MonoDec

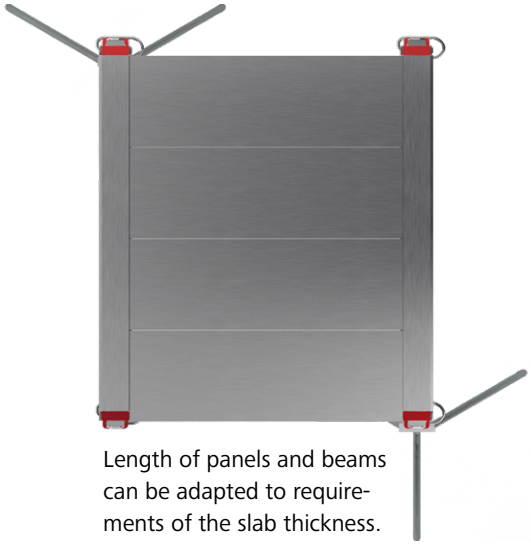
The light and robust slab formwork

meva

Slab Formwork with Aluminium Facing

MonoDec

The recommended spacing with MEVA EuMax Props is 200 cm x 165 cm. The lightweight slab formwork system with aluminum facing is a very cost-effective solution for your formwork project. It is flexible for any building geometry and provides high quality concrete finish for beams and slabs.

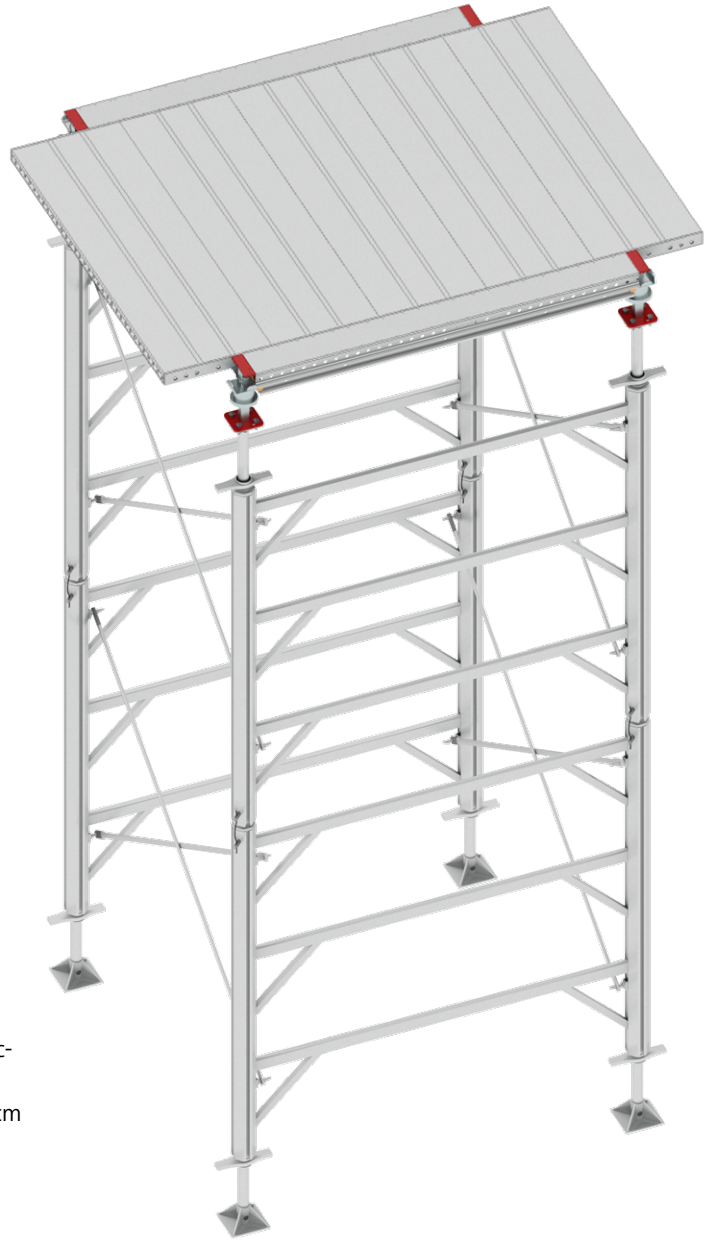


Length of panels and beams can be adapted to require-ments of the slab thickness.

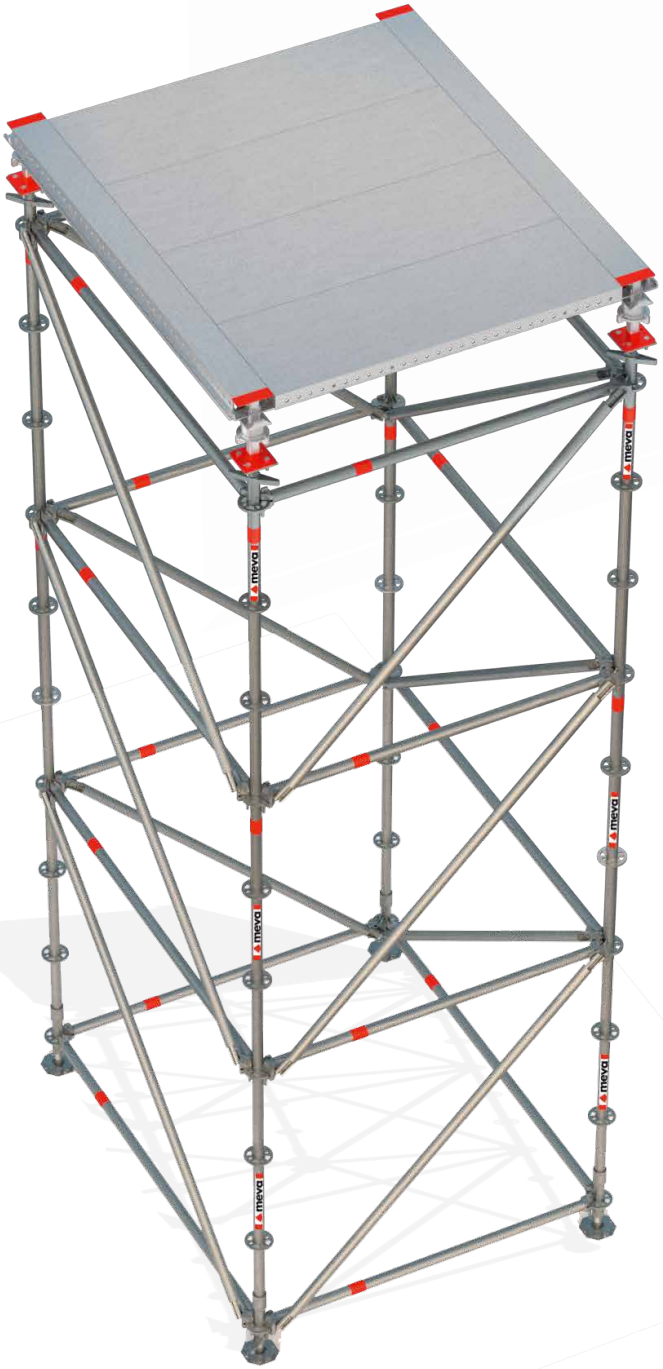
Compatible with any shoring tower system

MonoDec & Shoring towers

MonoDec panels and beam lengths are available for every shoring system. MEVA32, for instance, is a versatile yet simple system capable of handling virtually any project. The lightweight aluminum frame has a total load capacity of 142 kN (32kips). The high load means fewer frames are required, saving labour, time, equipment and space on site.



MonoDec can be adapted to any spacing. The footprint of MEVA32 ranges from 122 x 122 cm up to 244 x 244 cm (4′ x 4′ up to 8′ x 8′).



Adaptable

MonoDec & Scaffolding

Easy construction with any shoring system to achieve the required heights.

MonoDec's panel and beam lengths can be adapted to the spacing of the shoring tower.

