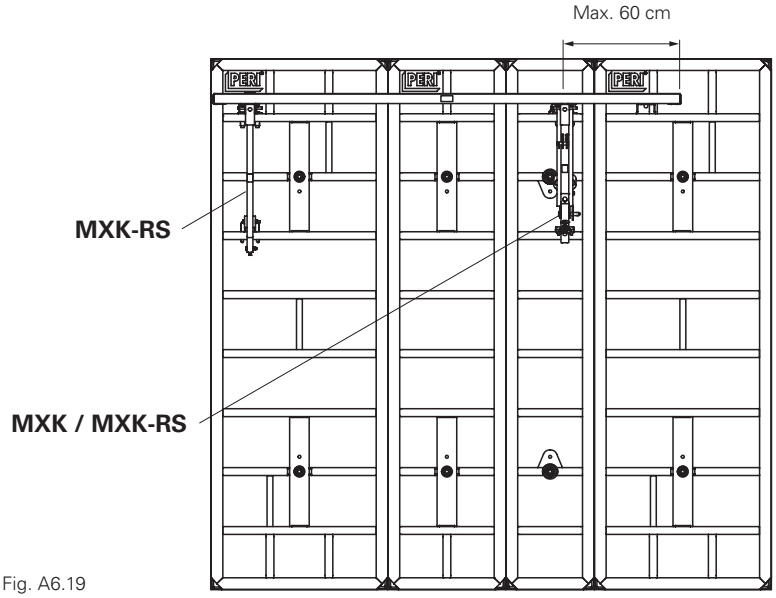


Fig. A6.19

Guardrail post

The Guardrail Post MXK (**3**) is fitted to the panel lying on the ground.

Components:

1 Scaffold Bracket MXK / MXK-RS
1.13 Mount
1.14 Hole
2 Scaffold Deck MXK
3 Guardrail Post MXK
3.1 Securing Hook

Assembly

1. Push the Guardrail Post MXK (**3**) into the mount (**1.13**) of the Scaffold Bracket MXK (**1**) until the securing hook (**3.1**) locks into the hole (**1.14**).

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

→ Guardrail Post MXK is now secured.
→ Scaffold Deck MXK is now secured.

- Does the securing hook (**3.1**) engage in the hole (**1.14**) with spring force?

→ The securing hook (**3.1**) must be held in position with spring force. If there is a lack of spring force, Guardrail Post MXK must not be used.

(Fig. A7.02a)

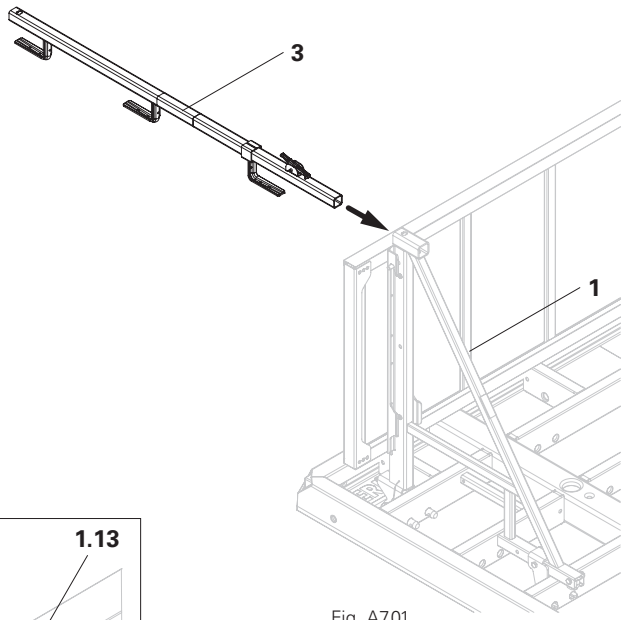


Fig. A7.01

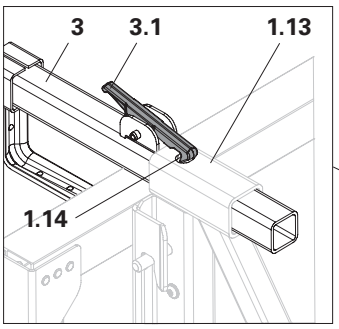


Fig. A7.02a

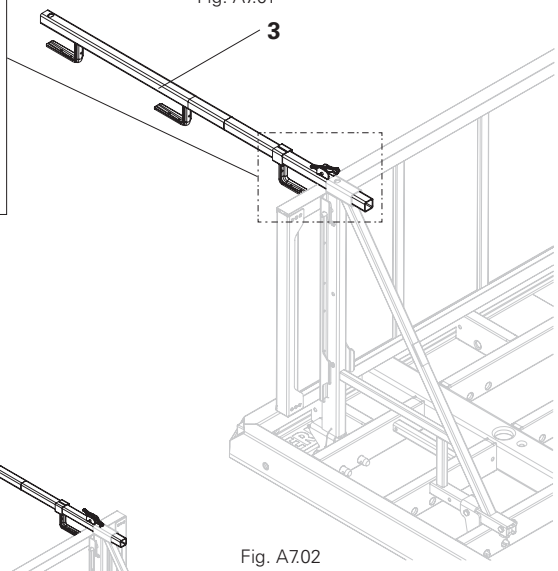


Fig. A7.02

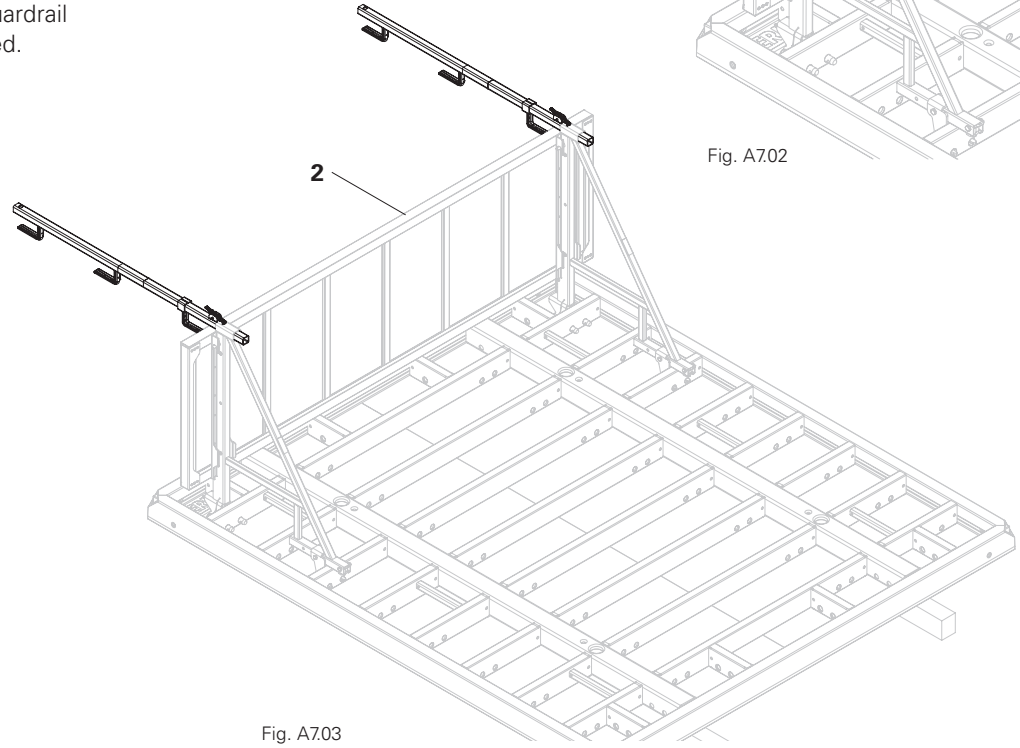


Fig. A7.03

A8 Assembling lateral protection

Warning

- The lateral protection barrier (**4**) may fall due to incorrect assembly and cause serious irreversible injury or even death.
  ⇒ Follow the assembly instructions.
  ⇒ Assembly must be carried out by qualified personnel.
- Risk of crushing due to improper handling when turning the panel.
  ⇒ Use PPE.
  ⇒ Turn the panel with a crane on a stable and non-slip substrate.
  ⇒ Use a squared timber base in the area of the bracket.
- There is the risk of toppling after setting down panels with multiple platform levels. This can lead to minor reversible injuries.
  ⇒ Immediately secure elements against toppling.

Components:

1	Scaffold Bracket MXK / MXK-RS
2	Scaffold Deck MXK
3	Guardrail Post MXK
3.3	Toe board holder
4	Side mesh barrier
20	Lifting Hook MX 1.5t
24	Coup. Load Hook KHSW 13

Assembly

1. Attach the lifting hook (**20**) to the panel and carefully lift it with the load hook (**24**) and the 2-sling lifting gear.

(Fig. A8.01)

2. Turn the panel and place it carefully on the bracket, and place the squared timber underneath.

(Fig. A8.01)

3. Remove the lifting hook (**20**).

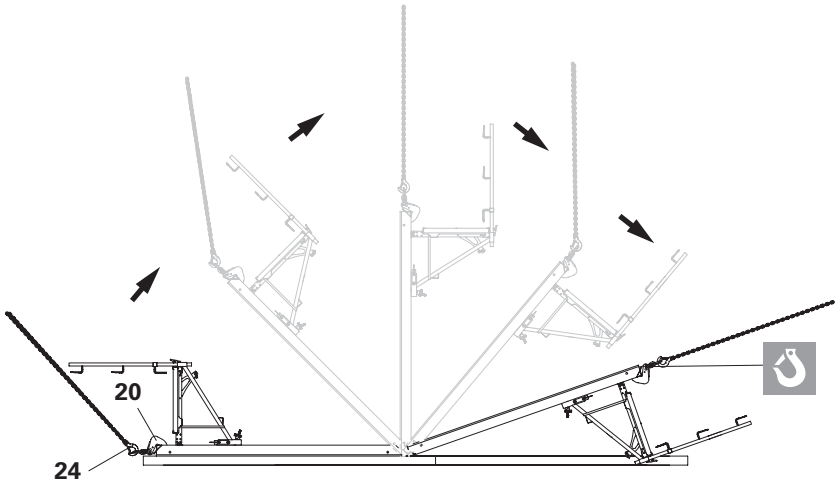


Fig. A8.01

- Follow the instructions for use for the Lifting Hook MX 1.5t and Lifting Gear Combi MX.
- The lateral protection barrier is fitted to the panel lying on the ground.
- The lateral protection barrier is installed on the turned panel (cleaning position of the formlining).

(Fig. A8.01)

- After turning, carefully and slowly place the panel with the bracket on the squared timber to prevent damage to the bracket.
  → Place squared timber underneath.

The necessary lateral protection can be

- realised on site using boards (three-piece 15 x 3 cm) or
- with lateral protection barriers.

A8 Assembling lateral protection

4. Push the toe board holder (**3.3**) of the Guardrail Posts MXK (**3**) upwards.
(Fig. A8.02)
5. Place the lateral protection barrier (**4**) on the Guardrail Posts MXK (**3**).
(Fig. A8.02)
6. Push the lateral protection barrier (**4**) in the direction of the Scaffold Deck MXK (**2**).
(Fig. A8.03)
7. Push the toe board holder (**3.3**) downwards.
(Fig. A8.04 + Fig. A8.04a)
→ The lateral protection barrier is fitted. (Fig. A8.04)

For temporary storage on the construction site, set the rear side of the panels down on squared timber. (Fig. A8.04)
→ Remove ladders and ladder connectors.

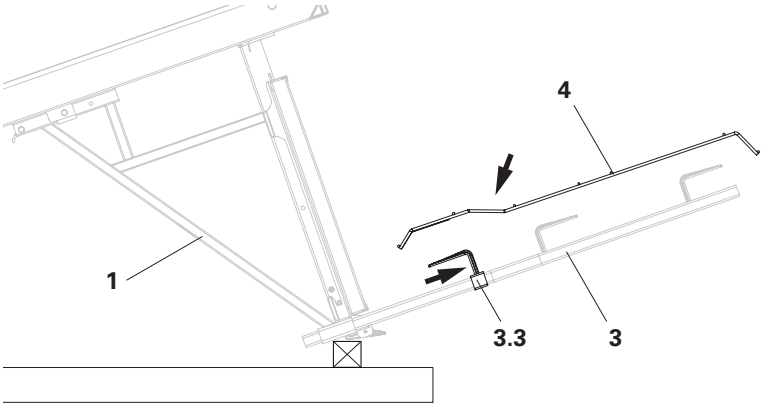


Fig. A8.02

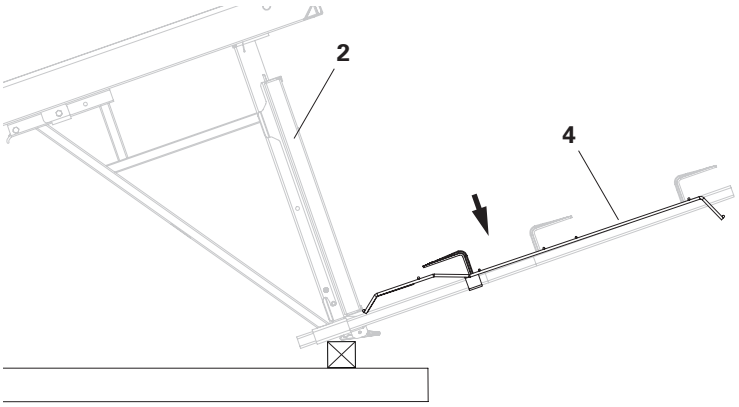


Fig. A8.03

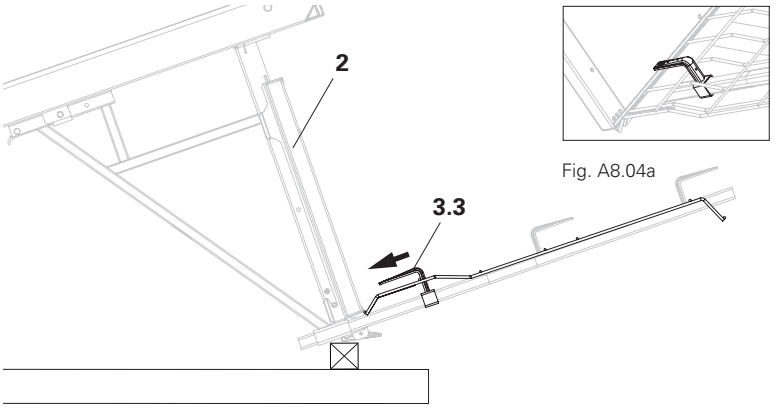
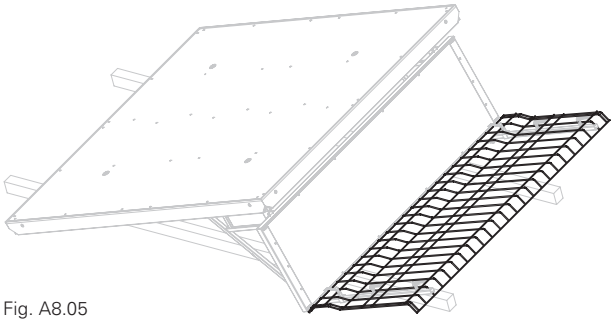


Fig. A8.04

Fig. A8.04a


Fig. A8.05

A9 Assembling the longitudinal infill with compensation deck

Compensation Deck MXK / MXK short on the formwork lying on the ground

Danger

- The compensation deck (**5**) and adapter may fall down due to incorrect installation and cause serious irreversible injury or even death.
  ⇒ Follow the assembly instructions.
  ⇒ Assembly must be carried out by qualified personnel.
- Risk of crushing and cuts due to improper handling.
  ⇒ Use PPE

Components:

5	Compensation Deck MXK / MXK short
5.1	Lift Lock MXK
5.2	Linch pin
5.4	Distance Piece
24	Coup. Load Hook KHSW 13

Assembly

1. Insert the Lift Lock MXK (**5.1**) into the square recess of the Compensation Deck MXK (**5**).

(Fig. A9.01)

2. Secure the Lift Lock MXK with a linch pin (**5.2**).

(Fig. A9.02 + Fig. A9.03)

3. Attach the load hook (**24**) of the 2-sling lifting gear to the two load-bearing points.

(Fig. A9.01 – Fig. A9.04a)

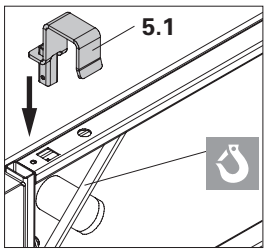


Fig. A9.01

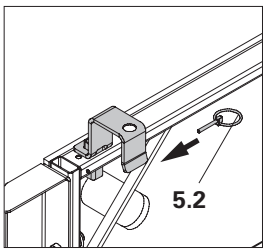


Fig. A9.02

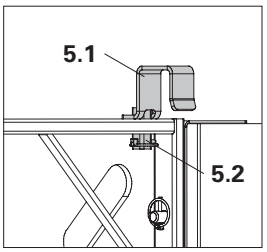


Fig. A9.03

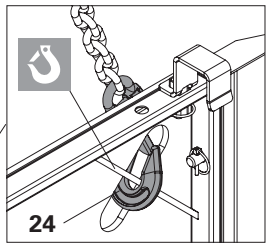


Fig. A9.04a

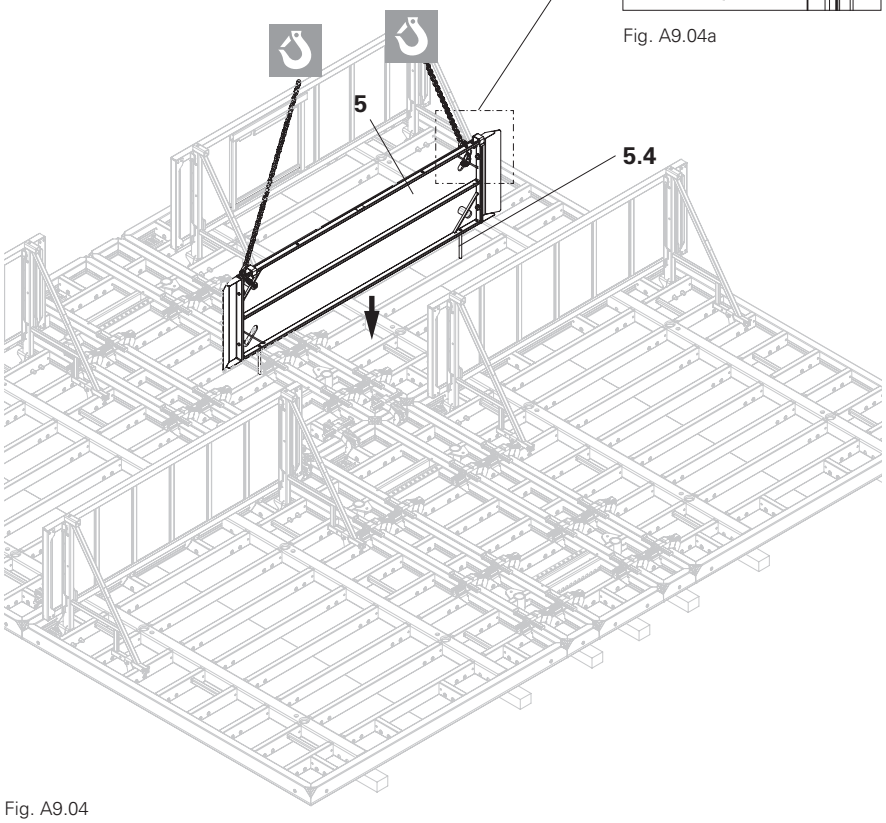


Fig. A9.04

Alternatively, the Compensation Deck MXK / MXK short (**5**) can be installed without a crane.

A9 Assembling the longitudinal infill with compensation deck

4. Use a crane to position the Compensation Deck MXK / MXK short (**5**) in the centre of the existing Scaffold Decks MXK and centre it.

(Fig. A8.04a)

→ The compensation deck must rest securely on the bracket. Using only the cantilever for support is not permitted!

→ The spacer (**5.4**) butts against the rear side of the formlining.

(Fig. A9.04)

5. Remove the load hooks (**24**) from the load-bearing points
6. Fit the Guardrail Post MXK (Section "A7 Assembly of Guardrail Post MXK" on page 36).

→ The Guardrail Post MXK secures the Scaffold Deck MXK and Compensation Deck MXK / MXK short (**5**).

(Fig. A9.05 + Fig. A9.06)

Compensation Deck MXK

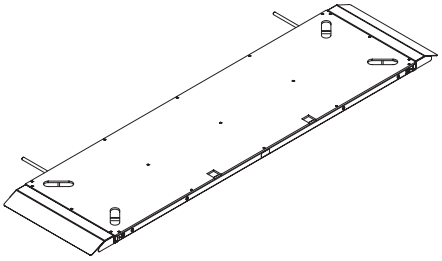


Fig. A9.05

Compensation Deck MXK short

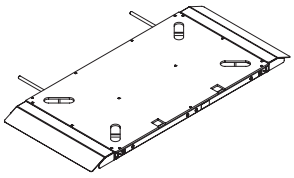


Fig. A9.06

Compensation Deck MXK / MXK short on vertical formwork

Danger

- Risk of falling during assembly due to open areas between the Scaffold Decks MXK. This can lead to death or serious irreversible injury.
  ⇒ Use PPE.

(Section "Fig. A2.01" on page 14)

  ⇒ Use Compensation Deck MXK / MXK short to close gaps.
- The compensation deck (**5**) and adapter may fall down due to incorrect installation and cause serious irreversible injury or even death.
  ⇒ Follow the assembly instructions.
  ⇒ Assembly must be carried out by qualified personnel.
- Risk of crushing and cuts due to improper handling.
  ⇒ Use PPE.

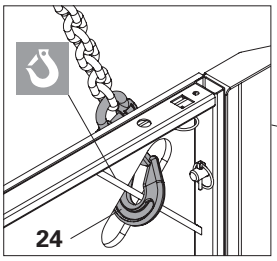


Fig. A9.07a

Fig. A9.07

A9 Assembling the longitudinal infill with compensation deck

Components:

2	Scaffold Deck MXK / MXK-RS
3	Guardrail Post MXK
4	Side mesh barrier
5	Compensation Deck MXK / MXK short
5.4	Distance Piece
24	Coup. Load Hook KHSW 13

Assembly

1. Attach the load hook (**24**) of the 2-sling lifting gear to the two load-bearing points.

(Fig. A9.07 + Fig. A9.08)

2. Use a crane to move the Compensation Deck MXK (**5**) (Fig. A9.05) or Compensation Deck MXK short (Fig. A9.06) over the existing Scaffold Decks MXK, then centre them and set them down.

(Fig. A9.07)

→ The compensation deck must rest securely on the bracket. Using only the cantilever for support is not permitted!

→ The spacer (**5.4**) butts against the rear side of the formlining.

(Fig. A9.07 + Fig. A9.08)

3. Remove the load hooks (**24**) from the load-bearing points.

→ Guardrail Post MXK (**3**) secures Scaffold Deck MXK (**2**) and Compensation Deck MXK / MXK short (**5**).

(Fig. A9.07 + Fig. A9.08)

4. Fit the lateral protection barrier (**4**) in the centre (Section "A8 Assembling lateral protection" on page 38).

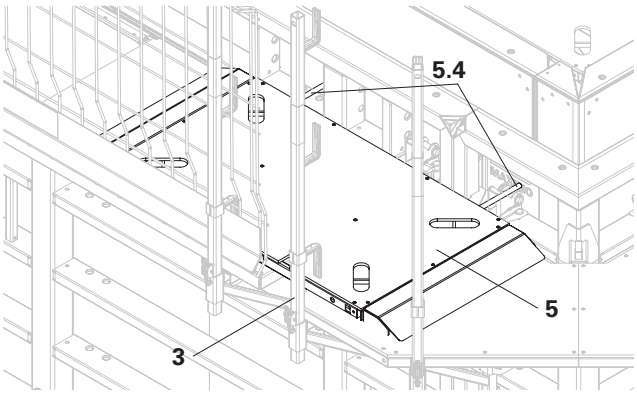


Fig. A9.08

A9 Assembling the longitudinal infill with compensation deck

Compensation Deck MXK / MXK short

Danger

- Risk of falling during assembly due to open areas between the Scaffold Decks MXK. This can lead to death or serious irreversible injury.
  ⇒ Use PPE.
  ⇒ Use Compensation Deck MXK / MXK short (**5**) to close gaps.

- The Compensation Deck MXK / MXK short (**5**) is used on the Bracket System MXK as a longitudinal infill.
- For gaps of ≤ 160 cm between the standard dimensions, use the Compensation Deck MXK as a longitudinal infill.

(Fig. A9.09)

- For gaps of ≤ 65 cm between the standard dimensions, use the Compensation Deck MXK short as a longitudinal infill.

(Fig. A9.10)

One platform level MXK (schematic diagram):

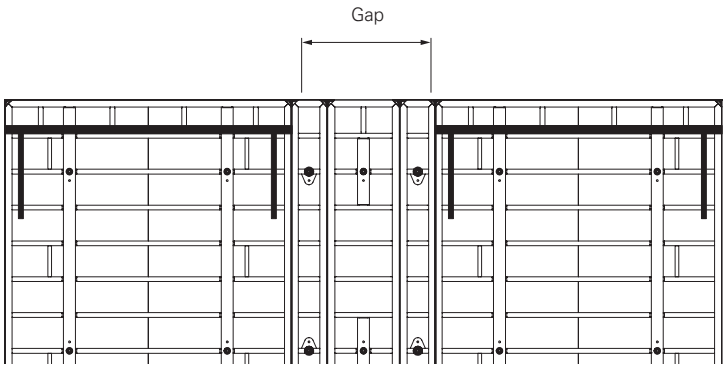


Fig. A9.09

Two or more platform levels MXK (schematic diagram):

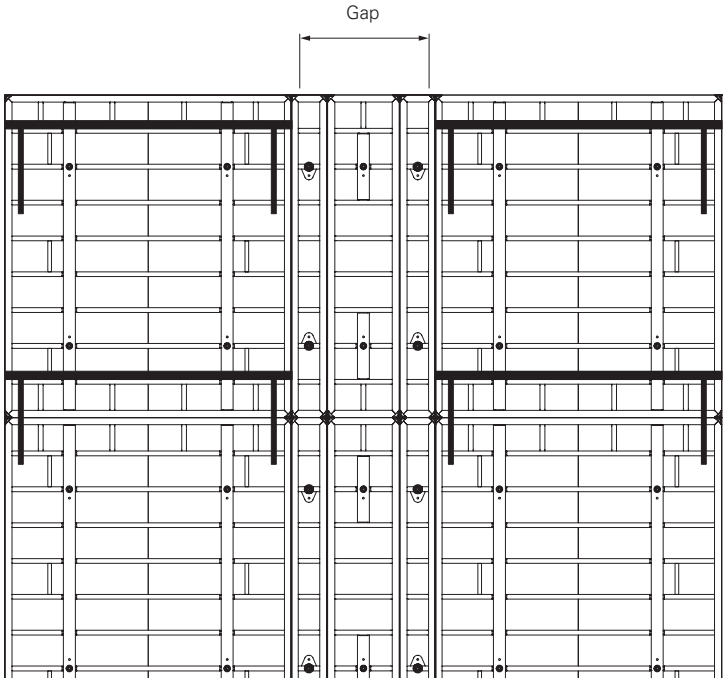


Fig. A9.10

Stopend Rail MXK

Warning

- The Stopend Rail MXK (**7**) may fall due to incorrect assembly and cause serious irreversible injury or even death.
  ⇒ Follow the assembly instructions.
  ⇒ Assembly must be carried out by qualified personnel.
- Risk of crushing due to improper handling.
  ⇒ Use PPE.
  ⇒ Use suitable tools.

The Stopend Rail MXK (**7**) is fitted to the panel lying on the ground.

Components:

1	Scaffold Bracket MXK / MXK-RS
2	Scaffold Deck MXK / MXK-RS
3	Guardrail Post MXK
7	Stopend Rail MXK
7.1	Wedge
7.2	Mount
7.3	Locking pin
7.4	Fixing
7.5	Locking plate

Assembly

1. Loosen the captive wedges (**7.1**) of the Stopend Rail MXK.

(Fig. A10.01 + Fig. A10.01a)

2. Place the Stopend Rail MXK (**7**) on the Guardrail Post MXK (**3**) with the wedges (**7.1**) hanging downwards.

(Fig. A10.01)

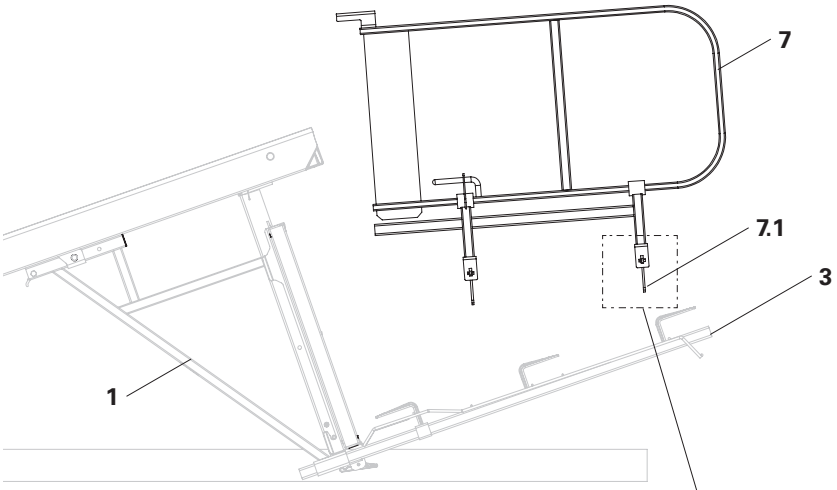


Fig. A10.01

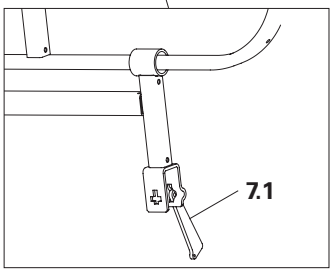


Fig. A10.01a

A10 Assembly of Stopend Rail MXK

3. The fixing post of the stopend rail (**7.4**) must rest on the scaffold deck (**2**).
(Fig. A10.02)
4. Position the locking pin (**7.3**) in the centre.
(Fig. A10.02)
5. Position the support (**7.2**) of the Stopend Rail MXK centrally on the Bracket MXK (**1**).
(Fig. A10.02 + Fig. A10.02a)
6. Stopend Rail MXK is secured by hitting both wedges (**7.1**) on the Guardrail Post MXK (**3**) with a hammer.
(Fig. A10.02a)
   → The Stopend Rail MXK is installed. (Fig. A10.03)

Is the Stopend Rail MXK (**7**) firmly seated?

