SKALA

SKALA FRAME FORMWORK

COLUMNS & WALLS

Extended Service Life
Superior Concrete Finish
Engineered for Reuse

www.skalasolutions.com

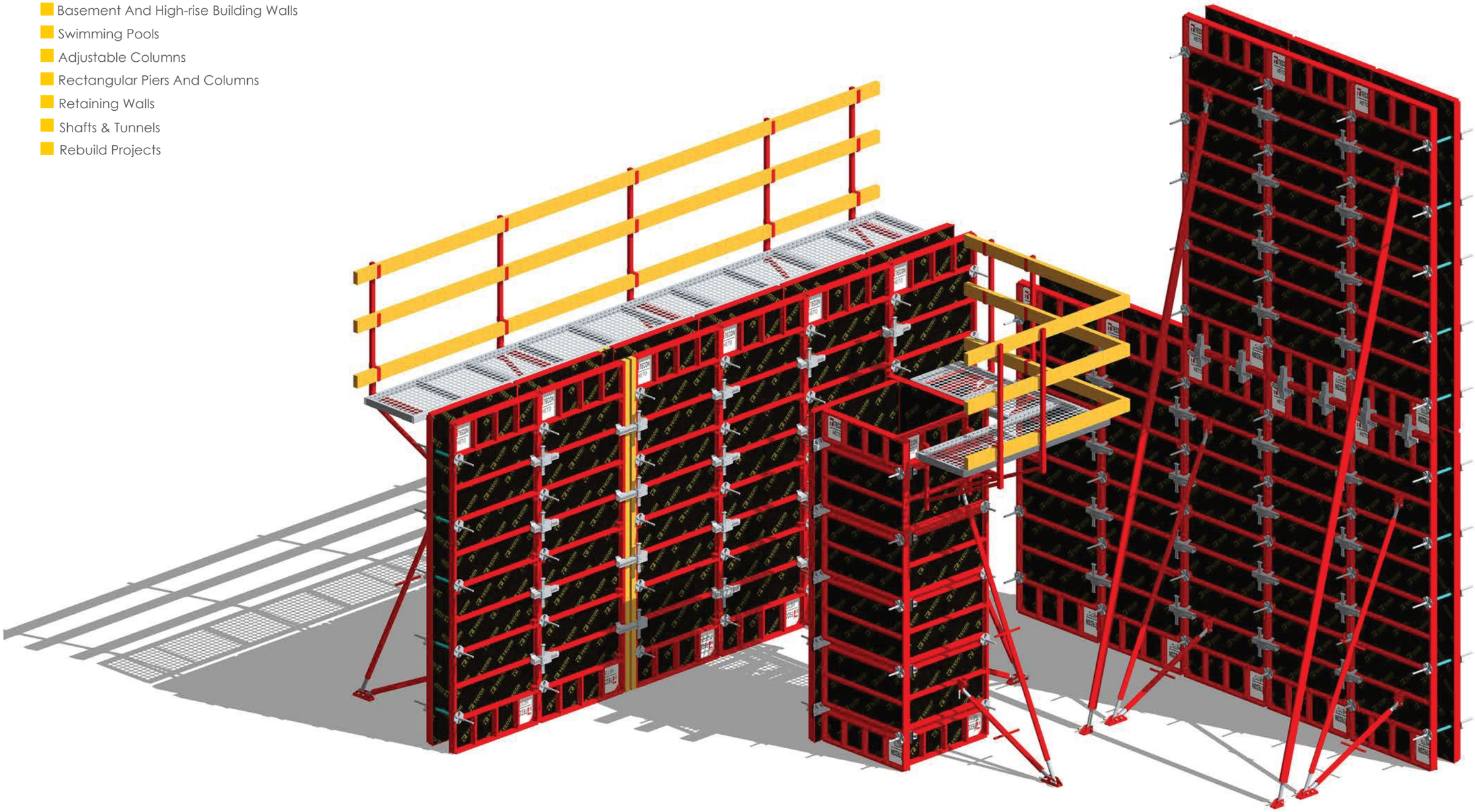
SKALA

ADJUSTABLE WALL & COLUMN FORMWORK

PANELS WITH ONLY ONE CONNECTING PART

SKALA WALL FRAME FORMWORK IS SUITABLE FOR

- Foundations
- Basement And High-rise Building Walls
- Swimming Pools
- Adjustable Columns
- Rectangular Piers And Columns
- Retaining Walls
- Shafts & Tunnels
- Rebuild Projects



FEATURES

SKALA Wall Frame Formwork

ADJUSTABLE WALL AND COLUMN FORMWORK

Panels With Only One Connecting Part

SKALA FRAME formwork is a steel frame panel system lined with 12mm birch film-faced-plywood, universal and high efficient for walls in medium to big scale projects under crane assistance. With the alignment coupler for all panel connections, it ensures very fast site assembly.