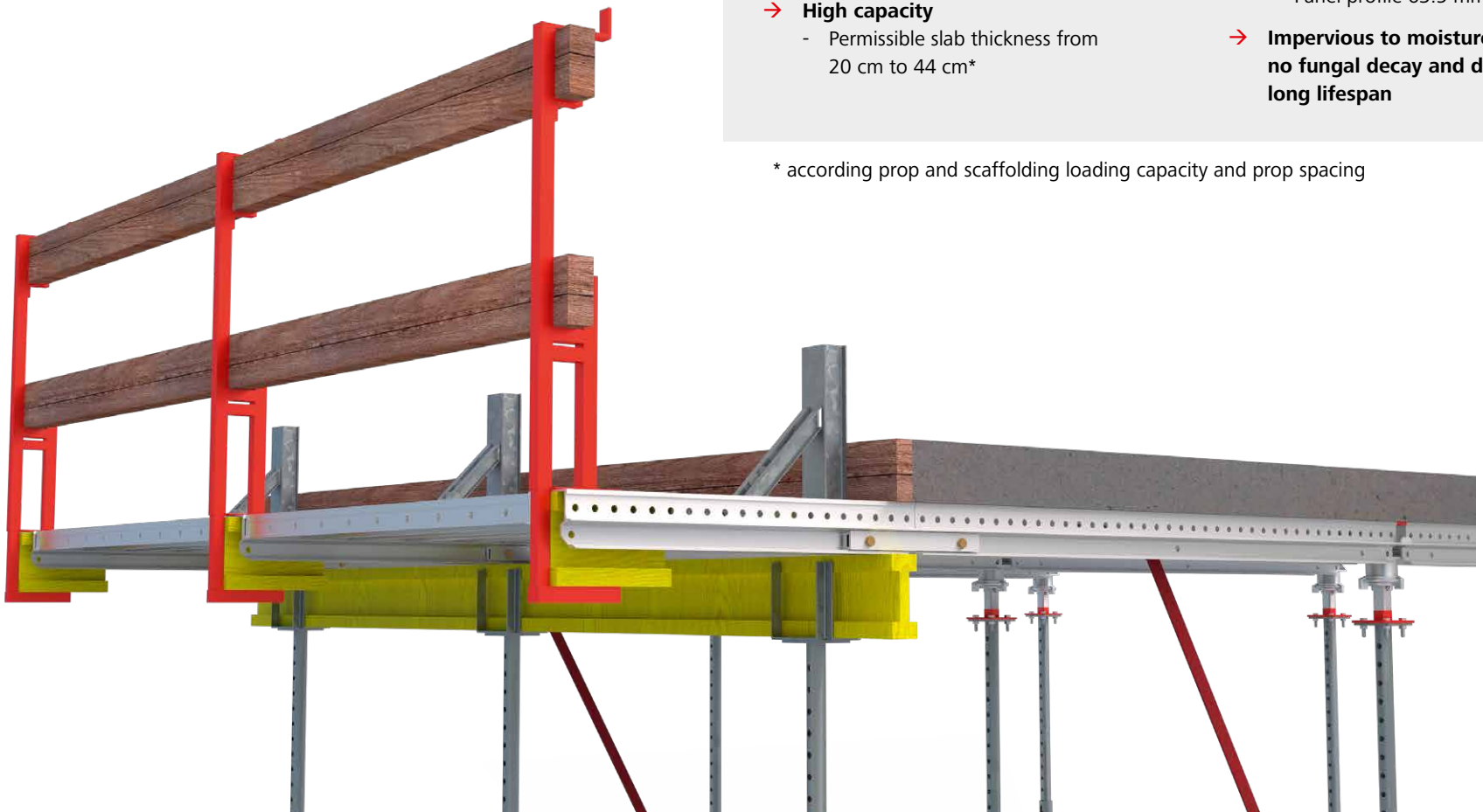
Aluminium Slab System

MonoDec Slab Solution

Simply smart

- **Fast adaptation to any building layouts**
  - Standard Panel width: 50 cm
- **Easy assembly by hand – no crane required**
  - Weight (Panels): 19.56 kg/m²
- **Drop head allows for early stripping, thus material savings of up to 40 %**
- **High capacity**
  - Permissible slab thickness from 20 cm to 44 cm*
- **Durable, lightweight, superior and consistent concrete finish**
  - MonoDec is 100 % recyclable and environment-friendly
- **Easy to clean with high-pressure and reduced concrete adhesion**
- **Fast and simple assembly**
  - Panel profile 63.5 mm
- **Impervious to moisture; no corrosion, no fungal decay and durable and long lifespan**

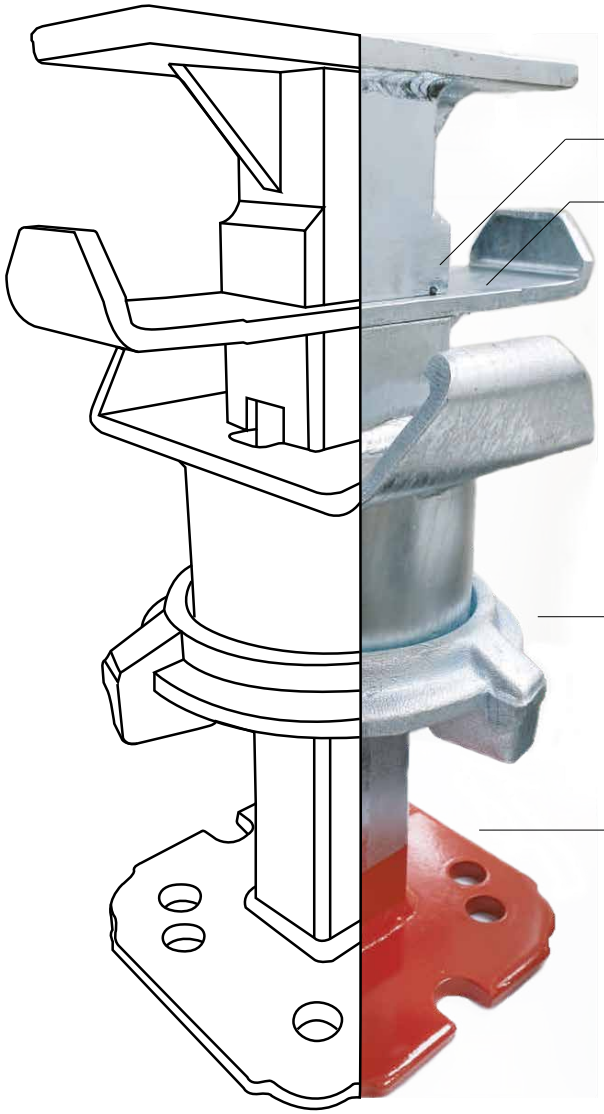
* according prop and scaffolding loading capacity and prop spacing



Aluminium Slab System

MonoDec Components

The MonoDec Drop Head allows an early stripping procedure by removal of the Primary Beams and Panels without losing the slab support. The standard width of the MonoDec elements is 50 cm, any length can be produced on request.



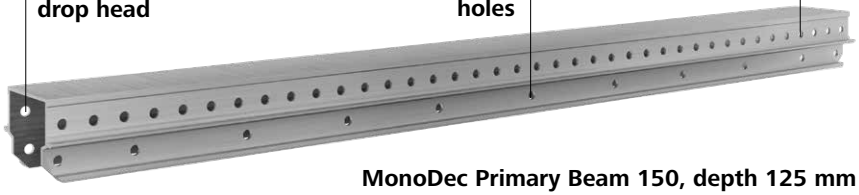
- Drop Head weight: 5,8 kg
- Drop Head height: 25 cm
- Drop height: 10 cm

Aluminium Slab System

MonoDec Components

MEVA EuMax Props
Complies with European Standard EN 1065, class D and E. The admissible load capacity is 20 kN and 30 kN at all extensions.

Long Pin
Bearing of the primary beams or drop heads.



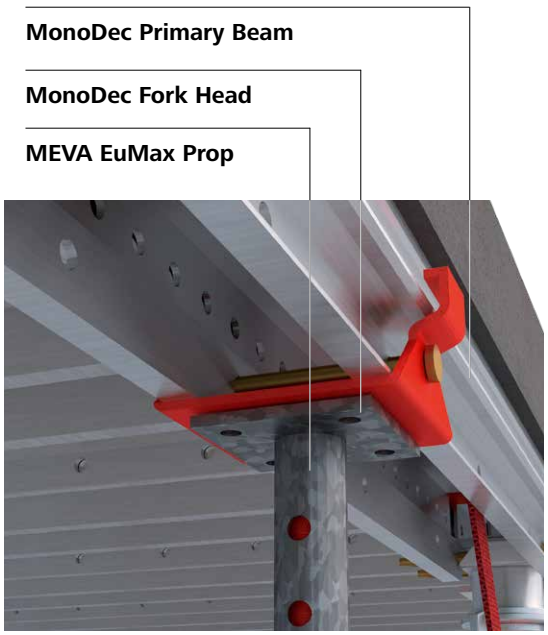
MonoDec Primary Beam 150, depth 125 mm
MonoDec Primary Beam 170, depth 125 mm
MonoDec Primary Beam 200, depth 125 mm

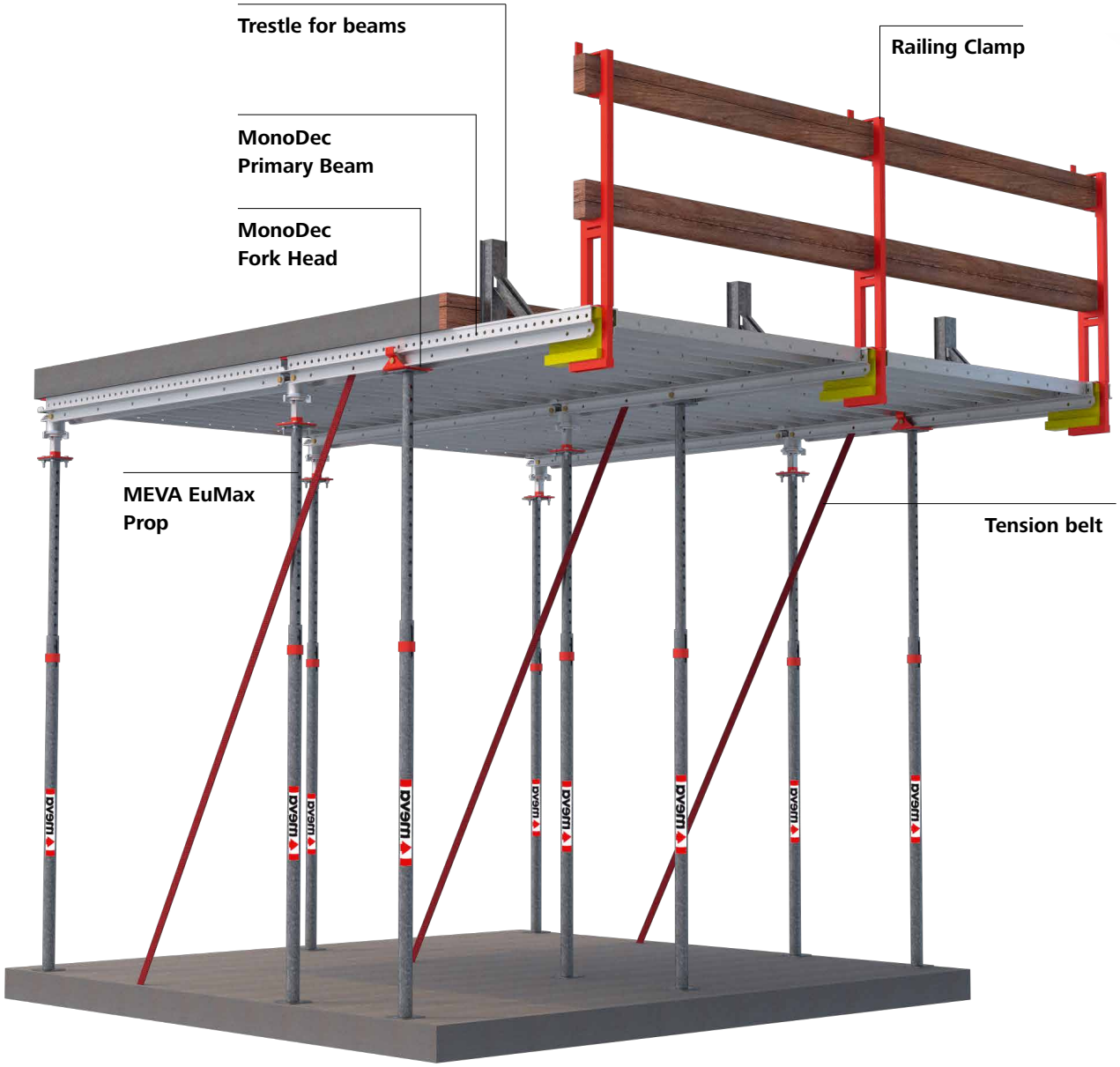
Sample of beam lenghts		Width 15 cm
Length [cm]	For Primary Beam 150	▪
	For Primary Beam 170	▪
	For Primary Beam 200	▪