If necessary, fit a second Stopend Rail MXK.
(Fig. A10.03)

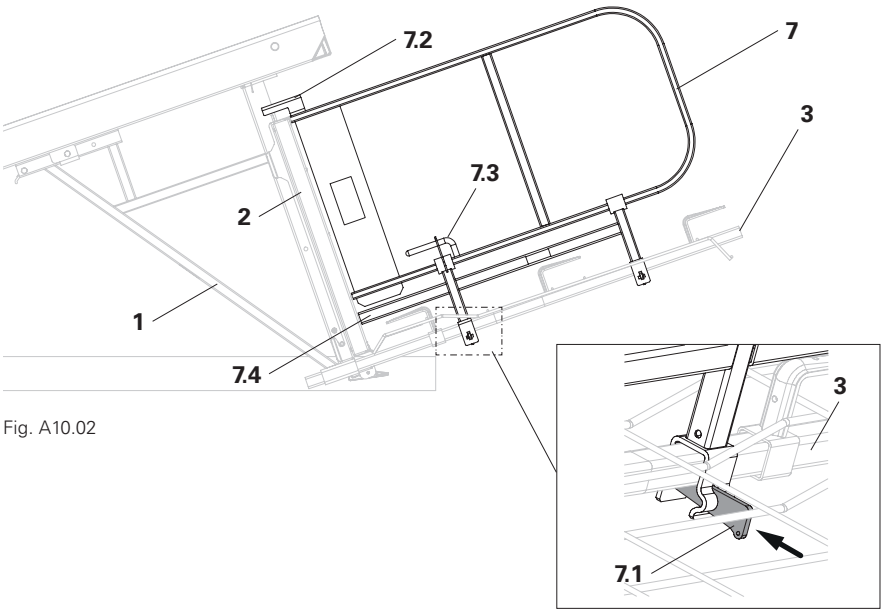


Fig. A10.02

Fig. A10.02a

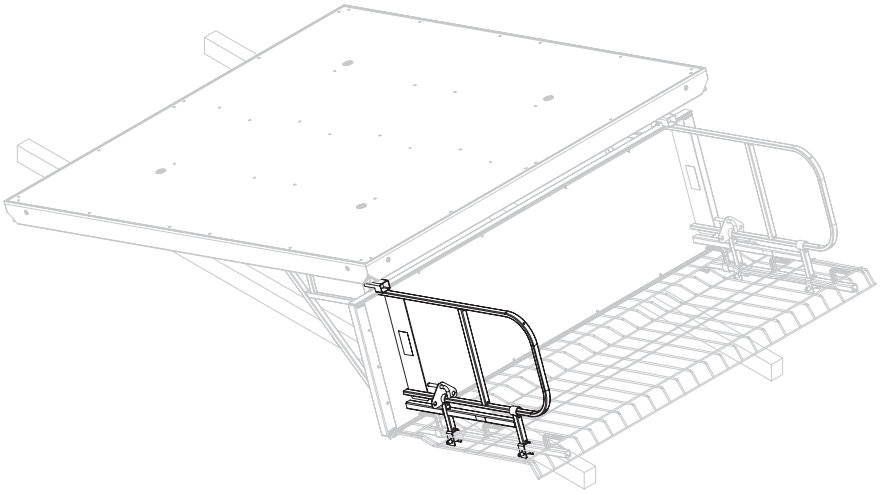


Fig. A10.03

A10 Assembly of Stopend Rail MXK

Danger

- Risk of falling due to open areas at the edge. This can lead to death or serious irreversible injury.
  - ⇒ Use PPE.
  - ⇒ Do not open the stopend rail until the fall edge is closed.
  - ⇒ Note the locking points.
  - ⇒ Consider the installation position.

Components:

7 Stopend Rail MXK
7.2 Mount
7.3 Locking pin
7.4 Fixing
7.5 Locking plate

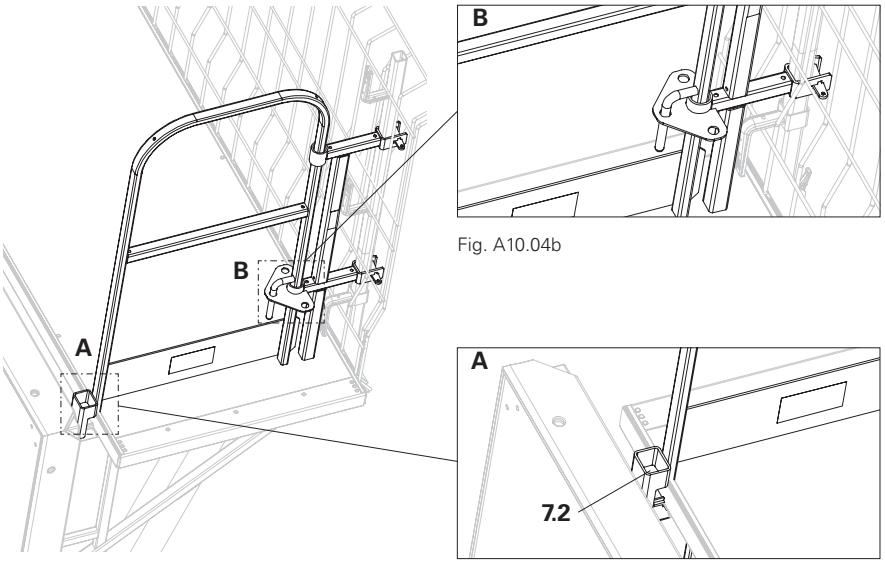


Fig. A10.04

Fig. A10.04b

Fig. A10.04a

Ensure the correct position of the locking points (**A**) and (**B**)!
(Fig. A10.04 + Fig. A10.04a + Fig. A10.04b)

Positions
The Stopend Rail MXK can be locked in 2 functional positions.

Functional position – rail:
1. Insert the locking pin (**7.3**) into the centre hole of the locking plate.

(Fig. A10.05)
→ The fall edge is now secure.

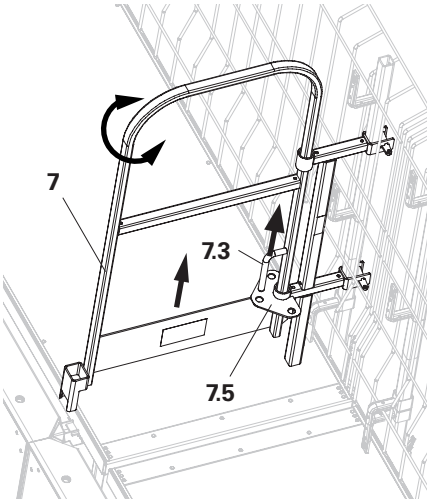


Fig. A10.05

A10 Assembly of Stopend Rail MXK

Functional position – passage:

1. Lift the Stopend Rail MXK (**7**).
(Fig. A10.06)
2. Completely remove the locking pin (**7.3**) from the hole of the locking plate (**7.5**).
(Fig. A10.06)
3. Swivel the stopend rail ± 90° about the angle α.
(Fig. A10.07)
4. Lower the stopend rail (**7**).
(Fig. A10.08)
5. Insert the locking pin (**7.3**) into the hole in the locking plate (**7.5**).
(Fig. A10.08)

→ Passageway open, no rail function.

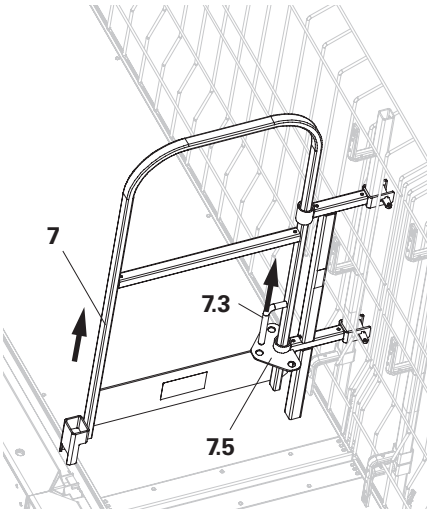


Fig. A10.06

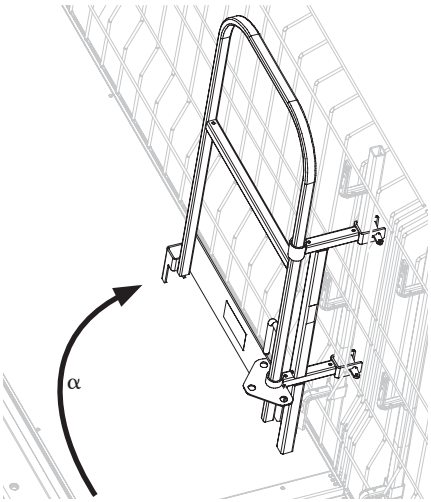


Fig. A10.07

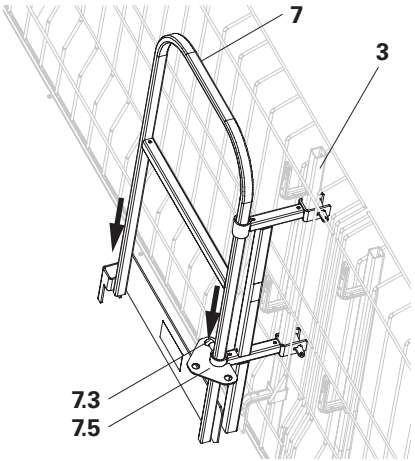


Fig. A10.08

Danger

- Risk of falling due to misuse. This can lead to death or serious irreversible injury.
  ⇒ Follow the assembly instructions.

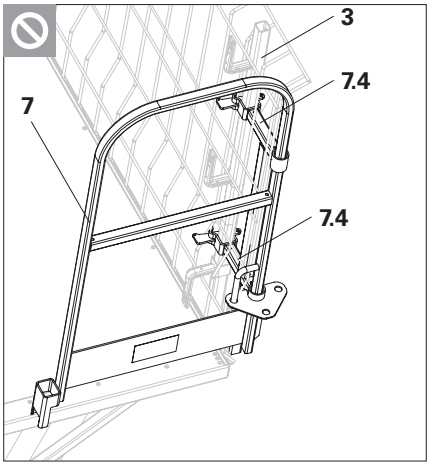


Fig. A10.09

Be mindful of misuse!

- Fitting the fixing (**7.4**) from the side, as shown in (Fig. A10.09), is not permitted!
- The Stopend Rail MXK (**7**) may only be used with TRIO or MAXIMO systems.
- The Stopend Rail MXK (**7**) may only be attached to Guardrail Post MXK (**3**).

A11 Assembly of Ladder Access MXK

Ladder access

Caution

Risk of crushing due to improper handling.
→ Use PPE.
→ Use suitable tools.

Ladder Connector MXK (**10**) can be installed on a floor-mounted or upright panel.
For assembly of the Scaffold Deck MXK 240 with hatch, see (Section "A6 Scaffold deck assembly" on page 29).

Components:

6	Scaffold Deck MXK 240 w. Hatch
6.1	Attachment angle
7	Stopend Rail MXK
9	Ladder MXP 270
10	Ladder Connector MXK
10.1	Three-winged nut
10.2	Hook tie
10.3	Linch pin
11	MAXIMO panel
11.1	Panel strut

Assembly

1. Loosen the three-wing nut (**10.1**) on the Ladder Connector MXK (**10**), and pull out the hook tie (**10.2**).
(Fig. A11.01 + Fig. A11.01a)
2. Attach the Ladder Connector MXK (**10**) to the panel strut (**11.1**).
   → The hook tie (**10.2**) engages in a functional hole.
(Fig. A11.02 + Fig. A11.02a)
3. Tighten the three-wing nut (**10.1**) with a hammer or ratchet AF 27.
(Fig. A11.02 + Fig. A11.02a)
4. Remove the linch pin (**10.3**) on the ladder strut.
(Fig. A11.02 + Fig. A11.02a)

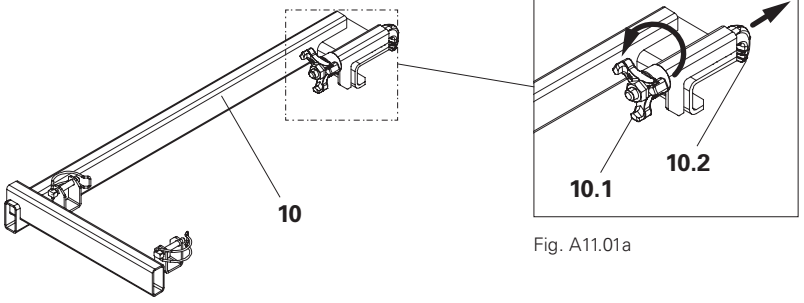


Fig. A11.01

Fig. A11.01a

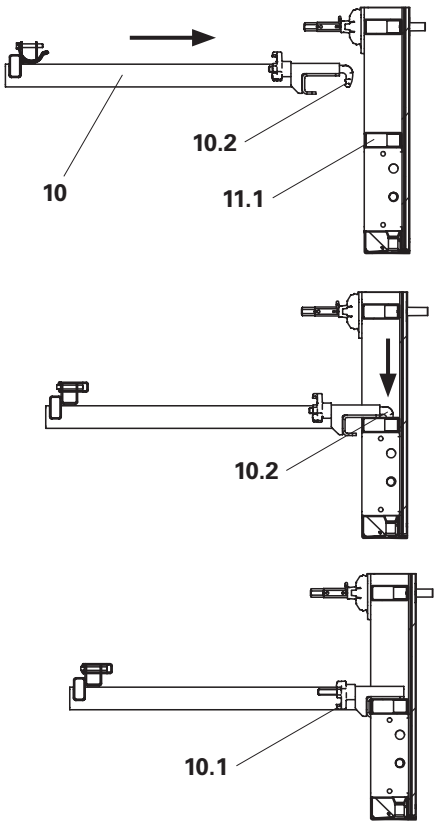


Fig. A11.02

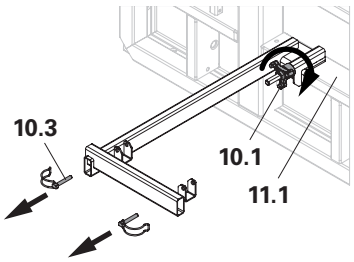


Fig. A11.02a

5. Attach Ladder MXP 270 (**9**) at the top on the mounting bracket (**6.1**) of the hatch and, at the same time, in the support bracket (**10.4**) of the Ladder Connector MXK (**10**) below.
   – Attach the ladder at the top.
(Fig. A11.03a + Fig. A11.03b)
   – Attach the ladder at the bottom.
(Fig. A11.04 + Fig. A11.05)
6. Insert the linch pin (**10.3**) on the ladder strut. (Fig. A11.04)
   → The ladder access is installed.
(Fig. A11.05)

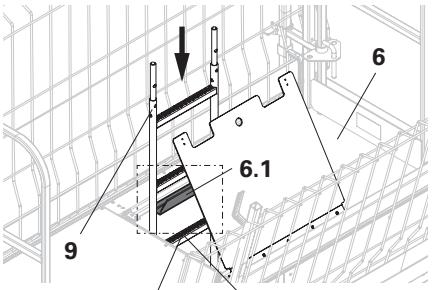


Fig. A11.03

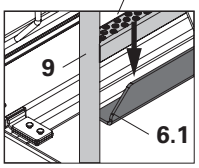


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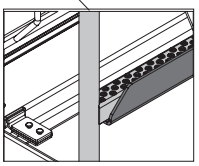


Fig. A11.03b

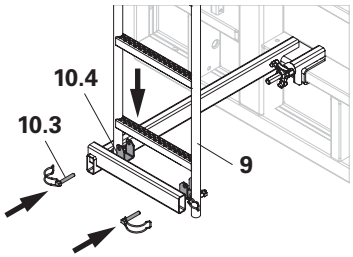


Fig. A11.04

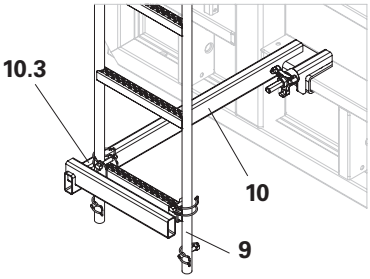


Fig. A11.05

Extending the ladder access

Ladder access by way of the Ladder RFP-2 90 is realised on the upright panel.

Assembly

1. Put Ladder RFP-2 90 (**19**) on the tube spigot (**9.1**) of the Ladder MXP 270 (**9**).
(Fig. A11.06)
2. Insert and secure the linch pin (**10.3**).
(Fig. A11.06 + Fig. A11.07)
   → The ladder access is installed.
(Fig. A11.07)

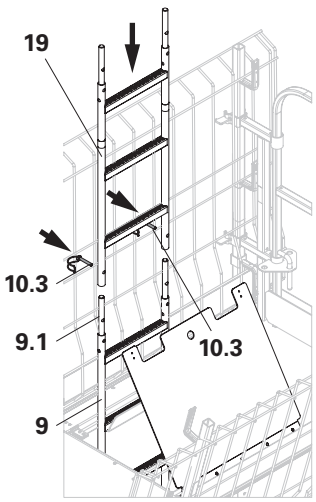


Fig. A11.06

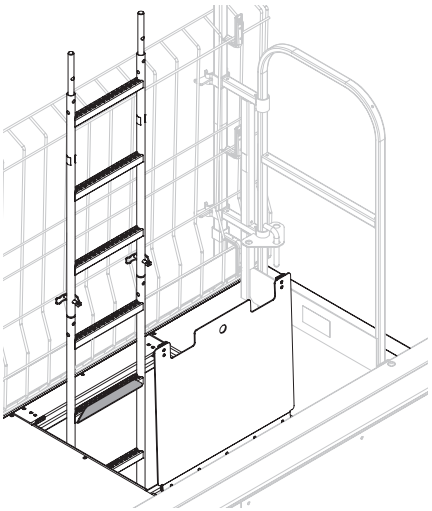


Fig. A11.07

A11 Assembly of Ladder Access MXK

Filling the gap
Insert squared timber (**12**) between the Scaffold Deck MXK (**6**) and MAXIMO Panel 270x240 (**11**). If necessary, this procedure can be carried out on all MAXIMO panels.
(Fig. A11.08 – Fig. A11.08b)

Components:

6 Scaffold Deck MXK 240 w. Hatch
6.1 Attachment angle
7 Stopend Rail MXK
7.2 Mount
9 Ladder MXP 270
9.1 Tube pin
10 Ladder Connector MXK
10.1 Three-winged nut
10.2 Hook tie
10.3 Linch pin
10.4 Support bracket
11 MAXIMO panel
11.1 Panel strut
12 Squared timber
19 Ladder RFP 90

Assembly
1. Cut 12 x 4 cm squared timber (**12**) to a length of 2.38 m.
2. Cut out a recess area (**5.5 x 7 cm**) 14.5 cm from the end of the timber for the support (**7.2**) of the end guard-rail (**7**).

(Fig. A11.08a + Fig. A11.08b)
3. Insert the squared timber.

(Fig. A11.08)
→ The intermediate board is positioned.

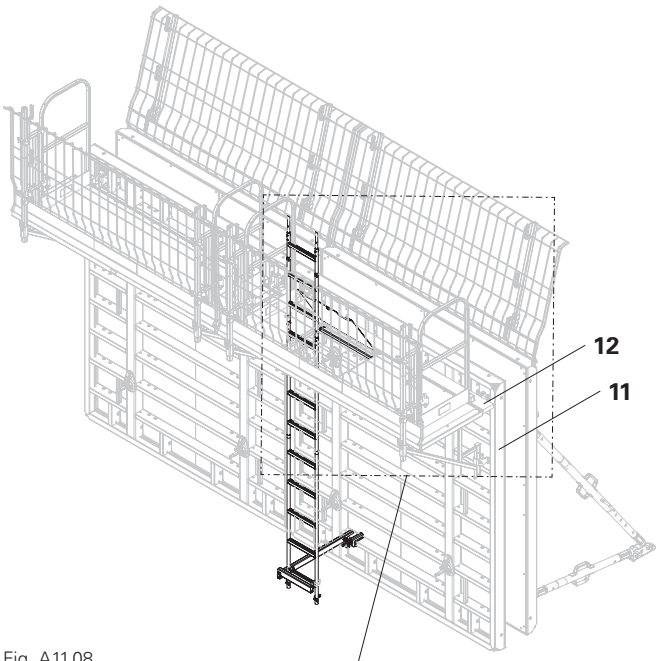


Fig. A11.08

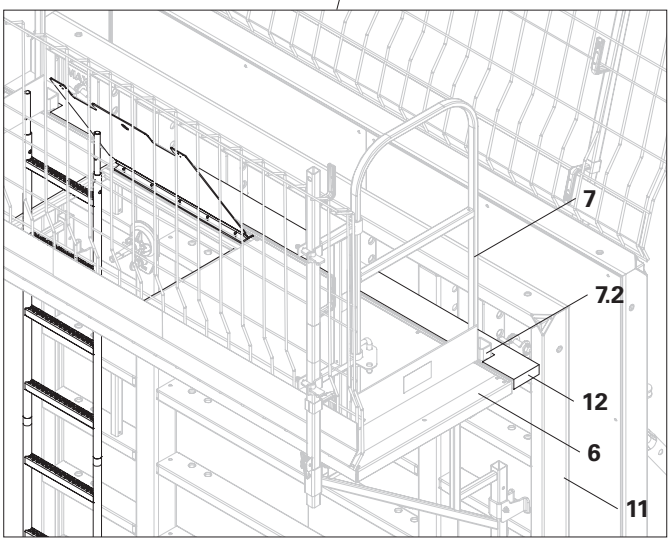


Fig. A11.08a

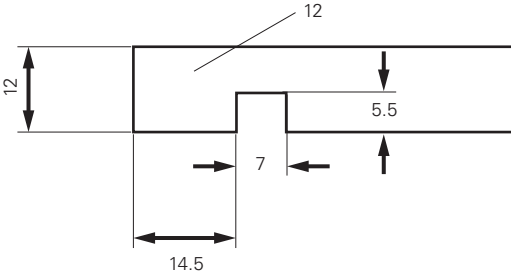


Fig. A11.08b

A12 Assembly of Inside Corner MXK

Right formwork side

Warning

- The Ins.Cor. Adapter MAR MXK (**13**) may fall due to incorrect assembly and cause serious irreversible injury or even death.
  ⇒ Follow the assembly instructions.
  ⇒ Assembly must be carried out by qualified personnel.
  ⇒ Use PPE.
- Risk of crushing due to improper handling.
  ⇒ Use PPE.
  ⇒ Use suitable tools.

- Inside Corner MXK is fitted to the panel lying on the ground.
- Follow the assembly sequence! Mount Ins.Cor. Adapter MAR MXK (**13**) on the short leg of the MAXIMO Inside Corner 50/20 (**14**)!
- Ins.Cor. Adapter MAR MXK (**13**) is used to support the compensation deck.

Components:

1 Scaffold Bracket MXK / MXK-RS
8 Push-Pull Prop RS
11 MAXIMO panel
13 Ins.Cor. Adapter MAR MXK
14 Inside Corner MXI (50x20)
23 Inside Corner Bracket MXK

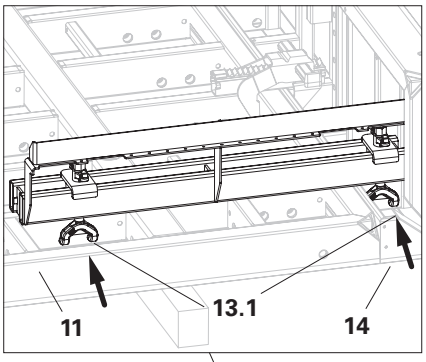


Fig. A12.01a

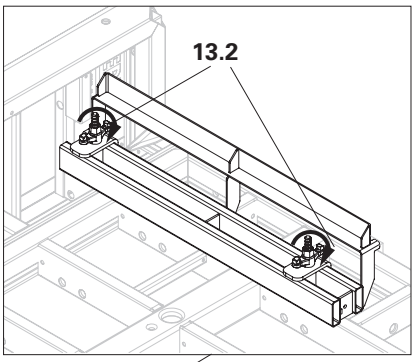


Fig. A12.01b

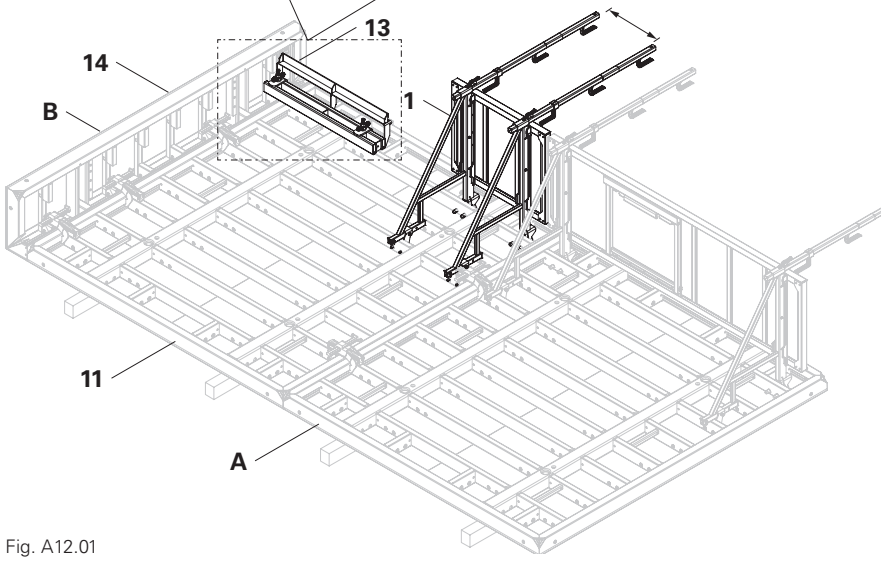


Fig. A12.01

Assembly

1. Attach a Scaffold Bracket MXK (**1**) to a MAXIMO panel (**11**).
(Fig. A12.01)
2. Connect the Ins.Cor. Adapter MAR MXK (**13**) to the panel strut of the MAXIMO panel (**11**) and the Inside Corner MXI (**50/20**) (**14**) on the short leg using both Double Hooks MAR/3 (**13.1**) in the connection holes of the panel strut.
(Fig. A12.01a)
3. The Ins.Cor. Adapter MAR MXK must rest on the MAXIMO panel (**11**).
(Fig. A12.01a + Fig. A12.01b)
4. Tighten the three-wing nuts DW 15 (**13.2**) with a hammer or ratchet AF 27.
(Fig. A12.01b)
   → The Ins.Cor. Adapter MAR MXK is now mounted. (Fig. A12.01b)

In this example, the Inside Corner MXK is assembled from the right-hand side (**A**) to the left-hand side (**B**) as primary formwork.
(Fig. A12.01)

- Are the double hooks anchored in the locating holes in the MAXIMO panel (**11**)?
- Is the Ins.Cor. Adapter MAR MXK (**13**) firmly tightened?

A12 Assembly of Inside Corner MXK

Alternative with Inside Corner Bracket MXK

Warning

- The Inside Corner Bracket MXK (**23**) may fall due to incorrect assembly and cause serious irreversible injury or even death.
  - ⇒ Follow the assembly instructions.
  - ⇒ Assembly must be carried out by qualified personnel.
  - ⇒ Use PPE.
- Risk of crushing due to improper handling.
  - ⇒ Use PPE.
  - ⇒ Use suitable tools.

- Inside Corner MXK is fitted to the panel lying on the ground.
- As an alternative to the Ins.Cor. Adapter MAR MXK (**13**), the Inside Corner Bracket MXK (**23**) can be installed.
- The Inside Corner Bracket MXK (**23**) is used to support the Compensation Deck MXK / MXK short (**5**) on inside corners.
- Attach Inside Corner Bracket MXK (**23**) as close as possible to the inside corner (**14**).

Assembly

1. Attach an Inside Corner Bracket MXK (**23**) to a MAXIMO panel (**11**).

(Fig. A12.02 + Fig. A12.02a)

2. Lower the Inside Corner Bracket MXK (**23**) onto the MAXIMO panel.
3. Push the Inside Corner Bracket MXK (**23**) with the upper connection head (**23.1**) into the connection holes of the cross struts of the panel.

(Fig. A12.02 + Fig. A12.02a)

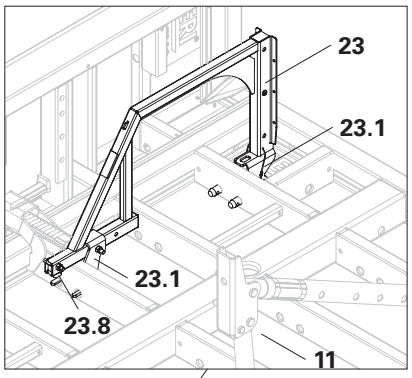


Fig. A12.02a

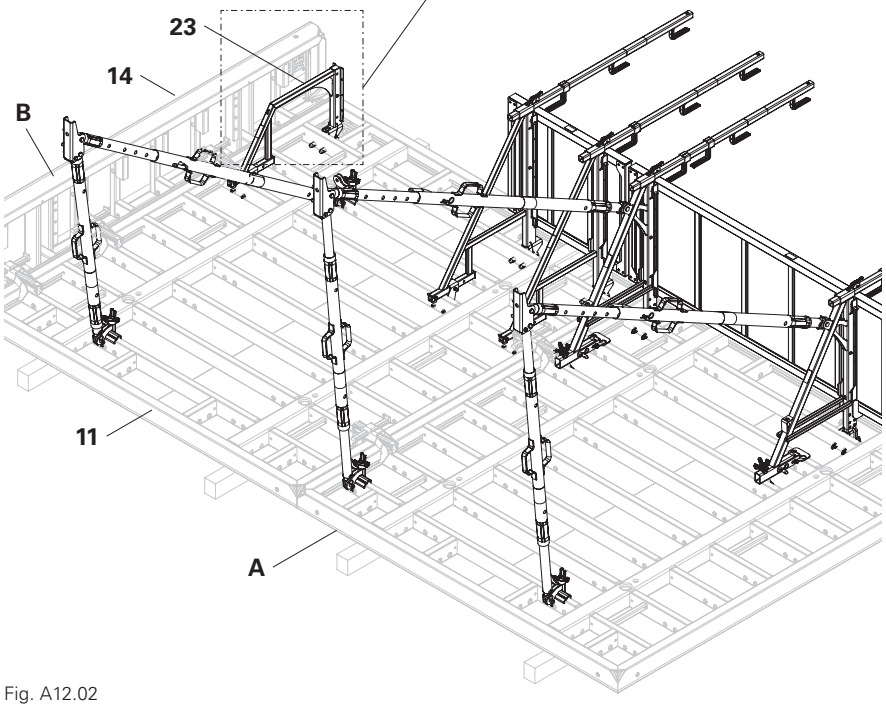


Fig. A12.02

In this example, the Inside Corner MXK is assembled from the right-hand side (**A**) to the left-hand side (**B**) as primary formwork.

Carry out a visual and functional check!

- Is the hook (**23.8**) of the anti-dropout mechanism held in position by spring force?

(Fig. A12.02a)

→ If there is a lack of spring force, do not use the Inside Corner Bracket MXK (**23**).

When using decking boards:

- Is the nailing strip already mounted on the Inside Corner Bracket MXK?

→ If not, mount the nailing strip at floor level prior to installation.

A12 Assembly of Inside Corner MXK

Warning

- The formwork structure can topple over and cause serious irreversible injury or even death.
  ⇒ Secure the formwork structure to prevent it from toppling.
  ⇒ Do not remove the lifting hook until the push-pull props have been anchored.
- Risk of falling due to exposed fall points. This can lead to irreversible injury or even death.
  ⇒ Use PPE!

Assembly of the push-pull props is described in the MAXIMO MX 15 and MAXIMO MX 18 Instructions for Assembly and Use.

In this example, the Inside Corner MXK is assembled from the right-hand side (**A**) to the left-hand side (**B**) as primary formwork.
(Fig. A12.03 + Fig. A12.04)

Erection

1. Fit the lateral protection barrier (Section "A8 Assembling lateral protection" on page 38).
2. Install the end guardrail (Section "A10 Assembly of Stopend Rail MXK" on page 43).
3. Fit the push-pull props (**8**) to the formwork.
4. Erect the formwork structure with a crane.
5. Fasten the push-pull props (**8**) to the floor.
6. Install the ladder access (Section "A11 Assembly of Ladder Access MXK" on page 49).

