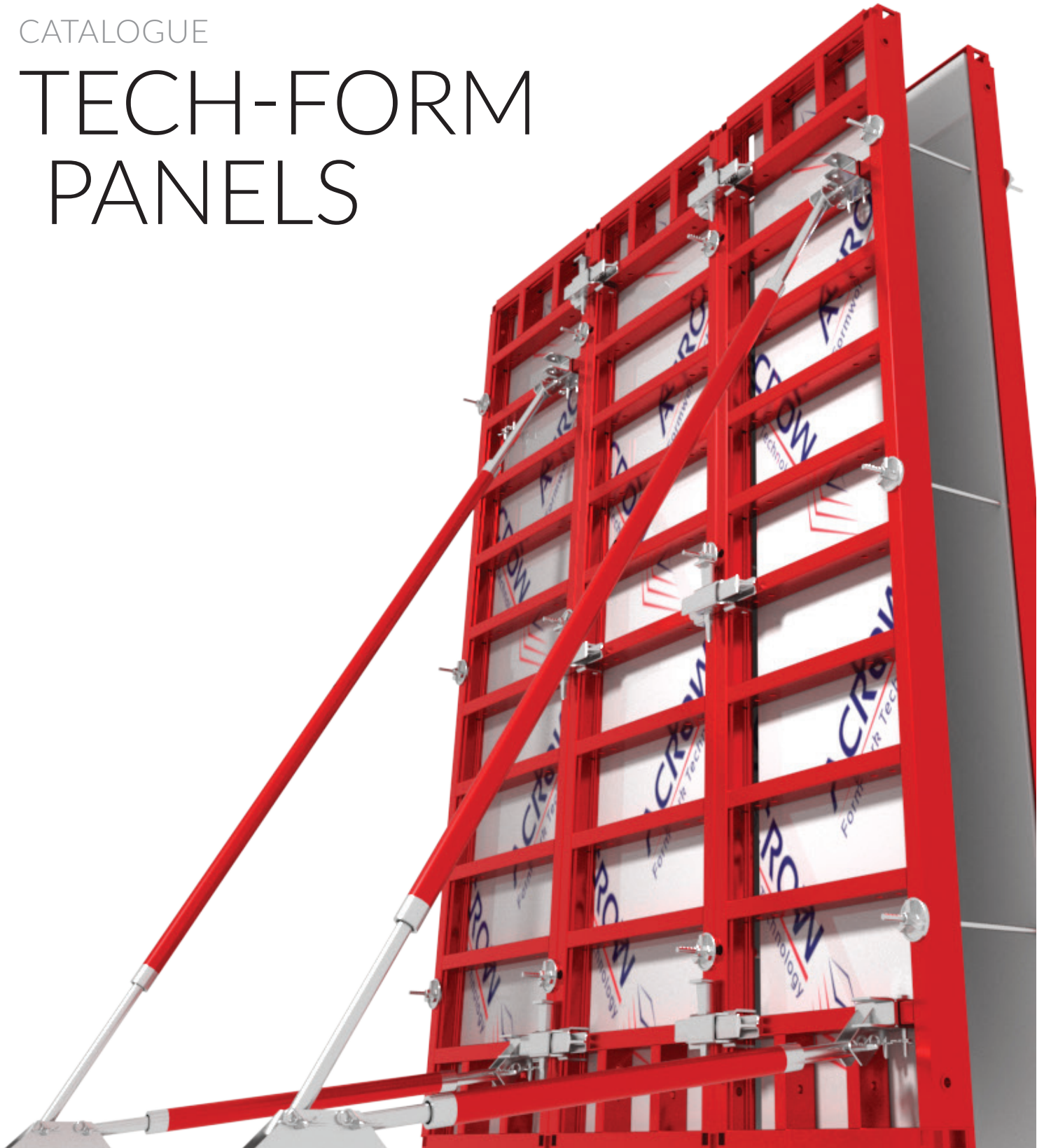




CATALOGUE

TECH-FORM PANELS



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TECH-FORM WALL PANELS

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- Loads
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- Technical data
- Main components
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TECH-FORM COLUMN PANELS

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- Tech-form panels connections
- Fillers
- 90° corners
- T-junction
- Acute & obtuse-angled corners
- Stop-end formwork
- Panels extensions (vertical stacking of panels)
- Wall offsets
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- Pilasters
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- Columns accessories
- Circular walls
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COMPLEMENTARY COMPONENTS

