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HEAVY FRAME FORMWORK

WALLS & COLUMNS

Large format panels

Consistent panel connections

A coordinated forming system

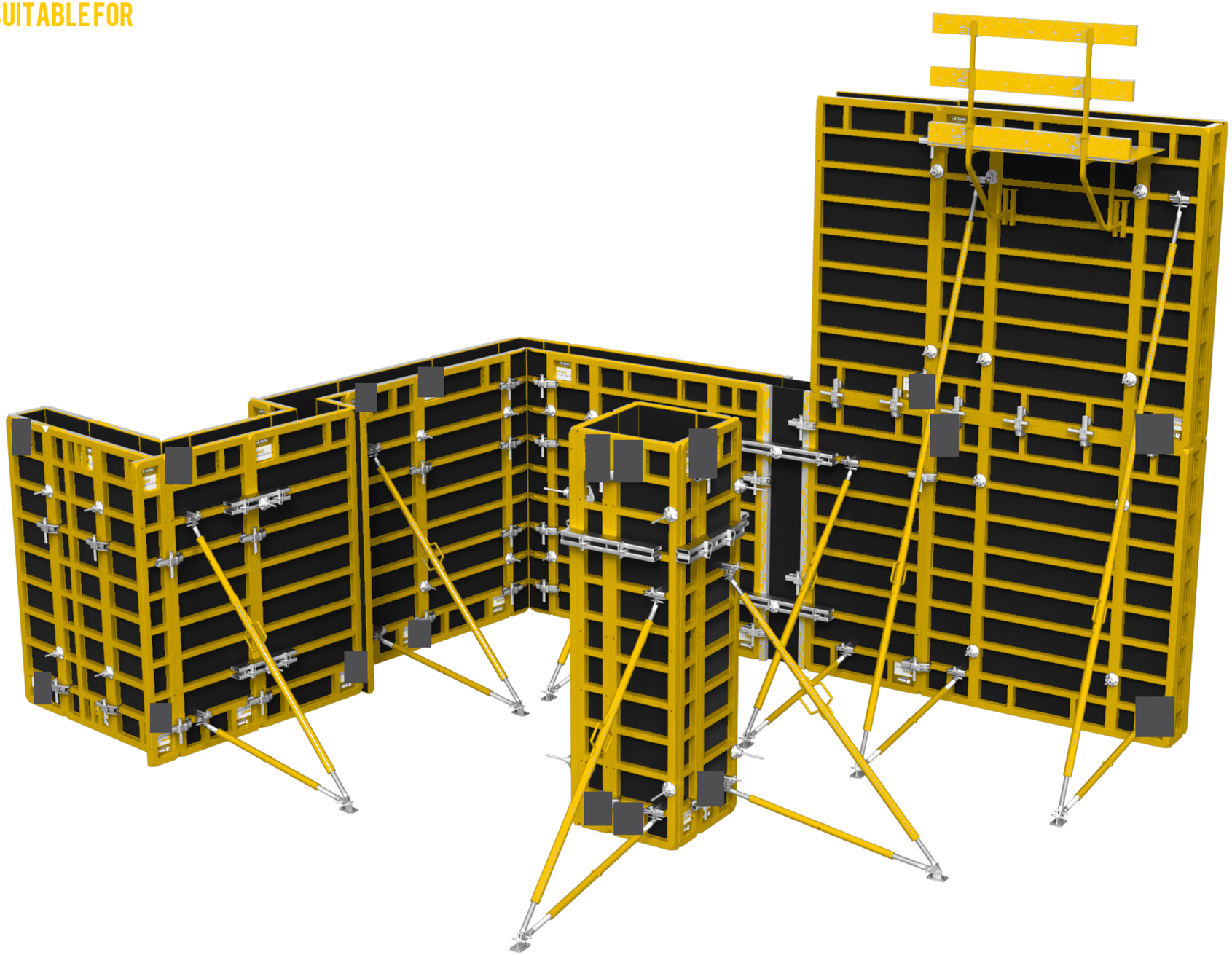
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ADJUSTABLE WALL & COLUMN FORMWORK