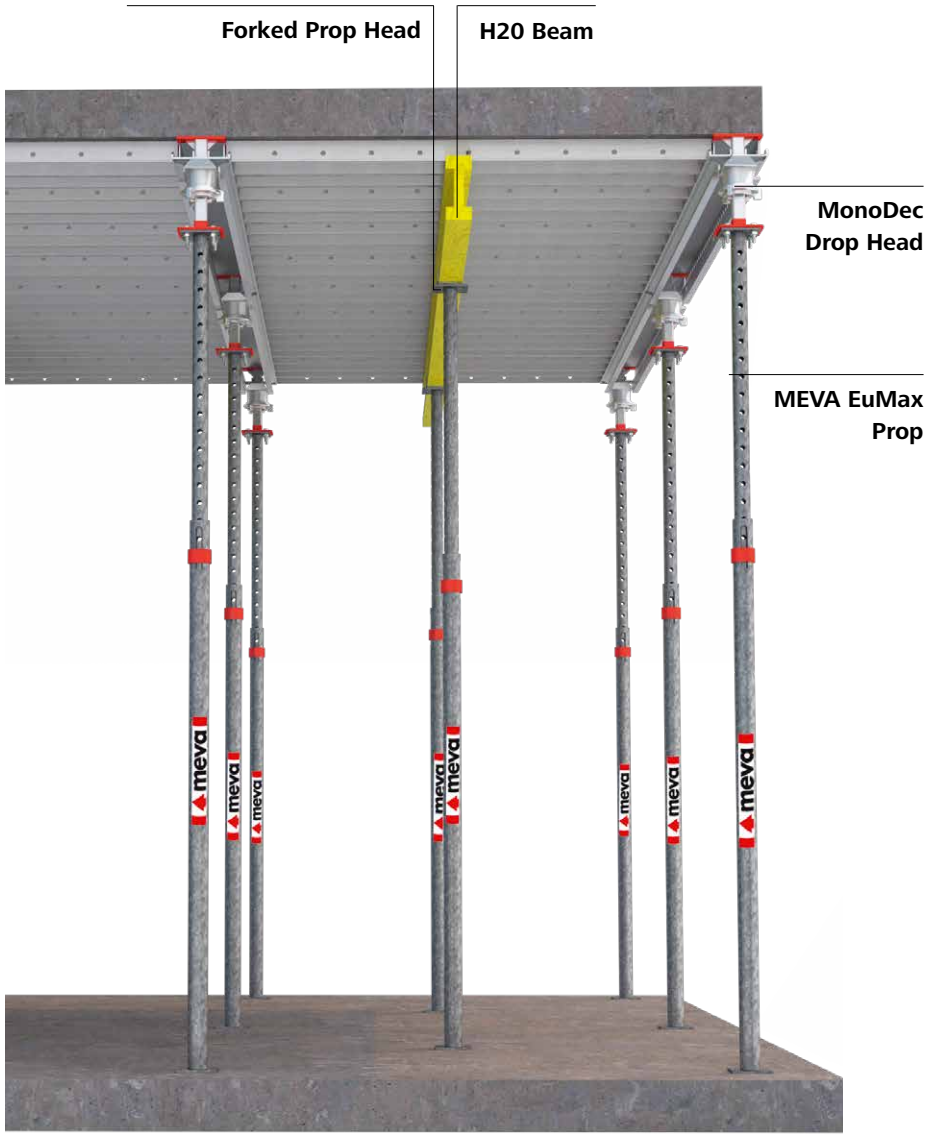
Different Solutions

MonoDec Fork Head

- **Supports MonoDec**
  - Primary Beams in cantilever areas
- **Supports Primary Beams**
  - at intermediate points when reinforcement is needed
- **Secures the position of the panel**







Shoring

Functional with any Slab Thickness

Reinforcement with an intermediate row of H20 Beams and MEVA EuMax Props when the slab thickness exceeds 20 cm.

Allowable slab thickness [cm]

	Prop Spacing [cm]			
	150 x 165	200 x 165	200 x 165*	170 x 170
With prop capacity 20 kN	25	17	36	20
With prop capacity 30 kN	40	20	43	33
With scaffolding capacity 40 kN	44	20	43	36

* With intermediate support under the panels

Typical Details

Slab Edges

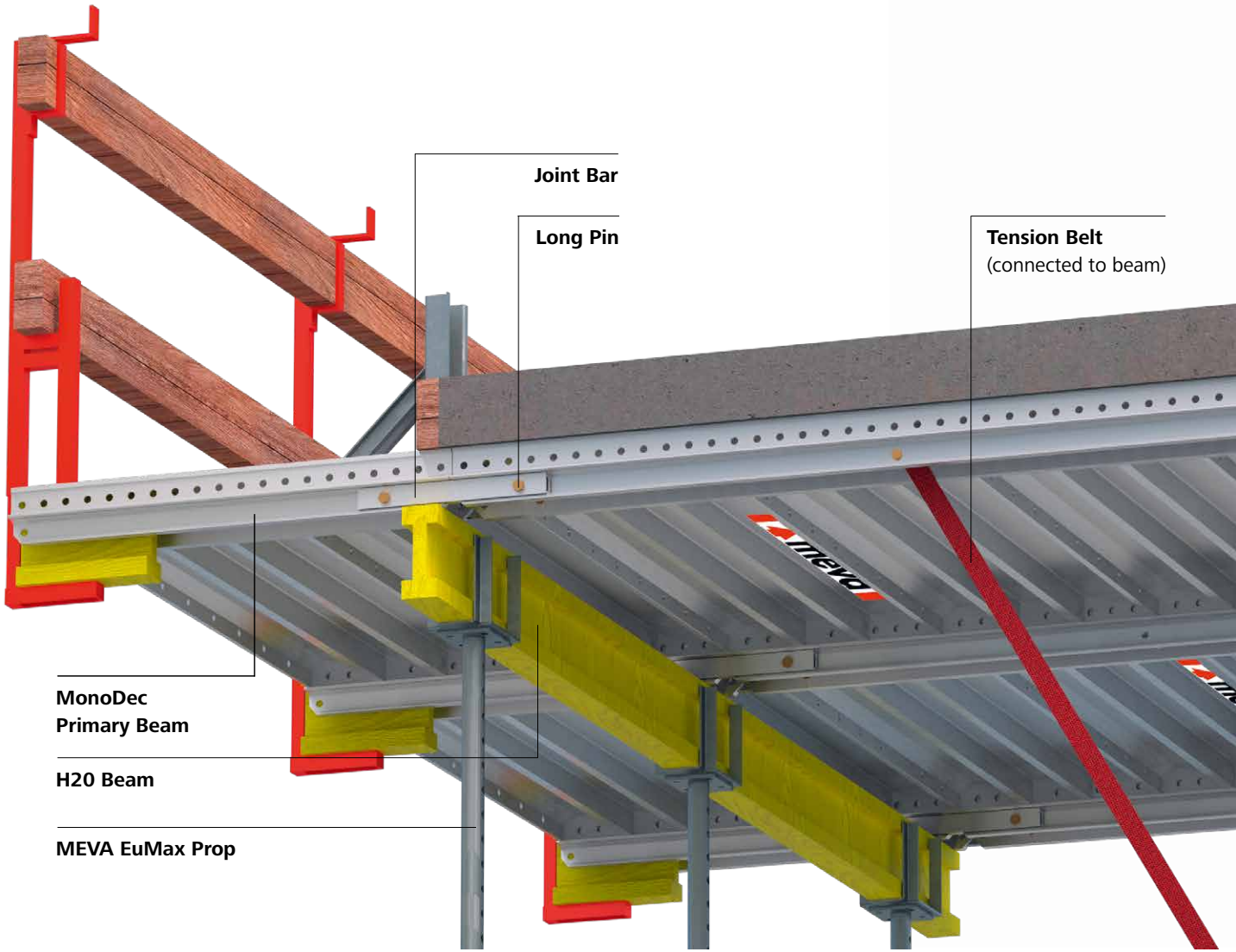
Joint Bar
Connection between primary beams for cantilever.

Long Pin
Extension of the primary beam, if required.