Have the push-pull props (**8**) been fitted as specified and are they firmly seated?

Ins.Cor. Adapter MAR MXK

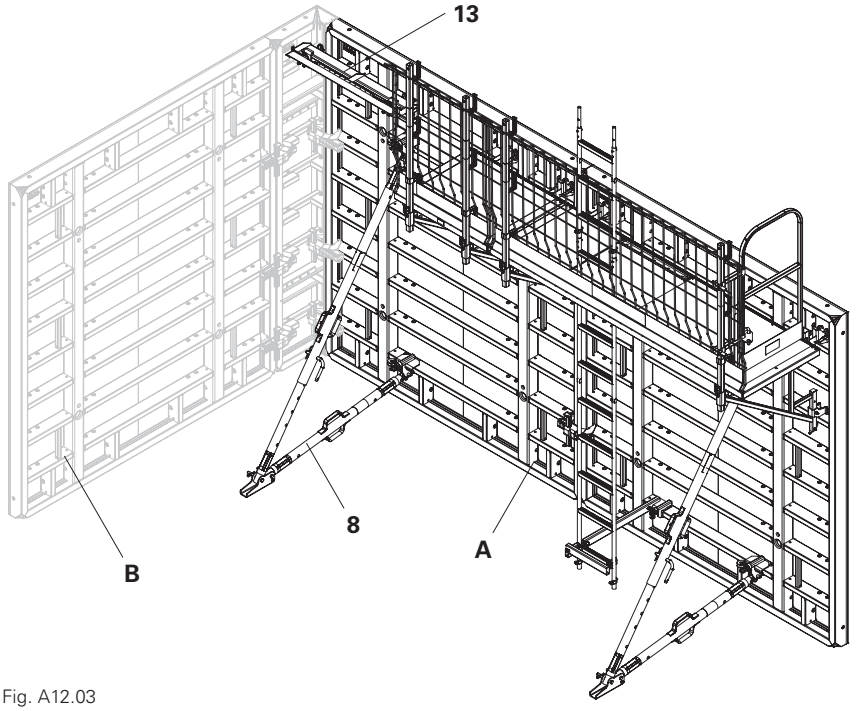


Fig. A12.03

Inside Corner Bracket MXK

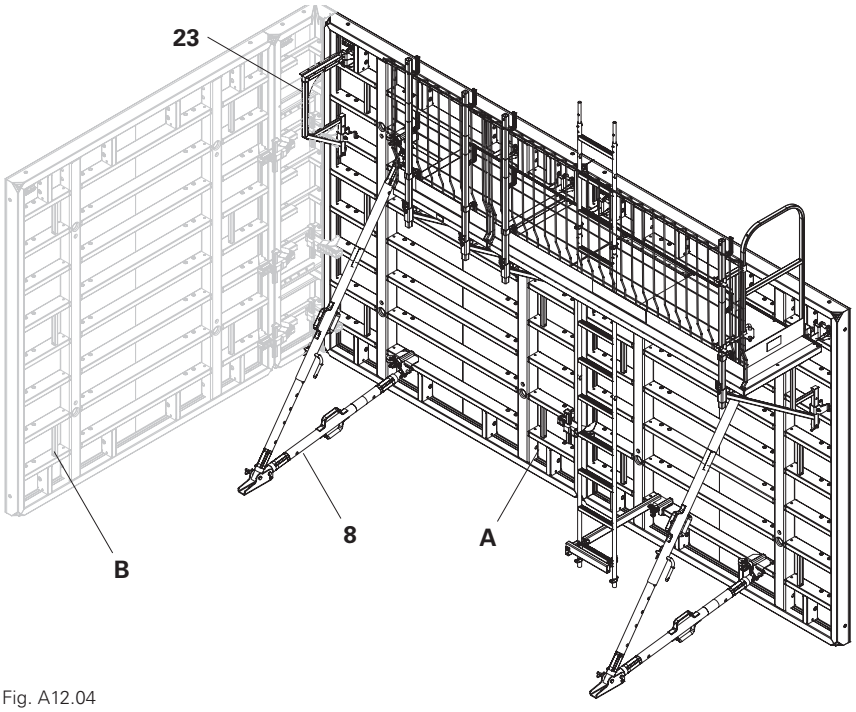


Fig. A12.04

A12 Assembly of Inside Corner MXK

Left formwork side

Warning

- The formwork structure can topple over and cause serious irreversible injury or even death.
  ⇒ Secure the formwork structure to prevent it from toppling.
  ⇒ Do not remove the lifting hook until the push-pull props have been anchored.
- Risk of falling due to exposed fall points. This can lead to irreversible injury or even death.
  ⇒ Use PPE!

Components:

1 Scaffold Bracket MXK / MXK-RS
2 Scaffold Deck MXK
3 Guardrail Post MXK
4 Lateral protection barrier
5 Compensation Deck MXK / MXK short
6 Scaffold Deck MXK 240 w. Hatch
7 Stopend Rail MXK
8 Push-Pull Prop RS
11 MAXIMO panel
15 Inside Corner Post Holder MXK
25 Alignment Coupler BFD

Assembly

1. Mount Scaffold Brackets MXK (**1**) on the MAXIMO panels (**11**). Pay attention to the number and position of the Scaffold Brackets MXK and guardrail posts (**3**).

(Fig. A12.05)

2. Install Scaffold Deck MXK (**2**) (Section "A6 Scaffold deck assembly" on page 29).
3. Install Guardrail Post MXK (**3**). Scaffold Bracket MXK (**1**) at the inside corner (see arrow) remains in place without Guardrail Post MXK.

(Fig. A12.05)

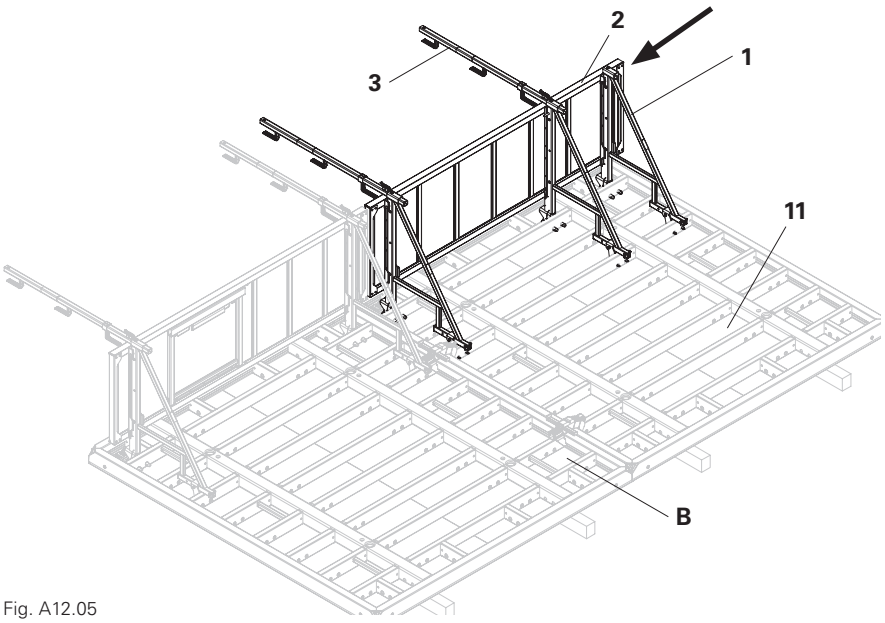


Fig. A12.05

- With this assembly, three Scaffold Brackets MXK (**1**) must be installed.

(Fig. A12.05)

- Assembly of the push-pull props along with the number and position of the Alignment Couplers BFD is described in the MAXIMO MX 15 and MAXIMO MX 18 Instructions for Assembly and Use.

4. Fit the lateral protection barrier (**4**) (Section "A8 Assembling lateral protection" on page 38).
(Fig. A12.06a)
5. Fit the Stopend Rail MXK (**7**) (Section "A10 Assembly of Stopend Rail MXK" on page 43).
(Fig. A12.06)
6. Fit the push-pull props (**8**).
7. Erect the left-hand side of the Inside Corner MXK using a crane. Connect the left and right sides of the inside corner formwork with Alignment Couplers BFD (**25**).
(Fig. A12.06)
8. Install the ladder access (Section "A11 Assembly of Ladder Access MXK" on page 47).
(Fig. A12.06)

Have the push-pull props (**8**) been fitted as specified and are they firmly seated?

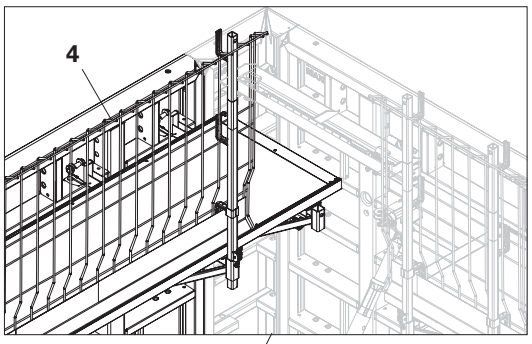


Fig. A12.06a

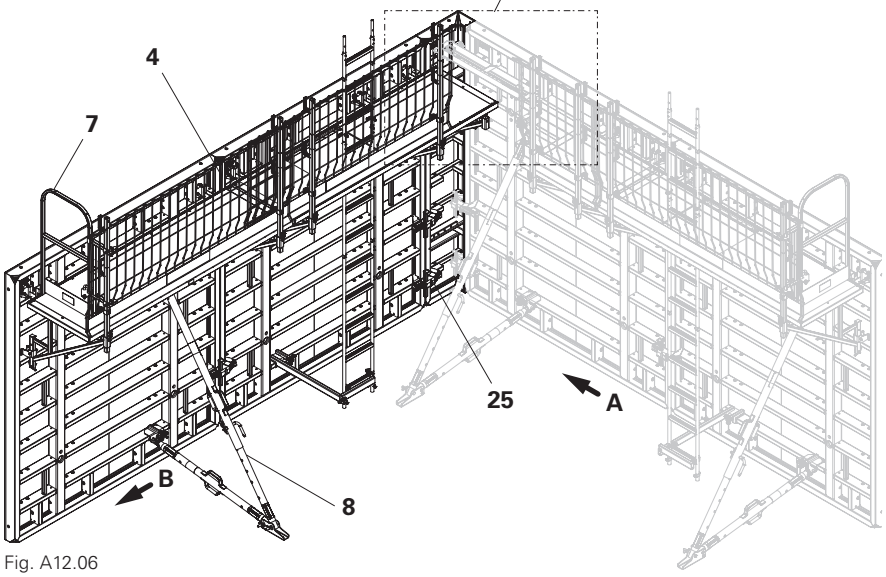


Fig. A12.06

Modifying the Compensation Deck MXK / MXK short

Modify the transition plate (**5.3**) on the Compensation Deck MXK / MXK short (**5**).
→ Close off exposed fall points.

Components:

5 Compensation Deck MXK / MXK short
5.2 Linch pin
5.3 Transition plate
5.4 Distance Piece
5.5 Recess
15 Inside Corner Post Holder MXK
15.3 Wedge

Modifying

1. Delivery condition of the Compensation Deck MXK / MXK short (**5**).
(Fig. A12.07)
2. Turn Compensation Deck MXK / MXK short (**5**) and remove the linch pins (**5.2**).
(Fig. A12.07a)
3. Pull out the transition plate (**5.3**) and place it in the holes on the long side.
(Fig. A12.07a + Fig. A12.07b)
4. Fit the linch pins.
(Fig. A12.07b)
5. Turn over the Compensation Deck MXK / MXK short (**5**) and slide the Inside Corner Post Holder MXK (**15**) over the recess (**5.5**).
(Fig. A12.08)
6. Fit the Inside Corner Post Holder MXK (**15**) onto the wedge (**15.3**) by tapping it with a hammer.
(Fig. A12.09)

→ Compensation Deck MXK / MXK short is prepared for installation in the inside corner.

- Is the Inside Corner Post Holder MXK (**15**) firmly seated?
- Are all linch pins (**5.2**) present and fitted?

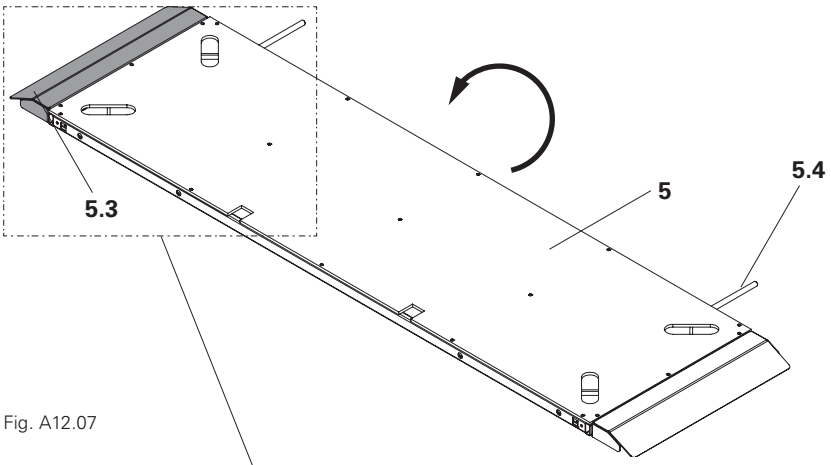


Fig. A12.07

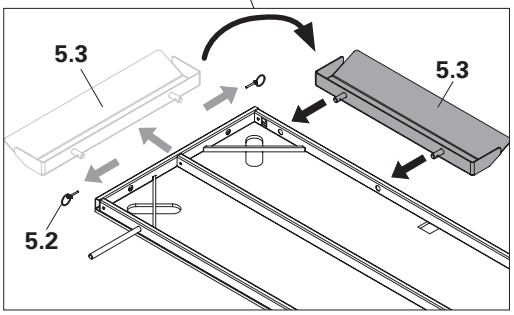


Fig. A12.07a

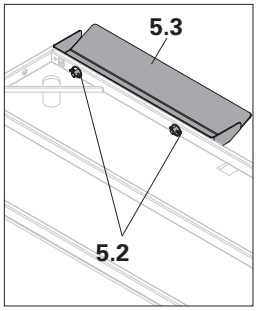


Fig. A12.07b

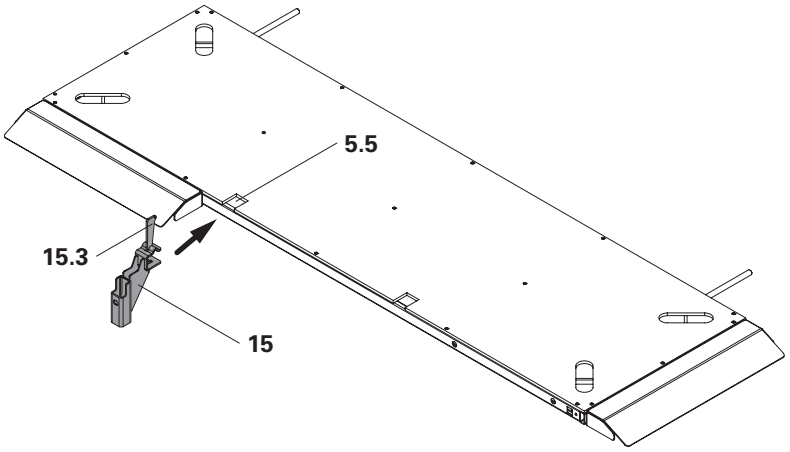


Fig. A12.08

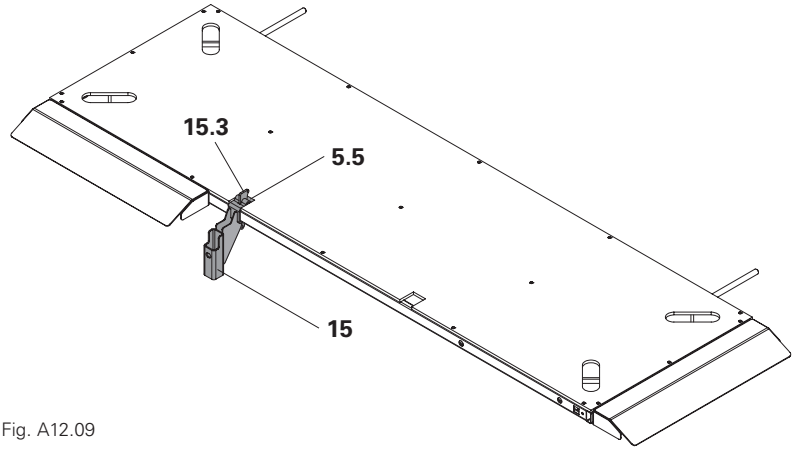


Fig. A12.09

Compensation Deck MXK / MXK short

Danger

- The compensation deck (**5**) and adapter may fall down due to incorrect installation and cause serious irreversible injury or even death.
  ⇒ Use PPE.
  ⇒ Follow the assembly instructions.
  ⇒ Assembly must be carried out by qualified personnel.
- Risk of crushing and cuts due to improper handling.
  ⇒ Use PPE

Assembly of the compensation deck (**5**) takes place from the Bracket System MXK.

Assembly

1. Move the Compensation Deck MXK / MXK short (**5**) to the installation position with the crane.

(Fig. A12.10)

2. Set the Compensation Deck MXK / MXK short (**5**) down carefully.
3. Spacers (**5.4**) must rest against the inner side of the formlining of the MAXIMO panel.

(Fig. A12.11a)

→ Compensation Deck MXK / MXK short is in position.

(Fig. A12.11)

- In strong winds, use the Lift Lock MXK, see Section "A9 Assembling the longitudinal infill with compensation deck" on page 39.
- Use Inside Corner Post Holder MXK (**15**) for fitting additional guardrail posts to the compensation deck.

(Fig. A12.11a)

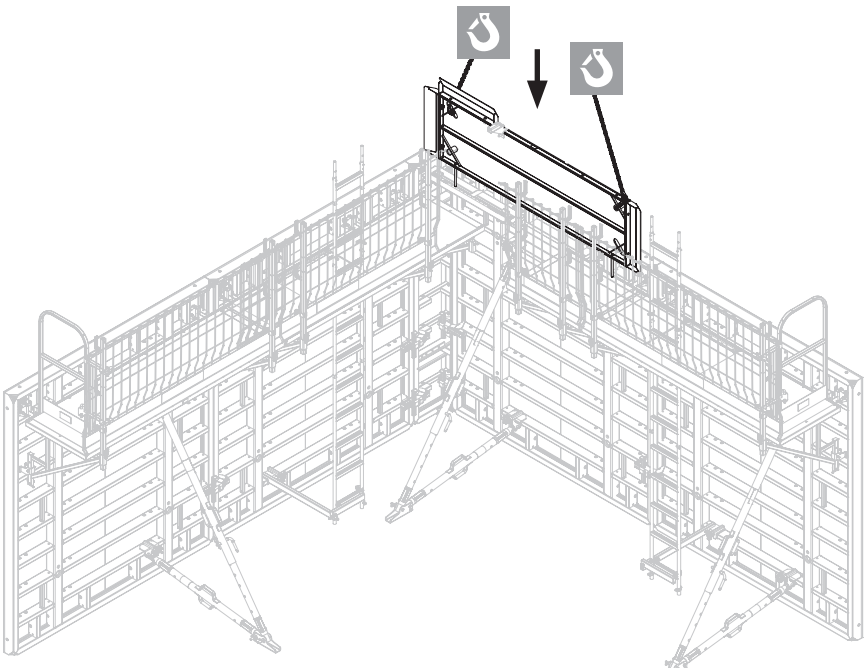


Fig. A12.10

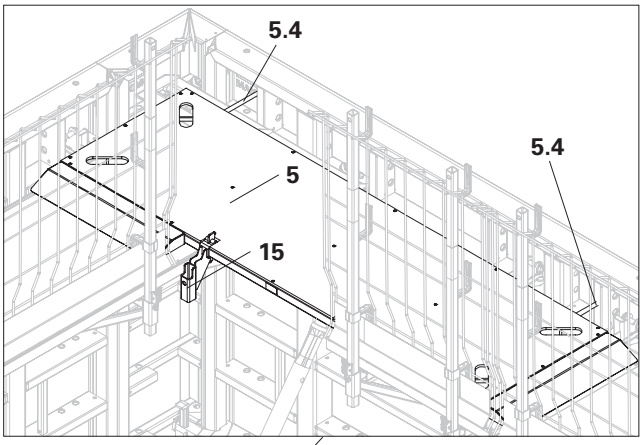


Fig. A12.11a

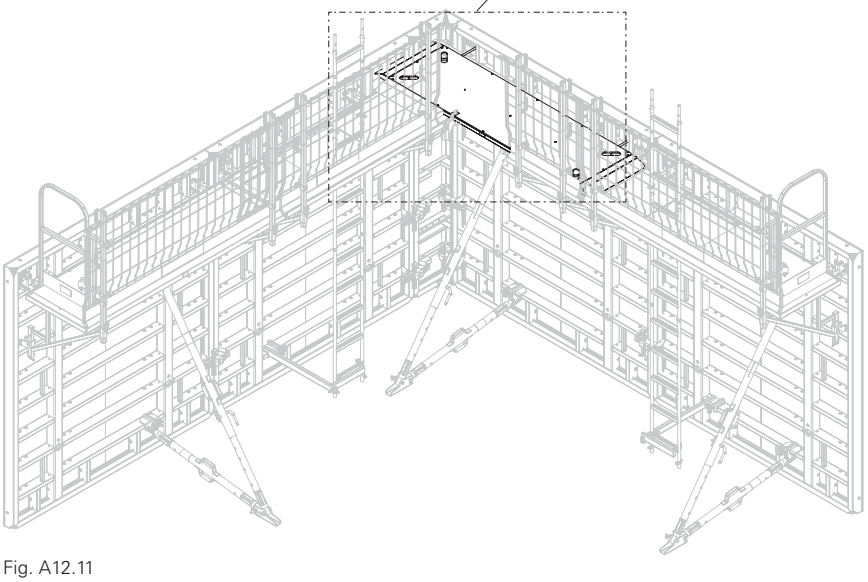


Fig. A12.11

Guardrail Post MXK

Warning

- The Guardrail Post MXK (**3**) may fall due to incorrect assembly and cause serious irreversible injury or even death.
  ⇒ Follow the assembly instructions.
  ⇒ Assembly must be carried out by qualified personnel.
- Risk of falling due to exposed fall points. This can lead to irreversible injury or even death.
  ⇒ Use PPE!
- Risk of crushing due to improper handling.
  ⇒ Use PPE.

Components:

3 Guardrail Post MXK
3.1 Securing Hook
15 Inside Corner Post Holder MXK
15.1 Mount
15.2 Hole

Assembly of the Guardrail Post MXK (**3**) takes place from the Bracket System MXK.

Assembly

1. Push the Guardrail Post MXK (**3**) into the mount (**15.1**) of the Inside Corner Post Holder MXK (**15**) until the securing hook (**3.1**) locks into the hole (**15.2**).

(Fig. A12.12a + Fig. A12.12b)
→ Guardrail Post MXK is now secured.

- Is the securing hook (**3.1**) engaged and secured with spring force?

(Fig. A12.12b)
→ If there is a lack of spring force in the securing hook, do not use Guardrail Post MXK (**3**)!

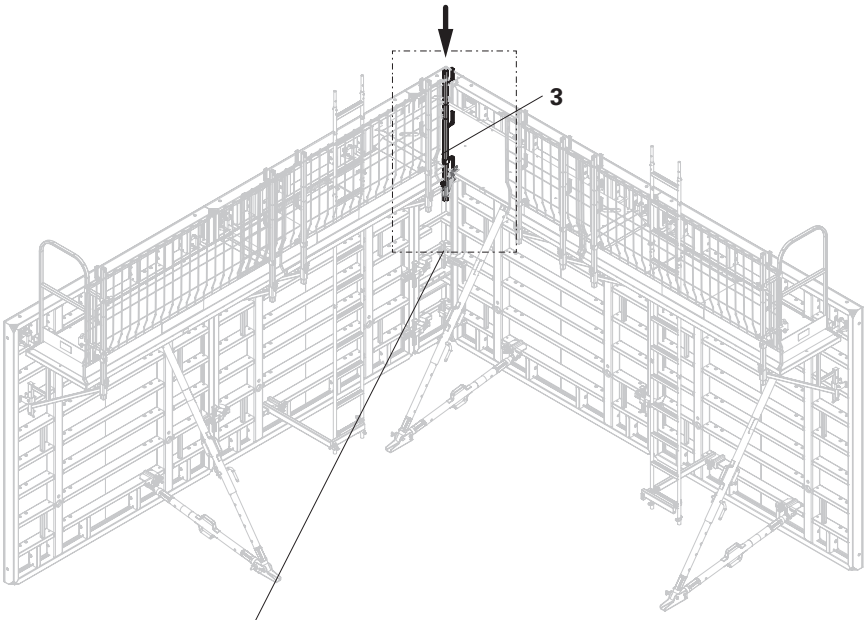


Fig. A12.12

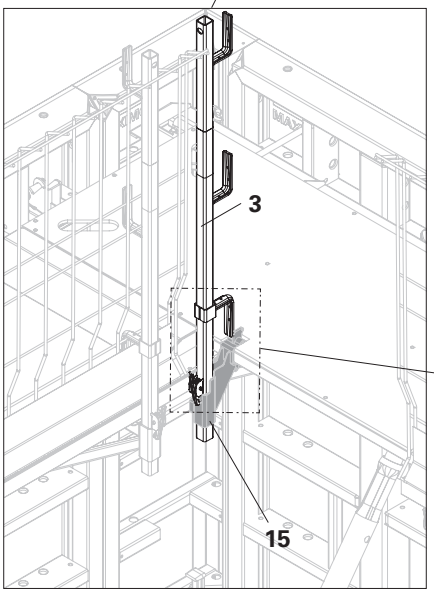


Fig. A12.12a

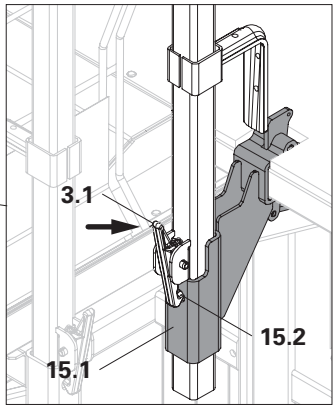


Fig. A12.12b

Side mesh barrier

Warning

- Risk of falling due to exposed fall points. This can lead to irreversible injury or even death.
  ⇒ Use PPE!

Assembly of the lateral protection barrier 120 (**4b**) takes place from the Bracket System MXK.
(Fig. A12.13)

Components:

3 Guardrail Post MXK
3.2 Upper bracket
3.3 Toe board holder
4b Lateral protection barrier 120
4.1 Toe board
15 Inside Corner Post Holder MXK
15.1 Mount
15.2 Hole

Assembly

1. Install lateral protection barrier 120 (**4b**) in the Guardrail Post MXK from above (**3**).
(Fig. A12.13a – Fig. A12.13c)
2. Hook the lateral protection barrier 120 (**4b**) into the upper brackets (**3.2**).
(Fig. A12.13a)
3. The toe board (**4.1**) is in position.
(Fig. A12.13b)
4. Raise the toe board holder (**3.3**).
(Fig. A12.13b)
5. Push the toe board (**4.1**) up to the Guardrail Post Holder MXK.
(Fig. A12.13b)
6. Lower the toe board holder (**3.3**).
(Fig. A12.13c)
   → Lateral protection barrier 120 (**4b**) and Compensation Deck MXK / MXK short (**5**) are secured against lifting.

Is lateral protection barrier 120 (**4b**) firmly seated in the brackets?

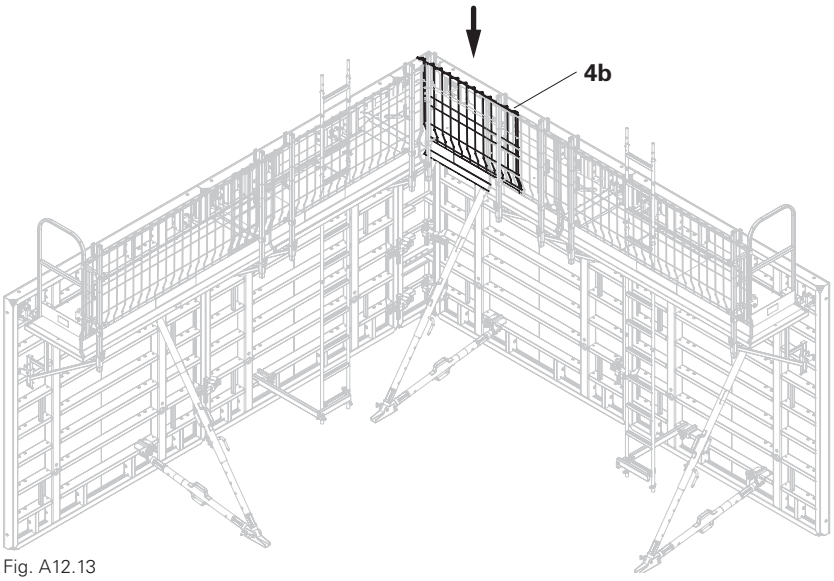


Fig. A12.13

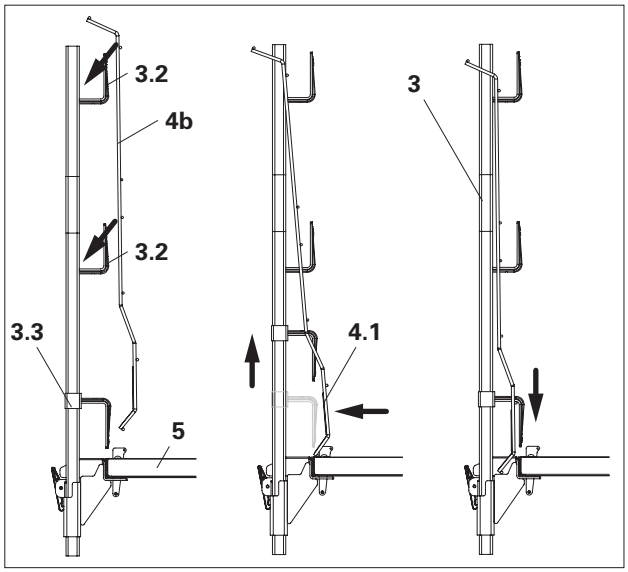


Fig. A12.13a Fig. A12.13b Fig. A12.13c

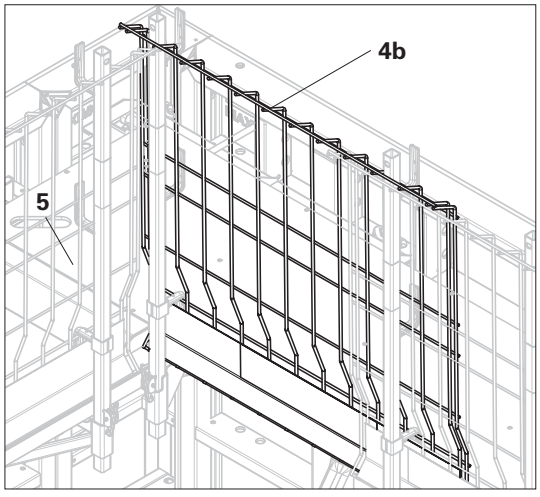


Fig. A12.13d

A13 Assembly of External Corner MXK

Scaffold Bracket MXK / MXK-RS

Warning

- The scaffold bracket (**1**) may fall due to incorrect assembly and cause serious irreversible injury or even death.
  ⇒ Follow the assembly instructions.
  ⇒ Assembly must be carried out by qualified personnel.
- Risk of crushing due to improper handling.
  ⇒ Use PPE.
  ⇒ Use suitable tools.