LARGE-AREA SHUTTERING

With standard panel sizes up to 3 x 1 m – 2 panels connection only by 4 couplers, very efficient on assembly job

EASY AND SIMPLE CONNECTIONS

With the alignment coupler as the only component for all panel connections

ADJUSTABLE ALIGNMENT COUPLER

Adjustment ranges from 0mm to 150mm, connects with plywood or timber to use as filler plate.

ADJUSTABLE PANEL

With 50mm adjust modulus, one panel can make as several sizes, easy to reuse to further project





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FULL PIECE BIRCH PLYWOOD, AND REPLACEABLE

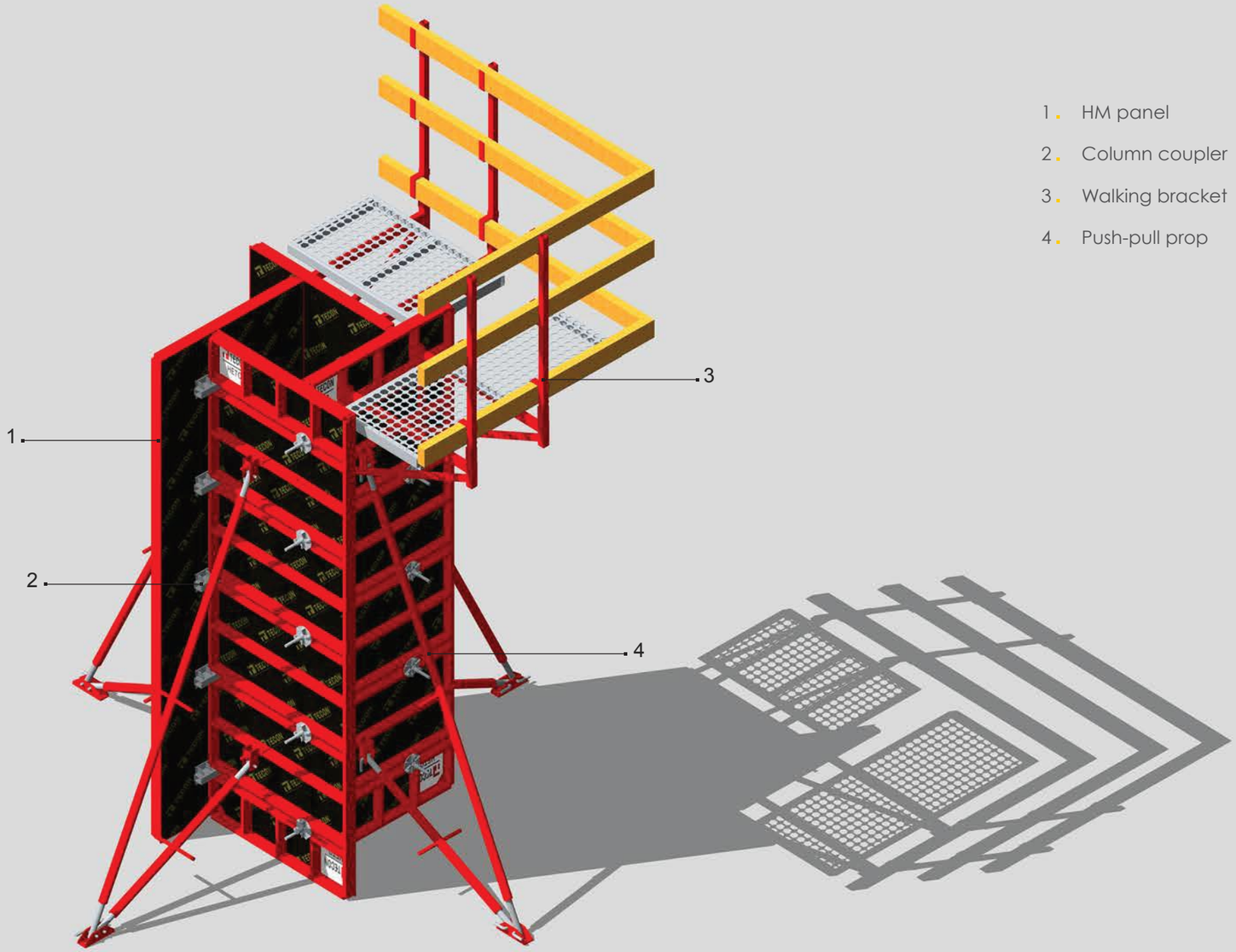
Complete SKALAFORM birch shuttering ensures prolonged service life and produces high quality concrete finishing. Cost saving due to its replaceable.

EASY AND FAST OPERATIONS

With minimum panel widths as well as panels heights that can be used both horizontally and vertically.