Detail Slab Edge Flat Plate

Slab with no Perimeter Reinforced Concrete (R. C.) Beam

Possibility to extend the MonoDec Primary Beam using Joint Bar



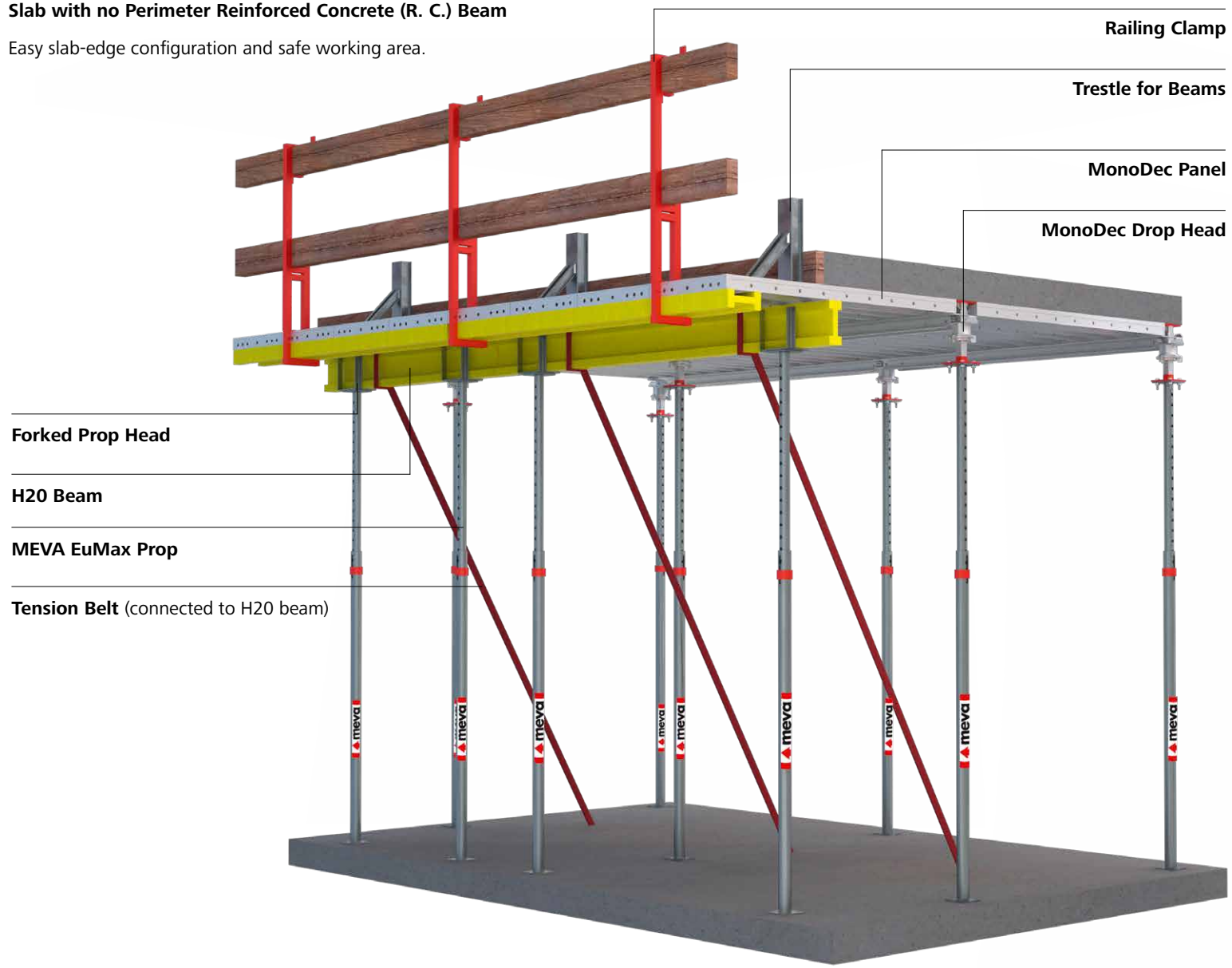
Typical Applications

Slab Edges

Detail Slab Edge

Slab with no Perimeter Reinforced Concrete (R. C.) Beam

Easy slab-edge configuration and safe working area.



Typical Applications

Beams

The H20 Drophead allows the removal of the shuttering and H20 Beams without losing its support to the Perimeter R.C. Beam.

Aluminium Channel

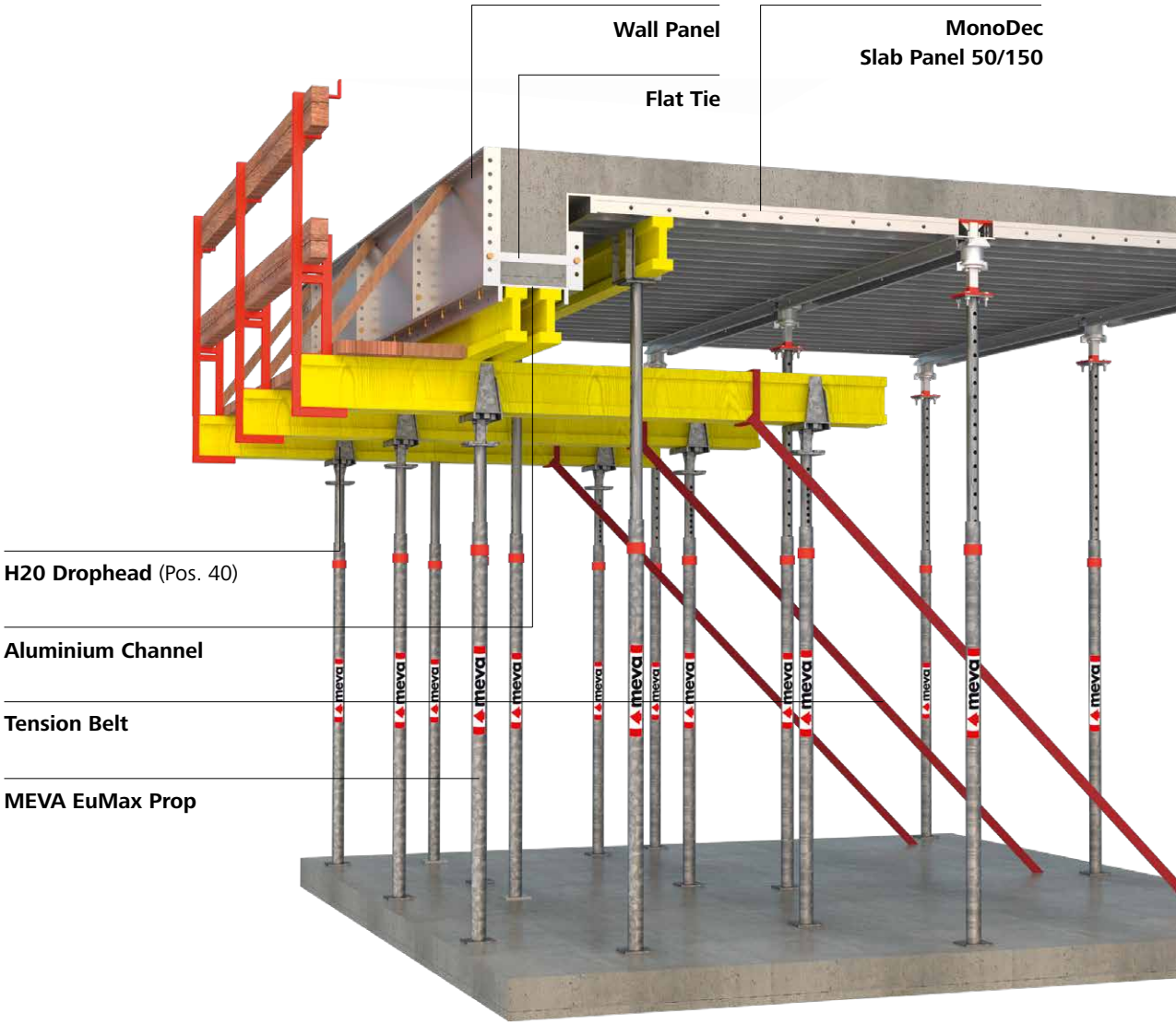
H20 Drophead (Pos. 40)

Note: If Aluminum beam used instead of H20 timber beam, then K6 Drophead is applicable.

Detail Reinforced Concrete (R. C.) Perimeter Beam

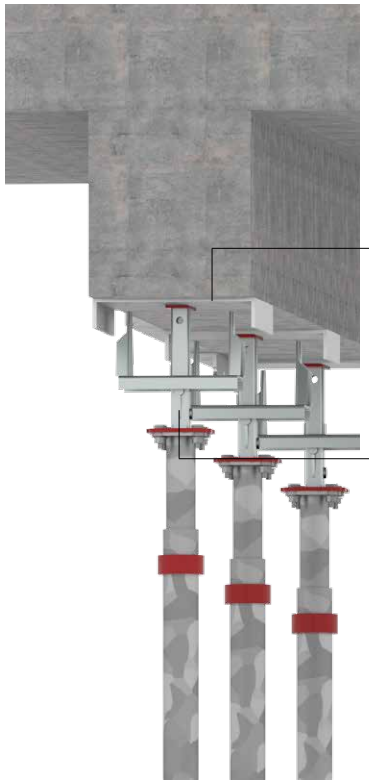
Assembly with MEVA EuMax Props

Easy slab-edge configuration and safe working area.



