MonoFix

Monolithic Formwork System

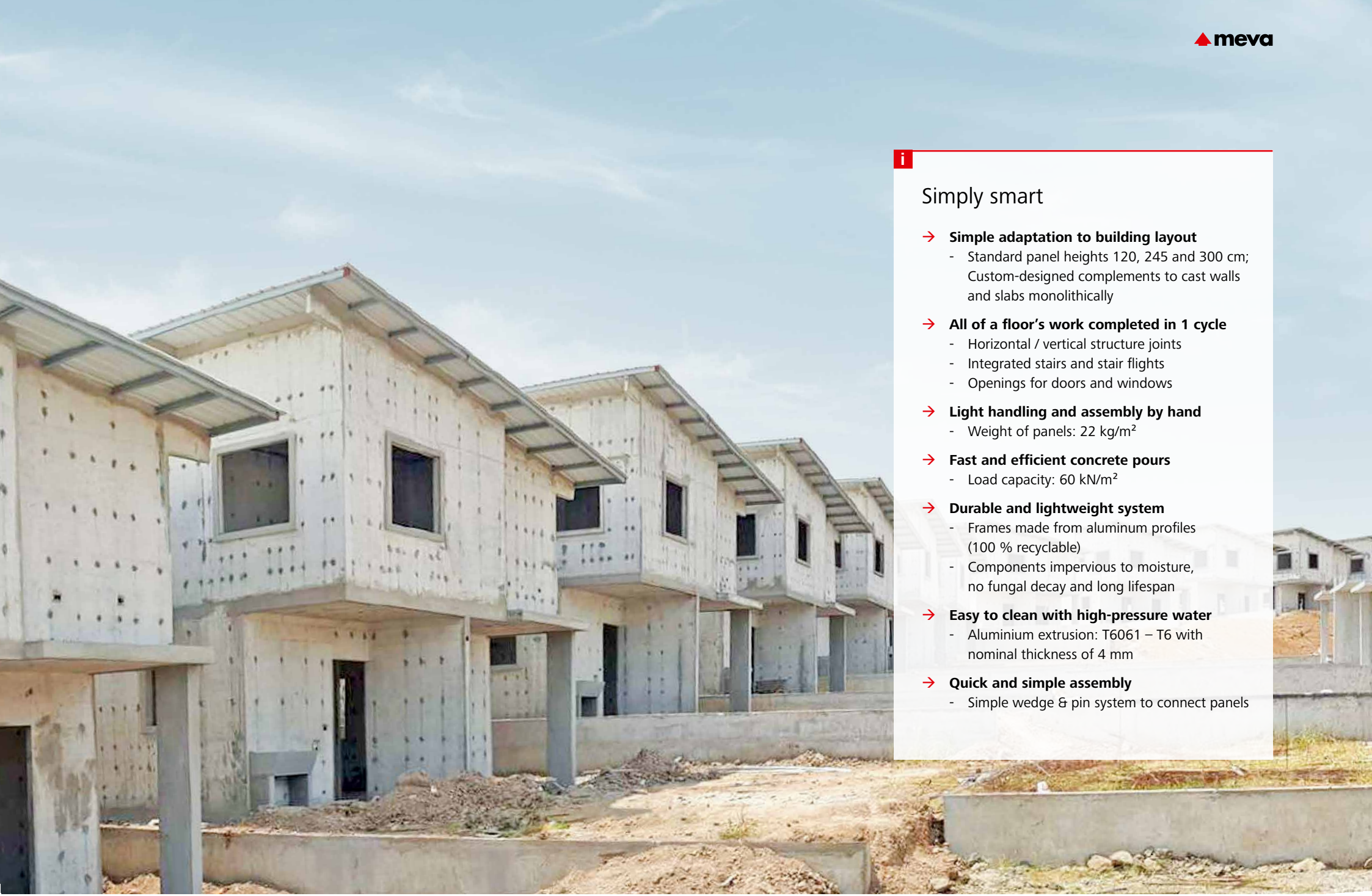
meva

Monolithic formwork with aluminium facing

Cost-effective hand set solution

The MEVA MonoFix hand-set system is perfect for all residential construction projects thanks to its outstanding features: easy and quick assembly, cost-effective implementation on site and flexibility to adapt to any building layout.

Saving time. Saving labour.
Easy handling. Fewer parts.