Components:

1 Scaffold Bracket MXK / MXK-RS
16 Outs. Corner MXA 270x45

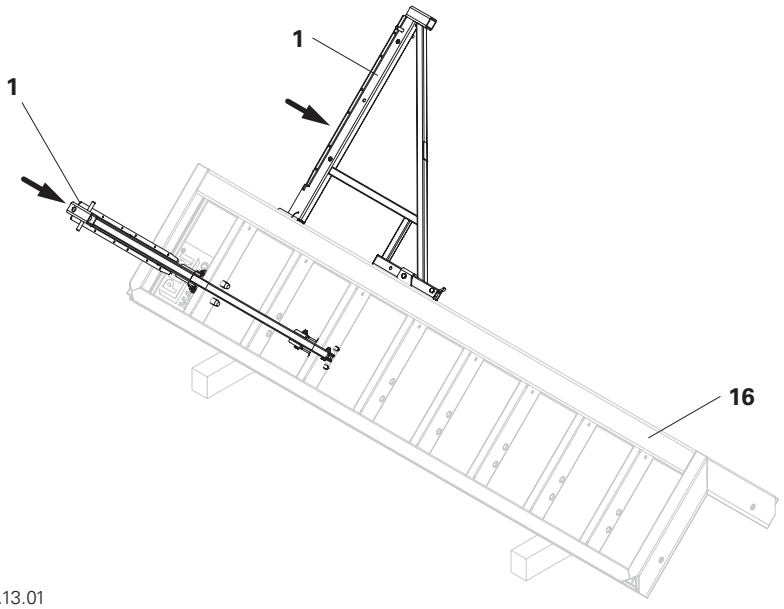


Fig. A13.01

The Scaffold Bracket MXK (**1**) is fitted to the panel lying on the ground.

Assembly

1. Set the external corner (**16**) on squared timbers with the formlining facing downwards.
2. Fit Scaffold Brackets MXK / MXK-RS (**1**) on both sides of the corner element as close as possible to the corner.

(Fig. A13.01)

For assembly of the scaffold brackets, see Section "A4 Assembly of Scaffold Bracket MXK" on page 22 and Section "A5 Assembly of Scaffold Bracket MXK-RS" on page 25).

A13 Assembly of External Corner MXK

External Corner Deck MXK and Guardrail Post MXK

Warning

- The External Corner Deck MXK (**17**) may fall due to incorrect assembly and cause serious irreversible injury or even death.
  ⇒ Follow the assembly instructions.
  ⇒ Assembly must be carried out by qualified personnel.
- Risk of crushing due to improper handling.
  ⇒ Use PPE.
  ⇒ Use suitable tools.

- The External Corner Deck MXK (**17**) and Guardrail Post MXK (**3**) is fitted to the panel lying on the ground.

(Section "A7 Assembly of Guardrail Post MXK" on page 36)

- The External Corner Deck MXK (**17**) is aligned by assembling the Guardrail Posts MXK (**3**).

(Fig. A13.04)

Components:

1	Scaffold Bracket MXK / MXK-RS
1.15	Supporting rail
3	Guardrail Post MXK
3.1	Securing Hook
16	Outs. Corner MXA 270x45
17	External Corner Deck MXK
17.1	Lift lock
17.3	Mount
17.4	Hole
17.5	Clamping wedge

Attention! If there is a lack of spring force in the securing hook, do not use Guardrail Post MXK (**3**)!

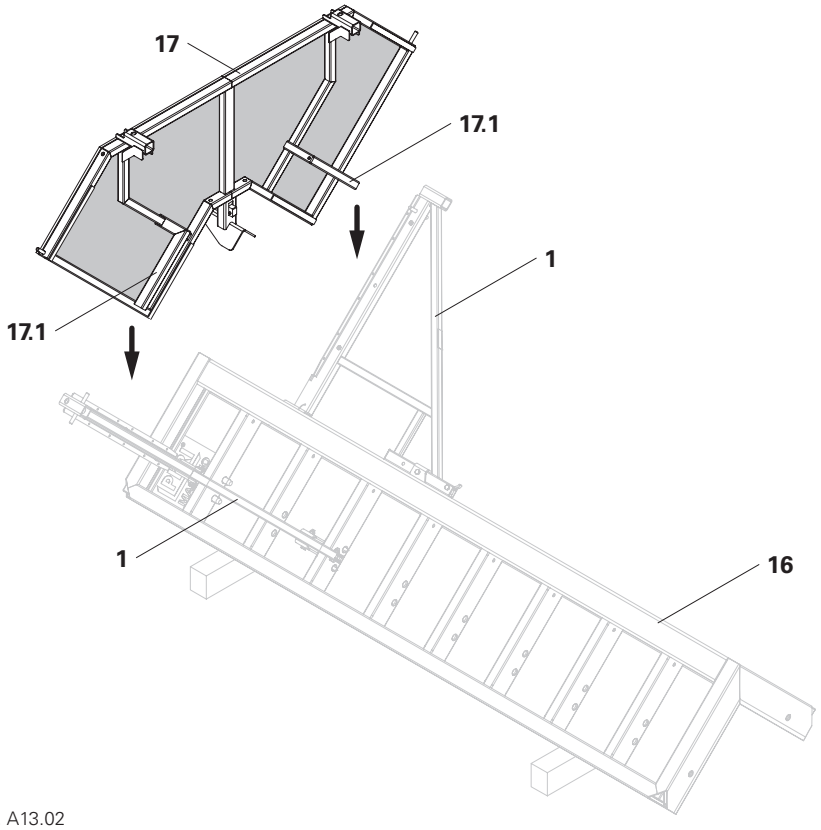


Fig. A13.02

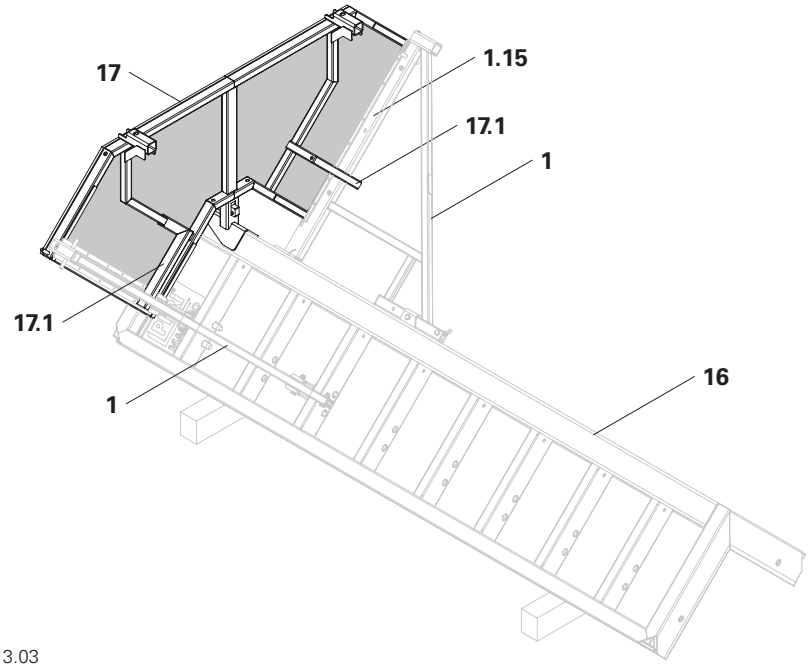


Fig. A13.03

A13 Assembly of External Corner MXK

Assembly

1. Push the External Corner Deck MXK (**17**) on external corner (**16**) into the scaffold bracket (**1**) with the lift lock (**17.1**).

(Fig. A13.02)

2. External Corner Deck MXK (**17**) is mounted on the Scaffold Brackets MXK (**1**).
3. Lift lock (**17.1**) rests against the support rail (**1.15**) of the Scaffold Bracket MXK from below.
   → External Corner Deck MXK is positioned.

(Fig. A13.03)

4. Push 4x Guardrail Posts MXK (**3**) into the mounts (**17.3**) of the External Corner Deck MXK.

(Fig. A13.04)

5. The securing hook (**3.1**) must engage in the hole (**17.4**).
   → Guardrail Post MXK is now secured.

(Fig. A13.04 – Fig. A13.05a)

6. Secure External Corner Deck MXK (**17**) by hammering on the clamping wedge (**17.5**).
   → External Corner Deck MXK (**17**) is secured.

(Fig. A13.05 + Fig. A13.05b)

- Is External Corner Deck MXK (**17**) secured with a clamping wedge (**17.5**)?
- Is the External Corner Deck MXK (**17**) firmly seated?

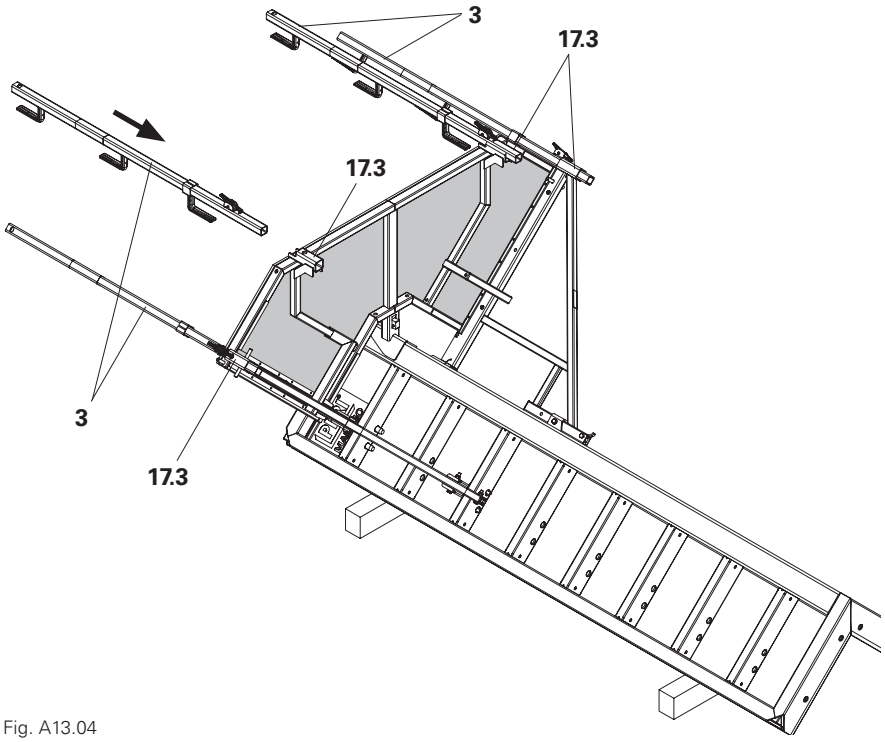


Fig. A13.04

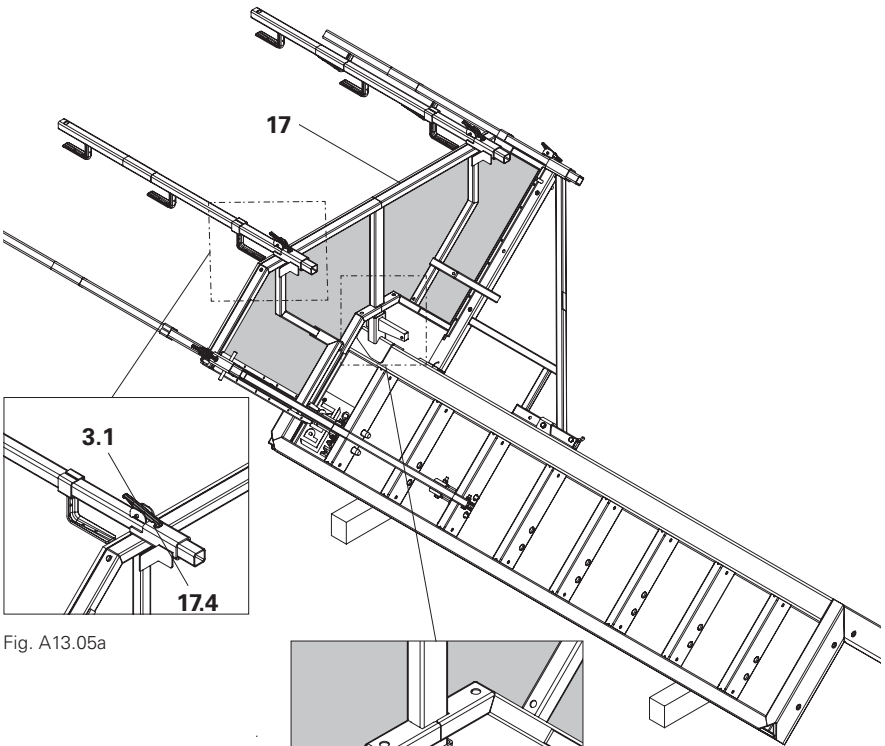


Fig. A13.05a

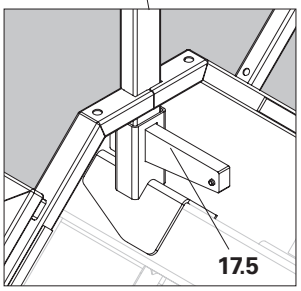


Fig. A13.05

Fig. A13.05b

A13 Assembly of External Corner MXK

Additional corner variant for installing the External Corner Deck MXK

- MXK on TRIO external corner 60 / 72

MXK on TRIO external corner 60 / 72

The Scaffold Brackets MXK / MXK RS (**1**) are attached as close as possible to the corner.
(Fig. A13.06 + Fig. A13.06a)

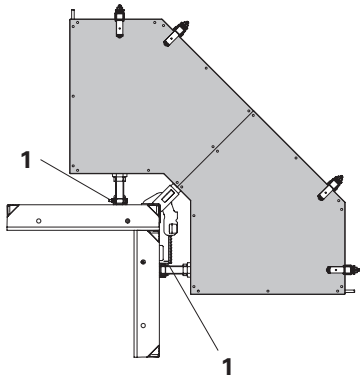


Fig. A13.06a

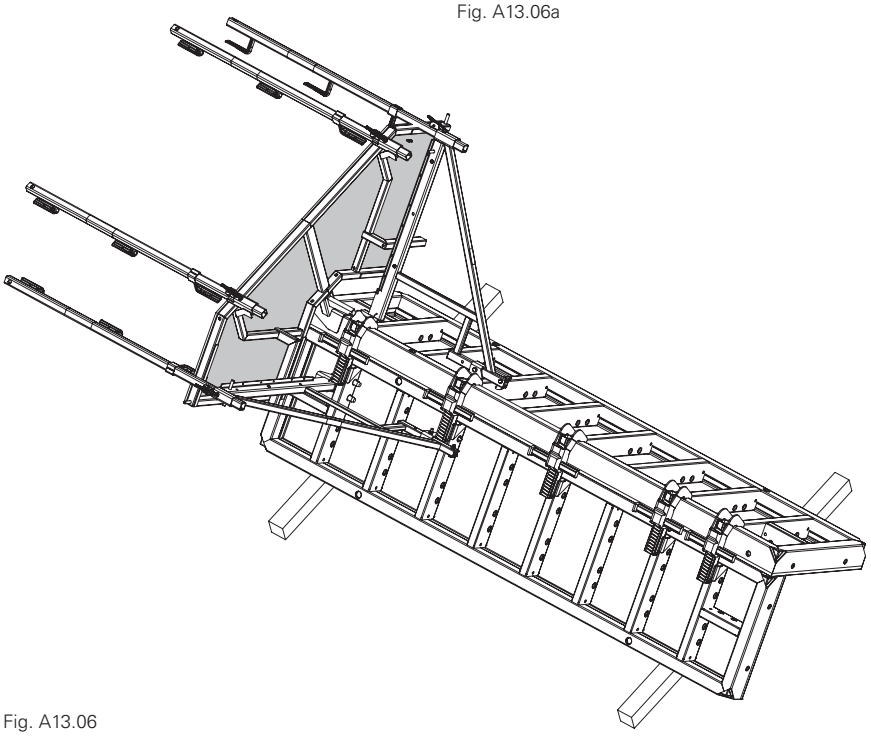


Fig. A13.06

A13 Assembly of External Corner MXK

Positioning the external corner

Warning

- Risk of falling due to exposed fall points when installing the External Corner MXK (**16**). This can lead to irreversible injury or even death.
  ⇒ Use PPE!
  (Section "Fig. A2.01" on page 14).
- External Corner MXK (**16**) can topple over and cause serious irreversible injury or even death.
  ⇒ Secure the formwork panels with ties and Alignment Couplers BFD (**25**).
  ⇒ Then remove the lifting hook (**20**) and crane lifting gear with the load hook (**24**).

Components:

3	Guardrail Post MXK
4b	Lateral protection barrier 120
4c	Lateral protection barrier 90
5	Compensation Deck MXK / MXK short
16	External Corner MXK or variants
20	Lifting Hook MX 1.5t
24	Coup. Load Hook KHSW 13
25	Alignment Coupler BFD

- Follow the Instructions for Use for the Lifting Hook MX 1.5t.
- The number of Alignment Couplers BFD is provided in the MAXIMO MX 15 and MAXIMO MX 18 Instructions for Assembly and Use.

Assembly

1. Erect the pre-assembled formwork side (**A**) and secure with ties.

(Fig. A13.07)
(Section "A6 Scaffold deck assembly" on page 29 – Section "A11 Assembly of Ladder Access MXK" on page 47).

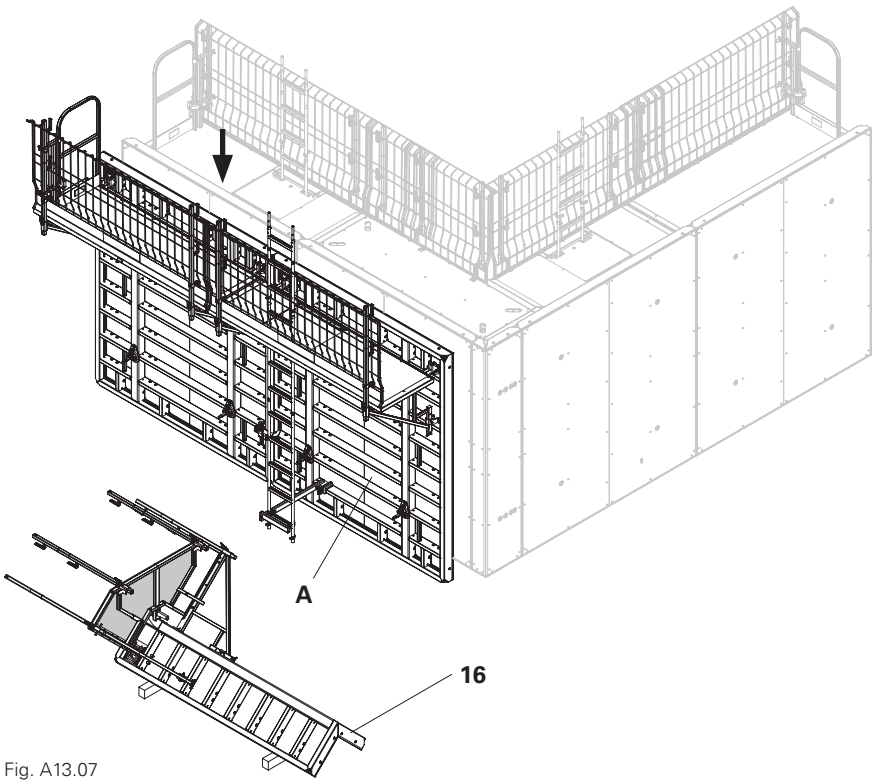


Fig. A13.07

A13 Assembly of External Corner MXK

2. Fasten the pre-assembled external corner (**16**) to the formwork side (**A**) with the required number of Alignment Couplers BFD (**25**).
(Fig. A13.08)
3. Do not remove the lifting hook (**20**) until the Alignment Couplers BFD (**25**) have been securely fitted.
(Fig. A13.08 + Fig. A13.08a)
4. Erect the pre-assembled formwork side (**B**) and secure with ties.
(Fig. A13.09)
(Section "A6 Scaffold deck assembly" on page 29 – Section "A11 Assembly of Ladder Access MXK" on page 47).
5. Fit the Alignment Couplers BFD (**25**) securely.
(Fig. A13.09)

Are the Alignment Couplers BFD (**25**) firmly tightened?

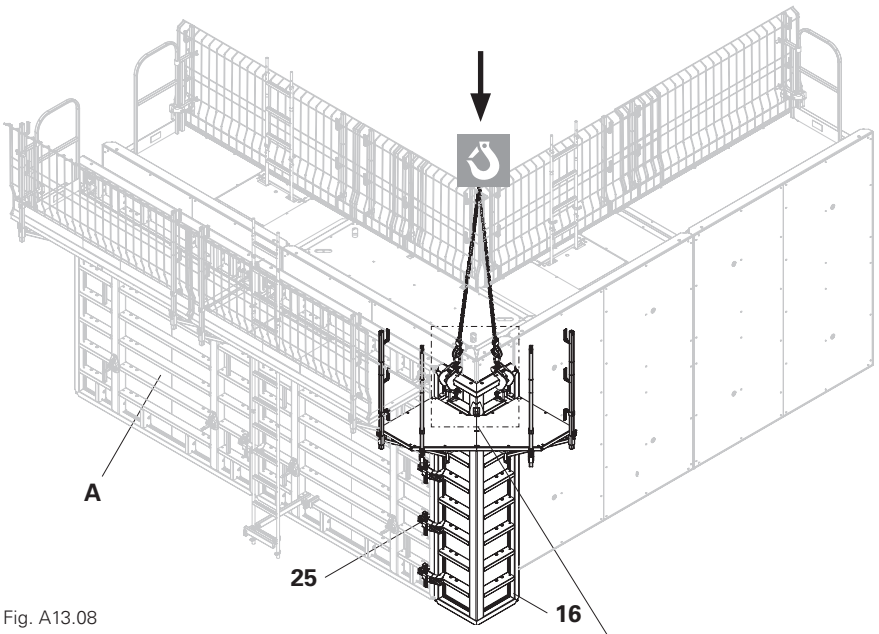


Fig. A13.08

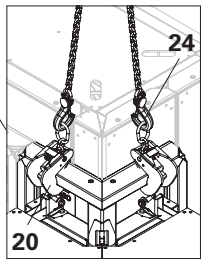


Fig. A13.08a

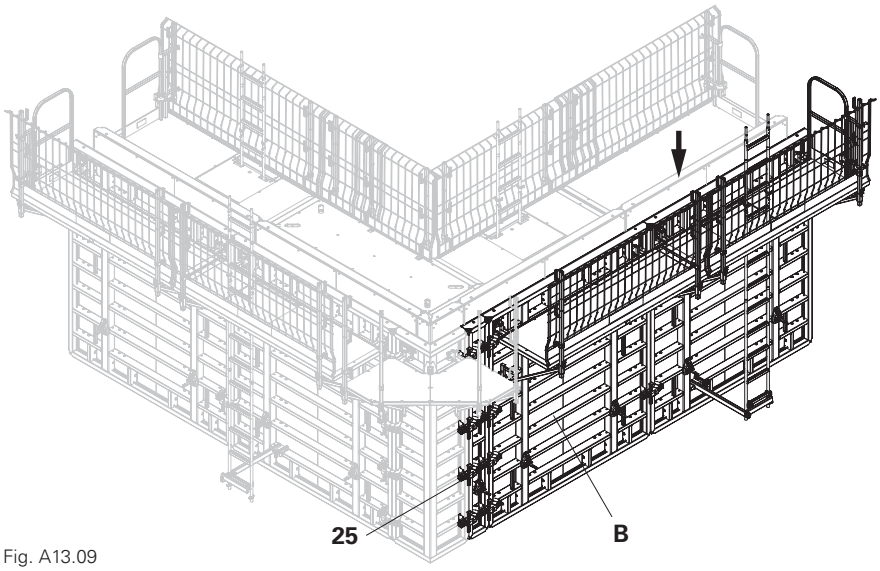


Fig. A13.09

Closing the open areas – Compensation Decks MXK / MXK short

Warning

- Risk of falling due to exposed fall points. This can lead to irreversible injury or even death.
  ⇒ Use PPE!

(Section "Fig. A2.01" on page 14)

Assembly of the Compensation Deck MXK / MXK short (**5**) takes place from the Bracket System MXK.
(Fig. A13.10 + Fig. A13.10a)
(Section "A9 Assembling the longitudinal infill with compensation deck" on page 39)

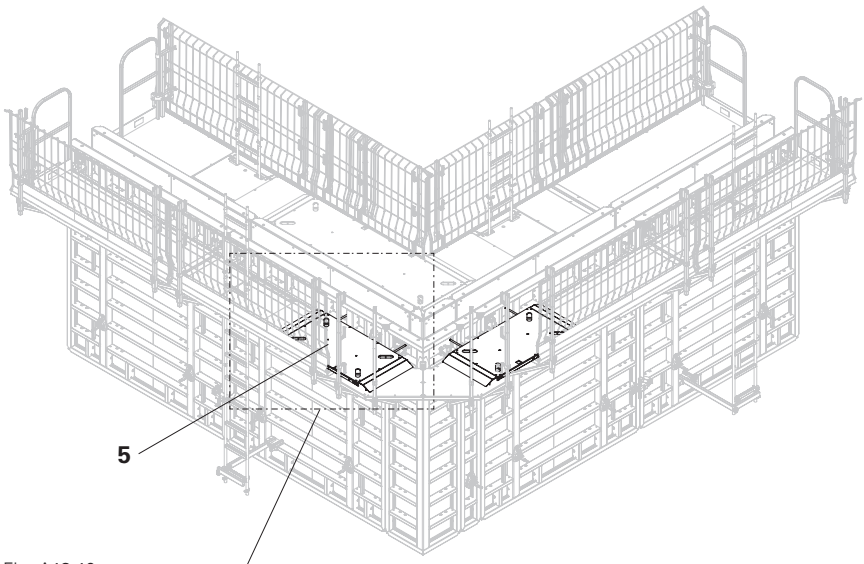


Fig. A13.10

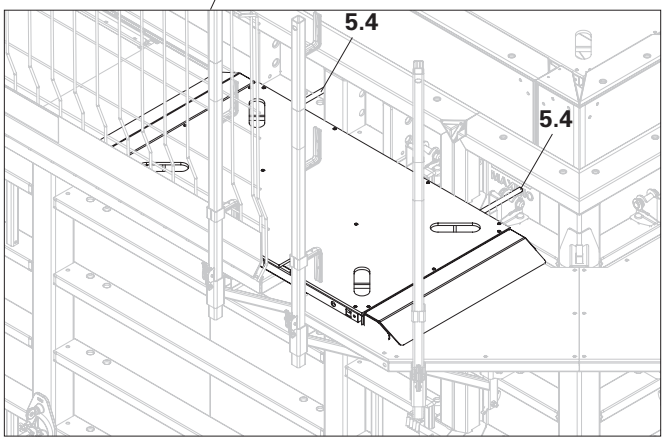


Fig. A13.10a

Fitting the lateral protection barrier

Warning

- Risk of falling due to exposed fall points. This can lead to irreversible injury or even death.
  ⇒ Use PPE!

(Section "Fig. A2.01" on page 14)

Assembly of the lateral protection barrier (**4b + 4c**) takes place from the Bracket System MXK.
(Fig. A13.11 + Fig. A13.11a)
(Section "A8 Assembling lateral protection" on page 38)

Are the lateral protection barriers (**4b + 4c**) firmly in place?

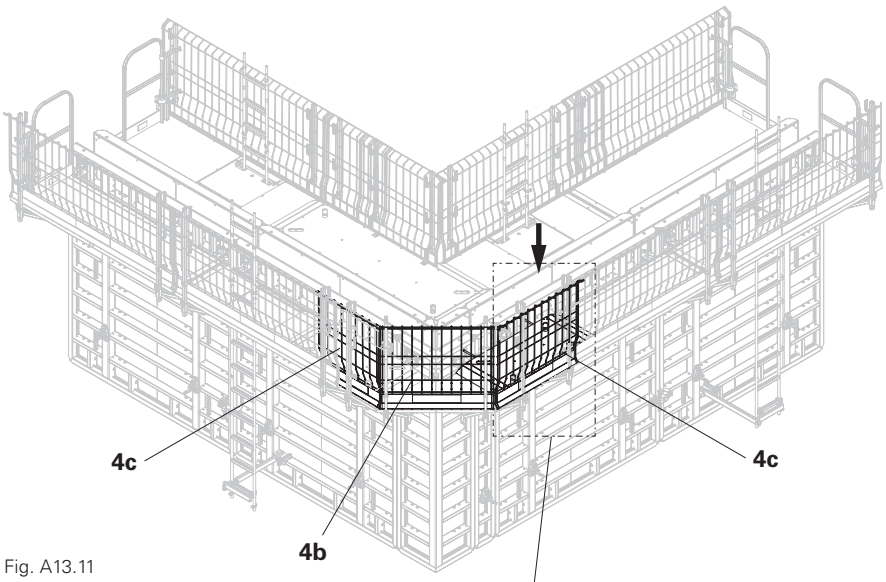


Fig. A13.11

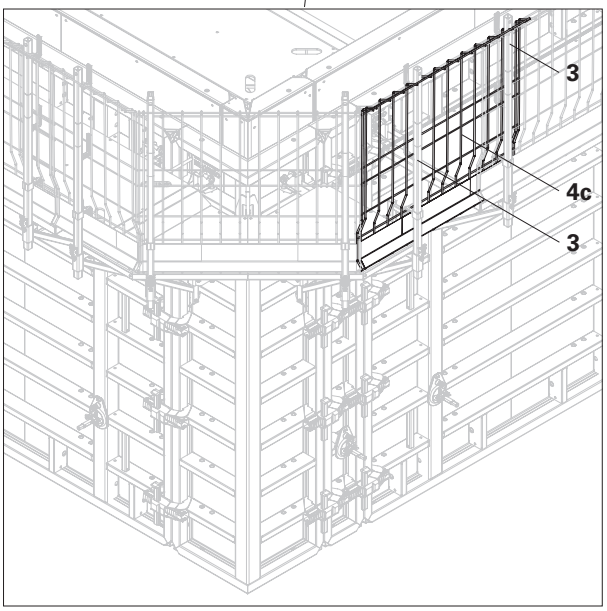


Fig. A13.11a

Wall elements, external corner

Warning

- Risk of falling due to exposed fall points. This can lead to irreversible injury or even death.
  ⇒ Use PPE! (Section "Fig. A2.01" on page 14).
- Wall elements can topple over and cause serious irreversible injury or even death.
  ⇒ Firstly, fit the lifting hooks (**20**) to the panels and secure them with a crane.
  ⇒ Then remove the Alignment Couplers BFD (**25**) starting from the bottom.

Components:

1	Scaffold Bracket MXK / MXK-RS
3	Guardrail Post MXK
4b	Lateral protection barrier 120
4c	Lateral protection barrier 90
7	Stopend Rail MXK
10	Ladder Connector MXK
11	MAXIMO panel
20	Lifting Hook MX 1.5t
24	Coup. Load Hook KHSW 13
25	Alignment Coupler BFD

Deshuttering

1. Attach the lifting hook (**20**) to the wall element and hook in the load hook (**24**).
2. Tighten the chain slings slightly with the crane.
3. Remove ties.
4. Remove the Alignment Couplers BFD (**25**) starting from the bottom.
5. Remove the ladder access (**10**).