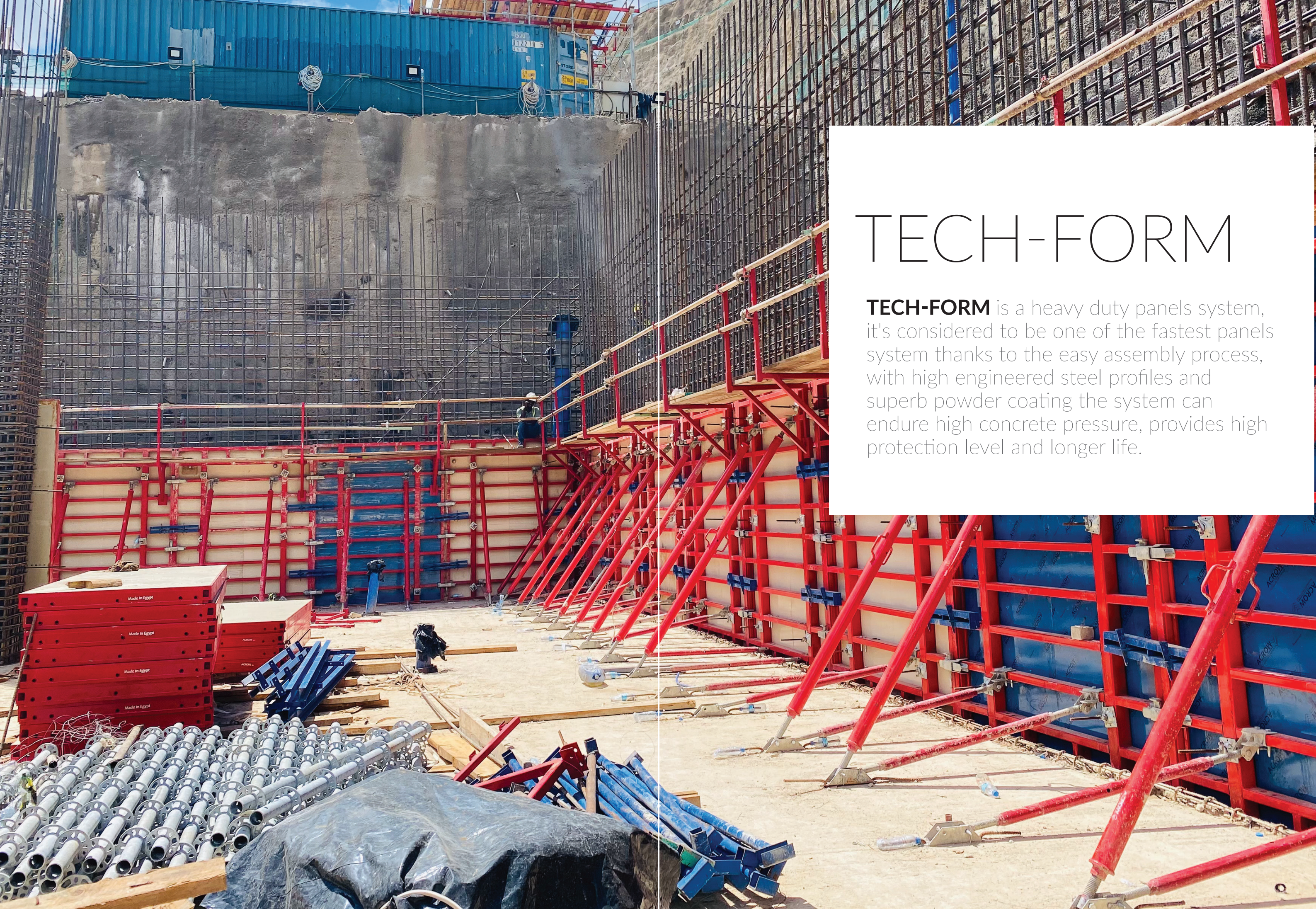
- Tying system
- access ladder
- hi-skaf
- acrow board

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SYSTEM COMPONENTS





TECH-FORM

TECH-FORM is a heavy duty panels system, it's considered to be one of the fastest panels system thanks to the easy assembly process, with high engineered steel profiles and superb powder coating the system can endure high concrete pressure, provides high protection level and longer life.

TECH-FORM WALLS



TIME SAVER



COMPATIBLE



HEAVY DUTY



SIMPLE ASSEMBLY



SUPERIOR CONCRETE FINISH



DURABLE

APPLICATIONS

- Walls.
- Abutments.
- Retaining walls.
- One-sided walls.
- Cores & Tanks.
- High-rise walls.
- Used with crane & self-climbing systems.



LOADS

Panel Width	Permitted fresh-concrete pressure			
	80kN/m²	100 kN/m²	140 kN/m²	200 kN/m²
2.40m	✓			
1.20m	✓			
0.90m	✓	✓		
0.60m	✓	✓	✓	
0.30m	✓	✓	✓	✓

ACCORDING TO BS CODE [BS 5950 2000]

TECHNICAL DATA

- Permissible fresh concrete pressure: 80 kN/m²
- Panel range [walls]: Height [600, 900, 1200, 2400, 3300 mm], width [300, 600, 900, 1200 mm] & panel size 3300 X 2400 mm.
- Assembly: With crane assistance, panels are adjusted and aligned, connected together tight using Tech-form conti-lock which allows timber filler compensation up to 10 cm.
- Concrete finishing: Fair-faced concrete finishing can be obtained by using premium Acrow board.