Typical Applications

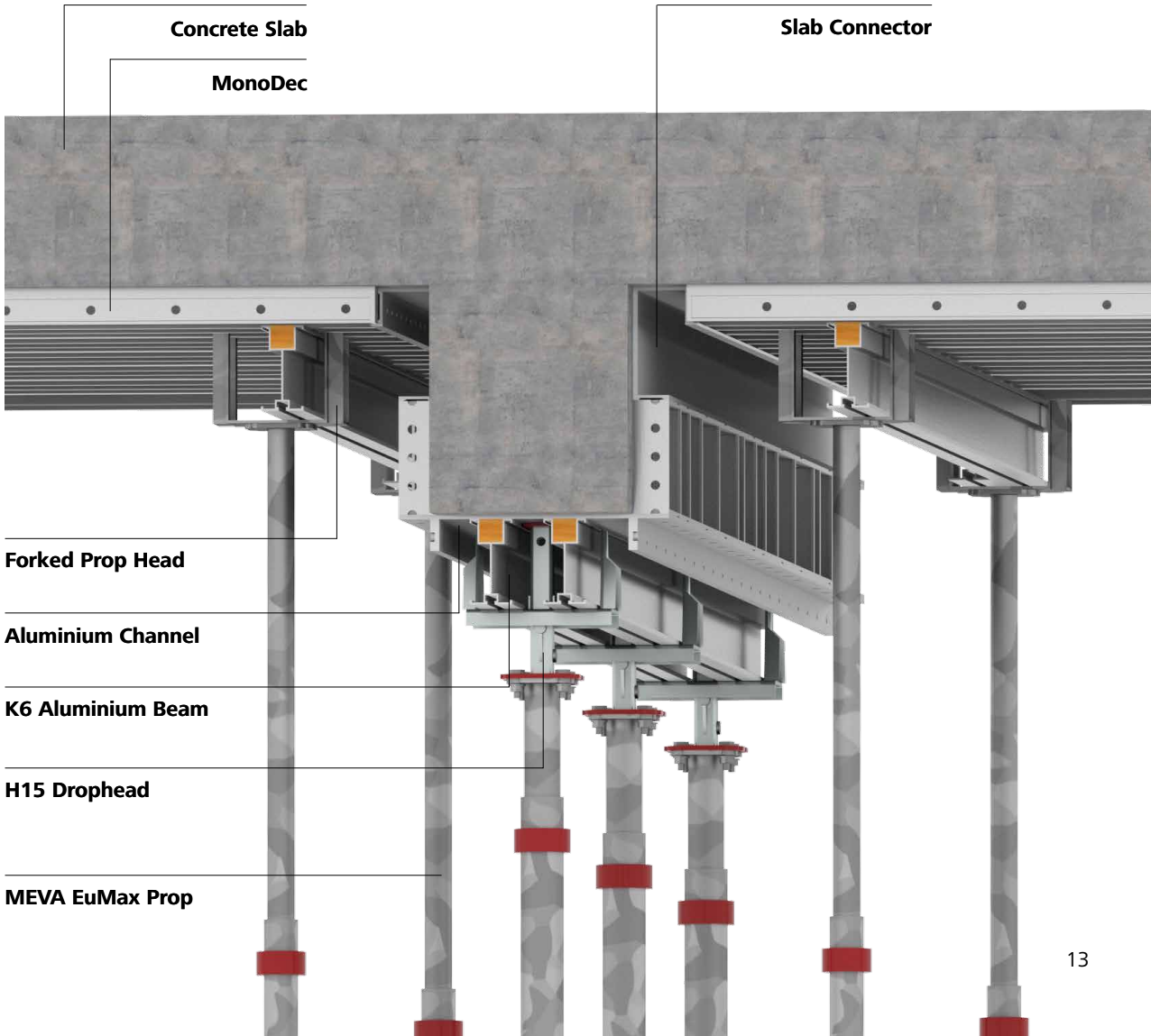
Beams



The H15 Drophead allows the removal of the shuttering and K6 Aluminium Beams without losing its support to the R.C. Beam.

Reinforced Concrete (R.C.) Beam

Assembly with H15 drophead and K6 Aluminium Beams



Typical Applications

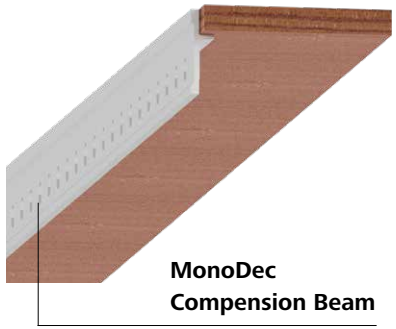
Beams

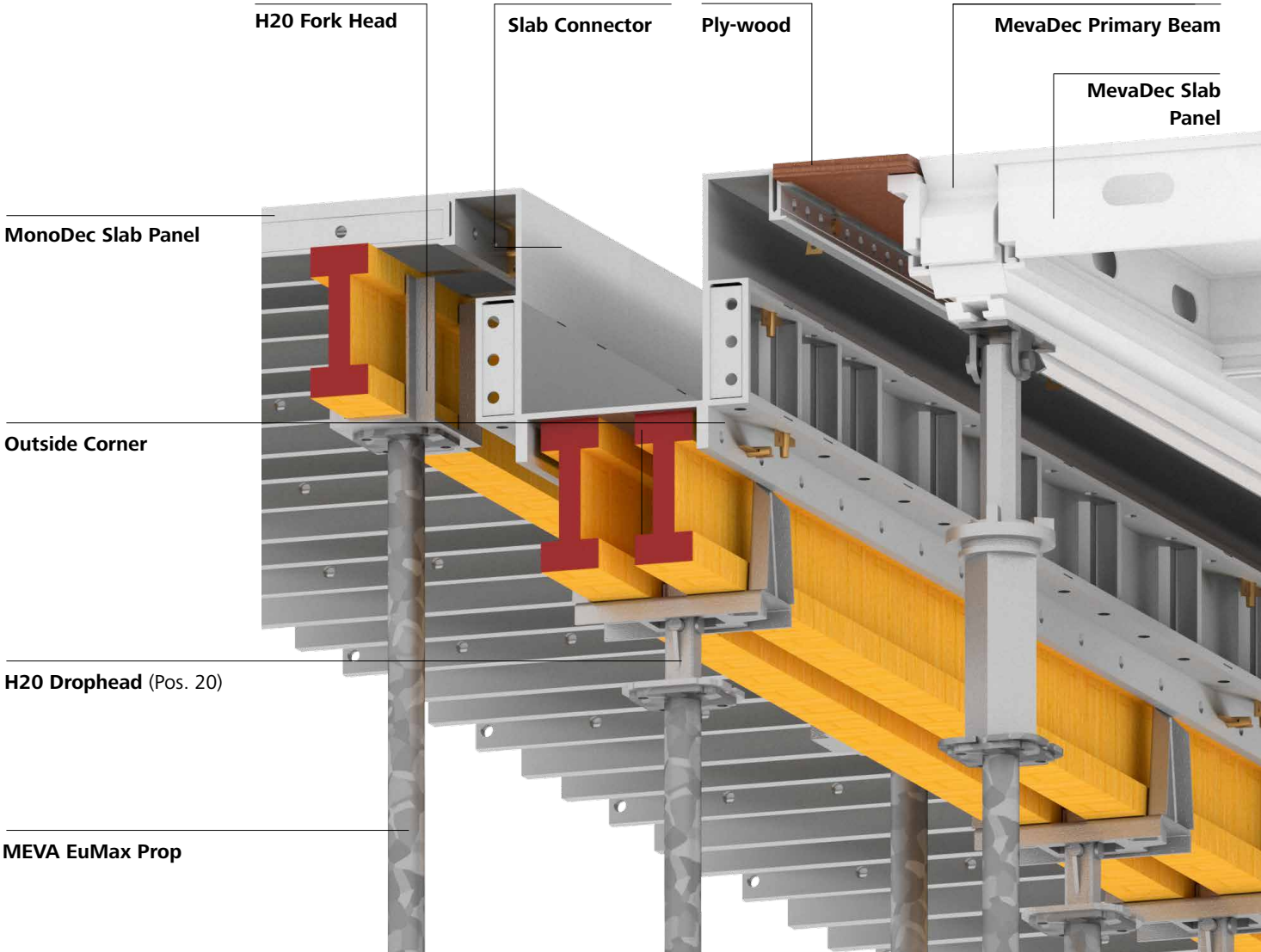
The Drop Head H20 Drophead allows the removal of the shuttering and H20 Beams without losing its support to the R.C. Beam.

Note: If Aluminum beam used instead of H20 timber beam, then K6 Drop-head is applicable.