SYSTEM OVERVIEW

SKALA COLUMN FRAME FORMWORK

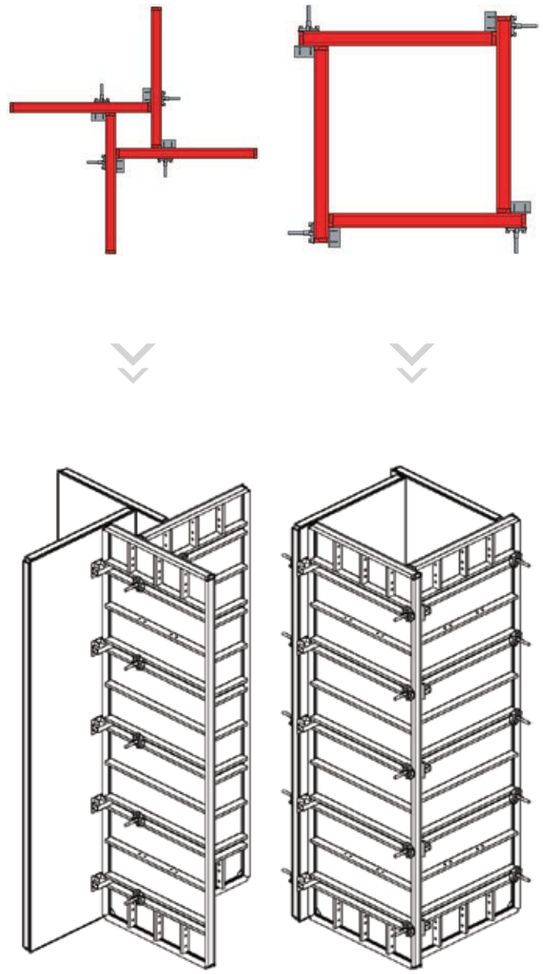


1. HM panel
2. Column coupler
3. Walking bracket
4. Push-pull prop

ADJUSTABLE FUNCTION

4 pieces of 3x1m adjustable panels
columns sizes from 50x50mm to 850x850mm
can be formed in 50mm increments.