Steel frame panels with one alignment connection system

SKALA HEAVY FRAME FORMWORK IS SUITABLE FOR

- Foundations
- Basements and high-rise building walls
- Swimming pools
- Rectangular piers and columns
- Adjustable columns
- Windbreak structures
- Shafts and tunnels
- Reconstruction projects



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FEATURES

SKALA heavy frame formwork

WALL AND COLUMN PANELS – ONE CONNECTING SYSTEM

This heavy-duty steel frame panel system is lined with 18 mm birch film-faced plywood. Large-format panels and a consistent alignment coupler arrangement simplify crane-assisted assembly on medium and large projects.

LARGE-AREA FORMING

Standard panels extend to 3.3 x 2.4 m. The illustrated connection joins two panels with four couplers.

EASY AND CONSISTENT CONNECTIONS

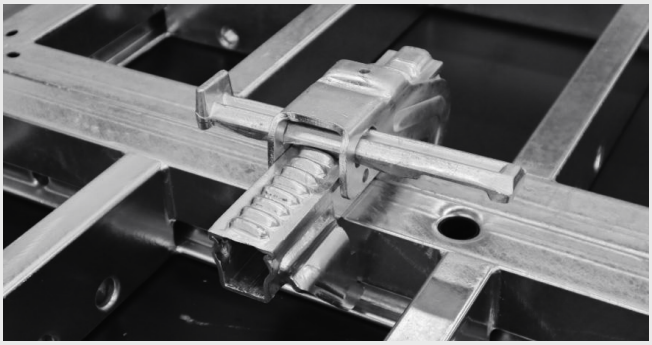
The same adjustable alignment coupler serves the illustrated panel joints.

ADJUSTABLE ALIGNMENT COUPLER

A 150 mm adjustment function accommodates the illustrated timber and plywood compensation sections.

ADJUSTABLE COLUMN PANELS

Four 3.3 x 0.72 m MM panels form column sizes in 50 mm increments.





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FULL-PIECE BIRCH PLYWOOD FACING

The 18 mm birch film-faced plywood provides the concrete contact surface. Resin-bonded birch veneers form a strong, durable sheet with a smooth, low-defect surface and good screw holding capacity.