R.C. Beam Detail with MonoDec compensation profile

MonoDec and MevaDec assembly





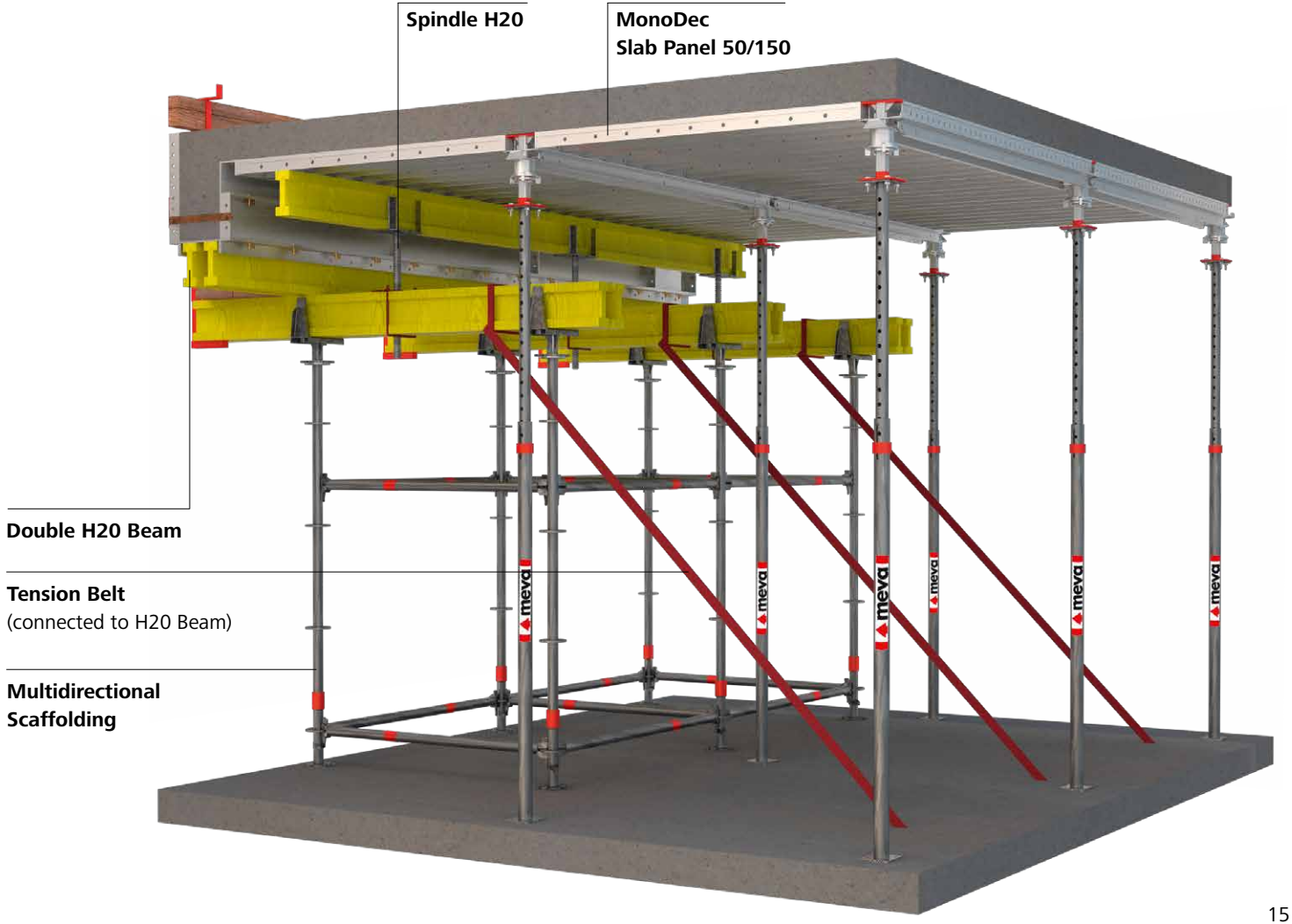
Typical Applications

Beams

R.C. Perimeter Beam

Assembly with Multidirectional Scaffolding

Easy to combine with other MEVA perimeter beam solutions.

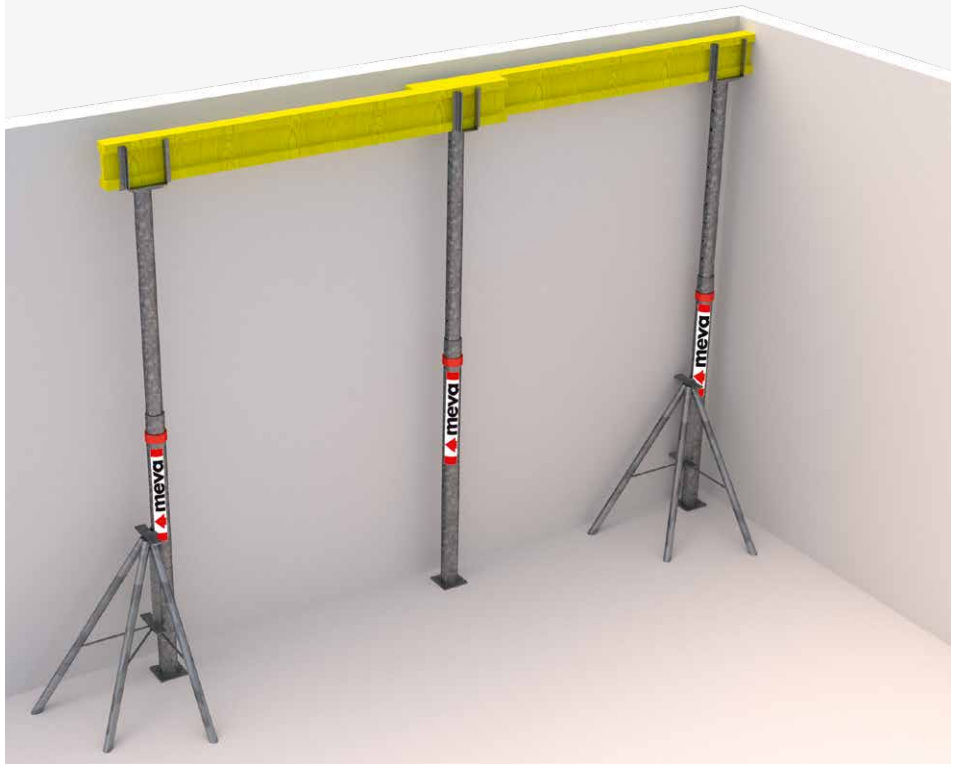


Typical Applications

Assembly

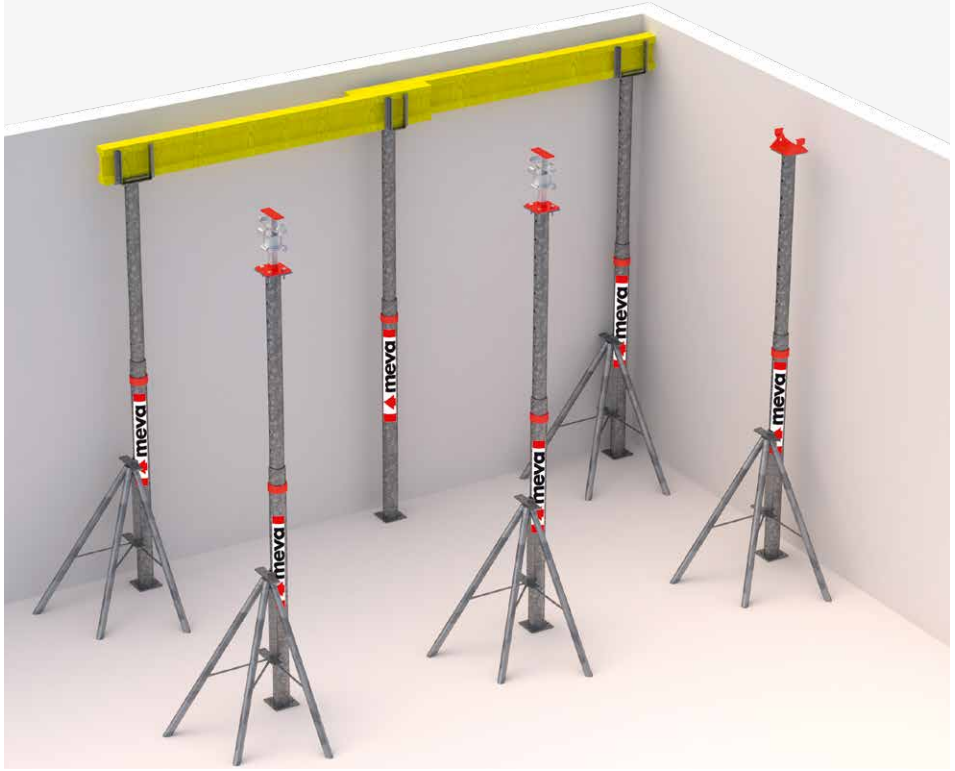
1

→ **Erect a row of H20 Beams along the wall, supported with MEVA EuMax Props.**



2

→ **Erect a second row of MEVA EuMax Props with MonoDec Drop Heads parallel to the first one at a distance given by the length of the panels.**