(Fig. A14.01)

6. Lift the wall element with the crane and carefully place it on the bracket.

(Fig. A14.02)

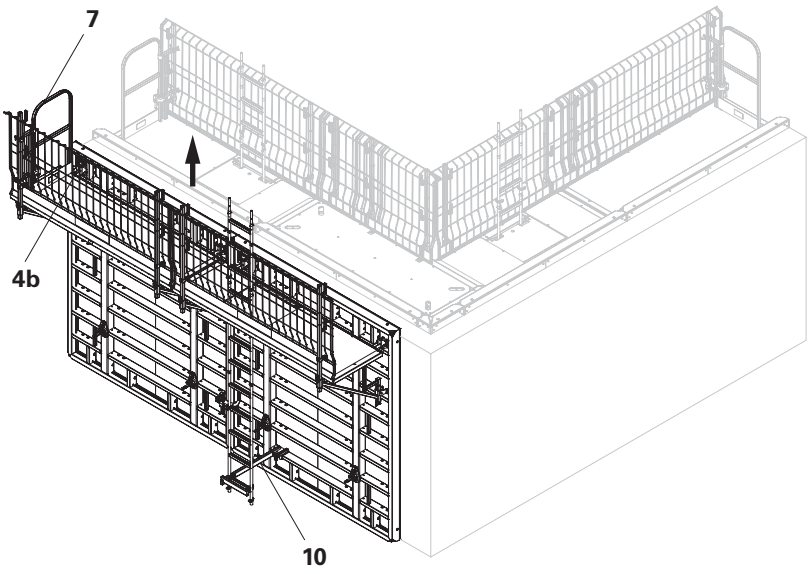


Fig. A14.01

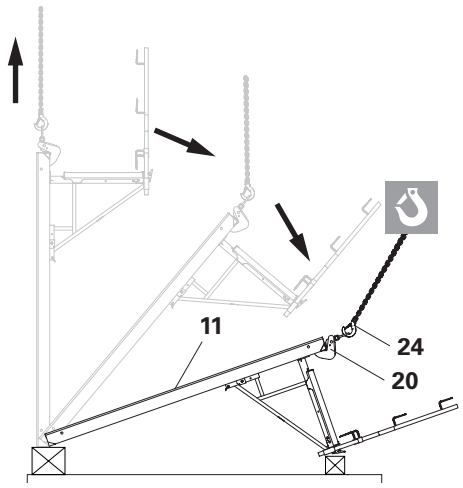


Fig. A14.02

The formlining can now be cleaned and moved to the next location.
→ Formlining cleaning position (Fig. A14.02)

A14 Standard disassembly process

Disassembly

1. Remove the lateral protection barrier (**4b**) and, if necessary, Stopend Rail MXK (**7**).
2. Use the crane to lift the formwork elements one by one and carefully place them on squared timber with the formlining facing downwards.

(Fig. A14.03)

3. Secure formwork elements to prevent them from slipping.
4. Remove the MAXIMO Lifting Hook (**20**) and load hook (**24**).

(Fig. A14.03)

5. Remove Guardrail Post MXK (**3**).
6. Remove the scaffold deck (**2**).
7. Remove Scaffold Bracket MXK (**1**). (Fig. A14.03)

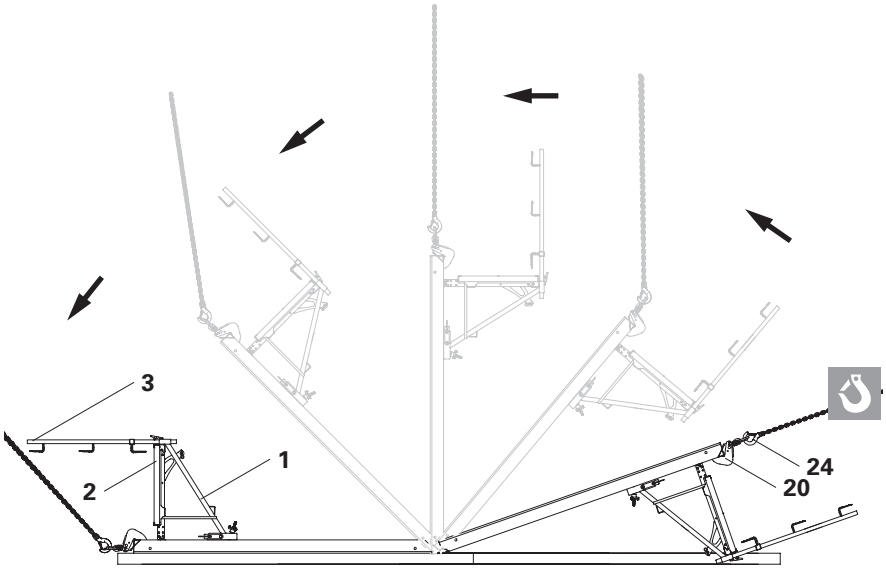


Fig. A14.03

Wall elements for inside corner

Warning

- Risk of falling due to exposed fall points. This can lead to irreversible injury or even death.
  ⇒ Use PPE! (Section "Fig. A2.01" on page 14).
- Wall elements can topple over and cause serious irreversible injury or even death.
  ⇒ Firstly, fit the lifting hooks (**20**) to the panels and secure them with a crane.
  ⇒ Then remove the Alignment Couplers BFD (**25**) starting from the bottom.
  ⇒ Remove the push-pull props (**8**).

Components:

1	Scaffold Bracket MXK / MXK-RS
2	Scaffold Deck MXK
3	Guardrail Post MXK
4b	Lateral protection barrier 120
7	Stopend Rail MXK
8	Push-Pull Prop RS
10	Ladder Connector MXK
11	MAXIMO panel
13	Ins.Cor. Adapter MAR MXK
20	Lifting Hook MX 1.5t
23	Inside Corner Bracket MXK
24	Coup. Load Hook KHSW 13
25	Alignment Coupler BFD

Dismantling wall elements (A / B)

1. Fit the MAXIMO lifting hook (**20**).
2. Tighten the chain slings slightly with the crane.
3. Remove ties.
4. Remove the Alignment Couplers BFD (**25**) starting from the bottom.

(Fig. A14.04)

5. Remove the ladder and Ladder Connector MXK (**10**).
6. Place the formwork element (**11**) on the Scaffold Bracket MXK (**1**) and secure it to prevent it from slipping and toppling.

(Fig. A14.05)

7. Remove the lateral protection barrier (**4b**).
8. Remove Stopend Rail MXK (**7**).

(Fig. A14.04 + Fig. A14.05)

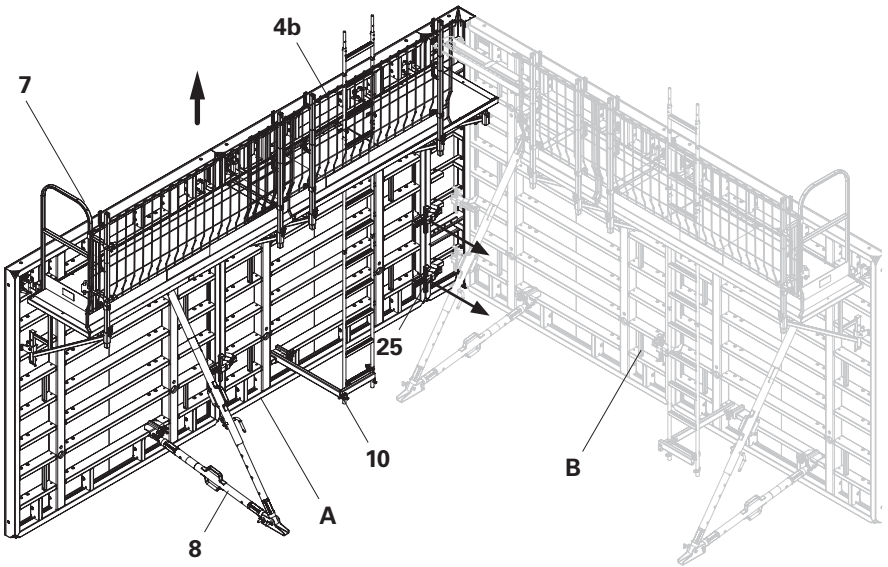


Fig. A14.04

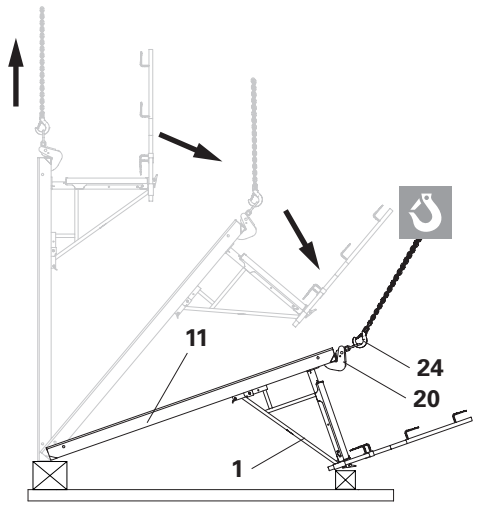


Fig. A14.05

Follow the instructions for use for the Lifting Hook MX 1.5t.

Are the MAXIMO lifting hooks firmly in place?

9. Carefully place the formwork elements (A/B) on squared timber with the formlining facing downwards.

(Fig. A14.06)

10. Secure formwork elements to prevent them from slipping and toppling.
11. Remove the MAXIMO Lifting Hook (**20**) and load hook (**24**).
12. Remove Guardrail Post MXK (**3**).
13. Remove Scaffold Deck MXK (**2**).
14. Remove Scaffold Bracket MXK (**1**).
15. Remove Ins.Cor. Adapter MAR MXK (**13**) or Inside Corner Bracket MXK (**23**) from the MAXIMO panel struts.

(Fig. A14.07 + Fig. A14.07a)

For safe storage and transportation, use PERI crate pallets.

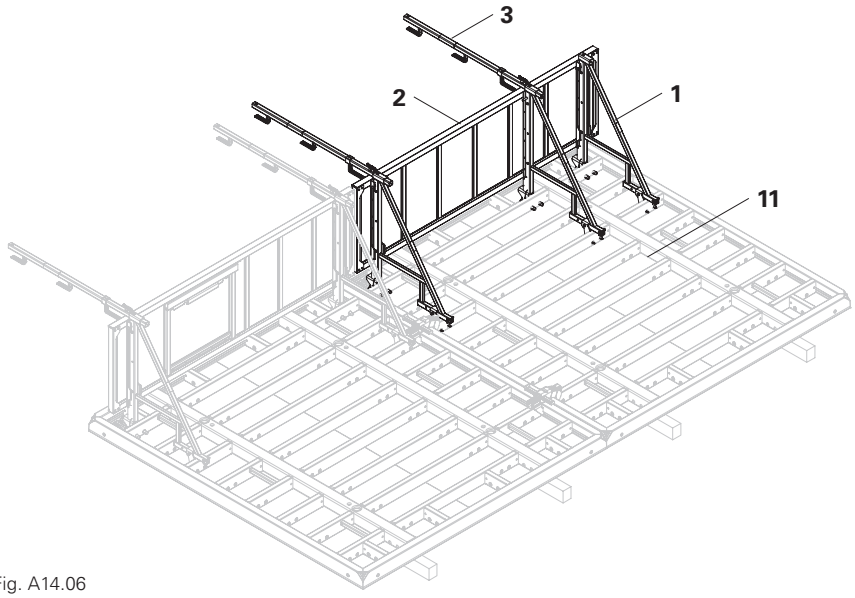


Fig. A14.06

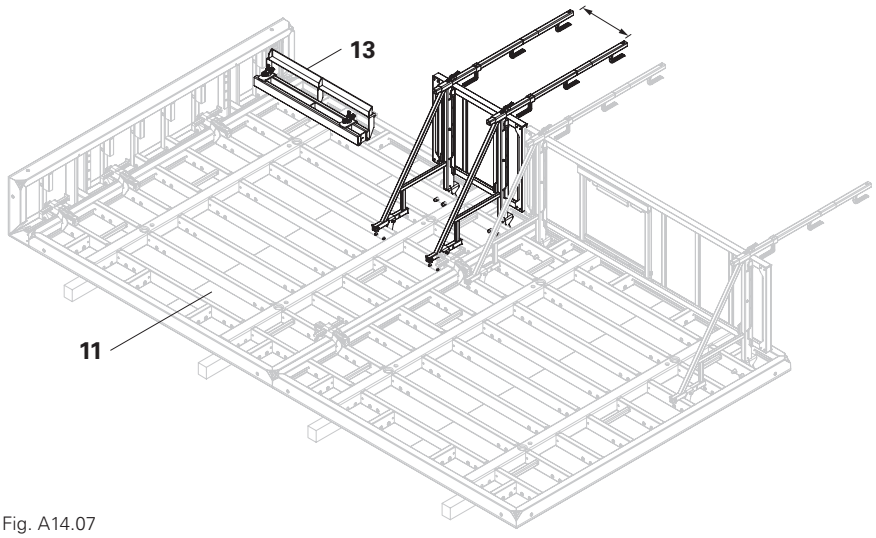


Fig. A14.07

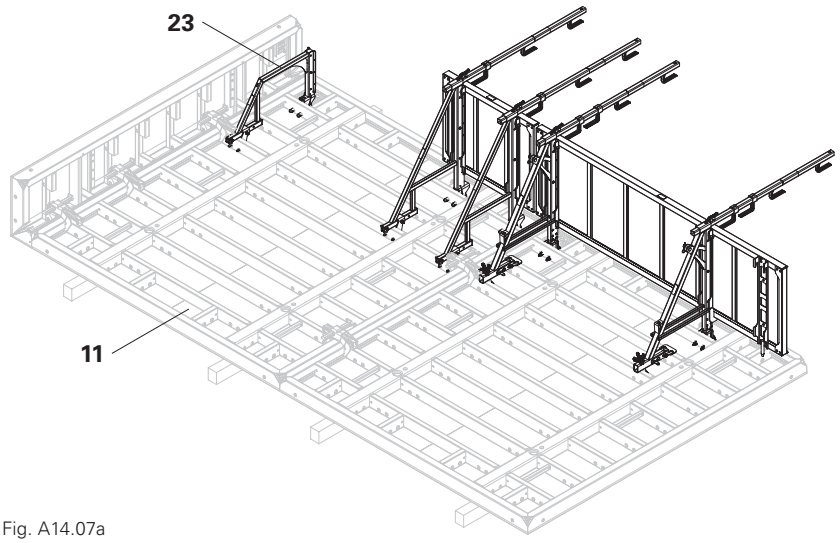


Fig. A14.07a

A15 Dismantling the External Corner MXK

Lateral protection barrier and Compensation Deck MXK / MXK short

Warning

- Risk of falling due to exposed fall points. This can lead to irreversible injury or even death.
  ⇒ Use PPE!

(Section "Fig. A2.01" on page 14)

- Use dedicated load-bearing points when transporting with the crane!
- Do not strike the formwork until instructed to do so by a competent person!
- Do not tear the formwork off the concrete!

Components:

3	Guardrail Post MXK
4b	Lateral protection barrier 120
4c	Lateral protection barrier 90
5	Compensation Deck MXK / MXK short
24	Coup. Load Hook KHSW 13

Dismantling the External Corner MXK takes place from the Bracket System MXK.

Disassembly

1. Lift and remove the lateral protection barriers (**4b + 4c**) one after the other.

(Fig. A15.01 + Fig. A15.01a)

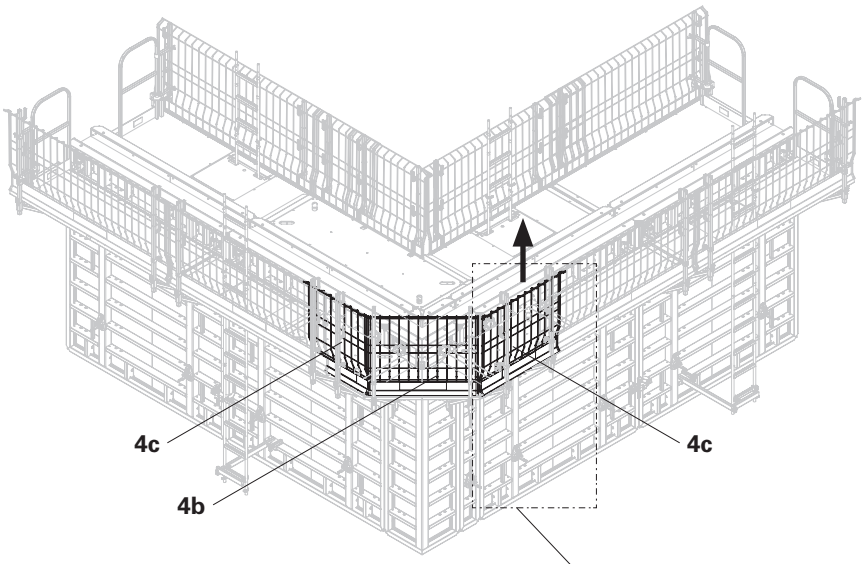


Fig. A15.01

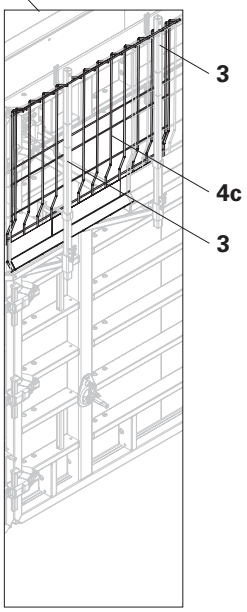


Fig. A15.01a

A15 Dismantling the External Corner MXK

2. Attach the Compensation Decks MXK / MXK short (**5**) to the load-bearing points of the Compensation Deck MXK / MXK short (**5**) using two-sling lifting gear and load hooks (**24**) and carefully remove from the Bracket System MXK.
(Fig. A15.03 + Fig. A15.03a)

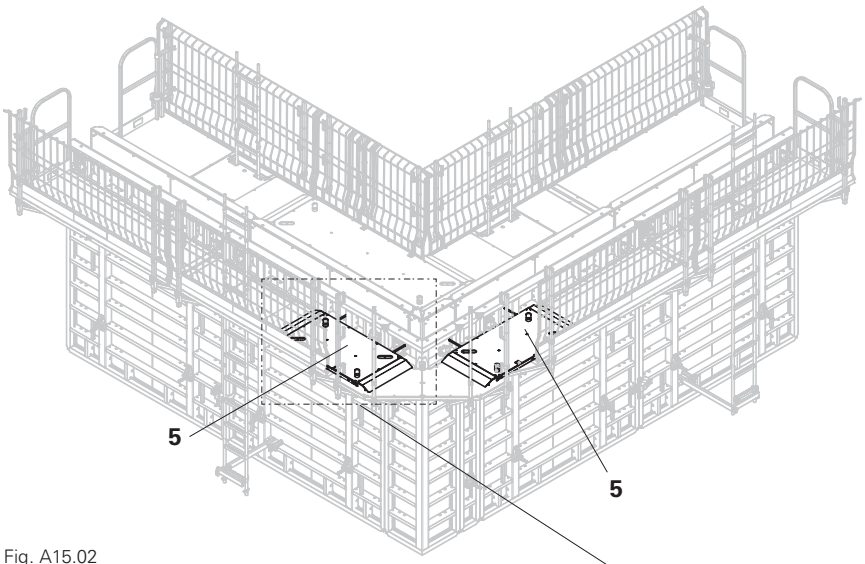


Fig. A15.02

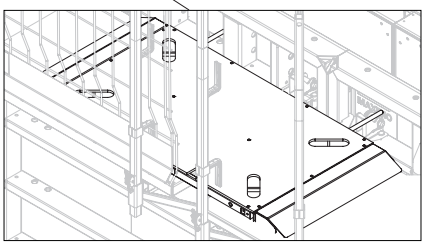


Fig. A15.02a

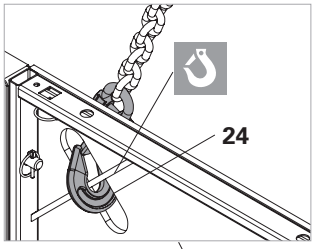


Fig. A15.03a

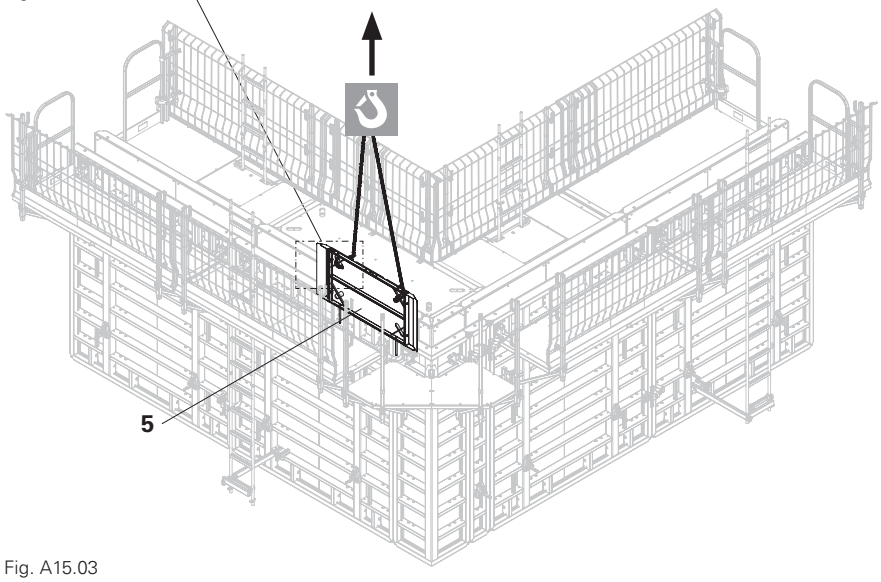


Fig. A15.03

A15 Dismantling the External Corner MXK

MAXIMO External Corner Panel

Warning

- Risk of falling due to exposed fall points. This can lead to irreversible injury or even death.
  ⇒ Use PPE!

(Section "Fig. A2.01" on page 14)

- External corner panels can topple over and cause serious irreversible injury or even death.
  ⇒ Firstly, fit the lifting hook (**20**) to the external corner (**16**) and secure with a crane.
  ⇒ Then remove the Alignment Couplers BFD (**25**) starting from the bottom.

Components:

1	Scaffold Bracket MXK / MXK-RS
16	Outs. Corner MXA 270x45
17	External Corner Deck MXK
20	Lifting Hook MX 1.5t
24	Coup. Load Hook KHSW 13
25	Alignment Coupler BFD

Disassembly

1. Fit the lifting hook (**20**) and load hook (**24**).

(Fig. A15.04 + Fig. A15.04a)

2. Tighten the chain slings slightly with the crane.
3. Remove the Alignment Couplers BFD (**25**) starting from the bottom.

(Fig. A15.04)

4. Set the External Corner MXA (**16**) down on squared timbers with the formlining facing downwards.
5. Secure External Corner MXA (**16**) to prevent it from slipping and toppling.

(Fig. A15.05)

6. Remove the lifting hook (**20**).

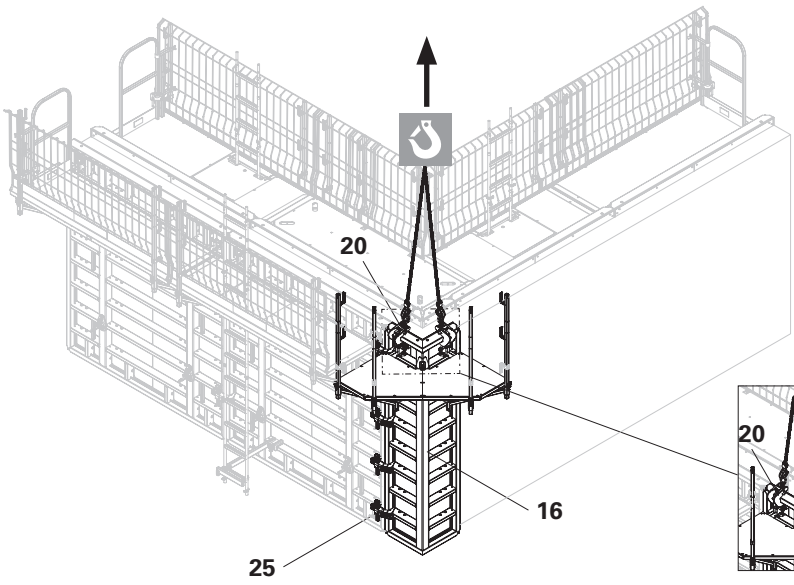


Fig. A15.04

Fig. A15.04a

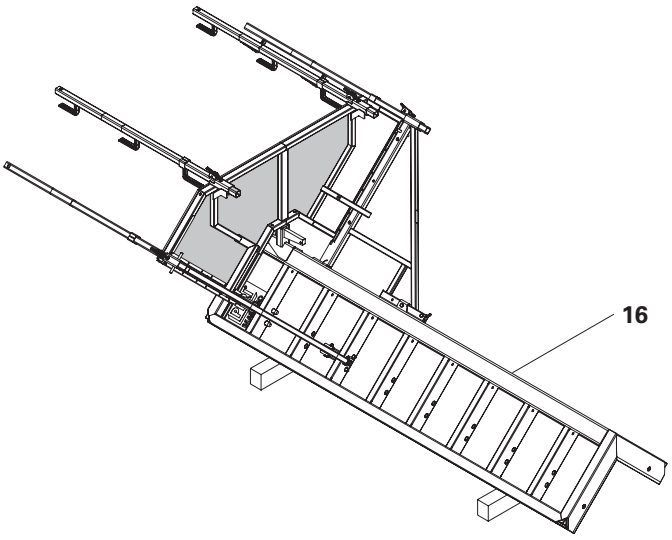


Fig. A15.05

Follow the instructions for use for the Lifting Hook MX 1.5t.

Are the Lifting Hooks MX 1.5t firmly seated?

- The assembled external corner can be placed on the bracket scaffold in order to clean the formlining
  → Place squared timbers underneath.
- Secure to prevent sideways toppling!

MAXIMO Guardrail Post MXK and External Corner Deck MXK

Components:

1	Scaffold Bracket MXK / MXK-RS
3	Guardrail Post MXK
16	Outs. Corner MXA 270x45
17	External Corner Deck MXK
17.5	Clamping wedge

Disassembly

1. Release the External Corner Deck MXK (**17**) by hammering on the clamping wedge (**17.5**) from below.
(Fig. A15.06 + Fig. A15.06a)
2. Remove all Guardrail Posts MXK (**3**).
(Fig. A15.06)
3. Lift the External Corner Deck MXK (**17**) upwards from the Scaffold Brackets MXK (**1**).
(Fig. A15.07)
4. Remove Scaffold Brackets MXK (**1**).
(Fig. A15.07)

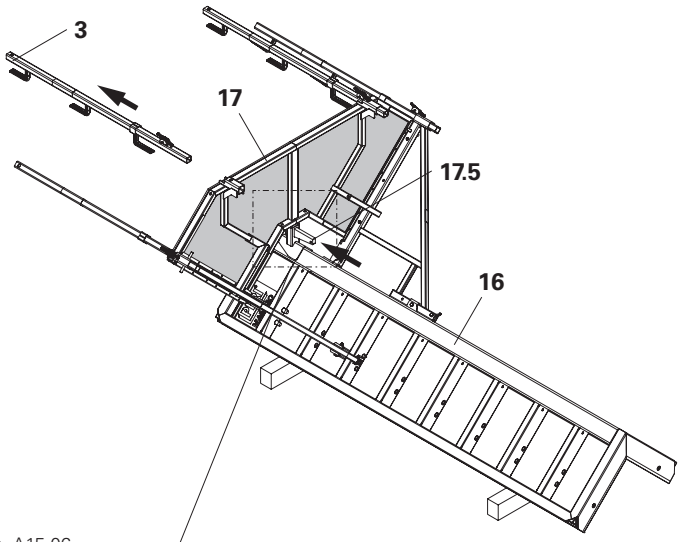


Fig. A15.06

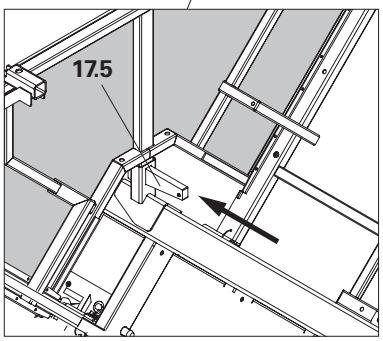


Fig. A15.06a

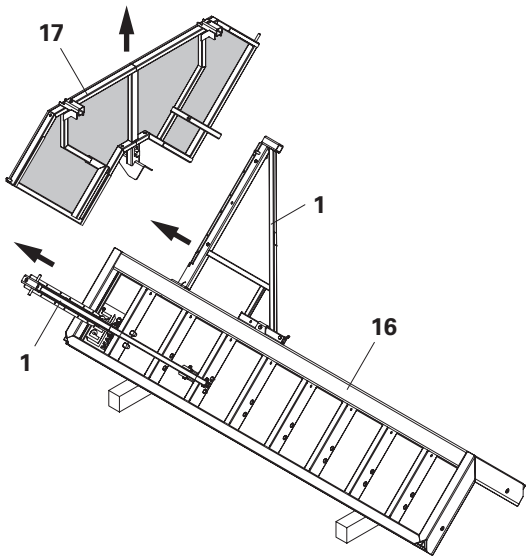


Fig. A15.07

A16 Dismantling the Inside Corner MXK

Side mesh barrier

Warning

- Risk of falling due to exposed fall points. This can lead to irreversible injury or even death.
  ⇒ Use PPE!

(Section "Fig. A2.01" on page 14)

Components:

4b	Lateral protection barrier 120

Dismantling the Inside Corner MXK takes place from the Bracket System MXK.

Disassembly

1. Lift the lateral protection barrier 120 (**4b**) upwards and remove it.

(Fig. A16.01)

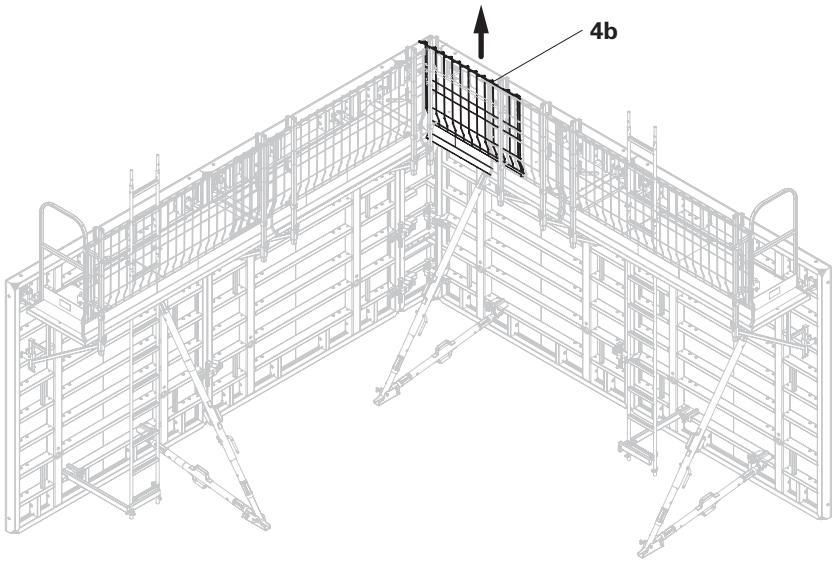


Fig. A16.01

A16 Dismantling the Inside Corner MXK

Guardrail Post MXK

Warning

- Risk of falling due to exposed fall points. This can lead to irreversible injury or even death.
  ⇒ Use PPE!