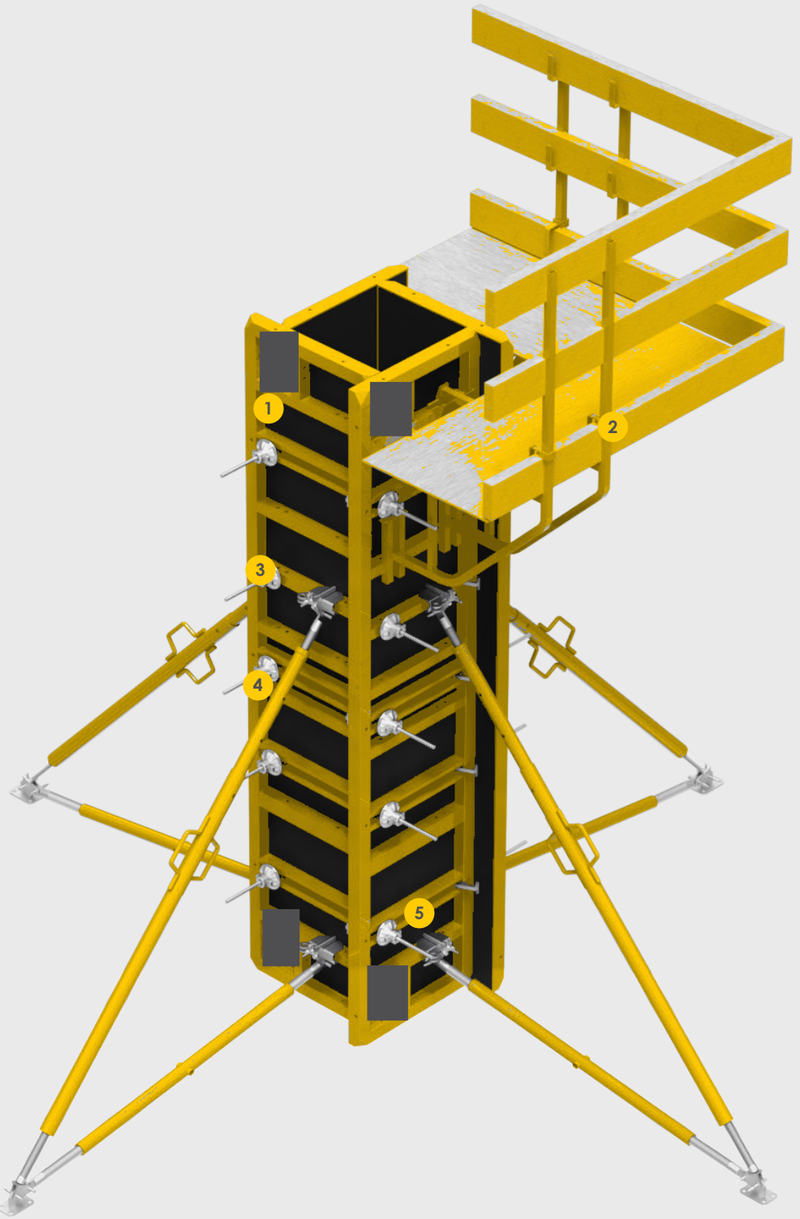
COORDINATED JOINTS AND TIE LOCATIONS

Central tie positions and an orderly panel joint layout help create a regular pattern in the finished concrete.

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SYSTEM OVERVIEW

SKALA column heavy frame formwork

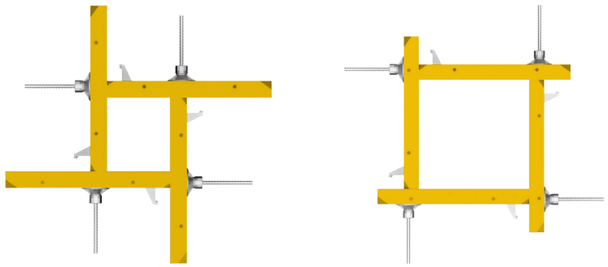


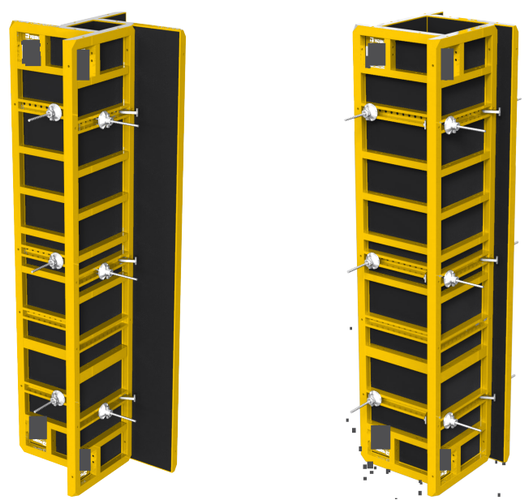
1. MM panel
2. Walking bracket
3. Big Plate Nut D15
4. Stopend tie
5. Push-pull prop

ADJUSTABLE FUNCTION

Four 3.3 x 0.72 m adjustable panels form column sizes in 50 mm increments.