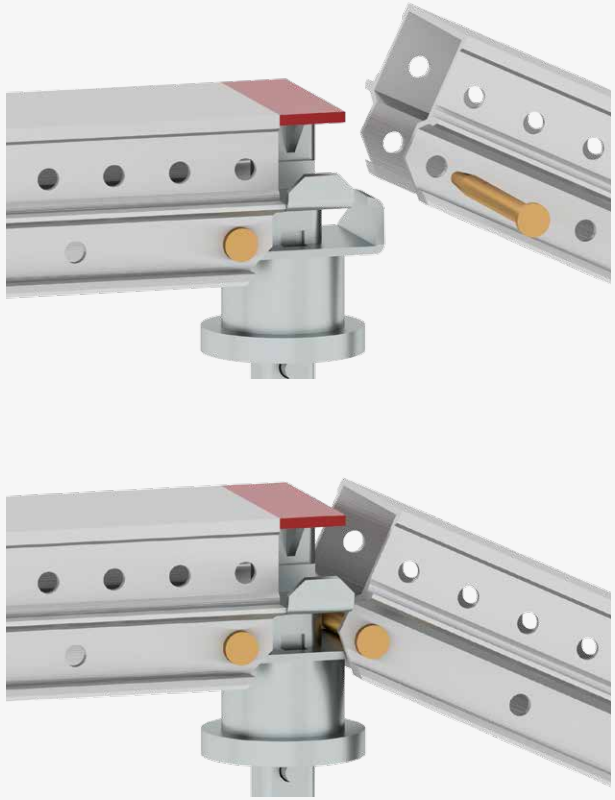


Typical Applications

Assembly

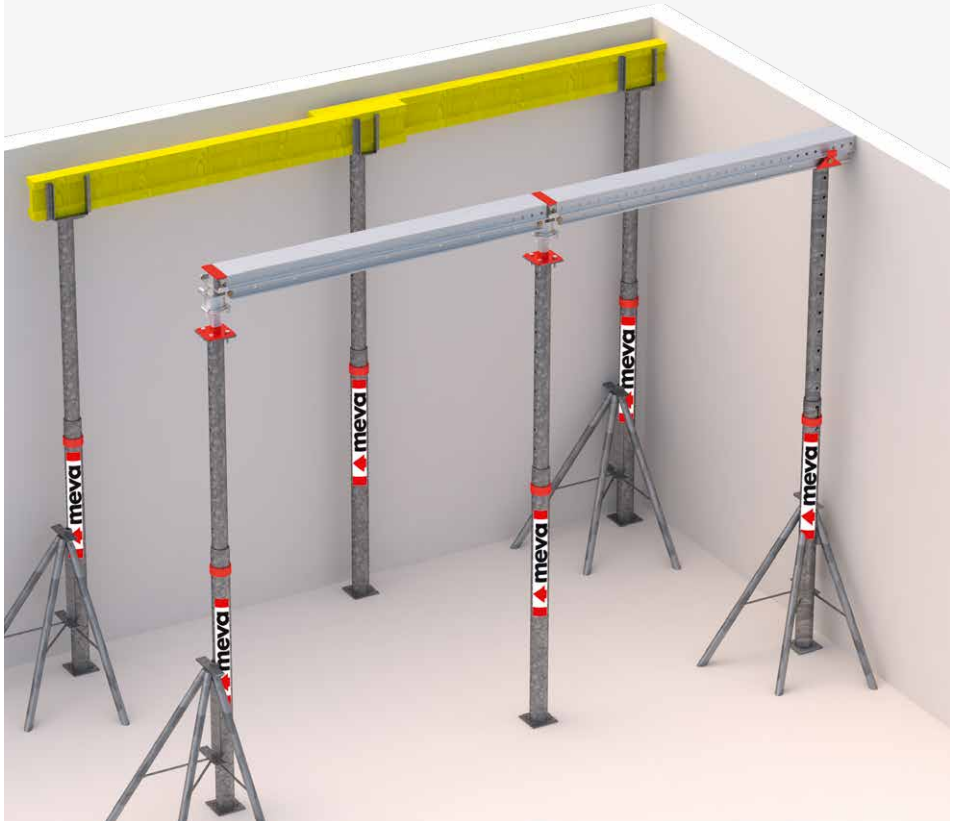
3

→ **Attach the long pin in the end holes of the MonoDec Primary Beam.**



4

→ **Hook the MonoDec Primary Beam with the first MonoDec Drop Head, swing the beam up and hook it with the second MonoDec Drop Head.**

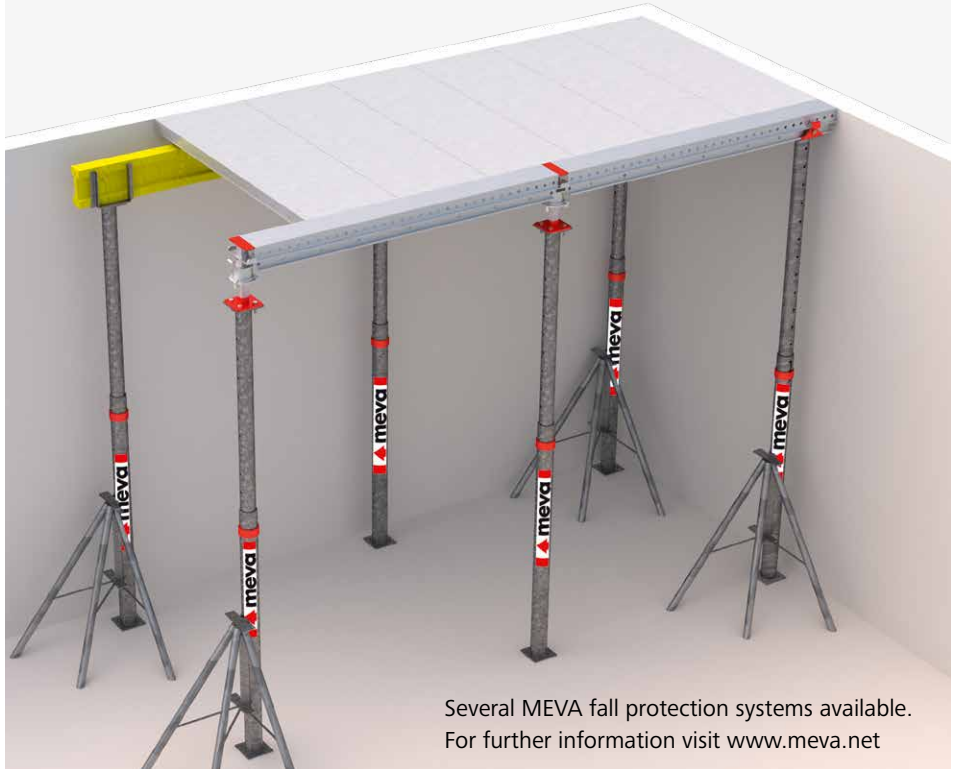


Typical Applications

Assembly

5

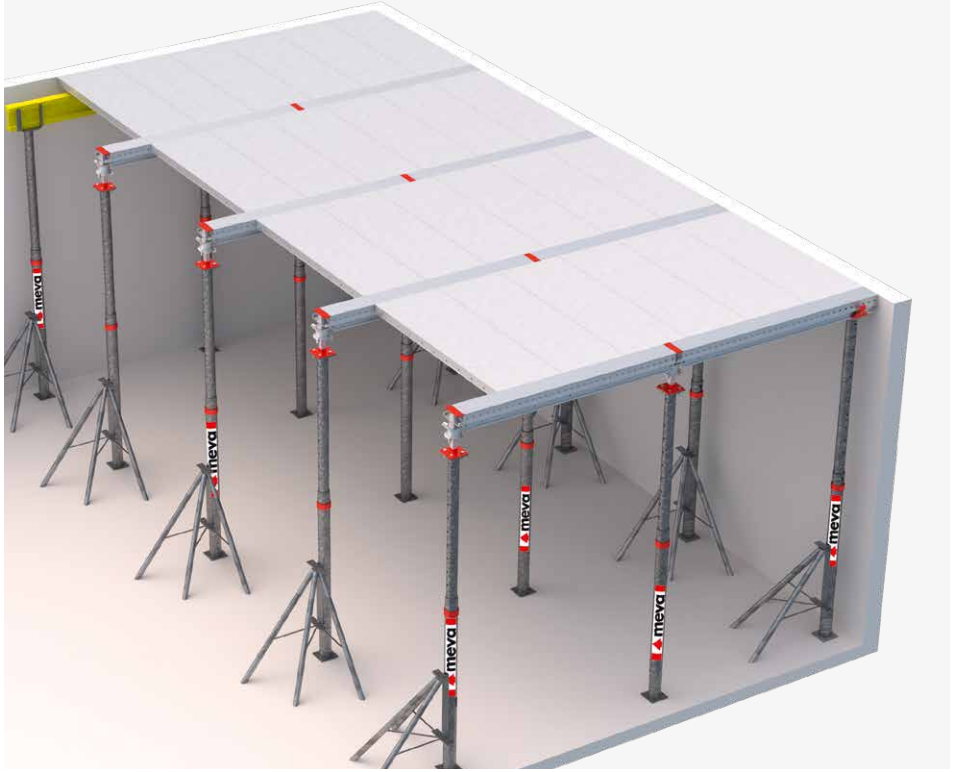
→ **Insert the MonoDec Panels perpendicular to the MonoDec Primary Beams and on top of the H20 beams so that each panel closes the gap to the wall.**



Several MEVA fall protection systems available.
For further information visit www.meva.net

6

→ **Insert the panels on top of the next rows of MonoDec Primary Beams, following the project's design.**