(Section "Fig. A2.01" on page 14)

Disassembly of the Guardrail Post MXK (**3**) takes place from the Bracket System MXK.

Components:

- **3** Guardrail Post MXK
- **3.1** Securing Hook
- **5** Compensation Deck MXK / MXK short
- **5.3** Transition plate
- **15** Inside Corner Post Holder MXK
- **24** Coup. Load Hook KHSW 13

Disassembly

1. Press down securing hook (**3.1**) and simultaneously pull the Guardrail Post MXK (**3**) out of the Inside Corner Guardrail Holder MXK (**15**).

(Fig. A16.02 – Fig. A16.02b)

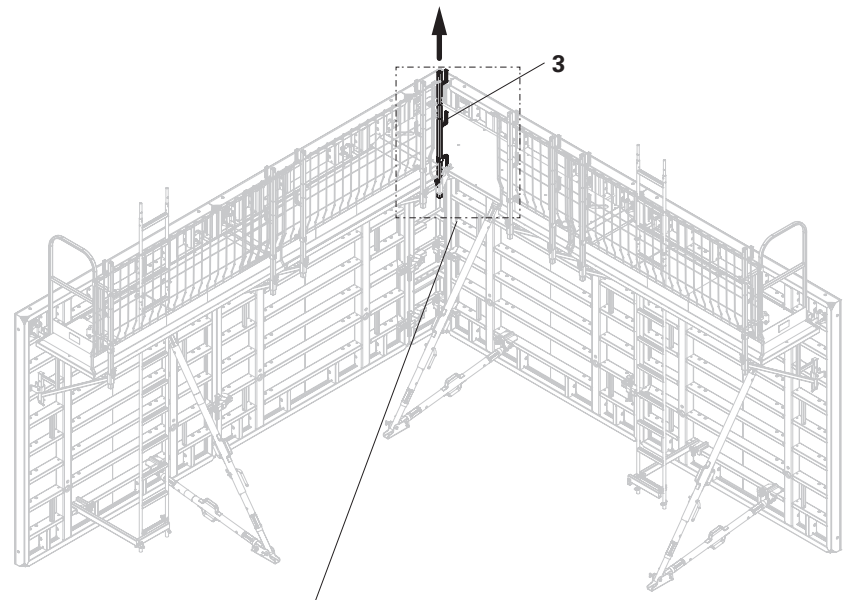


Fig. A16.02

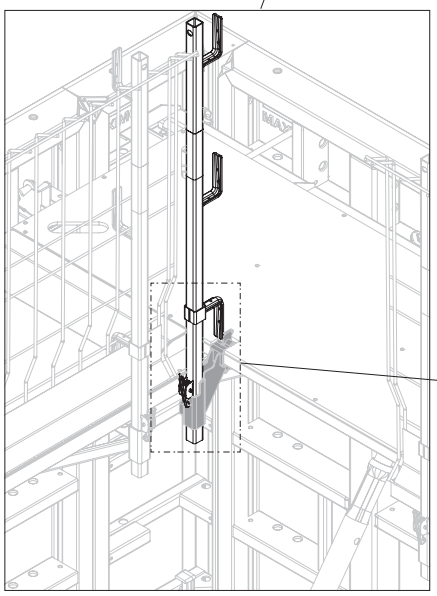


Fig. A16.02a

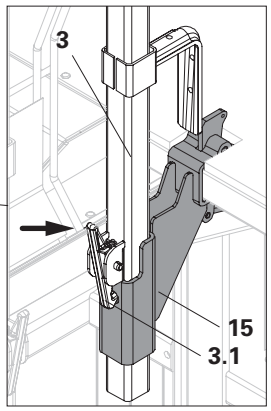


Fig. A16.02b

Compensation Deck MXK / MXK short

Warning

- Risk of falling due to exposed fall points. This can lead to irreversible injury or even death.
  ⇒ Use PPE!

(Section "Fig. A2.01" on page 14)

Disassembly of the Compensation Deck MXK / MXK short (**5**) takes place from the Bracket System MXK.

Disassembly

1. Attach the Compensation Deck MXK / MXK short (**5**) to the load-bearing points of the Compensation Deck MXK / MXK short (**5**) using two-sling lifting gear and load hooks (**24**) and carefully remove from the Bracket System MXK.

(Fig. A16.03 + Fig. A16.03a)

2. Carefully place the Compensation Deck MXK / MXK short (**5**) on squared timbers or a Euro pallet.
3. If installed, remove the Lift Lock MXK from the square recesses of the Compensation Deck MXK / MXK short (**5**).
4. Remove the Inside Corner Post Holder MXK (**15**).

(Fig. A16.04)

5. Re-install the transition plate (**5.3**) on the front side, see Section "A12 Assembly of Inside Corner MXK" on page 55.

(Fig. A16.05)

6. Set the Compensation Deck MXK / MXK short (**5**) down as described in Section "A1 Storage and transportation" on page 13.
7. Briefly secure the Compensation Deck MXK / MXK short (**5**) to prevent it from slipping and toppling.

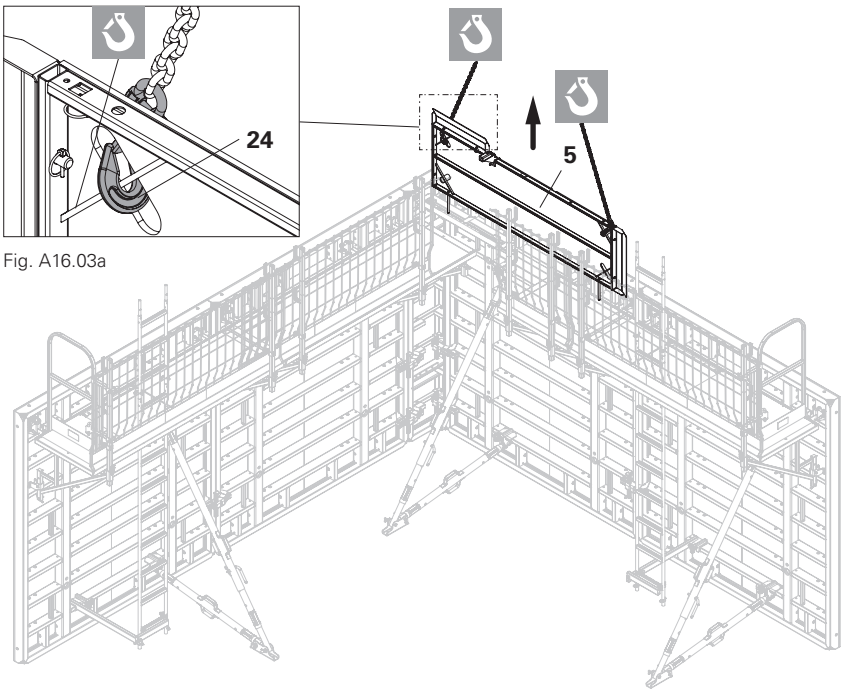


Fig. A16.03a

Fig. A16.03

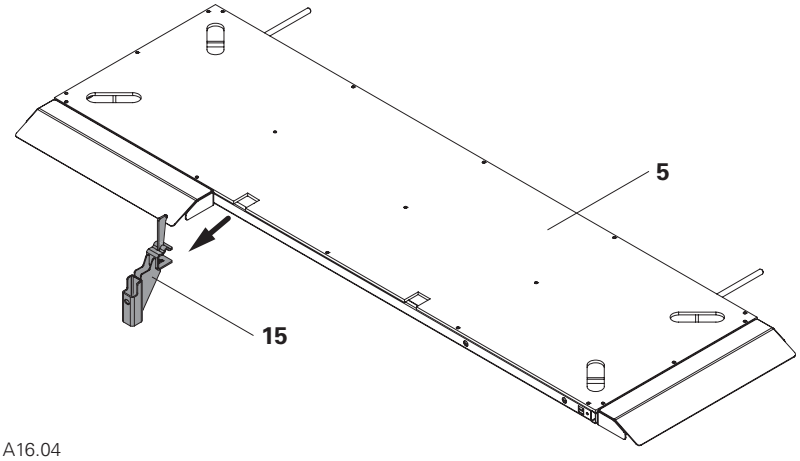


Fig. A16.04

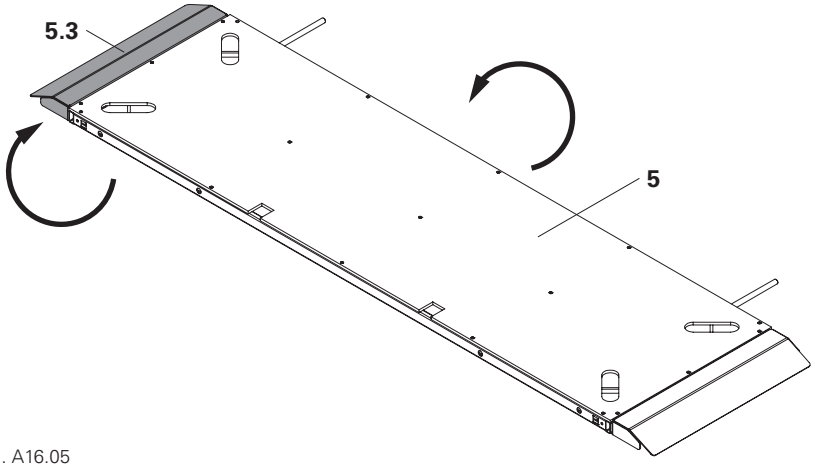


Fig. A16.05

90° corner with Inside Corner MXI15 270x50/20

Fit Scaffold Bracket MXK according to the panel widths.
Close open areas with Compensation Deck MXK / MXK short (**5**). Close railing gaps with the lateral protection barriers.
(Fig. A16.06 + Fig. A16.07)
(Fig. A16.07a without Scaffold Bracket MXK)

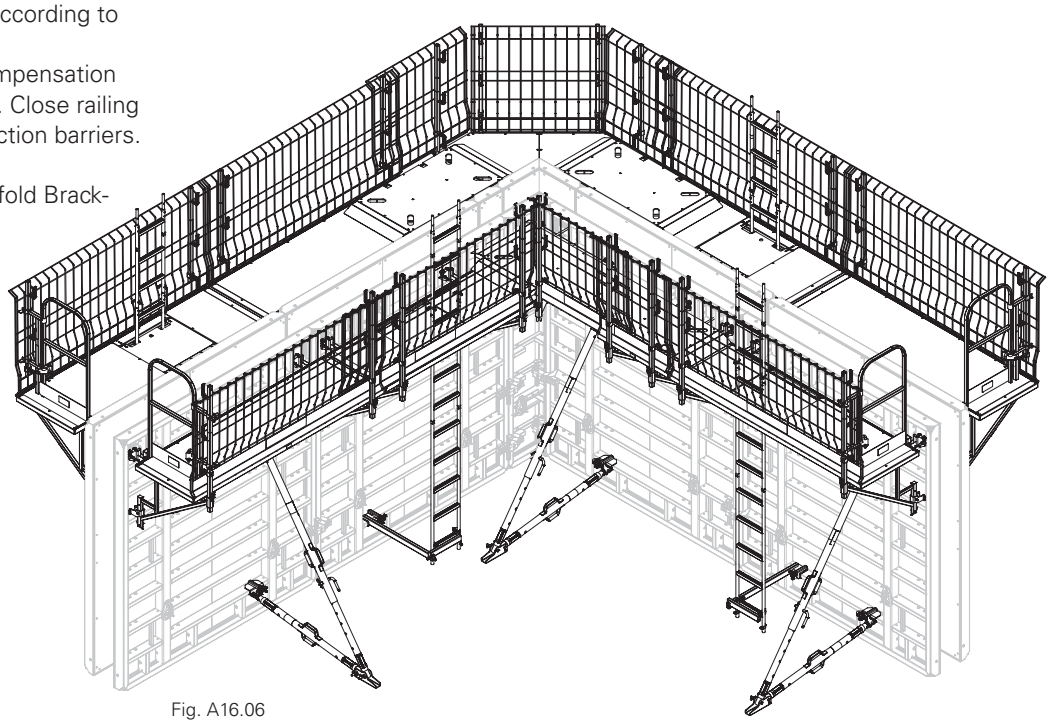


Fig. A16.06

Ensure that the Compensation Decks MXK (**5**) are positioned and assembled correctly.
(Fig. A16.07)

In general, the Bracket System MXK is only required on one side for concreting; on the opposite side, the Opposite Guardrail Holder MX serves as fall protection.
For intermediate platforms, the bracket system may be required on one or both sides, depending on whether it is anchored on one or both sides.

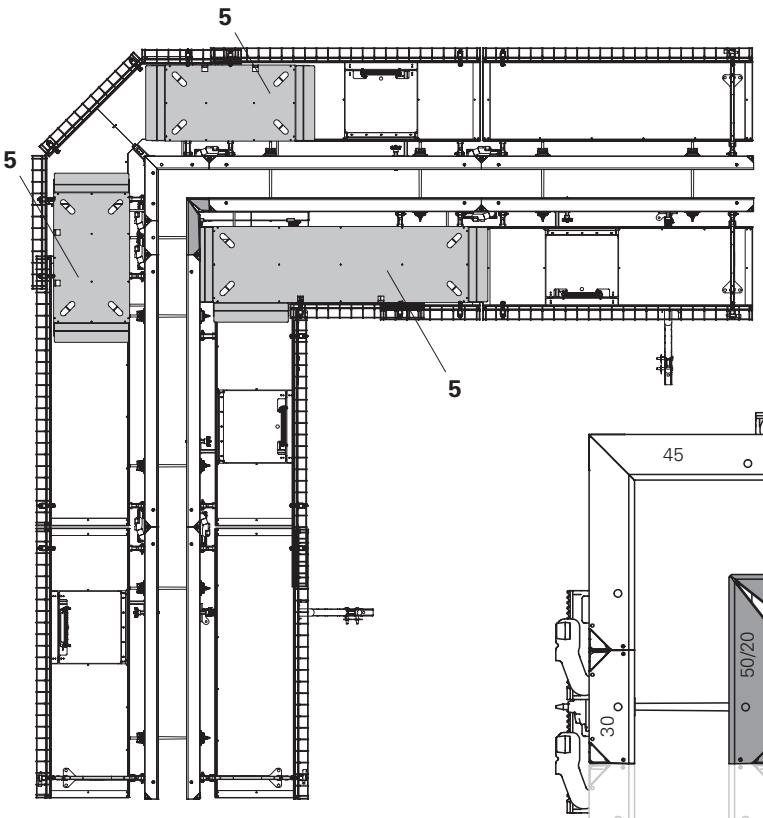


Fig. A16.07

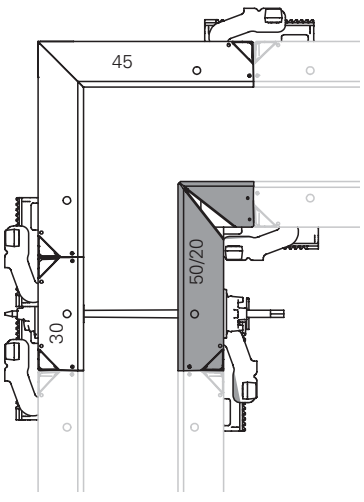


Fig. A16.07a

90° corner with Inside Corner MXI15 270x60

Fit Scaffold Bracket MXK according to the panel widths. Close open areas with Compensation Deck MXK / MXK short (**5**).
Close railing gaps with the lateral protection barriers.
(Fig. A17.01 + Fig. A17.02)
(Fig. A17.02a without Scaffold Bracket MXK)

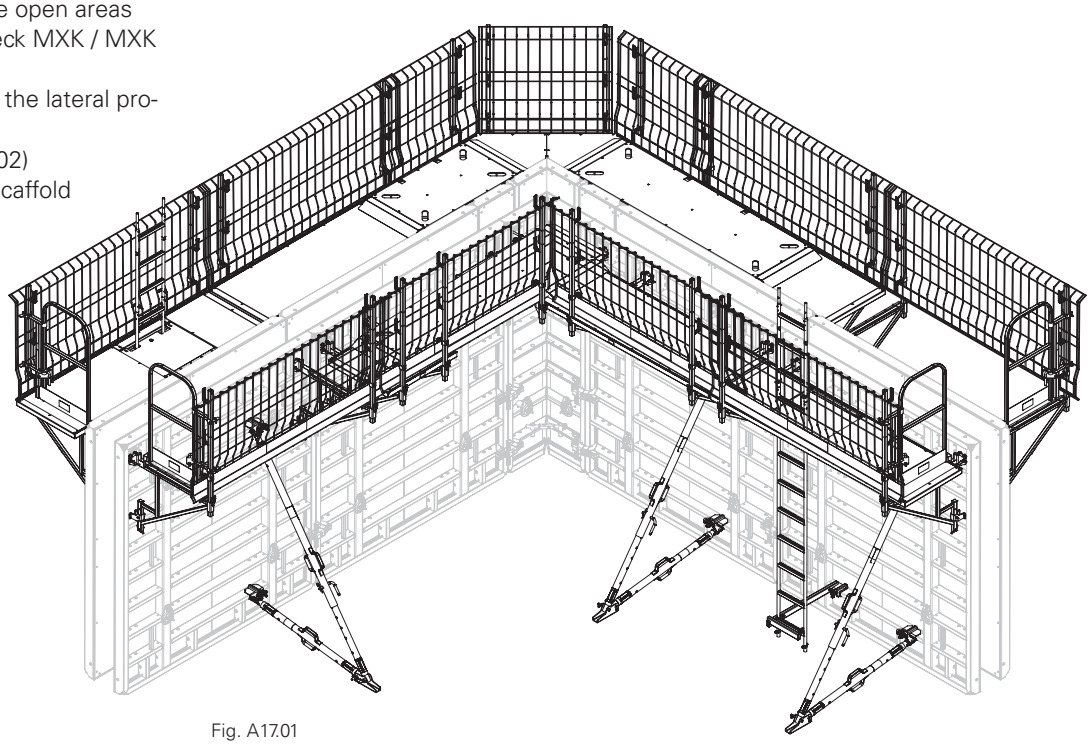


Fig. A17.01

Ensure that the Compensation Decks MXK (**5**) are positioned and assembled correctly.
(Fig. A17.02)

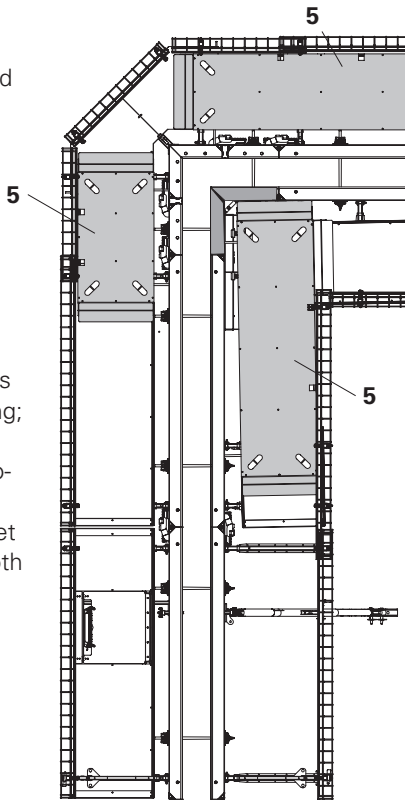


Fig. A17.02

In general, the Bracket System MXK is only required on one side for concreting; on the opposite side, the Opposite Guardrail Holder MX serves as fall protection.
For intermediate platforms, the bracket system may be required on one or both sides, depending on whether it is anchored on one or both sides.

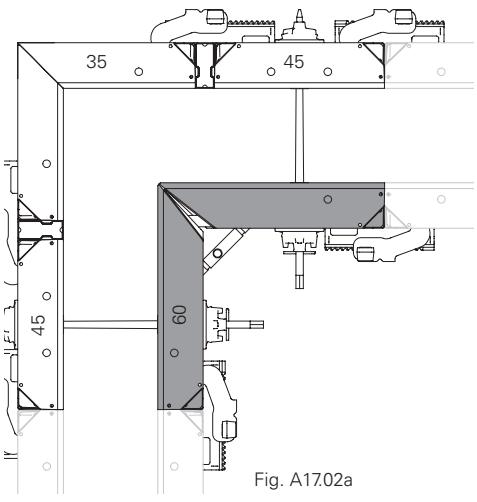


Fig. A17.02a

B1 Assembly and disassembly of extension variants

Assembly and erection of stacked wall elements

Warning

- The formwork structure can topple over and cause serious irreversible injury or even death.
  ⇒ Secure the formwork structure to prevent it from toppling.
  ⇒ Do not remove the lifting hook until the push-pull props have been anchored.
- Risk of falling due to exposed fall points. This can lead to irreversible injury or even death.
  ⇒ Use PPE!

- Follow the instructions for use for the Lifting Hook MX 1.5t.

Components:

1	Scaffold Bracket MXK / MXK-RS
2	Scaffold Deck MXK
3	Guardrail Post MXK
4	Side mesh barrier
7	Stopend Rail MXK
8	Push-Pull Prop RS / RSS
9	Ladder MXP 270
10	Ladder Connector MXK
11	MAXIMO panel
20	Lifting Hook MX 1.5t
24	Coup. Load Hook KHSW 13
25	Alignment Coupler BFD
26	Compensation Waler-3 MAR 85

Preparatory work on the formwork elements while they lying on the ground:

1. On squared timbers at floor level, prepare the MAXIMO panels for the required height.

(Fig. B1.02)

2. Connect MAXIMO panels (**11**) with Alignment Couplers BFD (**25**).
3. Install Scaffold Brackets MXK / MXK-RS (**1**).

Example:
Extension variant MXK RS – base height 270, total height 600 cm

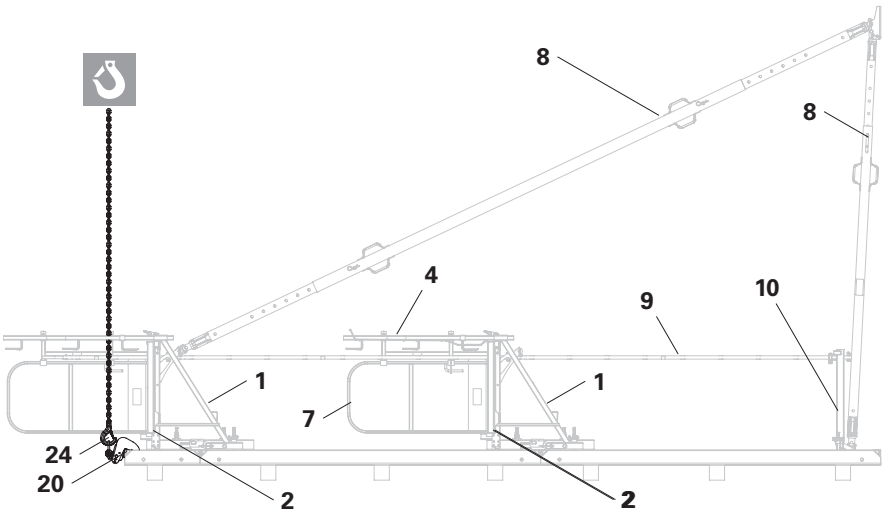


Fig. B1.01

Example:
Extension variant MXK RS – base height 270, total height 600 cm

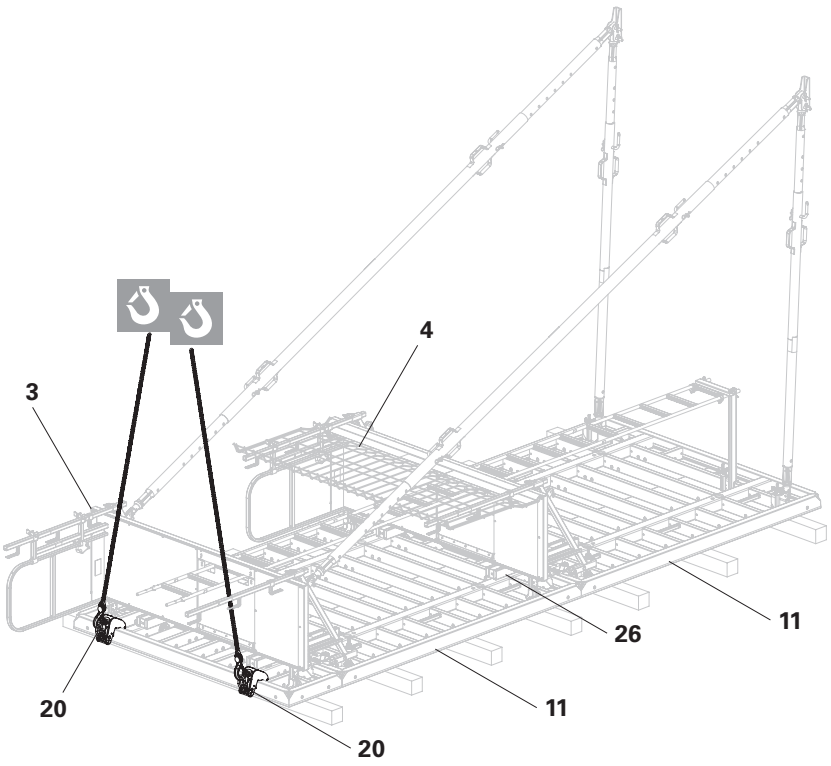


Fig. B1.02

B1 Assembly and disassembly of extension variants

4. For reinforcement, attach Compensation Waler-3 MAR 85 (**26**) between the MAXIMO panels (**11**), if necessary.
5. Install scaffold decks (**2**).
6. Fit Guardrail Post MXK (**3**).
7. Hook in the lateral protection barrier (**4**) (due to erection with a crane chain, leave out the top level for the time being).
   → Risk of damage!
8. Attach Stopend Rails MXK (**7**) if there are end elements.
9. Attach Push-Pull Props RS / RSS (**8**) to Scaffold Bracket MXK-RS (**1**).
10. Attach Push-Pull Props RS / RSS (**8**) to the bottom of the panel struts.
11. Fit the Ladder Connector MXK (**10**) and ladder (**9**).
12. Fit the MAXIMO Lifting Hook (**20**) and load hook (**24**).

(Fig. B1.02)

- Are the MAXIMO lifting hooks (**20**) firmly in place?
- Are the Alignment Coupler BFD (**25**) and the Compensation Wal-ers-3 MAR 85 (**26**) secure?

Erection:

1. Use the crane to carefully lift and position the complete formwork unit.

(Fig. B1.03)

2. Fold out the Push-Pull Props RS / RSS (**8**) and fix them to the floor.
3. Connect the erected formwork unit to the adjacent formwork unit using Alignment Couplers BFD.
4. Hook in the upper lateral protection barrier (**4**).
   → Use PPE!
5. Do not remove the MAXIMO lifting hooks (**20**) and load hooks (**24**) until the Push-Pull Props RS / RSS (**8**) are firmly anchored.

(Fig. B1.03)

Example:
Extension variant MXK RS – base height 270, total height 600 cm

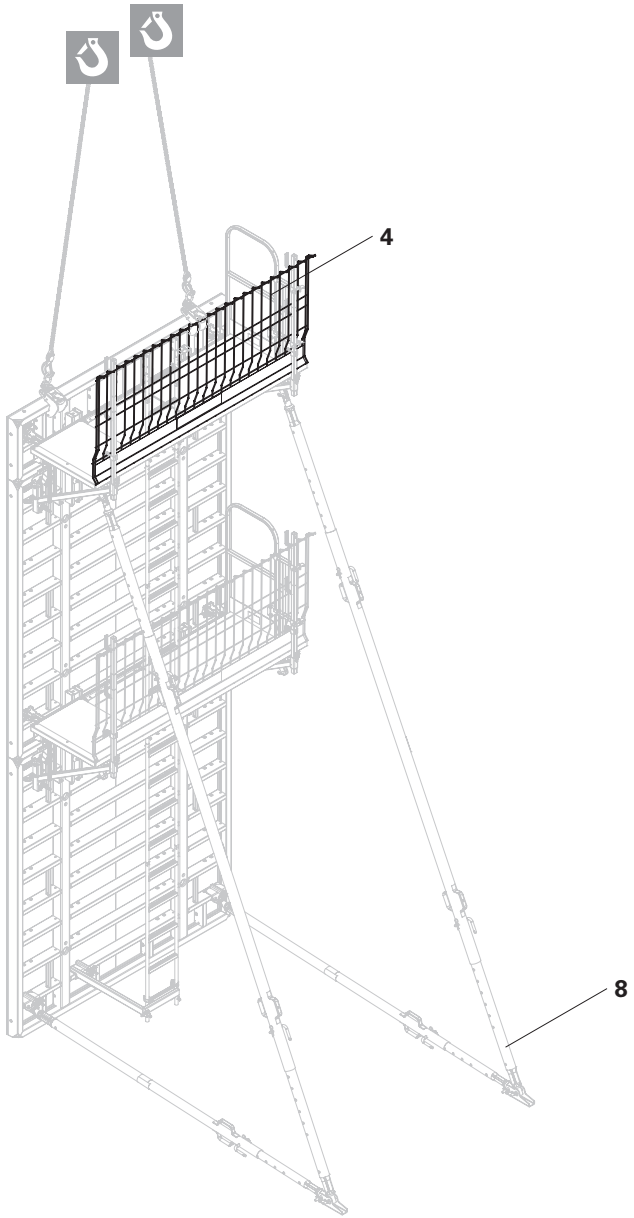


Fig. B1.03

Are the Push-Pull Props RS / RSS (**8**) firmly anchored to the floor?

B1 Assembly and disassembly of extension variants

Striking and dismantling stacked wall elements

Warning

- Risk of falling due to exposed fall points. This can lead to irreversible injury or even death.
  ⇒ Use PPE!

(Section "Fig. A2.01" on page 14)

- Use dedicated load-bearing points when transporting with the crane!
- Do not strike the formwork until instructed to do so by a competent person!
- Do not tear the formwork off the concrete!

Deshuttering

1. Remove the lateral protection barrier (**4**) and, if necessary, the end guardrail (**7**) of the uppermost deck level and place them on the ground using a crane.
   → Use PPE.
2. Fit the load hooks (**24**) and the lifting hooks (**20**) to the formwork unit.
3. Tighten the chain slings slightly with the crane.

(Fig. B1.04)

4. Remove ties if the extension variant is to be dismantled.
5. If the extension variant is to be dismantled, remove the Alignment Couplers BFD starting from the bottom.
6. Use the crane to lift and position the formwork unit.