Simply smart

- **Simple adaptation to building layout**
  - Standard panel heights 120, 245 and 300 cm; Custom-designed complements to cast walls and slabs monolithically
- **All of a floor's work completed in 1 cycle**
  - Horizontal / vertical structure joints
  - Integrated stairs and stair flights
  - Openings for doors and windows
- **Light handling and assembly by hand**
  - Weight of panels: 22 kg/m²
- **Fast and efficient concrete pours**
  - Load capacity: 60 kN/m²
- **Durable and lightweight system**
  - Frames made from aluminum profiles (100 % recyclable)
  - Components impervious to moisture, no fungal decay and long lifespan
- **Easy to clean with high-pressure water**
  - Aluminium extrusion: T6061 – T6 with nominal thickness of 4 mm
- **Quick and simple assembly**
  - Simple wedge & pin system to connect panels

Simple and Smart

Efficiency of MonoFix

Reliable, durable and reusable

The wall panels are made of aluminum for a superior finish. The vertical panel standard size is 245 cm high*. The special panels can range from a minimum of 10 cm to a maximum height of 300 cm and are available in widths ranging from 30 cm to 60 cm to match the building geometry.

A wedge and pin arrangement guarantees a tight and perfectly aligned panel connection. Panels with perforated profiles can be manufactured to suit different column sizes.

MonoFix panel sizes			**Panels*** [Width in cm]					**Corner Panels** [Width in cm]		
			60	50	45	40	30	IC	OC	WEP
Heights [cm]	**Wall**	300	▪	▪	▪	▪	▪	▪	▪	▪
		245	▪	▪	▪	▪	▪	▪	▪	▪
	Slab	120	▪		▪					

IC	Inside Corner, side length 10 cm
OC	Outside Corner
WEP	Wall End Panel

Wall panel

Slab panel

Curved geometries

Corners

Windows

Balconies

Made from light aluminum

One system for all parts of a building

The MEVA MonoFix system can be used to form all concrete structures:

- Walls
- Floors
- Slabs
- Balconies
- Window hoods and parapets
- Curved and decorative features
- Columns
- Beams
- Stairs

Column and Beam Solution

Applications

Many residential projects require mainly walls and slabs, for which MonoFix is ideally suited.

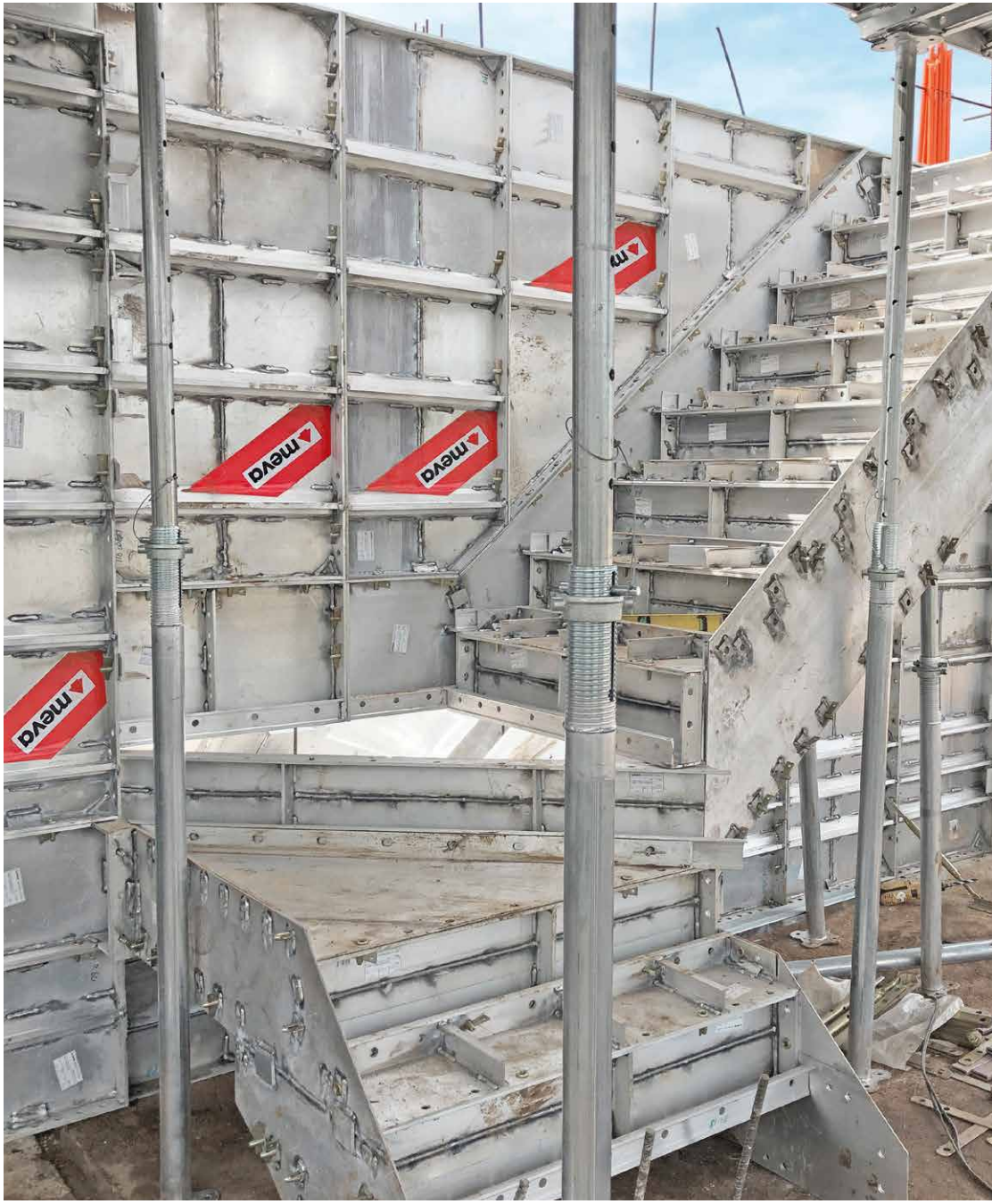
But even when projects require columns and beams rather than walls the MEVA MonoFix system can easily produce all sizes and connections of columns and beams needed - including complicated offsets and drop-panels.