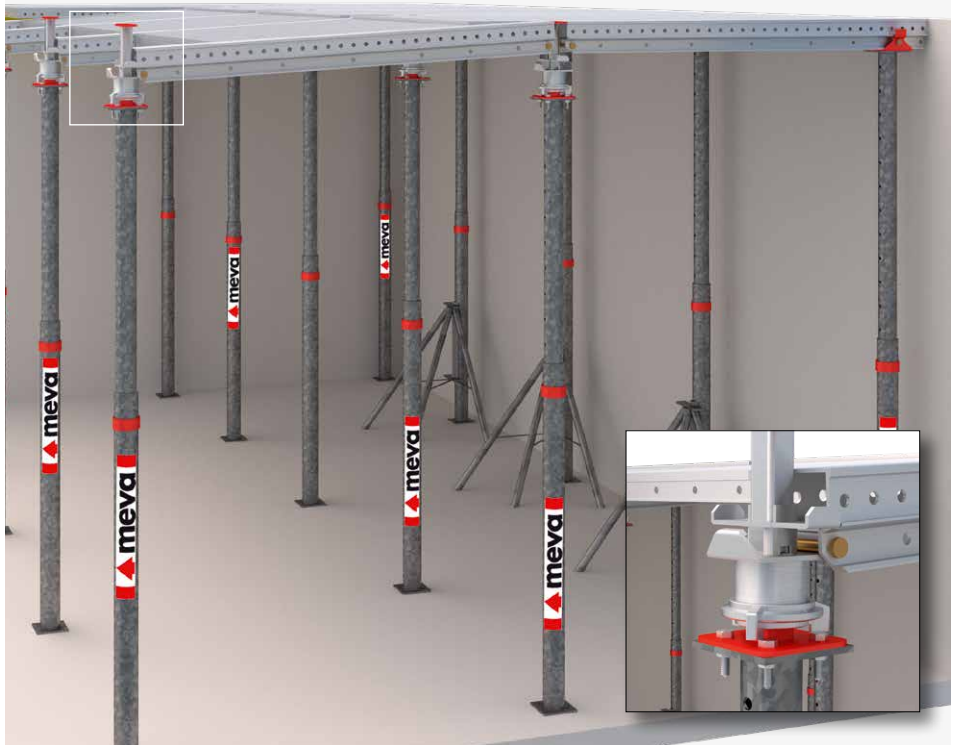


Typical Applications

Disassembly

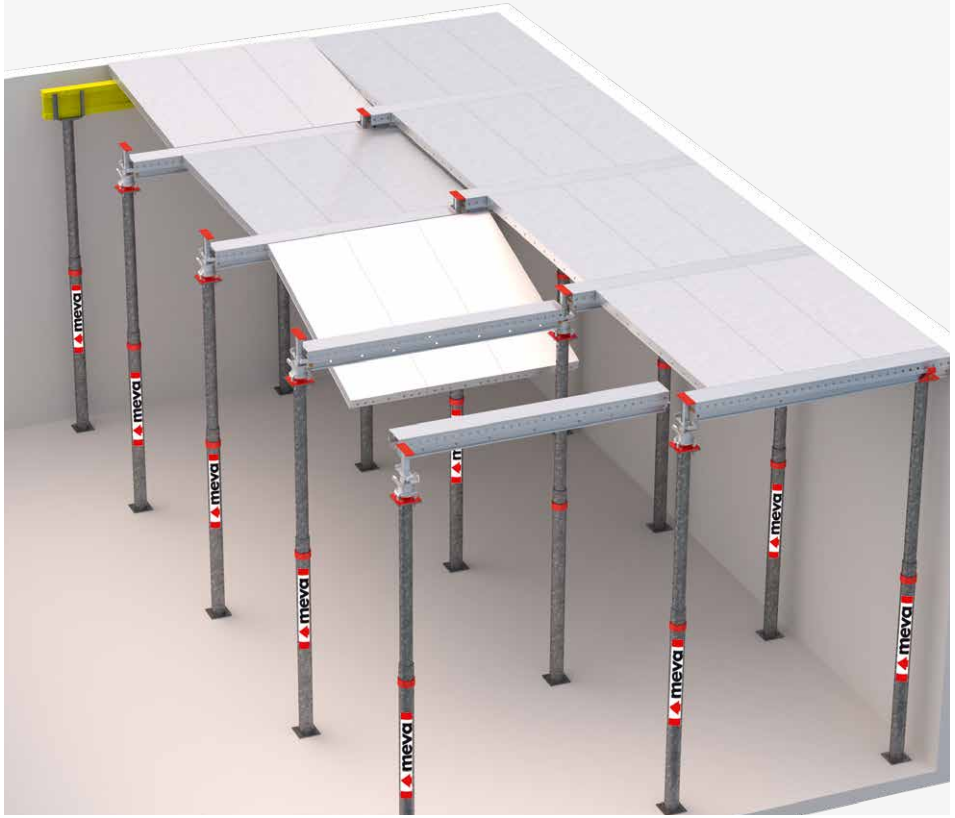
1

→ **Hit the Wedge Ring of the MonoDec Drop Head with a hammer until it drops approximately 10 cm. Proceed with the next Drop Head until the MonoDec Primary Beam lowers.**



2

→ **Remove the MonoDec panels.**

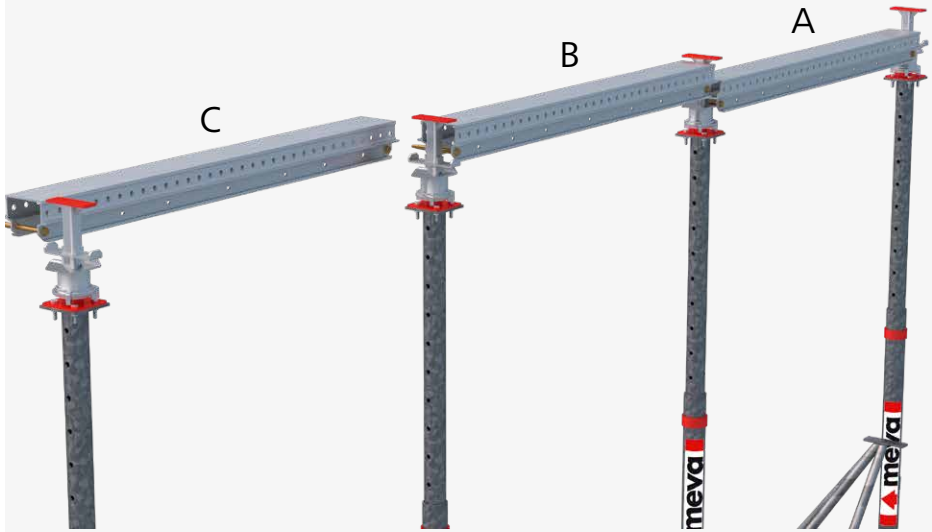


Typical Applications

Disassembly

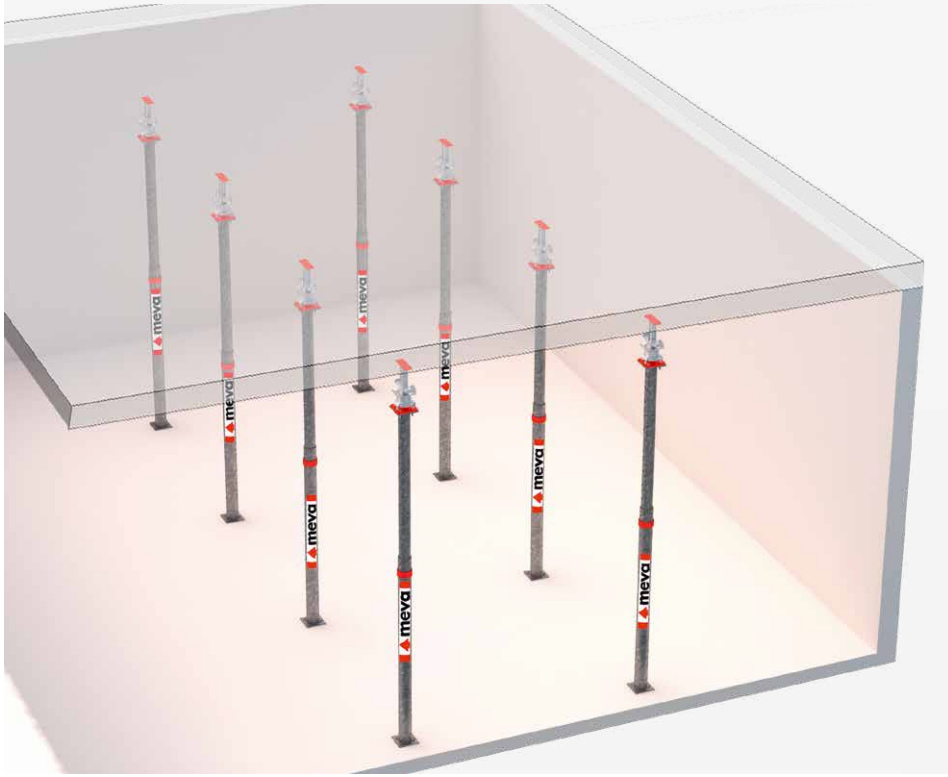
3

→ **Once the MonoDec Primary Beams are lowered and the Panels are removed (A), raise the MonoDec Primary Beam (B), move it to one side and remove it (C).**



4

→ **Upon Removing the MonoDec Panels and MonoDec Primary Beams, the MEVA EuMax Prop and MonoDec Drop Head remain in place for reshoring.**

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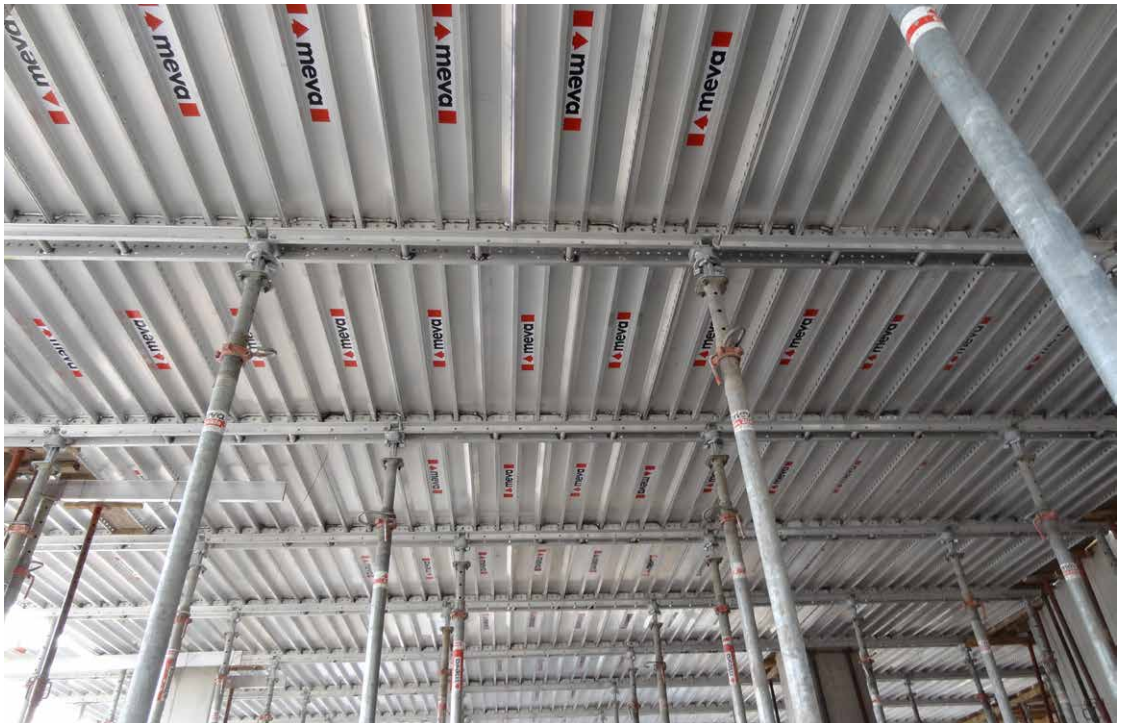
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Pioneer and trendsetter

More with MEVA

Formwork. Simple. Smart.

A lot of things that are now considered to be standard in the formwork industry were developed by MEVA in Haiterbach. As a trendsetter for the entire industry, we work day in and day out with great élan to make formwork even safer, more efficient and easier to use for the end user. For us, the excellent quality of our products and technology is a matter of course.

We are independent, family-run and committed to the values of a medium-sized company in everything we do. That is why our customers may rightly expect not only technologically superior products but also comprehensive, personal commitment to projects all around the world.

Complex special formwork or economical standard formwork: Our experience and wide range of products make us a service partner with strong consulting skills, even for the sophisticated challenges construction professionals have to master nowadays.


Formwork.
Simple. Smart.
meva

You can rely on us wherever you are.

With 40 offices on 5 continents, we are on the spot wherever you need us.

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