(Fig. B1.04)

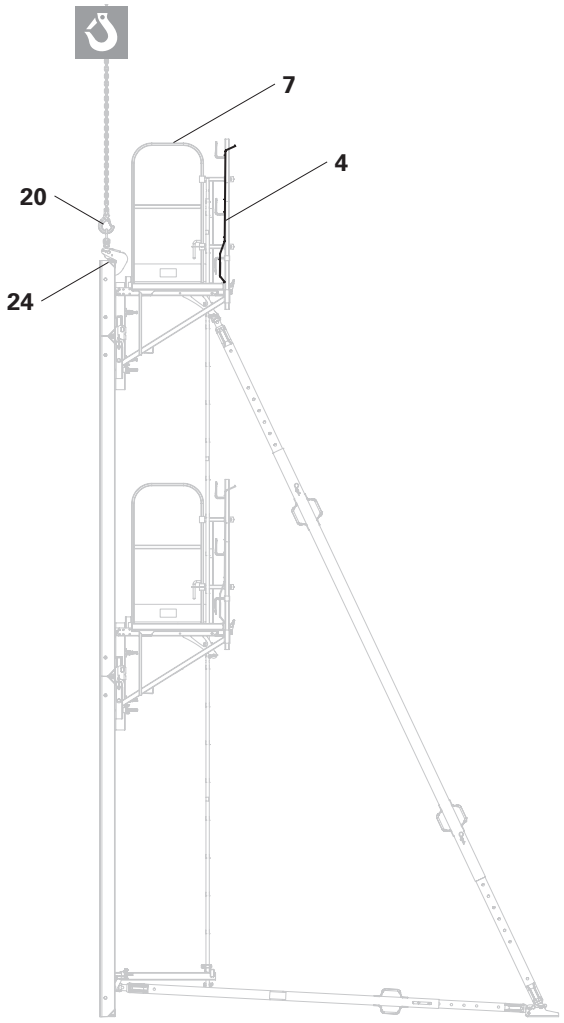


Fig. B1.04

Cleaning for further use (upright)

Clean the formlining:

- Position the formwork in front of a scaffold and continue to secure it with a crane or anchor it to the ground.
  → Cleaning can take place.
- After cleaning, the stacked formwork can be moved to the next place of use, set down or dismantled.

(Fig. B1.04)

B1 Assembly and disassembly of extension variants

Components:

1	Scaffold Bracket MXK / MXK-RS
2	Scaffold Deck MXK
3	Guardrail Post MXK
4	Side mesh barrier
7	Stopend Rail MXK
8	Push-Pull Prop RS / RSS
9	Ladder MXP 270
10	Ladder Connector MXK
11	MAXIMO panel
20	Lifting Hook MX 1.5t
24	Coup. Load Hook KHSW 13
25	Alignment Coupler BFD
26	Compensation Waler-3 MAR 85

Disassembly

1. After cleaning (in the upright position), carefully place the formwork unit on squared timbers using the crane, with the formlining downwards.

(Fig. B1.05)

2. Secure the formwork unit to prevent slipping.
3. Remove the lifting hook (**20**) and load hook (**24**).
4. Remove the push-pull props (**8**), ladder (**9**) and ladder connector (**10**).
5. Dismantle the lateral protection barriers (**4**), end guardrails (**7**), guardrail posts (**3**), scaffold decks (**2**) and scaffold brackets (**1**).
6. Dismantle Alignment Couplers BFD (**25**) and Compensation Waler-3 MAR 85 (**26**).

(Fig. B1.05)

7. Store components in crate pallets or pallets for transport.

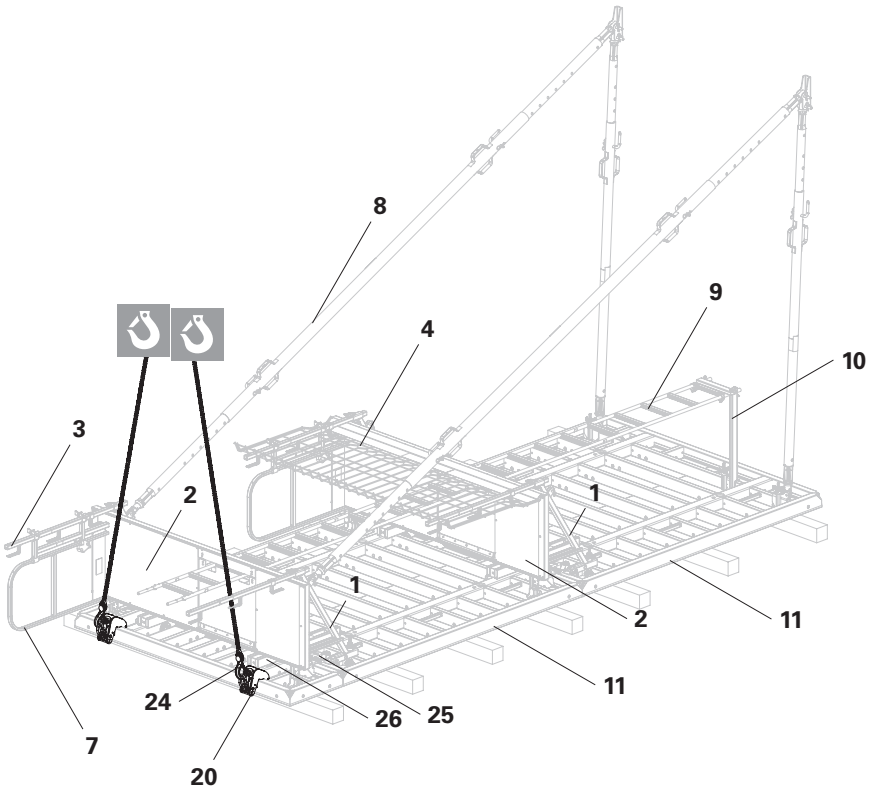


Fig. B1.05

Height extensions

- Due to the higher weight, height extensions with pre-assembled MXK platforms require additional connecting elements at the panel interfaces.
- To assist the user, the tables show extension variants together with the position of the platforms.
- The components with the highest weight were used to determine the weight.
- The suggested connection elements (BFD, MAR) are only applicable to the configuration described!
- If the weight is higher due to additionally installed components or other formlining, the connecting elements must be dimensioned.

Components:

25	Alignment Coupler BFD
26	Compensation Waler-3 MAR 85

- The load suspended from the kicker brace is a determining factor for the crane operator.
- The weights of the installed panels determine the load to be lifted.
- If connecting the MAXIMO panels with Alignment Couplers BFD is no longer sufficient, additional Compensation Walers-3 MAR 85 must be installed.

Arrangement of BFDs at an interface with 2 BFDs

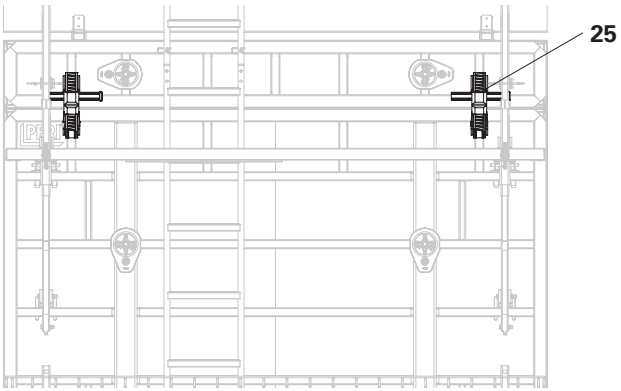


Fig. C1.01

Arrangement of BFDs at an interface with 4 BFDs

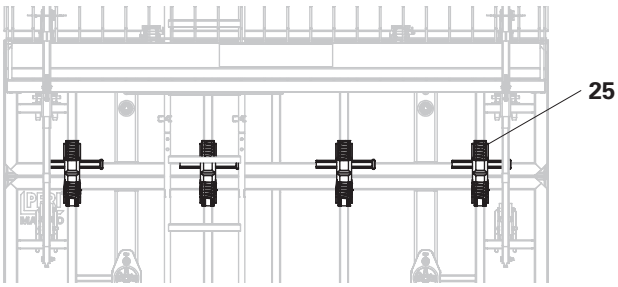


Fig. C1.02

Arrangement of BFD and MAR at an interface with 2 BFDs and 2 MARs

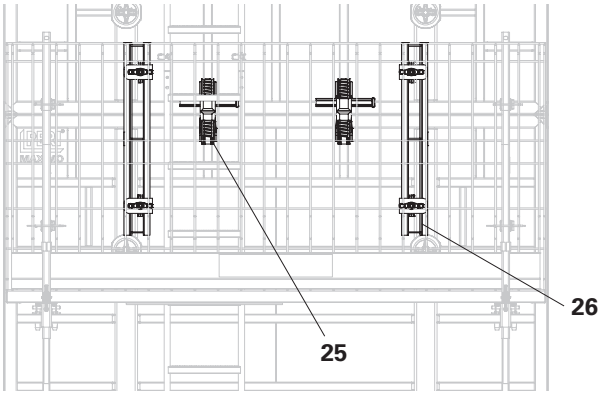


Fig. C1.03

Connecting elements for height extensions

Basic arrangement of the BFD + MAR connecting elements subject to requirements, as listed below.

Interfaces with
- 2 BFDs
(Fig. C1.01)
- 4 BFDs
(Fig. C1.02)
- 2 BFDs and 2 MARs
(Fig. C1.03)
- 4 BFDs and 2 MARs
(Fig. C1.04)
- 2 BFDs and 4 MARs
(Fig. C1.05)

Components:

25 Alignment Coupler BFD
26 Compensation Waler-3 MAR 85

Arrangement of BFD and MAR at an interface with 4 BFDs and 2 MARs

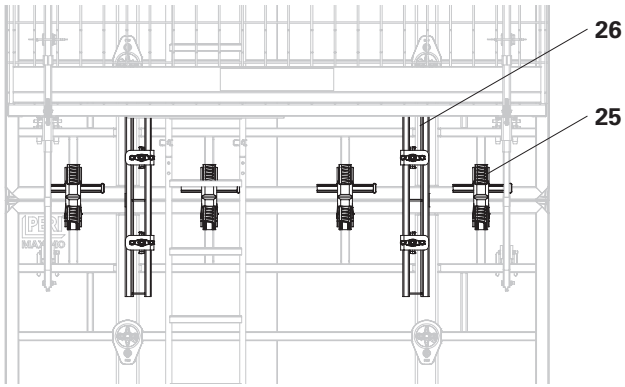


Fig. C1.04

Arrangement of BFD and MAR at an interface with 2 BFDs and 4 MARs

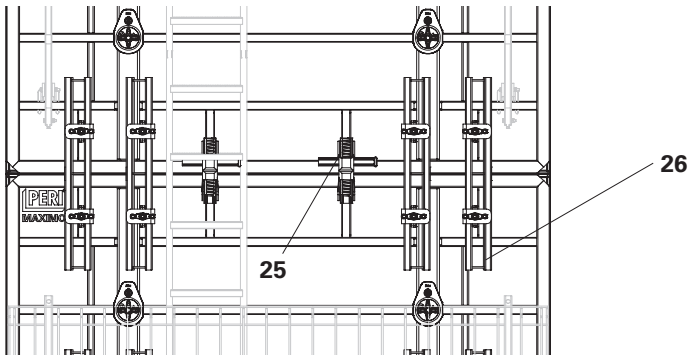


Fig. C1.05

C1 Extension variants MXK RS – base height 270

Height extension in case of 2 platform levels			Weight determination, base height 270								Weight [kg/piece]
			2 platform levels								
Total height H [cm]			**420**	**450**	**480**	**510**	**540**	**570**	**600**	**630**	
MAXIMO Panel 4 (top)			–	–	–	–	–	–	–	–	
Connector 3			–	–	–	–	–	–	–	–	
MAXIMO Panel 3			60	60	120	120	–	30	60	90	
Connector 2			4 BFD	4 BFD	4 BFD	4 BFD	–	2 BFD	4 BFD, 2 MAR	4 BFD, 2 MAR	
MAXIMO Panel 2			90	120	90	120	270	270	270	270	
Connector 1			4 BFD	4 BFD	2 BFD, 2 MAR	2 BFD, 2 MAR	4 BFD, 2 MAR	4 BFD, 2 MAR	4 BFD, 2 MAR	4 BFD, 2 MAR	
MAXIMO Panel 1 (bottom)			270	270	270	270	270	270	270	270	
Distance of: [cm]	**Platform 2 – 3**	C	–	–	–	–	–	–	–	–	
	Platform 1 – 2	B	210	270	240	180	210	210	270	270	
	Floor – Platform 1	A	182	152	212	302	302	302	302	302	
Parts list (based on panel width 240 cm)											
MAXIMO MX-2 Panel	270x240		1	1	1	1	2	2	2	2	358.0
	120x240		–	1	1	2	–	–	–	–	176.0
	90x240		1	–	1	–	–	–	–	1	132.0
	60x240		1	1	–	–	–	–	1	–	98.0
	30x240		–	–	–	–	–	1	–	–	61.0
Push-Pull Props RS	210		–	–	–	–	–	–	–	–	10.6
	260		–	–	–	–	–	–	–	–	12.2
	300		–	–	–	–	–	–	–	–	15.5
	450		2	2	–	–	–	–	–	–	23.0
	650		–	–	2	2	2	2	2	2	40.0
	1000		–	–	–	–	–	–	–	–	115.0
	1400		–	–	–	–	–	–	–	–	271.0
Kicker Brace RS	210		2	–	–	–	–	–	–	–	10.6
	300		–	2	2	–	–	–	–	–	15.5
	450		–	–	–	2	2	2	2	2	23.0
Base Plate for RS	210 – 1400		2	2	2	2	2	2	2	2	3.0
Ladder	90	G	2	–	–	1	1	1	1	1	4.9
	180	F	–	–	–	–	–	–	–	–	8.6
	270	E	1	2	2	2	2	2	2	2	12.2
Scaffold Bracket MXK			4	4	4	4	4	4	4	4	10.2
Guardrail Post MXK			4	4	4	4	4	4	4	4	4.9
Side Mesh Barrier-2 PMB S 240			2	2	2	2	2	2	2	2	14.3
Stopend Rail MXK			2	2	2	2	2	2	2	2	13.8
Scaffold Deck MXK	240		–	–	–	–	–	–	–	–	24.6
	240, steel		–	–	–	–	–	–	–	–	31.5
	240 with hatch		–	–	–	–	–	–	–	–	33.4
	240, steel with hatch		2	2	2	2	2	2	2	2	40.1
Ladder Connector MXK			1	1	1	1	1	1	1	1	7.2
Alignment Couplers BFD			8	6	6	6	4	6	8	8	4.6
Compensation Waler-3 MAR 85			–	2	2	2	2	2	4	4	14.1
Sum of the components			941	1017	1036	1149	1150	1220	1290	1331	

Tab. C1.01

C1 Extension variants MXK RS – base height 270

Example
H = 4.20 m

Push-Pull Prop RS 450, Kicker Brace RS 210, base plate for RS 210 – 1400, ladder 1 x 270, 2 x 90.
(Fig. C1.06 + Fig. C1.07)

Position of the Alignment Couplers BFD (**25**).

Components:

25	Alignment Coupler BFD

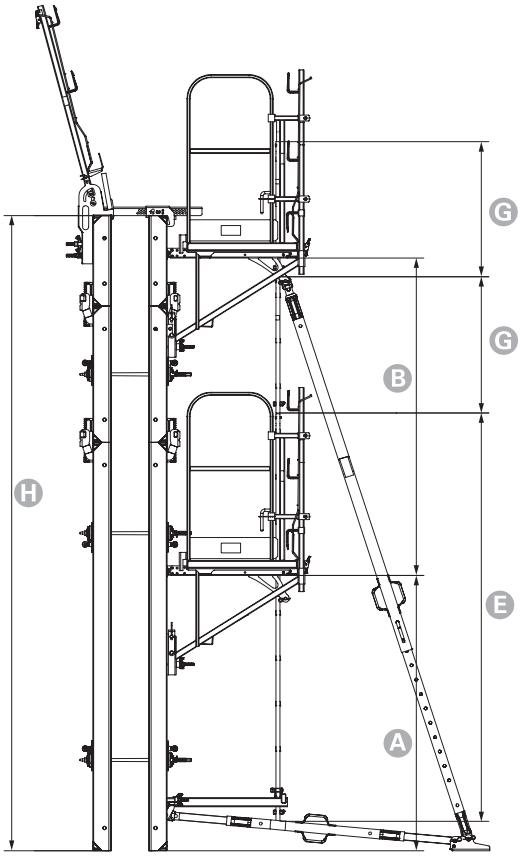


Fig. C1.06

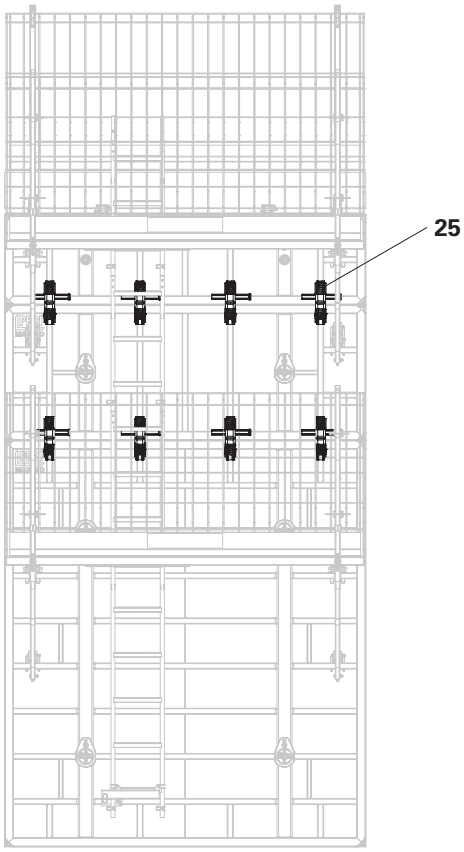


Fig. C1.07

C1 Extension variants MXK RS – base height 270

Example: Height extension in case of 3 platform levels			Weight determination, base height 270 3 platform levels						Weight [kg/piece]
Total height (H) [cm]			**660**	**690**	**720**	**750**	**780**	**810**	
MAXIMO Panel 4 (top)			–	60	60	90	120	–	
Connector 3			–	4 BFD	2 BFD, 2 MAR	2 BFD, 2 MAR	2 BFD, 4 MAR	–	
MAXIMO Panel 3			120	90	120	120	120	270	
Connector 2			2 BFD, 2 MAR	2 BFD, 2 MAR	2 BFD, 4 MAR	2 BFD, 4 MAR	2 BFD, 4 MAR	2 BFD, 4 MAR	
MAXIMO Panel 2			270	270	270	270	270	270	
Connector 1			2 BFD, 4 MAR	2 BFD, 4 MAR	2 BFD, 4 MAR	2 BFD, 4 MAR	2 BFD, 4 MAR	2 BFD, 4 MAR	
MAXIMO Panel 1 (bottom)			270	270	270	270	270	270	
Distance of: [cm]	**Platform 2 – 3**	(C)	240	210	240	240	270	210	
	Platform 1 – 2	(B)	240	240	240	240	270	270	
	Floor – Platform 1	(A)	152	212	212	212	212	302	
Parts list (based on panel width 240 cm)									
MAXIMO MX-2 Panel	270x240		2	2	2	2	2	3	358.0
	120x240		1	–	1	1	2	–	176.0
	90x240		–	1	–	1	–	–	132.0
	60x240		–	1	1	–	–	–	98.0
	30x240		–	–	–	–	–	–	61.0
Push-Pull Props RS	210		–	–	–	–	–	–	10.6
	260		–	–	–	–	–	–	12.2
	300		–	–	–	–	–	–	15.5
	450		–	–	–	–	–	–	23.0
	650		–	–	–	–	–	–	40.0
	1000		2	2	2	2	2	2	115.0
	1400		–	–	–	–	–	–	271.0
Kicker Brace RS	210		–	–	–	–	–	–	10.6
	300		–	–	–	–	–	–	15.5
	450		2	2	2	2	2	2	23.0
Base Plate for RS	210 – 1400		2	2	2	2	2	2	3.0
Ladder	90	(G)	2	2	–	–	–	1	4.9
	180	(F)	–	–	–	–	–	–	8.6
	270	(E)	2	2	3	3	3	3	12.2
Scaffold Bracket MXK			6	6	6	6	6	6	10.2
Guardrail Post MXK			6	6	6	6	6	6	4.9
Side Mesh Barrier-2 PMB S 240			3	3	3	3	3	3	14.3
Stopend Rail MXK			3	3	3	3	3	3	13.8
Scaffold Deck MXK	240		–	–	–	–	–	–	24.6
	240, steel		–	–	–	–	–	–	31.5
	240 with hatch		–	–	–	–	–	–	33.4
	240, steel with hatch		3	3	3	3	3	3	40.1
Ladder Connector MXK			1	1	1	1	1	1	7.2
Alignment Couplers BFD			4	8	6	6	6	4	4.6
Compensation Waler-3 MAR 85			6	6	12	12	12	8	14.1
Sum of the components			1309	1712	1858	1893	1912	1858	

Tab. C1.02

C1 Extension variants MXK RS – base height 270

Example
H = 6.90 m

Push-Pull Prop RS 1000, Kicker Brace RS 450, Base plate for RS 210 – 1400, ladder 2 x 270, 2 x 90.
(Fig. C1.08 + Fig. C1.09)

Position of the Alignment Couplers BFD (**25**) and the Compensation Walers-3 MAR 85 (**26**).

Components:

25	Alignment Coupler BFD
26	Compensation Waler-3 MAR 85

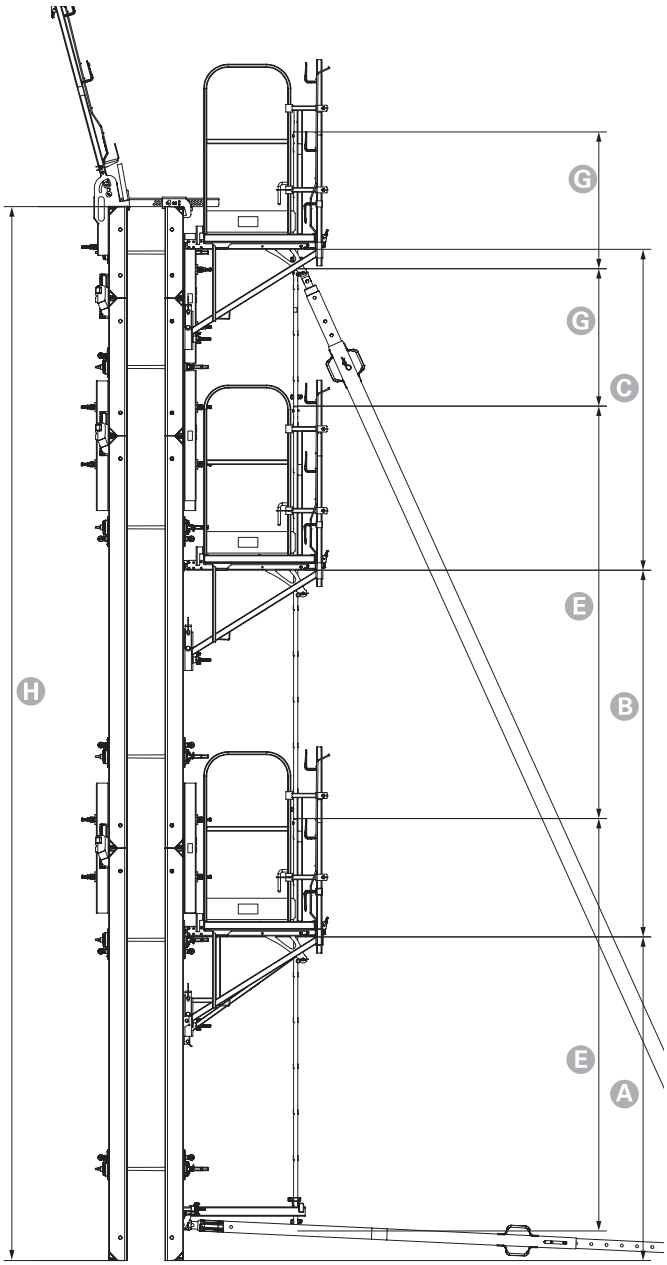


Fig. C1.08

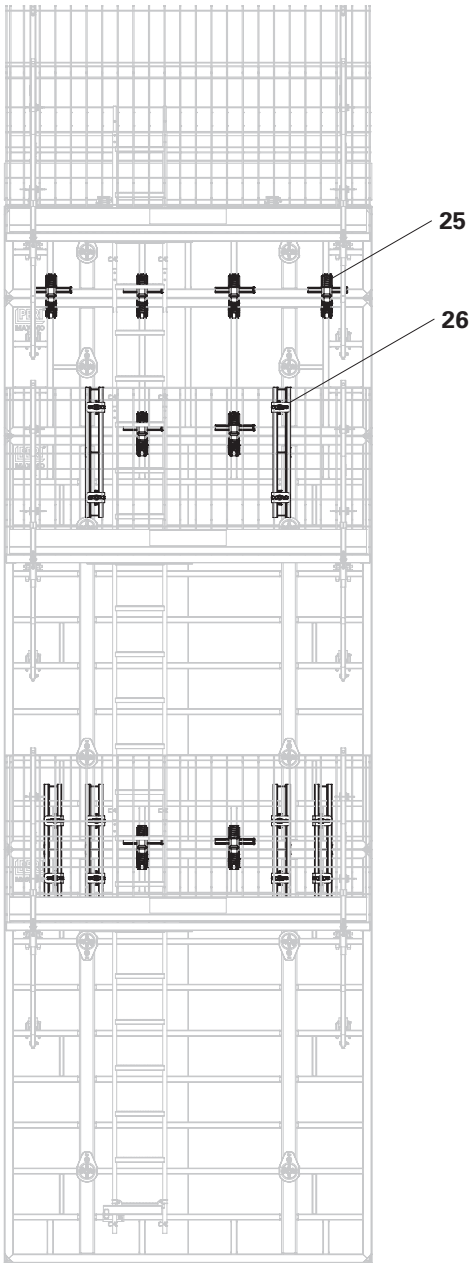


Fig. C1.09

C2 Permissible forces and influence widths of the push-pull props

Installation situation

For further information, see the "MAXIMO Bracket System MXK" instructions for assembly and use.

Installation options for the Scaffold Bracket MXK-RS
The Scaffold Bracket MXK-RS can be mounted on the MAXIMO or TRIO Panel Formwork as follows:
- Connection to horizontal panel struts. (Fig. C2.01)
- Connection to vertical panel struts. (Fig. C2.02)

Horizontal panel struts

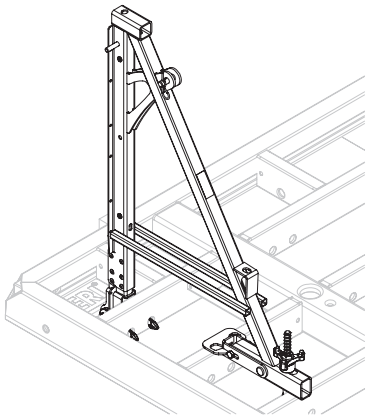


Fig. C2.01

Vertical panel struts

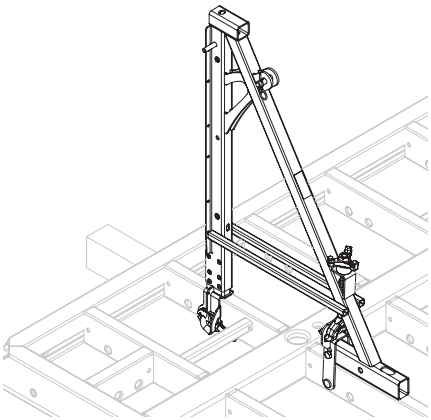


Fig. C2.02

Bracing of Scaffold Bracket MXK-RS when used with brace connector
If the Scaffold Bracket MXK-RS and brace connector are used, then the bracket must be reinforced with additional measures.

Additional measures are:
- Using "Scaffold Deck MXK". (Fig. C2.03)
- Using timber planks (secured with screws or wire nails) plus an additional screwed diagonal brace, see arrow. (Fig. C2.04)

Using "Scaffold Deck MXK" (various sizes)

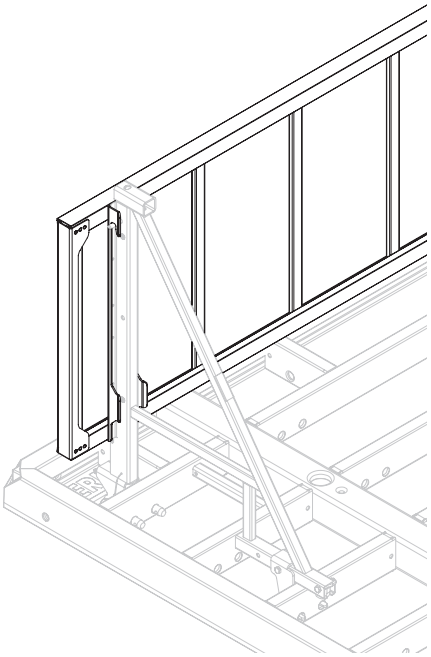


Fig. C2.03

Using timber planks (secured with screws or wire nails) plus an additional screwed diagonal brace (see arrow).

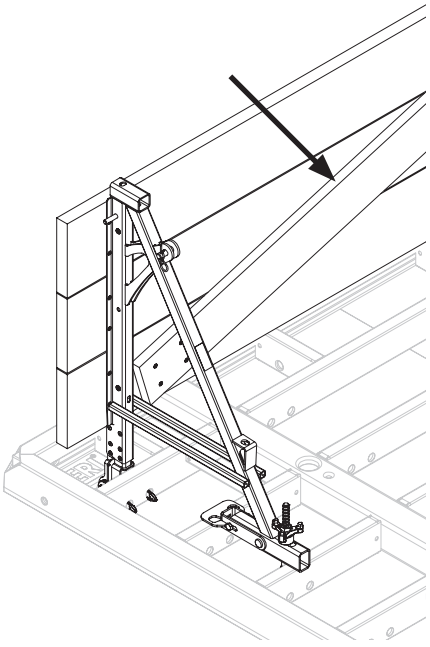


Fig. C2.04

C2 Permissible forces and influence widths of the push-pull props

Connecting push-pull props

- Push-pull props are connected to the anchoring point (push-pull prop holder, see arrow) on the Scaffold Bracket MXK-RS.
- Observe the resulting angle of attack α.
  → The resulting angle of attack α push-pull props – horizontal brace $\alpha = 60° – 70°$.

(Fig. C2.05)

Components:

1	Scaffold Bracket MXK RS
8	Push-Pull Prop RS / RSS

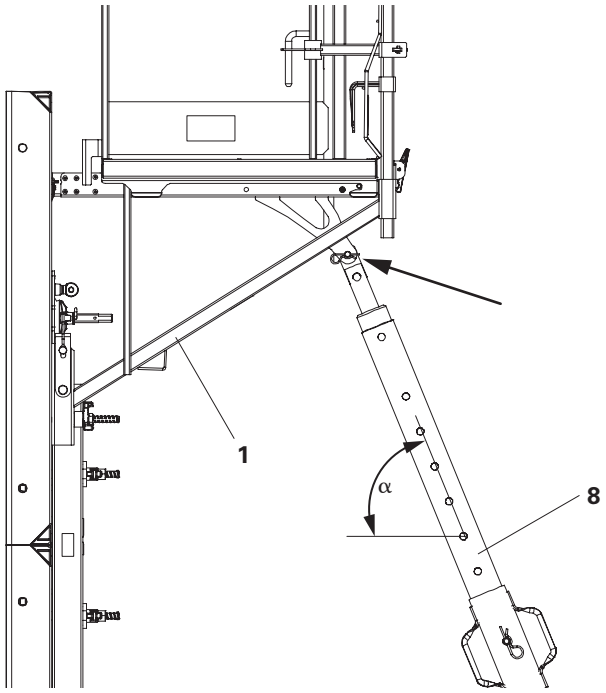


Fig. C2.05

Application requirements

- The Scaffold Bracket MXK-RS is to be used in combination with a MAXIMO or TRIO formwork system.
- The push-pull prop (**8**) must be installed perpendicular to the formwork ($\beta = \pm 5°$).

(Fig. C2.06 + Fig. C2.06a).

- Only in combination with Scaffold Deck MXK or nailed/screwed wooden planks with a horizontal stiffness greater than 10.0 mm/kN and a horizontal load-bearing capacity greater than 1.14 kN.