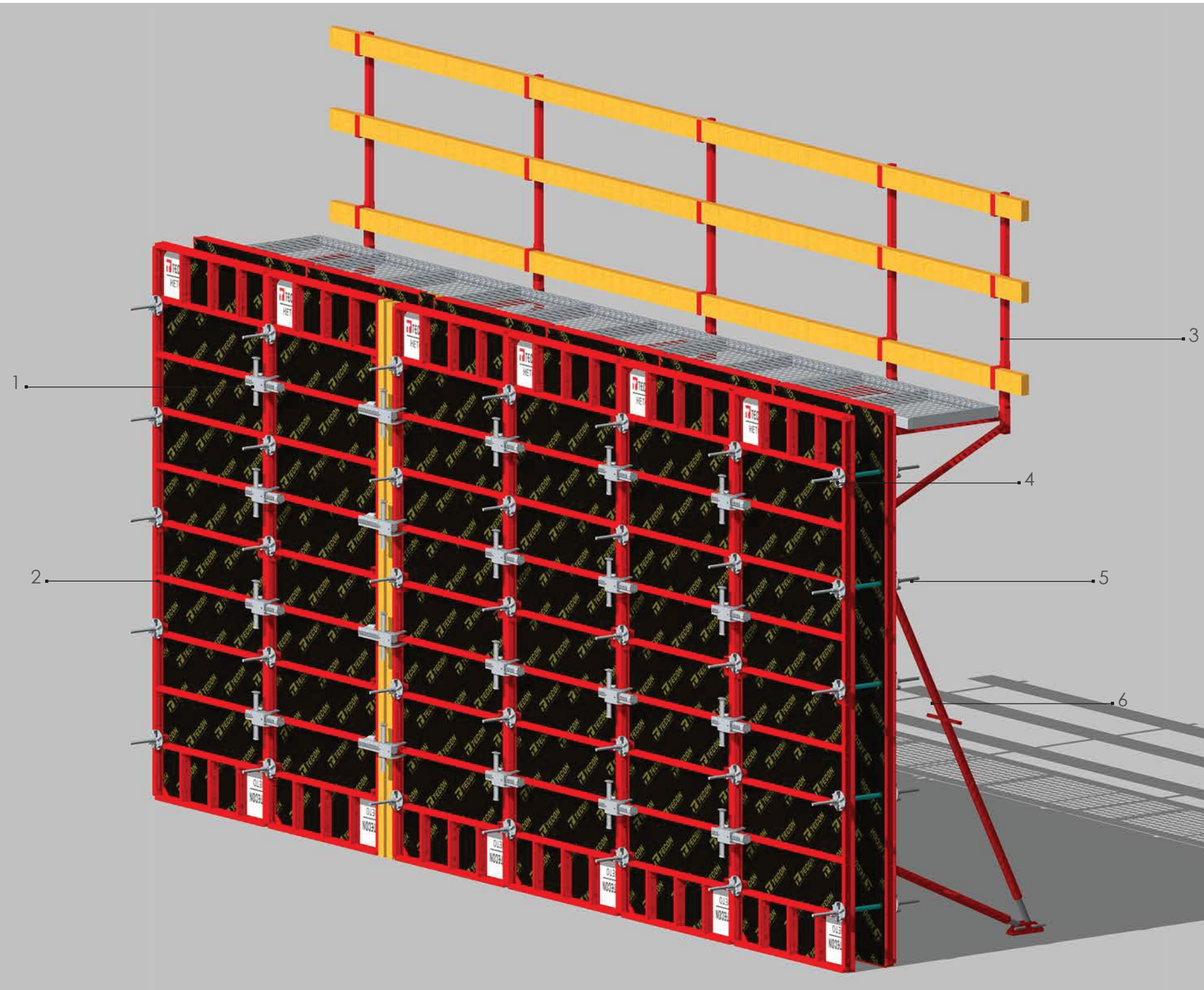
PLAN VIEW



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SYSTEM OVERVIEW

SKALA SHEAR WALL FRAME FORMWORK



1. HC ALIGNMENT COUPLER
2. H PANEL
3. WALKING BRACKET
4. BIG PLATE NUT
5. TIE ROD
6. PUSH-PULL PROP

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AN OVERVIEW OF THE SKALA FRAME SIZES RANGE OF PANELS

Biggest HM panel is 3*1m in 120.94kg with 80KN/sqm permissible fresh concrete pressure.
Biggest H panel is 3*1m in 95.54kg with 60KN/sqm permissible fresh concrete pressure.
With 4 panel widths, virtually all ground plans can be formed
Customized size is acceptable.

HM Panel		Width			
		100	75	60	35
Height	300	 S:300x100 W;120.94kg	 S:300x75 W;94.68kg	 S:300x60 W;80.08kg	 S:300x35 W;53.87kg