- Painting: Superb powder coating allows easy and fast cleaning.

PANEL RANGE

Width [m]	Height [m]				
	0.60	0.90	1.20	2.40	3.30
0.30	●	●	●	●	●
0.60	● ■	●	● ■	●	● ■
0.90	■	●	● ■	●	● ■
1.20	■		● ■	●	● ■
2.40				●	●

■ COLUMN PANELS ● WALL PANELS

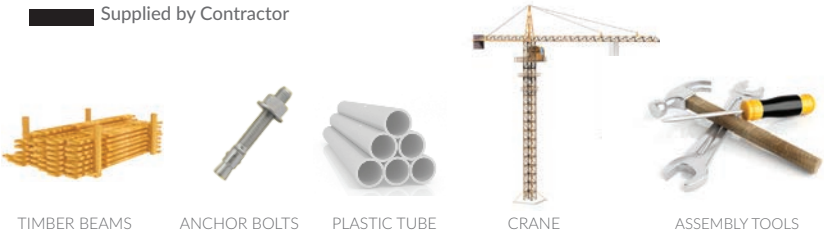
MAIN COMPONENTS

Supplied by ACROW

- 1- Tech-Form panel c/w Acrow board
- 2- Safety access brackets
- 3- Connecting Parts (Couplers)
- 4- compensation waler
- 5- Adjustable push-pull
- 6- Double base plate
- 7- Tie rod, nut & washer

SITE REQUIREMENTS

Supplied by Contractor





TECH-FORM COLUMN



TIME SAVER



COMPATIBLE



HEAVY DUTY



SIMPLE ASSEMBLY



SUPERIOR CONCRETE FINISH

APPLICATIONS

- Columns.
- Bridge piers.



LOADS

Permitted fresh-concrete pressure				
Panel Width	100 kN/m ²		150 kN/m ²	200 kN/m ²
	1.20m	✓		
	0.90m	✓	✓	
	0.60m	✓	✓	✓

ACCORDING TO BS CODE [BS 5950 2000]

TECHNICAL DATA

- **Permissible fresh concrete pressure:** 100 kN/m²
- **Panel range :** Height [600, 1200, 3300 mm], width [600, 900, 1200 mm].
- **Assembly:** With crane assistance, panels are adjusted and aligned, connected together tight using Tech-form conti-lock which allows timber filler compensation up to 10 cm.
- **Concrete finishing:** Fair-faced concrete finishing is obtained by using premium Acrow board.



- **Painting:** Superb powder coating allows easy and fast cleaning.

PANEL RANGE

Width [m]	Height [m]				
	0.60	0.90	1.20	2.40	3.30
	0.30	●	●	●	●
	0.60	● ■	● ■	●	● ■
	0.90	■	● ■	●	● ■
	1.20	■	● ■	●	● ■
	2.40				●

■ COLUMN PANELS ● WALL PANELS



MAIN COMPONENTS

Supplied by ACROW

- 1- Panels C/W. Acrow board
- 2- Access brackets
- 3- Conti-lock
- 4- Compensation walers
- 5- Tilting Items.
- 6- Tie Rods