The system can be adapted to the beams or slabs according to the requirements of the project.

Stairs

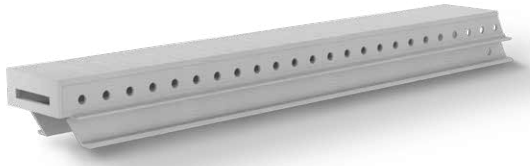
The MonoFix monolithic system comes with integrated stair forms.

Stair forms are connected to the side wall panels and supported by MEVA props. They guarantee the correct geometry of the finished stairs and can be poured together with the walls and slabs above or in a second stage pour. Customized production of the stair forms allows MonoFix to meet all architectural requirements

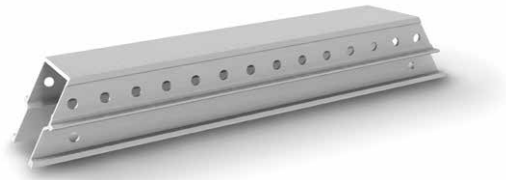


Components

Slab Connector
Connects a wall panel and slab panel in a straight wall area.



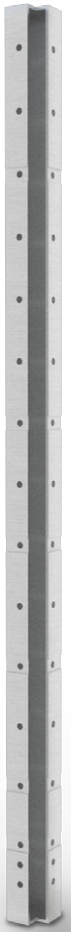
End Beam
Aluminum extrusions with a width of 89 mm and a length as required. With one end cut at an angle of 110° for safe transfer of slab loads in connection with the prop head.



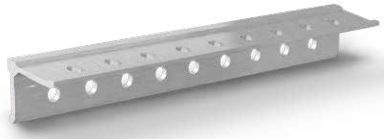
Middle Beam
Aluminum extrusions with a width of 89 mm & lengths of 1150 and 700 mm. The ends are cut at an angle of 110° for safe transfer of slab loads in connection with the prop head.

Prop Head
Connects a middle beam and an end beam. It supports the beams during assembly, rebar fixing and concrete pouring. Provides slab support after early stripping of beams and panels.

Wall End panel
Covers both edges of the wall panels, without outside corner angle.



Inside Corner
Aluminum panel with two 10 x 10 cm faces. Used at the inner corners of the walls with a maximum single piece height of 300 cm.



Rocker
Connected to the bottom of a wall panel, allow easy stripping of the inside wall panels.

Beam Slab Connector
Connected with wall end panel and a beam panel, it is used to form a door or a window.