	240	 S:240x100 W;98.49kg	 S:240x75 W;76.95kg	 S:240x60 W;65.19kg	 S:240x35 W;43.69kg
	180	 S:180x100 W;61.25kg	 S:180x75 W;48.66kg	 S:180x60 W;42.4kg	 S:180x35 W;29.81kg
	120	 S:120x100 W;55.53kg	 S:120x75 W;41.46kg	 S:120x60 W;35.35kg	 S:120x35 W;23.29kg

H Panel		Width			
		100	75	60	35
Height	300	 S:300x100 W;95.54kg	 S:300x75 W;76.5kg	 S:300x60 W;66.35kg	 S:300x35 W;47.31kg
	240	 S:240x100 W;78.05kg	 S:240x75 W;62.23kg	 S:240x60 W;54.03kg	 S:240x35 W;38.21kg
	180	 S:180x100 W;61.25kg	 S:180x75 W;48.66kg	 S:180x60 W;42.4kg	 S:180x35 W;29.81kg
	120	 S:120x100 W;43.73kg	 S:120x75 W;34.38kg	 S:120x60 W;30.05kg	 S:120x35 W;20.69kg

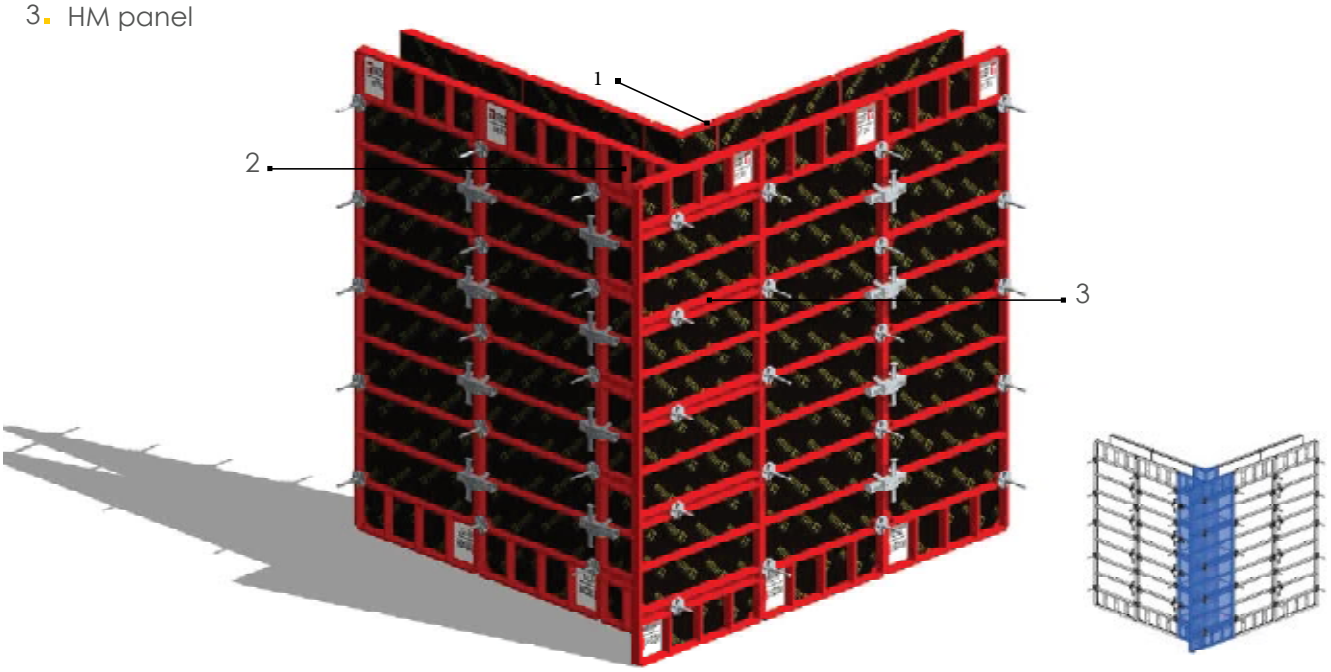
NOTICE: ALL THE PANELS MADE OF Q345, WITH 12MM BIRCH PLYWOOD, POWERD COATED IN RED.