PLAN VIEWS

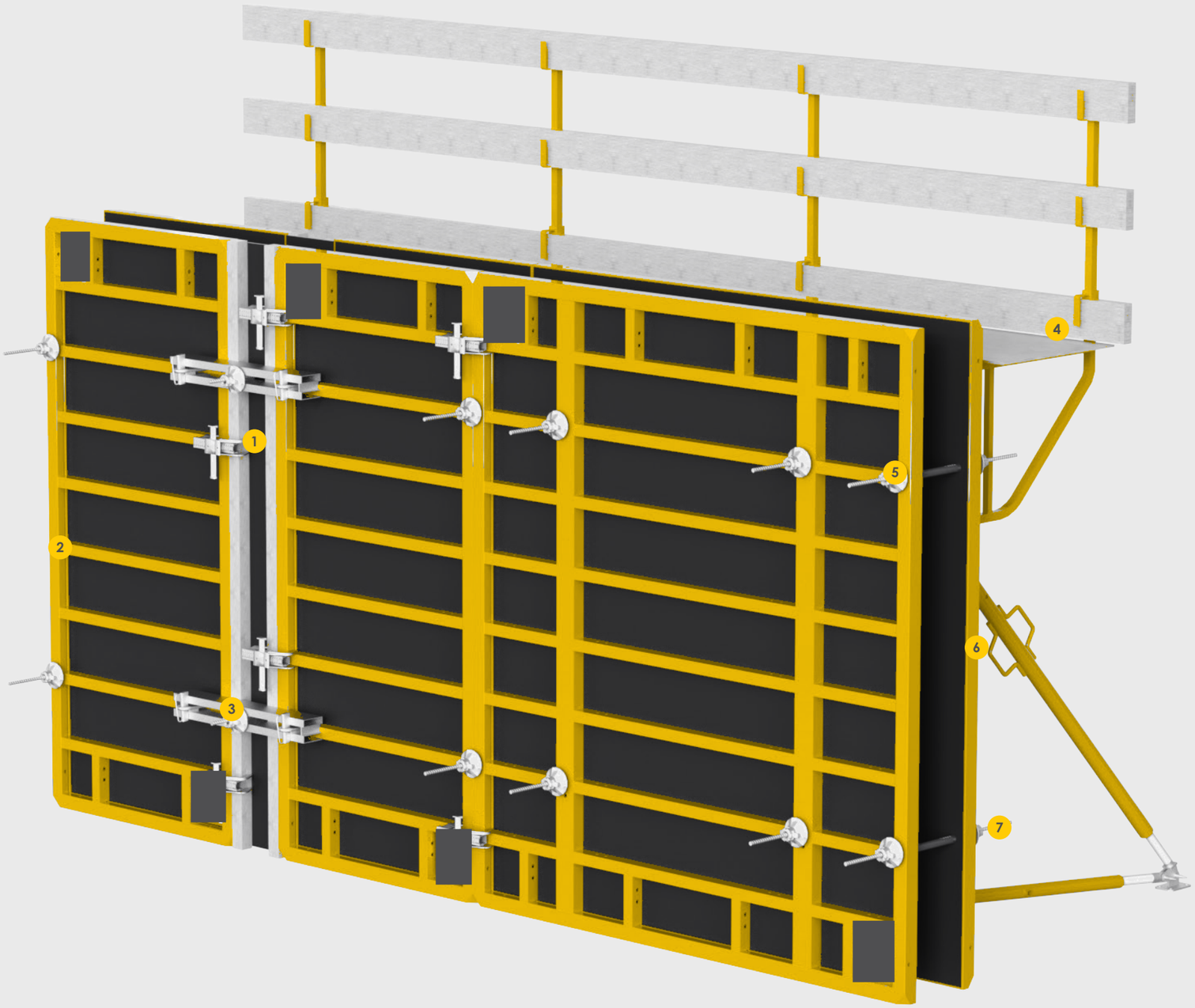




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SYSTEM OVERVIEW

SKALA shear wall heavy frame formwork

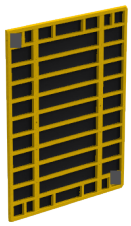


1. Adjustable alignment coupler
2. M panel
3. Steel waling 85
4. Walking bracket
5. Big plate nut
6. Push-pull prop
7. Tie rod