(Tab. C2.03 + Tab. C2.04)

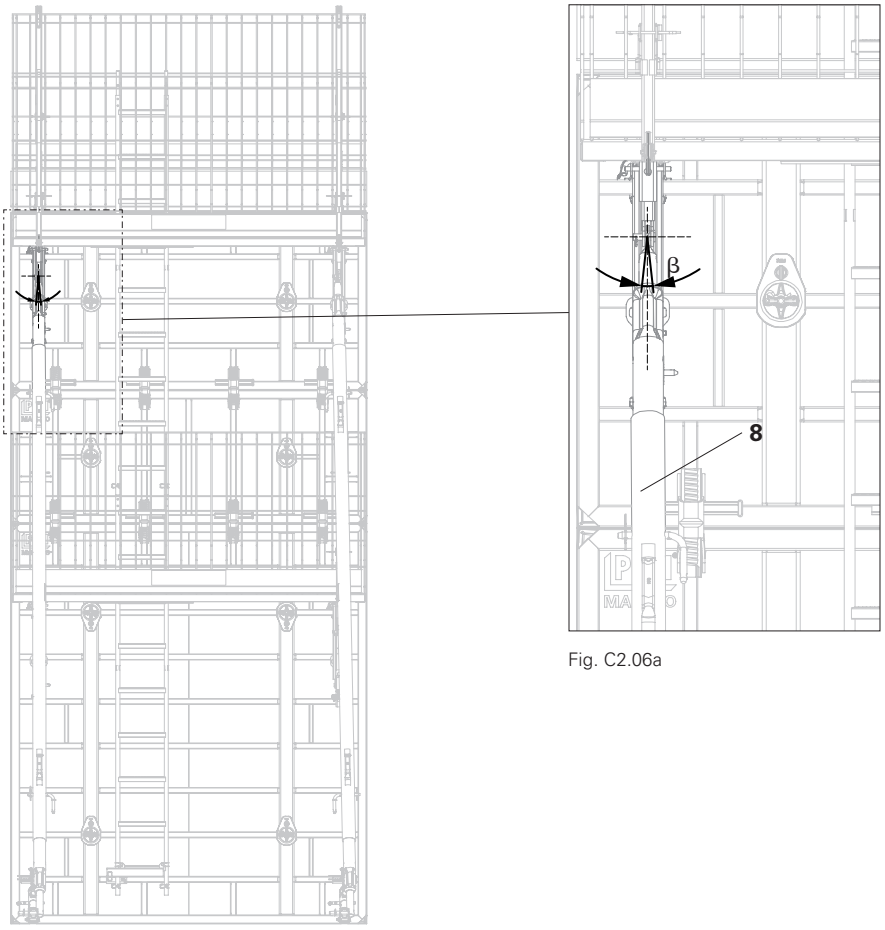


Fig. C2.06a

Fig. C2.06

C2 Permissible forces and influence widths of the push-pull props

Calculation of the load-bearing capacity for Scaffold Brackets MXK-RS

The load-bearing capacity depends on whether the connection is made to a horizontal or vertical panel strut. (Tab. C2.01 + Tab. C2.02)

Connection to horizontal panel struts			
Res. angle of attack, α [°]	60	65	70
Tension force, $N_{Z,Rd}$ [kN]	15.30	15.45	15.68
Compressive force, $N_{D,\,Rd}$ [kN]	13.95	13.95	13.59

Tab. C2.01

Connection to vertical panel struts			
Res. angle of attack, α [°]	60	65	70
Tension force, $N_{Z,Rd}$ [kN]	12.90	12.66	12.50
Compressive force, $N_{D,\,Rd}$ [kN]	10.65	10.05	9.60

Tab. C2.02

C2 Permissible forces and influence widths of the push-pull props

Influence widths for push-pull props and kicker braces

Assumptions for the calculation:
- Wind loads according to DIN EN 1991-1-4
  $w = q(z) \times c_p \times k$ [kN/m²]
- Wind Zone 2, Terrain Category III
- Applied pressure coefficient $c_p = 1.8$ (see graphic)

(Fig. C2.07)
- Formwork in vertical position on ground
- Exposure time factor k = 0.6
- q(z) = peak velocity pressure
- The resulting angle of attack α of the push-pull props relative to the horizontal is 60° - 70° (see table)

(Tab. C2.01 + Tab. C2.02) and
(Tab. C2.03 – Tab. C2.06)
- Values are characteristic values

(Fig. C2.07 + Fig. C2.08)

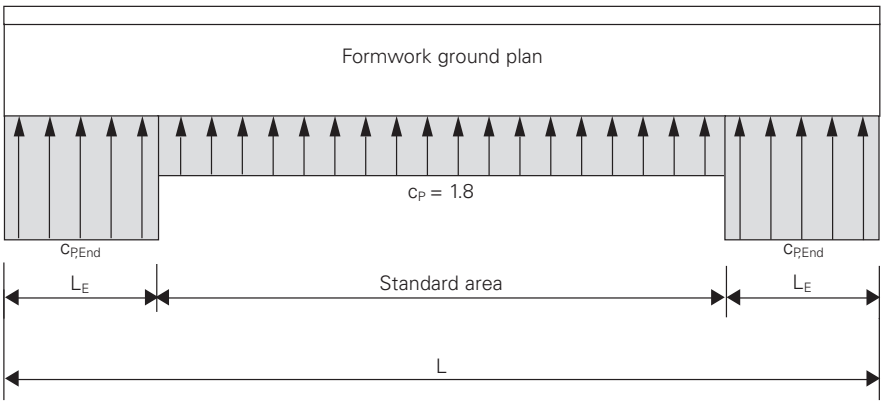


Fig. C2.07

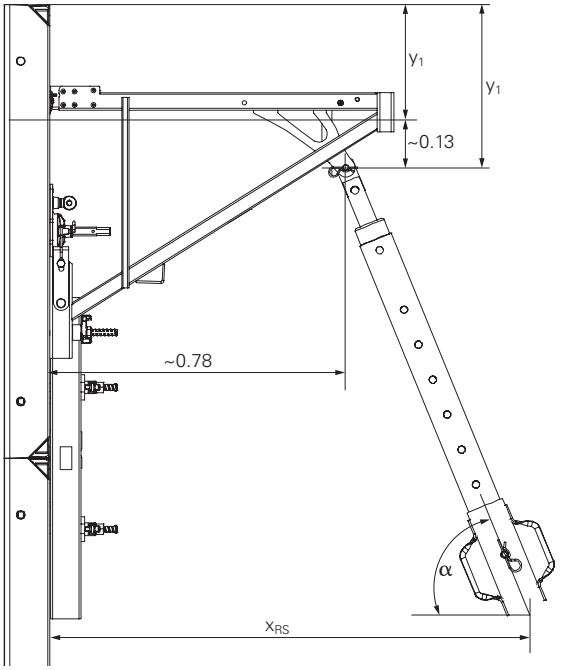


Fig. C2.08

C2 Permissible forces and influence widths of the push-pull props

Connection to horizontal panel struts

with 60° inclined push-pull props		Formwork height h [m] "upright panels"							
		3.00	4.00	5.00	6.00	6.00	7.00	8.00	8.00
Permissible influence width [m]	WI_{ref}	**4.92**	**3.72**	**2.98**	**2.48**	**1.96**	**1.75**	**1.5**	**1.3**
Actual push-pull prop load [kN]	F_{RS1}	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
Actual kicker brace load [kN]	F_{AV}	5.81	5.57	5.4	5.28	3.2	3.4	3.6	2.5
Base plate: Resulting force [kN]	**(1)**	14.03	13.64	13.38	13.19	11.6	11.8	11.8	11.0
Base plate: Resulting angle of attack [°]	**(1)**	43.04	42.19	41.76	41.52	47.8	46.6	45.8	49.8
Lifting force V_{Wind} [kN/m]	-	1.6	2.2	2.8	3.4	4.1	4.7	5.5	6.3
Distance from base plate to rear edge of formwork [m]	x_{RS}	≤ 1.7	≤ 2.2	≤ 2.7	≤ 3.2	≤ 2.6	≤ 3.1	≤ 3.6	≤ 3.1
Position of Scaffold Bracket MXK-RS measured from top of formwork [m]	y_1	≤ 1.2				≤ 2.4			≤ 3.3
Connection point of push-pull prop measured from top of formwork [mm]	y_{RS}	y1 + 0.131 m							
$q(z=h) = q_h$ [kN/m²]	-	0.59	0.59	0.59	0.59	0.59	0.59	0.61	0.61

Tab. C2.03

with 70 ° inclined push-pull props		Formwork height h [m] "upright panels"							
		3.00	4.00	5.00	6.00	6.00	7.00	8.00	8.00
Permissible influence width [m]	WI_{ref}	**4.63**	**3.22**	**2.45**	**1.98**	**1.57**	**1.35**	**1.14**	**1.0**
Actual push-pull prop load [kN]	F_{RS1}	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
Actual kicker brace load [kN]	F_{AV}	6.9	5.8	5.2	4.9	3.2	3.2	3.2	2.4
Base plate: Resulting force [kN]	**(1)**	14.4	13.3	12.6	12.3	11.2	11.0	11.0	10.5
Base plate: Resulting angle of attack [°]	**(1)**	47.8	48.7	49.5	50.0	56.0	55.6	55.3	58.5
Lifting force V_{Wind} [kN/m]	-	1.9	2.8	3.6	4.5	5.4	6.1	7.3	8.2
Distance from base plate to rear edge of formwork [m]	x_{RS}	≤ 1.4	≤ 1.7	≤ 2.1	≤ 2.4	≤ 2.0	≤ 2.4	≤ 2.7	≤ 2.4
Position of Scaffold Bracket MXK-RS measured from top of formwork [m]	y_1	≤ 1.2				≤ 2.4			≤ 3.3
Connection point of push-pull prop measured from top of formwork [mm]	y_{RS}	y1 + 0.131 m							
$q(z=h) = q_h$ [kN/m²]	-	0.59	0.59	0.59	0.59	0.59	0.59	0.61	0.61

Tab. C2.04

C2 Permissible forces and influence widths of the push-pull props

Connection to vertical panel struts

with 60° inclined push-pull props		Formwork height h [m] "horizontal panels"							
		3.00	4.00	5.00	6.00	6.00	7.00	8.00	8.00
Permissible influence width [m]	**WI_{ref}**	**3.76**	**2.84**	**2.28**	**1.9**	**1.5**	**1.33**	**1.15**	**0.99**
Actual push-pull prop load [kN]	**F_{RS1}**	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
Actual kicker brace load [kN]	**F_{AV}**	4.4	4.3	4.1	4.0	2.4	2.6	2.8	1.9
Base plate: Resulting force [kN]	**(1)**	10.7	10.4	10.2	10.1	8.9	8.9	9.0	8.4
Base plate: Resulting angle of attack [°]	**(1)**	43	42.2	41.8	41.5	47.8	46.6	45.8	49.8
Lifting force V_{Wind} [kN/m]	**-**	1.6	2.2	2.8	3.4	4.1	4.7	5.5	6.3
Distance from base plate to rear edge of formwork [m]	**x_{RS}**	≤ 1.7	≤ 2.2	≤ 2.7	≤ 3.2	≤ 2.6	≤ 3.1	≤ 3.6	≤ 3.1
Position of Scaffold Bracket MXK-RS measured from top of formwork [m]	**y_1**	≤ 1.2				≤ 2.4			≤ 3.3
Connection point of push-pull prop measured from top of formwork [mm]	**y_{RS}**	y1 + 0.131 m							
$q(z=h) = q_h$ [kN/m²]	**-**	0.59	0.59	0.59	0.59	0.59	0.59	0.61	0.61

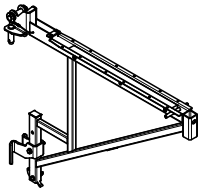
Tab. C2.05

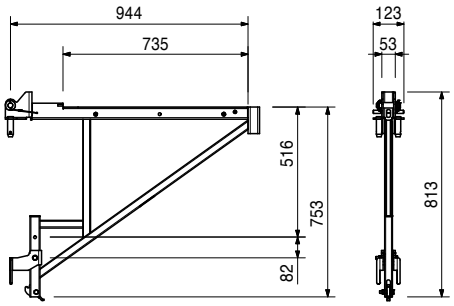
with 70° inclined push-pull props		Formwork height h [m] "horizontal panels"							
		3.00	4.00	5.00	6.00	6.00	7.00	8.00	8.00
Permissible influence width [m]	**WI_{ref}**	**3.1**	**2.18**	**1.67**	**1.35**	**1.11**	**0.96**	**0.81**	**0.71**
Actual push-pull prop load [kN]	**F_{RS1}**	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Actual kicker brace load [kN]	**F_{AV}**	4.5	3.9	3.5	3.3	2.3	2.3	2.3	1.7
Base plate: Resulting force [kN]	**(1)**	9.9	9.2	8.8	5.5	7.9	7.8	7.8	7.5
Base plate: Resulting angle of attack [°]	**(1)**	49.2	49.8	50.4	50.8	56.0	55.6	55.4	58.5
Lifting force V_{Wind} [kN/m]	**-**	1.9	2.8	3.6	4.5	5.4	6.1	7.3	8.2
Distance from base plate to rear edge of formwork [m]	**x_{RS}**	≤ 1.4	≤ 1.7	≤ 2.1	≤ 2.4	≤ 2.0	≤ 2.4	≤ 2.7	≤ 2.4
Position of Scaffold Bracket MXK-RS measured from top of formwork [m]	**y_1**	≤ 1.2				≤ 2.4			≤ 3.3
Connection point of push-pull prop measured from top of formwork [mm]	**y_{RS}**	y1 + 0.131 m							
$q(z=h) = q_h$ [kN/m²]	**-**	0.59	0.59	0.59	0.59	0.59	0.59	0.61	0.61

Tab. C2.06

Art no.	Weight [kg]	
126356	10.200	**Scaffold Bracket MXK**

For assembly of a working and concreting scaffold with MAXIMO and TRIO.



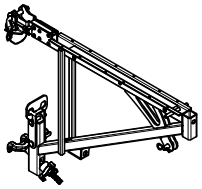


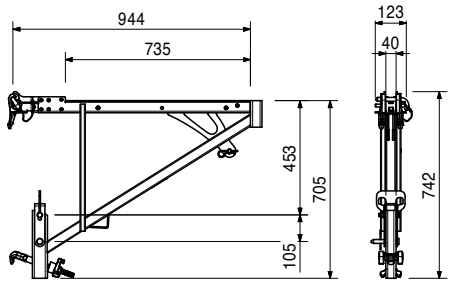
Accessory (not included)

126360 Guardrail Post MXK

Art no.	Weight [kg]	
126540	14.600	**Scaffold Bracket MXK RS**

For assembly of a working and concreting scaffold with MAXIMO and TRIO.



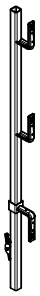


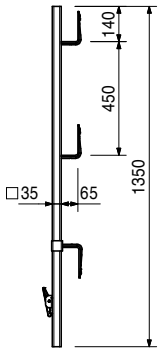
Accessory (not included)

126360 Guardrail Post MXK

Art no.	Weight [kg]	
126360	4.920	**Guardrail Post MXK**

As guardrail for MAXIMO and TRIO.

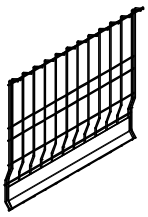


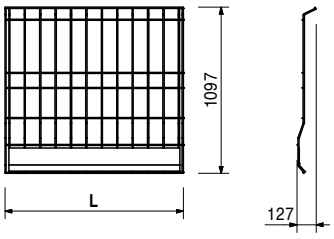


Art no.	Weight [kg]		L [mm]
		Side Mesh Barriers PMB	
426381	7.140	**Side Mesh Barrier PMB 90**	900
426376	9.260	**Side Mesh Barrier PMB 120**	1200
426371	17.700	**Side Mesh Barrier PMB 240**	2400
417326	19.700	**Side Mesh Barrier PMB 260**	2600

Notes

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

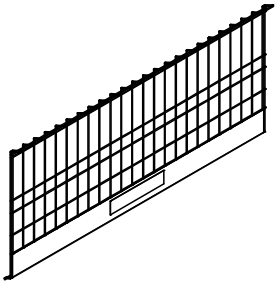


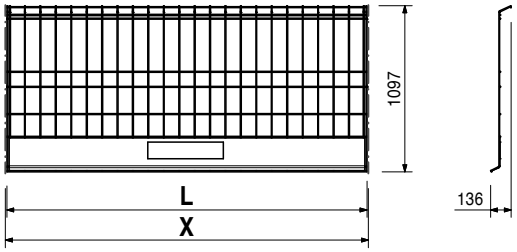


Art no.	Weight [kg]		L [mm]	X [mm]
		Side Mesh Barriers-2 PMB S		
033839	5.600	**Side Mesh Barrier-2 PMB S 90**	900	880
033840	7.400	**Side Mesh Barrier-2 PMB S 120**	1200	1180
033841	14.300	**Side Mesh Barrier-2 PMB S 240**	2400	2380
138084	16.060	**Side Mesh Barrier PMB S 260**	2600	2580

Notes

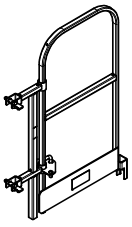
Maximum distance of posts with Side Mesh Barrier: PMB S 260 max. 2.40 m.

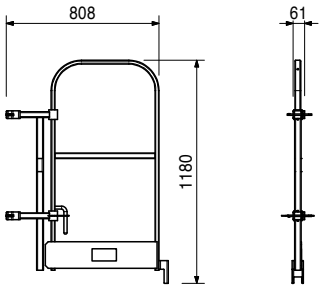




Art no.	Weight [kg]	
126357	13.800	**Stopend Rail MXK**

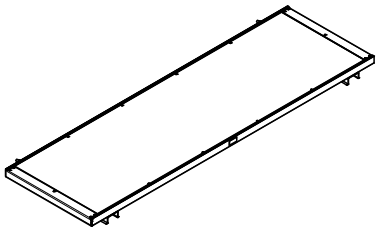
As end handrail for Bracket System MXK.

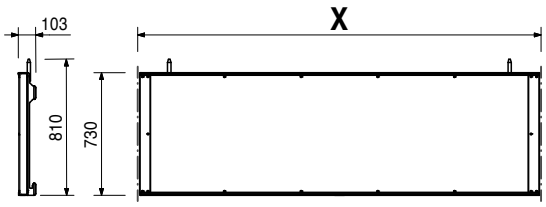




Art no.	Weight [kg]		X [mm]
		Scaffold Decks MXK	
126927	13.400	**Scaffold Decks MXK 90**	900
125693	15.400	**Scaffold Decks MXK 120**	1200
126463	24.600	**Scaffold Decks MXK 240**	2400

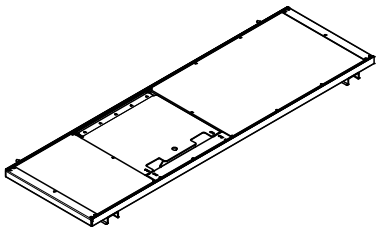
Scaffold Deck for Bracket System MXK.

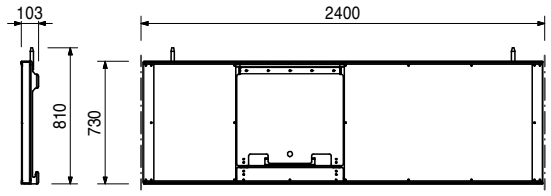




Art no.	Weight [kg]	
128740	33.300	**Scaffold Deck MXK 240 w. Hatch**

For assembly of a working and concreting scaffold including ladder with MAXIMO and TRIO.



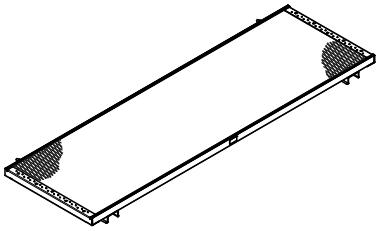


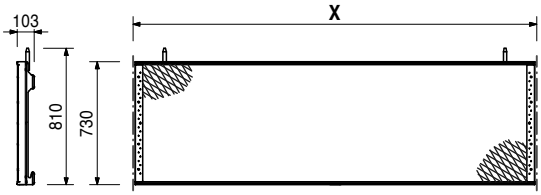
Accessory (not included)

114871	Ladder RFP-2 90
115915	Ladder MXP 270
128406	Ladder Connector MXK

Art no.	Weight [kg]		X [mm]
		Scaffold Decks ST MXK	
128312	16.000	**Scaffold Deck ST MXK 90**	900
128311	19.000	**Scaffold Deck ST MXK 120**	1200
128310	31.400	**Scaffold Deck ST MXK 240**	2400

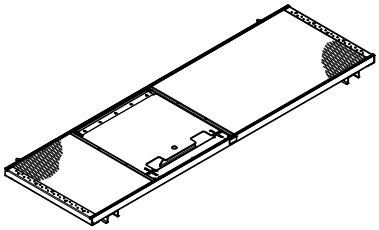
Scaffold Deck for Bracket System MXK.

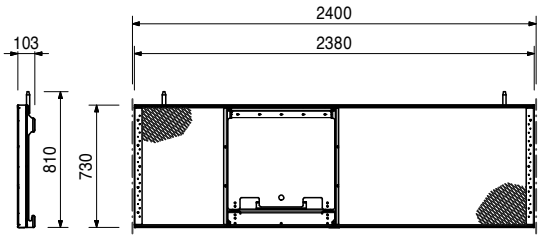




Art no.	Weight [kg]	
128812	40.000	**Scaffold Deck ST MXK 240 Hatch**

For assembly of a working and concreting scaffold including ladder with MAXIMO and TRIO.

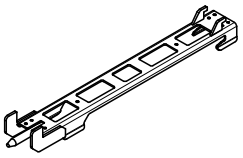


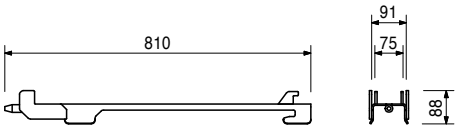


Accessory (not included)

114871	Ladder RFP-2 90
115915	Ladder MXP 270
128406	Ladder Connector MXK

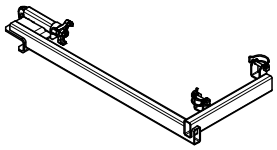
Art no.	Weight [kg]	
132980	3.070	**Adapter Covering Rail MXK**

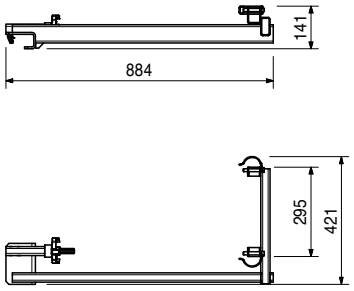




Art no.	Weight [kg]	
128406	7.230	**Ladder Connector MXK**

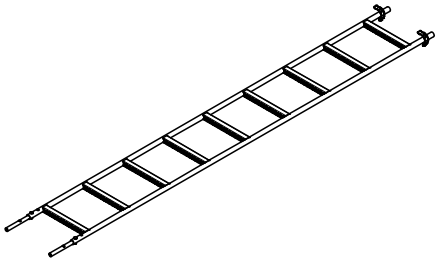
For fitting a Ladder MXK on MAXIMO and TRIO Panels.

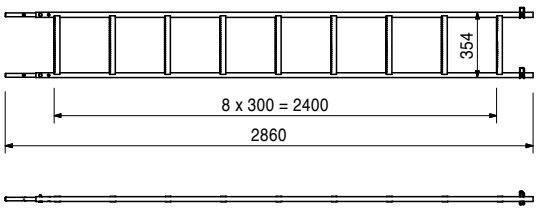




Art no.	Weight [kg]	
115915	12.300	**Ladder MXP 270**

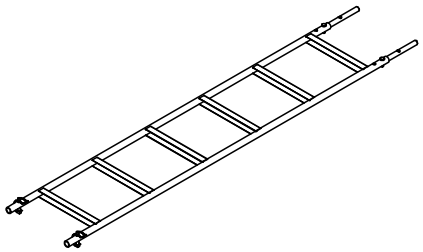
For Platforms MXK 240 with Hatch.

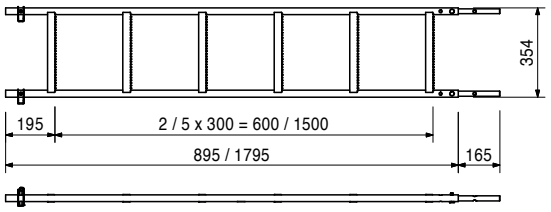




Art no.	Weight [kg]	
		Ladders RFP-2
114871	4.930	**Ladder RFP-2 90**
114870	8.570	**Ladder RFP-2 180**

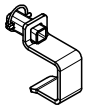
As access for Platform Systems RFP.

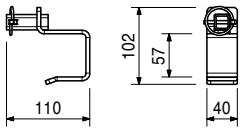




Art no.	Weight [kg]	
128941	0.364	**Lift Lock MXK**

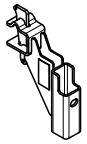
For fixing Lift Lock MXK to Scaffold Decks MXK.

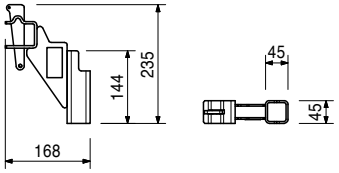




Art no.	Weight [kg]	
128829	1.340	**Inside Corner Post Holder MX**

For fixing an additional Guardrail Post MXK to Compensation Deck MXK.

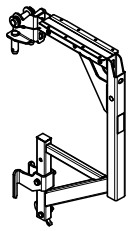


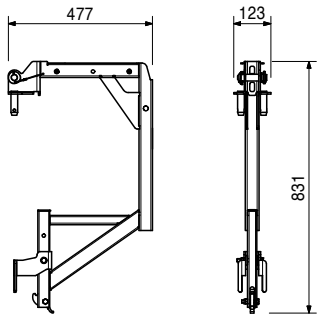


Accessory (not included)

126360 Guardrail Post MXK

Art no.	Weight [kg]		W [mm]	L [mm]
138705	8.560	**Inside Corner Bracket MXK**	123	477





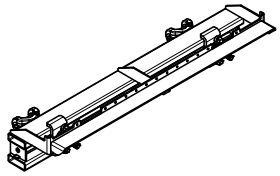
Accessory (not included)

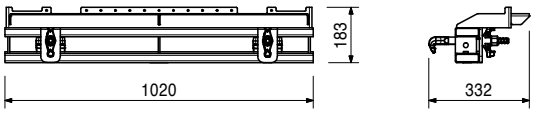
126541 Compensation Deck MXK long

132370 Compensation Deck MXK short

Art no.	Weight [kg]	
428900	20.400	**Ins.Cor. Adapter MAR MXK**

For supporting an internal corner platform.





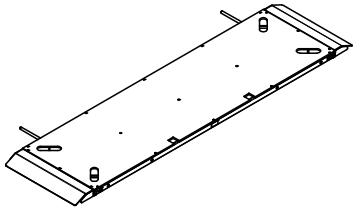
Accessory (not included)

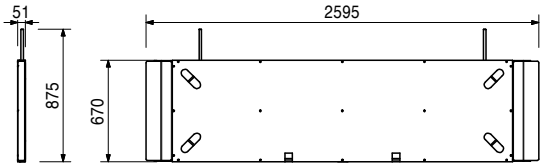
126541 Compensation Deck MXK long

132370 Compensation Deck MXK short

Art no.	Weight [kg]	
126541	32.400	**Compensation Deck MXK long**

For closing gaps between Scaffold Decks MXK.



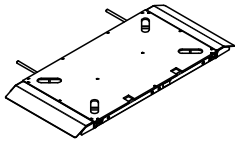


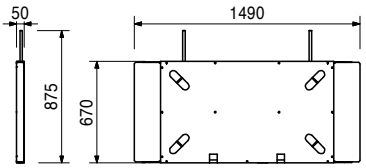
Accessory (not included)

128941 Lift Lock MXK

128829 Inside Corner Post Holder MX

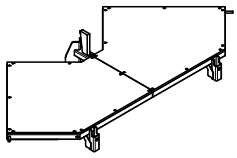
Art no.	Weight [kg]	
132370	22.100	**Compensation Deck MXK short**

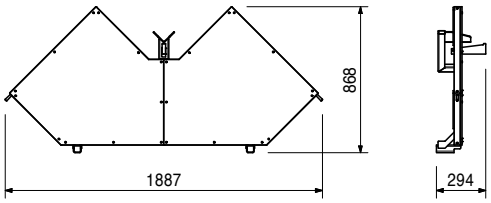




Art no.	Weight [kg]	
126545	25.900	**External Corner Deck MXK**

For fitting a working platform to the external corner.





Accessory (not included)

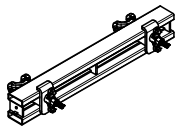
126360 Guardrail Post MXK

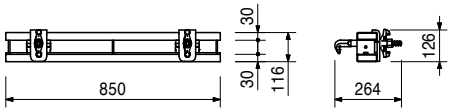
Art no.	Weight [kg]	
424941	14.100	**Compensation Waler-3 MAR 85**

For longitudinal compensation, height extensions, stopend formwork and special applications with MAXIMO. With captive connecting components.

Notes

Permissible bending moment 3.9 kNm.



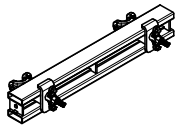


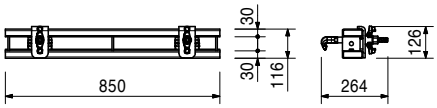
Art no.	Weight [kg]		W [mm]	L [mm]	perm. p [kN/m]
140096	14.100	**Compensation Waler-4 MAR 85**	264	850	5.2

For longitudinal compensation, height extensions, stopend formwork and with MAXIMO. With captive connecting components.

Notes

Permissible bending moment 5.2 kN/m.



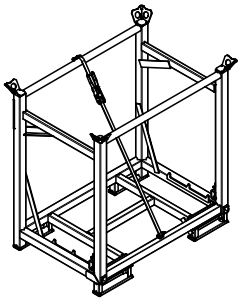


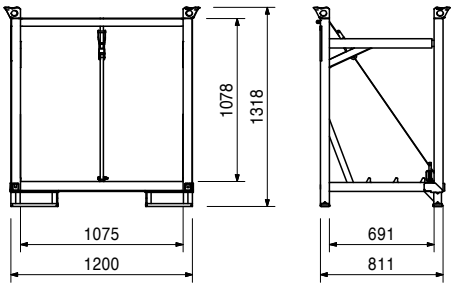
Art no.	Weight [kg]	
423960	70.400	**Pallet EP 110**

For stacking and transportation 25 Side Mesh Barriers PMB.

Notes

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

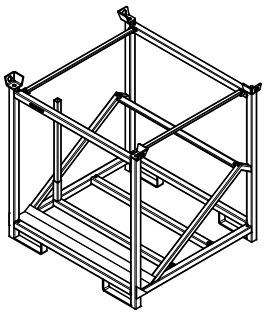


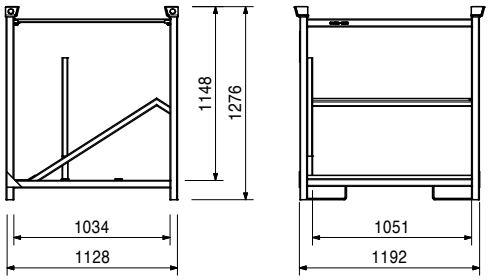


Included in delivery

117560 Lashing Strap 25x2,550mm 1 pc

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





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