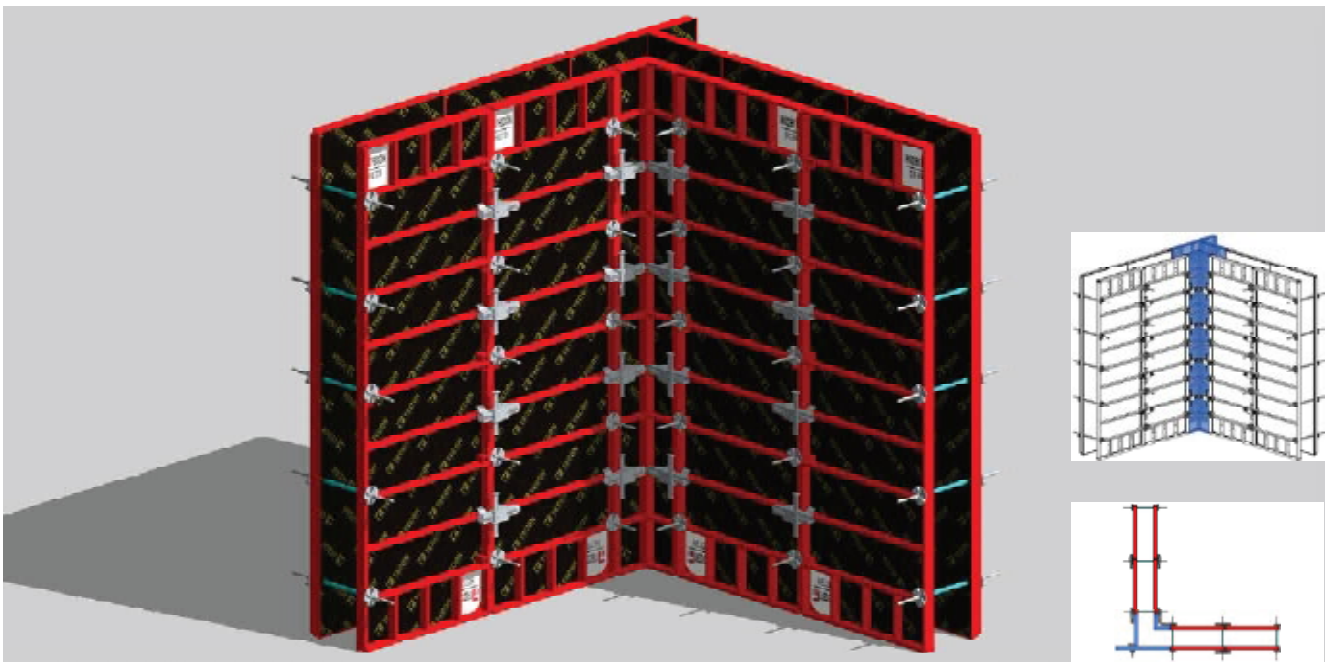
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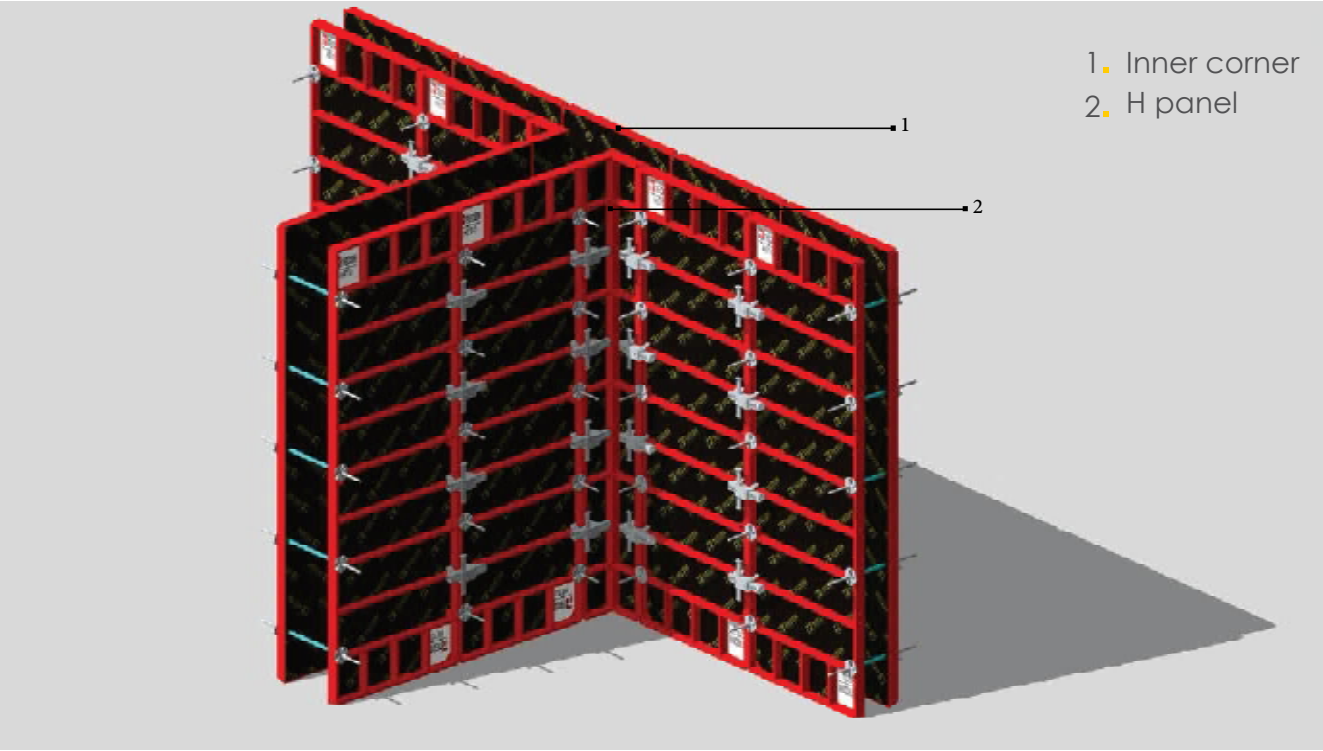
CORNERS, COMPENSATIONS AND WALL CONNECTIONS