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PANEL SIZE RANGE

M panels - 330 cm and 270 cm heights

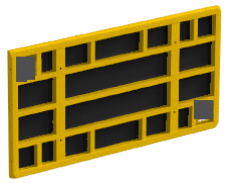
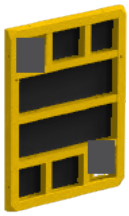
SIZE: HEIGHT x WIDTH (cm) / UNIT WEIGHT (kg)		
 S: 330 x 240 cm W: 398.00 kg	 S: 330 x 120 cm W: 195.00 kg	 S: 330 x 90 cm W: 140.00 kg
 S: 330 x 72 cm W: 119.00 kg	 S: 330 x 60 cm W: 107.00 kg	 S: 330 x 30 cm W: 74.20 kg
 S: 270 x 240 cm W: 329.00 kg	 S: 270 x 120 cm W: 162.00 kg	 S: 270 x 90 cm W: 115.00 kg
 S: 270 x 72 cm W: 97.60 kg*	 S: 270 x 60 cm W: 87.70 kg	 S: 270 x 30 cm W: 60.60 kg

* M 270/72 is listed at 97.60 kg in the range graphic and 67.60 kg in the component schedule. Confirmation notes appear on page 14.

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PANEL SIZE RANGE

M panels - 120 cm and 60 cm heights

SIZE: HEIGHT x WIDTH (cm) / UNIT WEIGHT (kg)		
 S: 120 x 240 cm W: 163.00 kg	 S: 120 x 120 cm W: 76.30 kg	 S: 120 x 90 cm W: 58.20 kg
 S: 120 x 72 cm W: 48.60 kg	 S: 120 x 60 cm W: 43.40 kg	 S: 120 x 30 cm W: 28.40 kg
No panel listed in the source range	 S: 60 x 120 cm W: 43.40 kg	 S: 60 x 90 cm W: 34.70 kg
 S: 60 x 72 cm W: 29.10 kg	 S: 60 x 60 cm W: 25.90 kg	 S: 60 x 30 cm W: 15.70 kg

Six M panel widths are listed: 240, 120, 90, 72, 60 and 30 cm. Published maximum permissible concrete pressure: 80 kN/m².

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CORNERS AND ADJUSTABLE PANELS

MM panel formats and internal corner profiles



MM Panel 330/72

3300 x 720 mm

133.00 kg



MM Panel 270/72

2700 x 720 mm

103.00 kg



MM Panel 120/72

1200 x 720 mm

56.20 kg



INNER CORNER RANGE

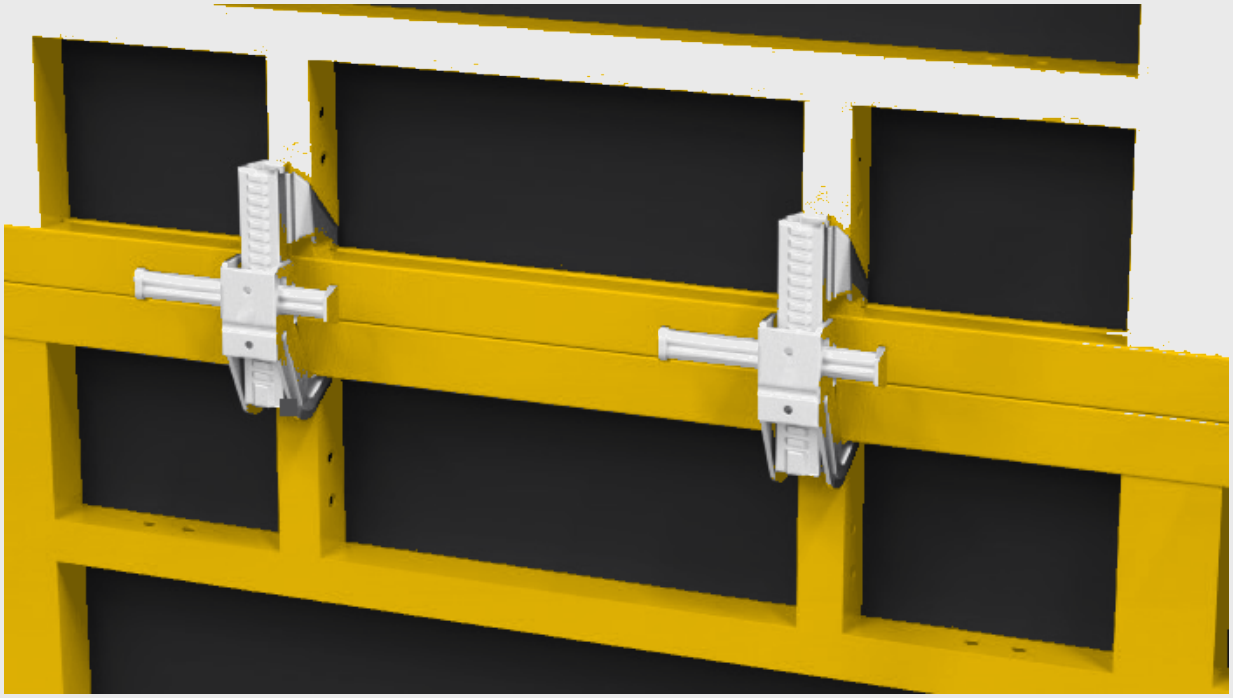
Reference	kg	mm
330/30/30	104.14	3300/300/300
270/30/30	85.70	2700/300/300
120/30/30	40.30	1200/300/300
60/30/30	22.50	600/300/300