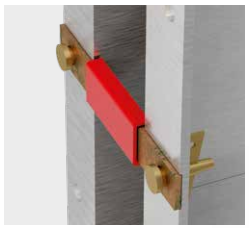
Typical application

Assembly

1 After the form oil is applied, the outside corner is fixed to the external wall panels with round pins & wedges.

Pin and wedge detail

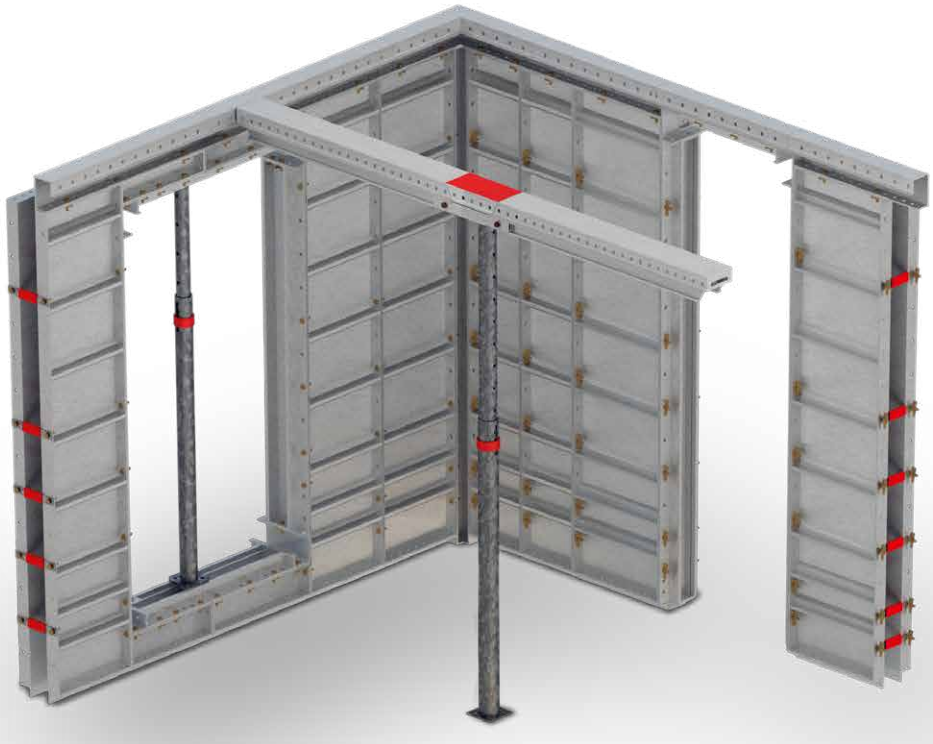
2 The inside corner is fixed to the internal wall panels by round pin & wedge. The internal and external wall panels are connected by tie plates with PVC sleeves between the panels.



Tie plate and PVC sleeve

3 Slab connectors are installed on the top portion of the wall panels with round pin & wedge.

4 Middle, end beam and prop are combined by joint bars with long pin & wedge to form the beam soffits of the beams.



Typical application

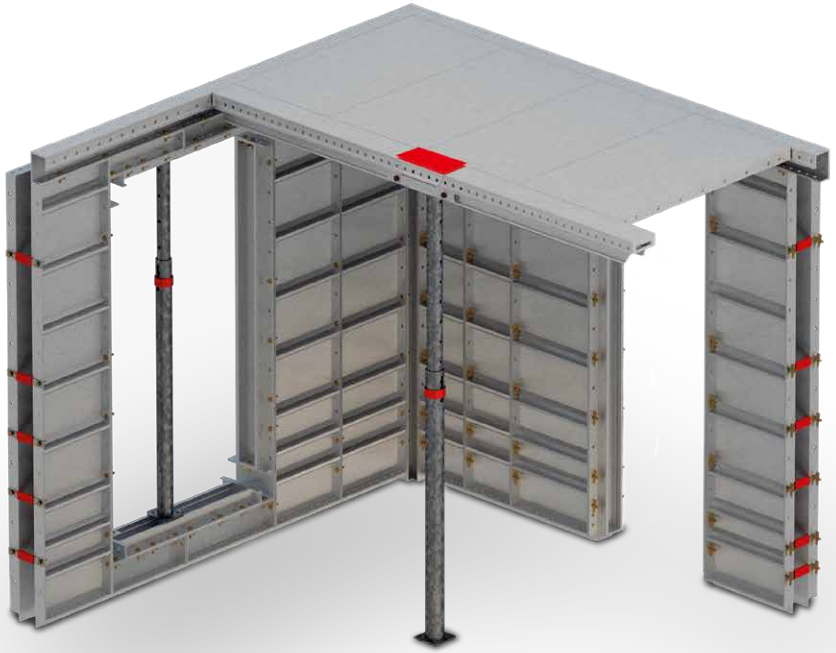
Assembly

5

Slab panels assembly is started from the corner section of the slab. Subsequently, the whole slab area is filled by pinning the slab panels to the link beams (composed of end and middle beams).