90° Corners

1. Inner corner
2. H panel
3. HM panel

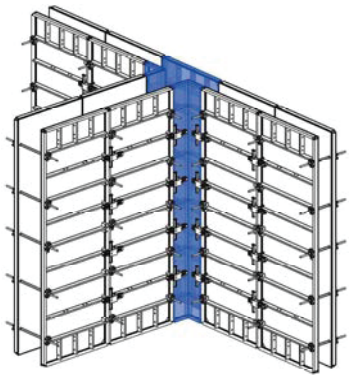


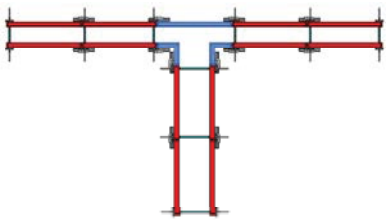




T-Junction

For T-Junction connections HETO requires only a minimum of system components.



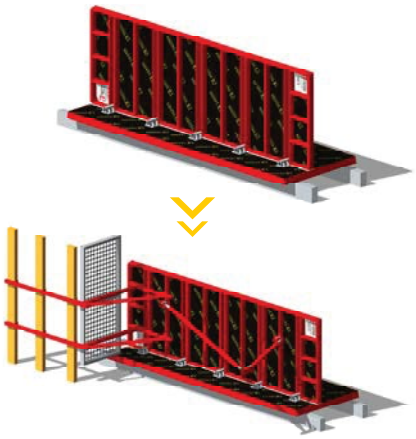


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APPLICATIONS

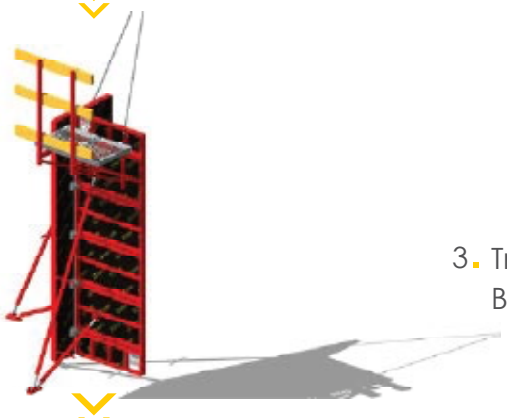
Assembly process

- Corners



1. Assemble 2 HM panels into L shape

2. Assemble components including walking bracket, push-pull props, etc



3. Transport L Shaped Formwork By Tower Crane To Right Position

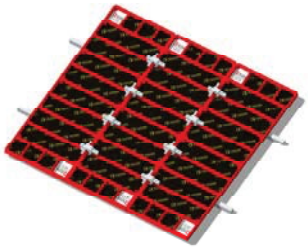


4. Repeat Step 1 And Step 2, Transport Another Set Of L Shaped Formwork

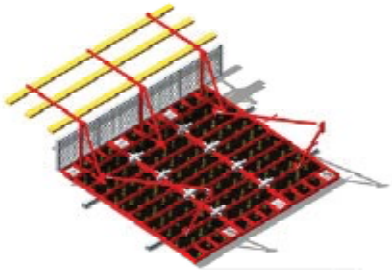


5. Connect 2 L Shaped Formworks With Column Coupler, Finish Assembly

Wall



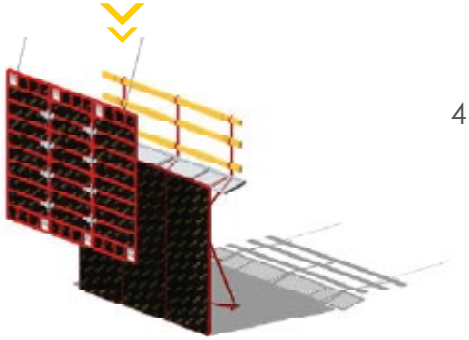
1. Positioning And Assemble First Side Of Wall Formwork With H Panels



2. Assemble Components Including Push-pull Props, Walking Bracket, Etc



3. Transport First Side Formwork To Right Position By Tower Crane



4. Repeat Step 1 And Step 2, transport another side of formwork



5. Insert Tie Rod And Pvc Tube, Adjusting Them According To Wall Thickness, Fix Big Plate Nuts On Tie Rod For Both Sides Then Finish Assembly

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STANDARD APPLICATIONS AND EXECUTION DETAILS

The Hc Alignment Coupler Was Designed Specifically For The Skala Frame Formwork With 3 Advantages

- Aligned The Formwork Elements And Tight In A Sinlge Operation. The Extremely Accurate Alignment Thus Provides The Very Best Formwork Results Day After Day
- The Hc Alignment Coupler Is Used For Standard Panel Joints Multi-purpose Panels Connection, Timber Compensations And Extensions
- With An Adjustable Function 150mm





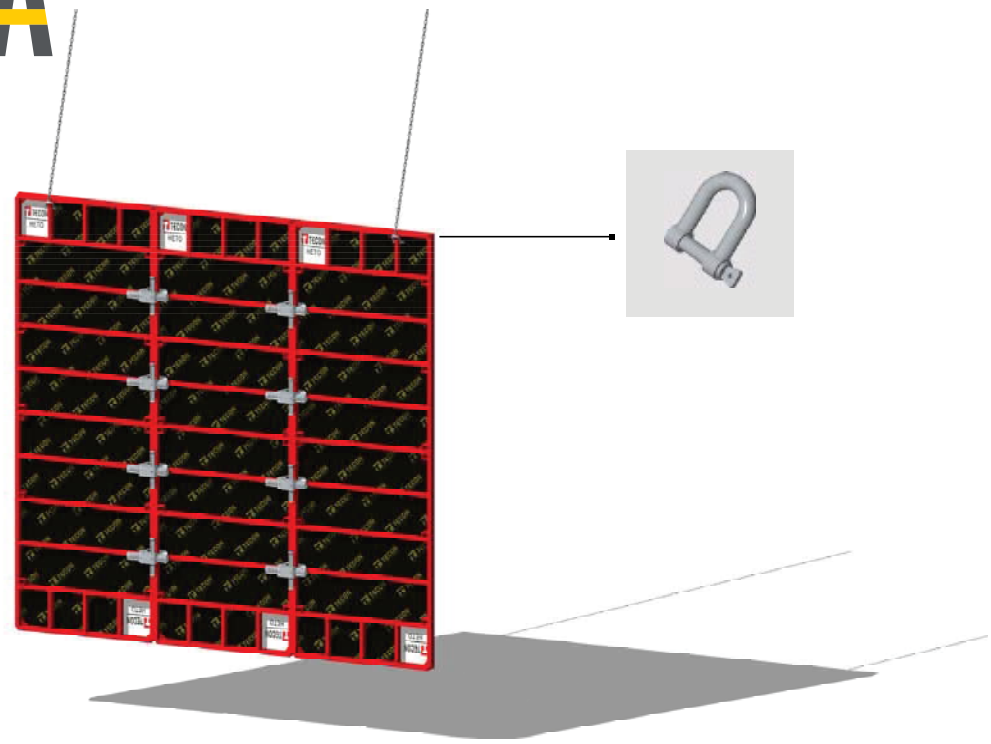
One Component for all vertical & horizontal connections