Panel and corner finishes are identified as powder coated in the component schedule.

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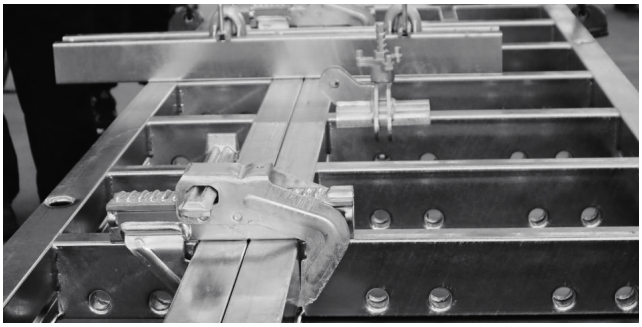
PANEL CONNECTIONS AND COMPENSATION

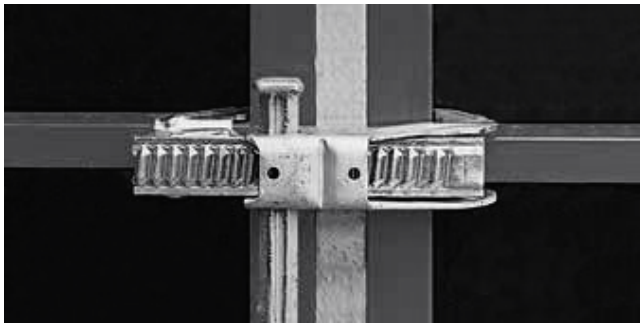
Timber and plywood filler details



ALIGNMENT ACROSS A FILLER SECTION

The adjustable coupler connects the panel arrangement shown above. Timber and plywood form the illustrated compensation section between adjacent panels.





SKALA

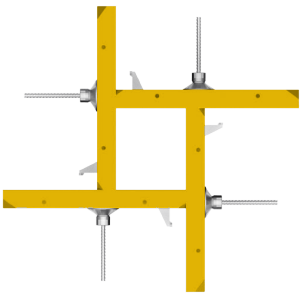
APPLICATIONS

Column system details



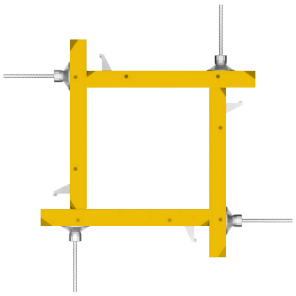
MM ADJUSTABLE PANEL

3.3 x 0.72 m panel format. The corresponding unit weight is 133.00 kg.