Upon completion of the installation and fixing of the wall and slab panels, a numbering sequence is prepared for each of these panels.

All ties, pins & wedges must be properly installed and secured before pouring concrete into the forms. The poured concrete should be distributed evenly throughout the wall panel section before passing to the slab.



AL-Bracket with Rail
Ensure the formwork alignment

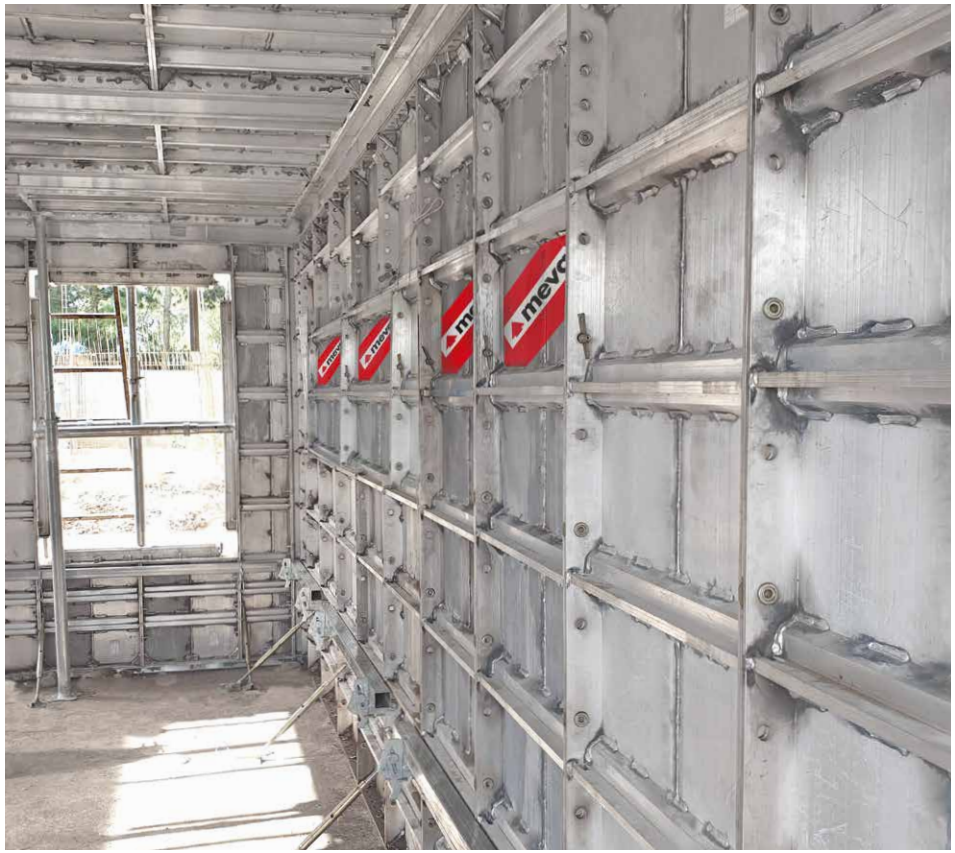
AL-Turnbuckle Bracket
Enables precise positioning of wall panels, and prevents formwork rotation

Corner-Turnbuckle Bracket
Ensure the 90° angle in the corners

Typical application

Dismantling

1 After 12 hours, the corner turnbuckle bracket, AL-Bracket with rail, AL-Turnbuckle bracket and wedges & pins can be removed.