Easy fasten with Hammer



Alignment & Adjustable



HETO LIFTING HOOK

Load Capacity For Skala Lifting Hook Is Up To 500 Kg. Big Size Panels Can Be Moved Vertically Together Easily Via This Hook. Usually 2 Lifting Hooks For Each Panel Units During Site Transportation.





SKALAFORM BIRCH (BIRCH PLYWOOD)

Birch Plywood Consist Of Several Sheets Of Birch Veneer Glued Together With Resin. It Is Famous For Its Excellent Strength And Durability.

The Surface Of Birch Plywood Is Nearly Free Of Gaps And Other Defects Which Gives It Impact Resisctance, Smooth Surface, Great Screw Holding Power And Can Therefore Be Used For Building Construction.

	Description	Unit Weight (kg)	Size
 powder coated	HM Panel 300/100	120.94	3000x1000mm
	HM Panel 300/75	94.68	3000x750mm
	HM Panel 300/60	80.08	3000x600mm
	HM Panel 300/35	53.87	3000x350mm
	HM Panel 240/100	98.49	2400x1000mm
	HM Panel 240/75	76.95	2400x750mm
	HM Panel 240/60	65.19	2400x600mm
	HM Panel 240/35	43.69	2400x350mm
	HM Panel 180/100	76.01	1800x1000mm
	HM Panel 180/75	59.20	1800x750mm
	HM Panel 180/60	50.27	1800x600mm
	HM Panel 180/35	33.49	1800x350mm
	HM Panel 120/100	53.53	1200x1000mm
	HM Panel 120/75	41.46	1200x750mm
	HM Panel 120/60	35.35	1200x600mm
	HM Panel 120/35	23.29	1200x350mm

	Description	Unit Weight (kg)	Size
 powder coated	H Panel 300/100	95.54	3000x1000mm
	H Panel 300/75	76.50	3000x750mm
	H Panel 300/60	66.35	3000x600mm
	H Panel 300/35	47.31	3000x350mm
	H Panel 240/100	78.05	2400x1000mm
	H Panel 240/75	62.23	2400x750mm
	H Panel 240/60	54.03	2400x600mm
	H Panel 240/35	38.21	2400x350mm
	H Panel 180/100	61.25	1800x1000mm
	H Panel 180/75	48.66	1800x750mm
	H Panel 180/60	42.40	1800x600mm
	H Panel 180/35	29.81	1800x350mm
	H Panel 120/100	43.73	1200x1000mm
	H Panel 120/75	34.38	1200x750mm
	H Panel 120/60	30.05	1200x600mm
	H Panel 120/35	20.69	1200x350mm

	Description	Unit Weight (kg)	Size
 powder coated	Inner Corner 300	84.23	Inside Corner 300x300mm
	Inner Corner 240	67.71	Inside Corner 300x300mm
	Inner Corner 180	51.19	Inside Corner 300x300mm
	Inner Corner 120	34.65	Inside Corner 300x300mm

	Description	Unit Weight (kg)	Size
 plastic	Panel plug 0.01		For sealing tie holes Ø20mm, which are not required
 plastic	Corner sealing strip	1.63	3m
		1.30	2.4m
		0.98	1.8m
		0.65	1.2m
 zine coated	HC Alignment coupler 4.35		For all panel connections
 zine coated	Column coupler2.70		For corner connector
 powder coated	Steel waling 1207.60		For length compensations, height extensions, stopend formwork and special applications
 zine coated Thread D15	Stopend tie1.50		For transferring forces from the stopend formwork to the panels
 powder coated	Walking bracket 13.82		For assembly of working and concreting scaffolds

	Description	Unit Weight (kg)	Size
 powder coated	Formwork panel	hook0.27	Lifting hook
 zine coated	Tie rod	0.90 D15,	L=600 mm
 zine coated	Big plate	nut0.72	D15
 powder coated	Push-Pull Prop 229-280 30.32		2.29-2.80m / 1.09-1.55m adjustable length
	Push-Pull Prop 339-390 35.11		3.39-3.90m / 1.09-1.55m adjustable length
	Push-Pull Prop 555-583 49.19		5.55-5.83m / 2.29-2.80m adjustable length

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SOLUTIONS

SKALA FRAME FORMWORK

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IVORY COAST Abidjian, Ivory Coast
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