ADJUSTABLE PLAN ARRANGEMENT

Column dimensions are formed in 50 mm increments using four adjustable panels.



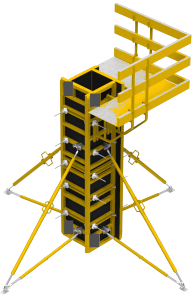
CLOSED PLAN ARRANGEMENT

The source provides both offset and closed column plan illustrations.



CONNECTED COLUMN PANELS

The illustrated assembly uses MM panels, ties and big plate nuts.



BRACED COLUMN CONFIGURATION

Walking brackets and push-pull props are identified in the complete system view.

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APPLICATIONS

Wall system details



M PANEL

The largest listed M panel measures 3300 x 2400 mm.



ALIGNMENT CONNECTION

The adjustable alignment coupler has a source unit weight of 4.58 kg.



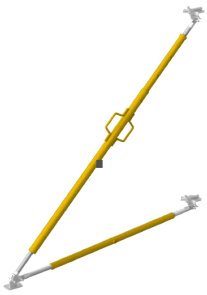
WALKING BRACKET

Source unit weight: 12.65 kg. Powder-coated finish.



TIE AND BIG PLATE NUT

The D15 tie rod and Big Plate Nut D15 are shown in the wall assembly.



PUSH-PULL PROP

Push-pull prop 300: source unit weight 37.58 kg, powder-coated finish.

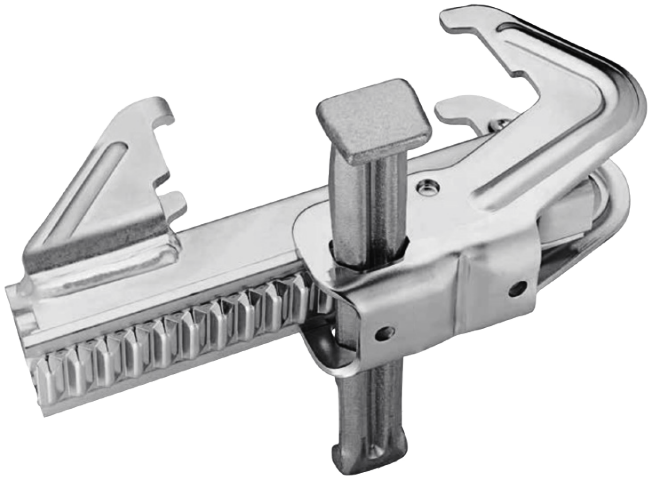
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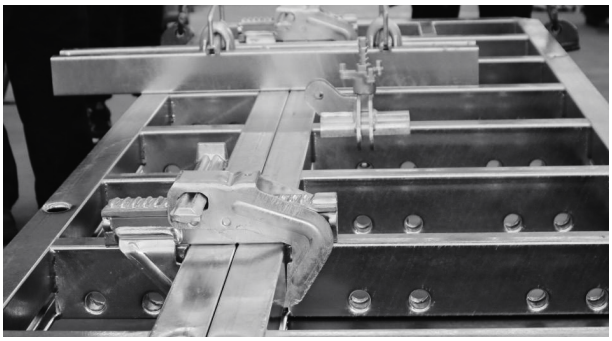
STANDARD APPLICATIONS AND DETAILS

Adjustable alignment coupler

A single connection component aligns adjacent panel edges and tightens the joint in the same operation.

- Consistent alignment for the illustrated vertical and horizontal panel connections.
- Used for standard panel joints, multipurpose panel connections, compensation sections and extensions.
- Adjustment function: 150 mm.