2 The internal wall formwork is removed. The internal wall panels are moved to the upper floor through the slab opening.

Typical application

Dismantling

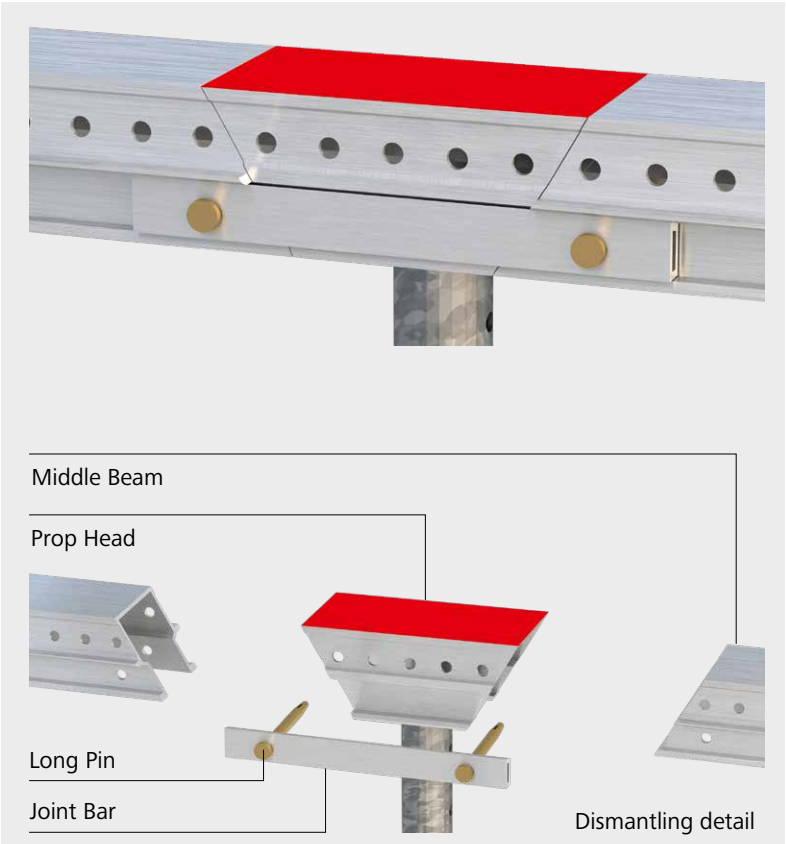
3 Tie plates and PVC sleeves are removed with a disassembly bar.

Reusable tie, 3 holes

Tie sleeve (Included with the formwork)

Dismantling detail

4 The slab panels are stripped and transferred to the next level according to the designated area and installation sequence.
Long pins, joint bar and beams are removed. Prop head remains in place to support the slab.

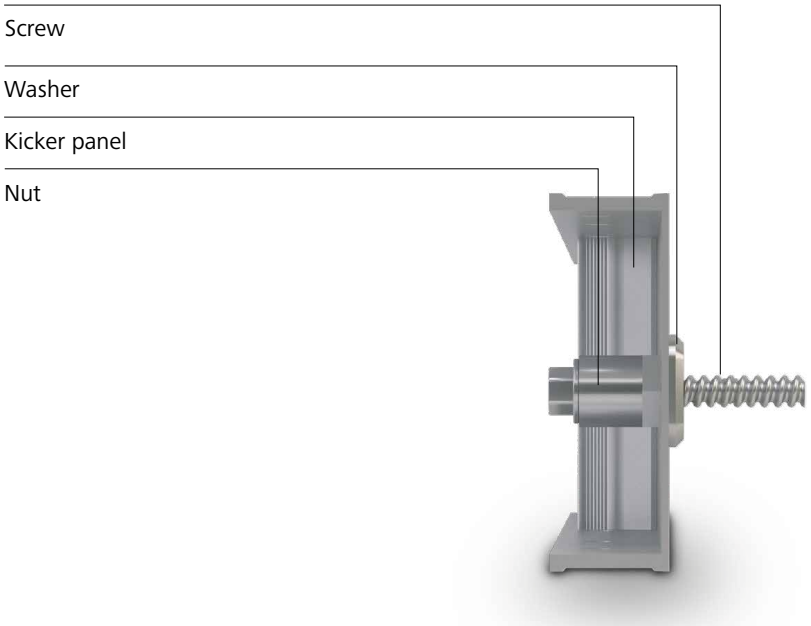


5

The external wall forms are removed, leaving in place the kicker panels. For the levels above an external working platform is fixed to the external wall. The external wall forms from the previous pour are supported by the kickers. These steps are then repeated from one floor to the next.

Allows easy removal of the wedges.

The tie sleeves provided by MEVA are recoverable. They can be removed easily with the Sleeve Remover.



Kicker panels and screws embedded in the slab provide support for next level wall formwork. All anchor parts are recoverable.

Typical application

Dismantling

6 Slab panels and slab connectors are removed and transferred to the next level.

Prop remains undisturbed after slab dismantling.

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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