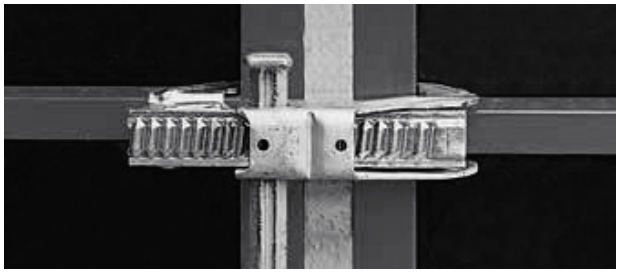




Vertical and horizontal panel joints



Hammer fastening



Timber and plywood compensation

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PANEL CONSTRUCTION AND FACING

Frame details and birch plywood



BIRCH FILM-FACED PLYWOOD

18 mm resin-bonded birch plywood forms the concrete contact surface. The material is described as strong and durable, with a smooth, low-defect face, impact resistance and good screw holding capacity.



TECHNICAL DATA CHECKS

Weights to confirm: the original narrative states a maximum M panel weight of 328 kg, while the range and schedule list M 330/240 at 398.00 kg (M 270/240: 329.00 kg). M 270/72 appears as 97.60 kg in the range and 67.60 kg in the schedule. Confirm conflicting values before ordering, lifting or transport planning.

Data basis: technical values and system illustrations are transcribed from the supplied original manufacturer documentation. SKALA branding identifies this catalogue edition. The published system pressure limit is 80 kN/m²; project use follows confirmed manufacturer data and the approved formwork design. The range lists six widths, although the original narrative says four.

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COMPONENTS

Panels, corners and accessories

Description	kg	mm
M Panel 330/240	398.00	3300 x 2400
M Panel 330/120	195.00	3300 x 1200
M Panel 330/90	140.00	3300 x 900
M Panel 330/72	119.00	3300 x 720
M Panel 330/60	107.00	3300 x 600
M Panel 330/30	74.20	3300 x 300
M Panel 270/240	329.00	2700 x 2400
M Panel 270/120	162.00	2700 x 1200
M Panel 270/90	115.00	2700 x 900
M Panel 270/72	67.60*	2700 x 720
M Panel 270/60	87.70	2700 x 600
M Panel 270/30	60.60	2700 x 300
M Panel 120/240	163.00	1200 x 2400
M Panel 120/120	76.30	1200 x 1200
M Panel 120/90	58.20	1200 x 900
M Panel 120/72	48.60	1200 x 720
M Panel 120/60	43.40	1200 x 600
M Panel 120/30	28.40	1200 x 300
M Panel 60/120	43.40	600 x 1200
M Panel 60/90	34.70	600 x 900
M Panel 60/72	29.10	600 x 720
M Panel 60/60	25.90	600 x 600
M Panel 60/30	15.70	600 x 300

Adjustable panels	kg	mm
MM Panel 330/72	133.00	3300 x 720
MM Panel 270/72	103.00	2700 x 720
MM Panel 120/72	56.20	1200 x 720

Inner corners	kg	mm
330/30/30	104.14	3300/300/300
270/30/30	85.70	2700/300/300
120/30/30	40.30	1200/300/300
60/30/30	22.50	600/300/300

	Description / finish	kg
	Panel Plug Plastic	0.01
	Adjustable Alignment Coupler AAC Zinc coated	4.58
	PVC tube D15 PVC	0.22
	PP cone D15 PP	0.01
	Tie Rod D15 Colour zinc coated	1.50
	Big Plate Nut D15 Colour zinc coated	1.66
	Stopend tie Zinc coated	1.14
	Steel waling 85 Zinc coated	12.30
	Walking bracket Powder coated	12.65
	Push-pull prop 300 Powder coated	37.58

* 67.60 kg is the schedule value; the range lists 97.60 kg. See page 14. Accessory lengths are not specified in the original schedule.

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SOLUTIONS

HEAVY FRAME FORMWORK

WALLS & COLUMNS

Large format panels
Consistent panel connections
A coordinated forming system

QATAR
Doha, Qatar

KUWAIT
Hawla, Kuwait

LEBANON
Antoura, Lebanon

KSA
Riyadh, KSA

UAE
Dubai, UAE

IVORY COAST
Abidjan, Ivory Coast

ROMANIA
Iasi, Romania

KYRGYZSTAN
Bishkek, Kyrgyzstan

INTERNATIONAL

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