SITE REQUIREMENTS

Supplied by Contractor



TIMBER BEAMS



ANCHOR BOLTS



PLASTIC TUBE

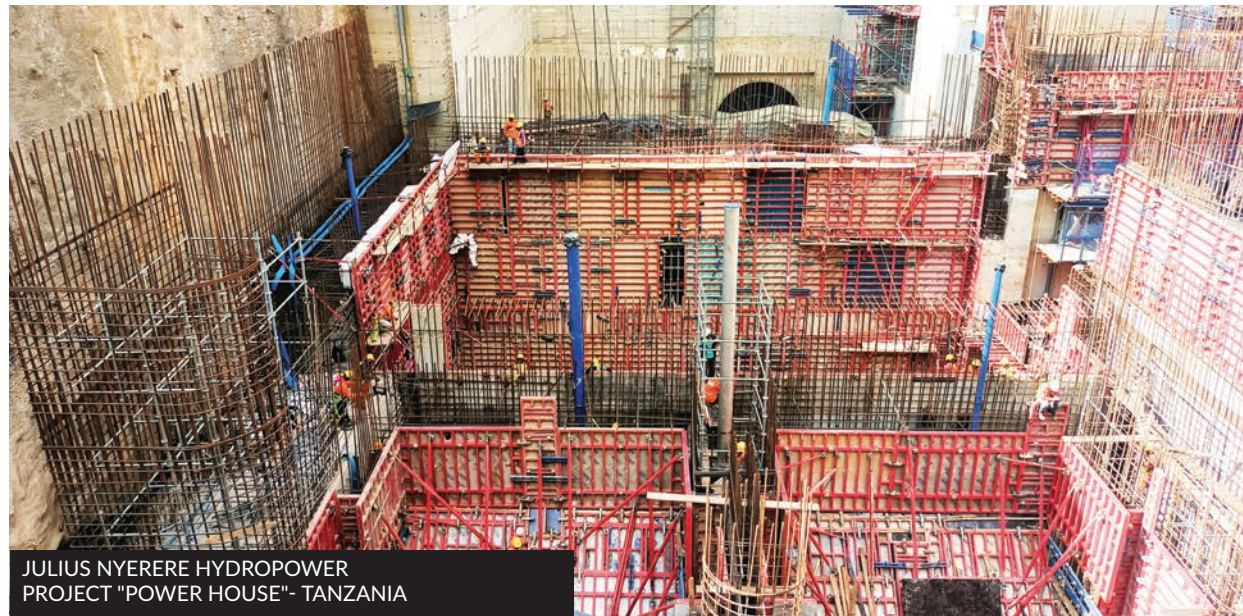
CRANE



ASSEMBLY TOOLS

PROJECT REFERENCES

TECH-form wall panel



JULIUS NYERERE HYDROPOWER
PROJECT "POWER HOUSE"- TANZANIA



KING ABDULAZIZ INTERNATIONAL AIRPORT - KSA



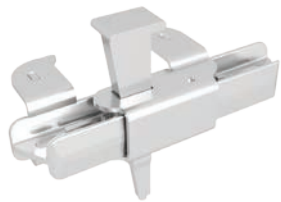
PBC-JEDDAH ISLAMIC SEAPORT - KSA



1000 M2 OF METAL FORMWORK FOR CAP DJANET
SEAWATER DESALINATION PLANT - ALGERIA

MAIN ACCESSORIES

TECH-FORM CONTI-LOCK COUPLER (TFCL)

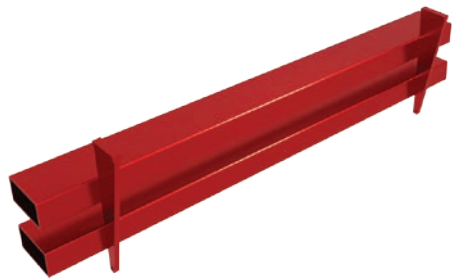


TECH-form Conti-Lock Coupler is used for the following functions:

- [a] For regular panels joints (straight, outer corners, inner corners)
- [b] For fillers ≤ 12 cm
- [c] For connecting timber to panels

It creates fast, self-aligning and tension proof joints between panels. TFCL doesn't require the use of any other internal panel connections. It is simply the non-loose parts TFCL and a hammer to perform the job

TECH-FORM COMPENSATION WALER (TFCW)



TECH-form Compensation Waler is used for the following functions:

- [a] For fillers > 10 cm
- [b] For Stop-Ends forming
- [c] For unsupported panels to create continuity and distribute the tie-rods influence
- [d] For panels extension

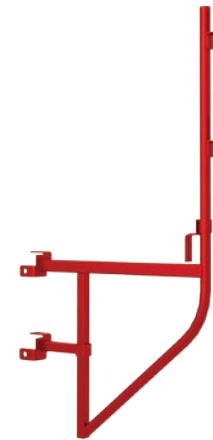
The horizontally movable hooking system enables forming any closure up to 300 mm in which it transfers the tie forces and aligns the panels at the same time.

TECH-FORM STOP-END TIE



TECH-form Stop-End Tie connects the compensation waler / steel waler – which supports the forming timber – to the TECH-form panels on both sides of the wall.

TECH-FORM ADJUSTABLE ACCESS BRACKET



Since safety during concreting is a must, the wide working access bracket enables for a safe and faster working environment with an allowable load of 150 KG/m² for the platform. The adjustable access bracket can be fixed to either horizontal or vertical struts of the panels, providing the system with much needed flexibility.

TECH-FORM UNIVERSAL SHORE CONNECTOR



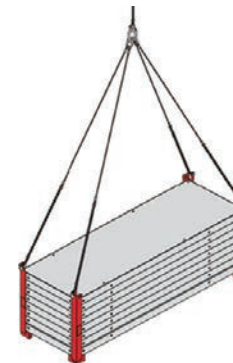
TECH-form Universal Shore Connector connects push-pull props to the TECH-form panels. It can be fixed to either horizontal or vertical struts of the panels, providing the system with much needed flexibility.

TECH-FORM CRANE HOOK



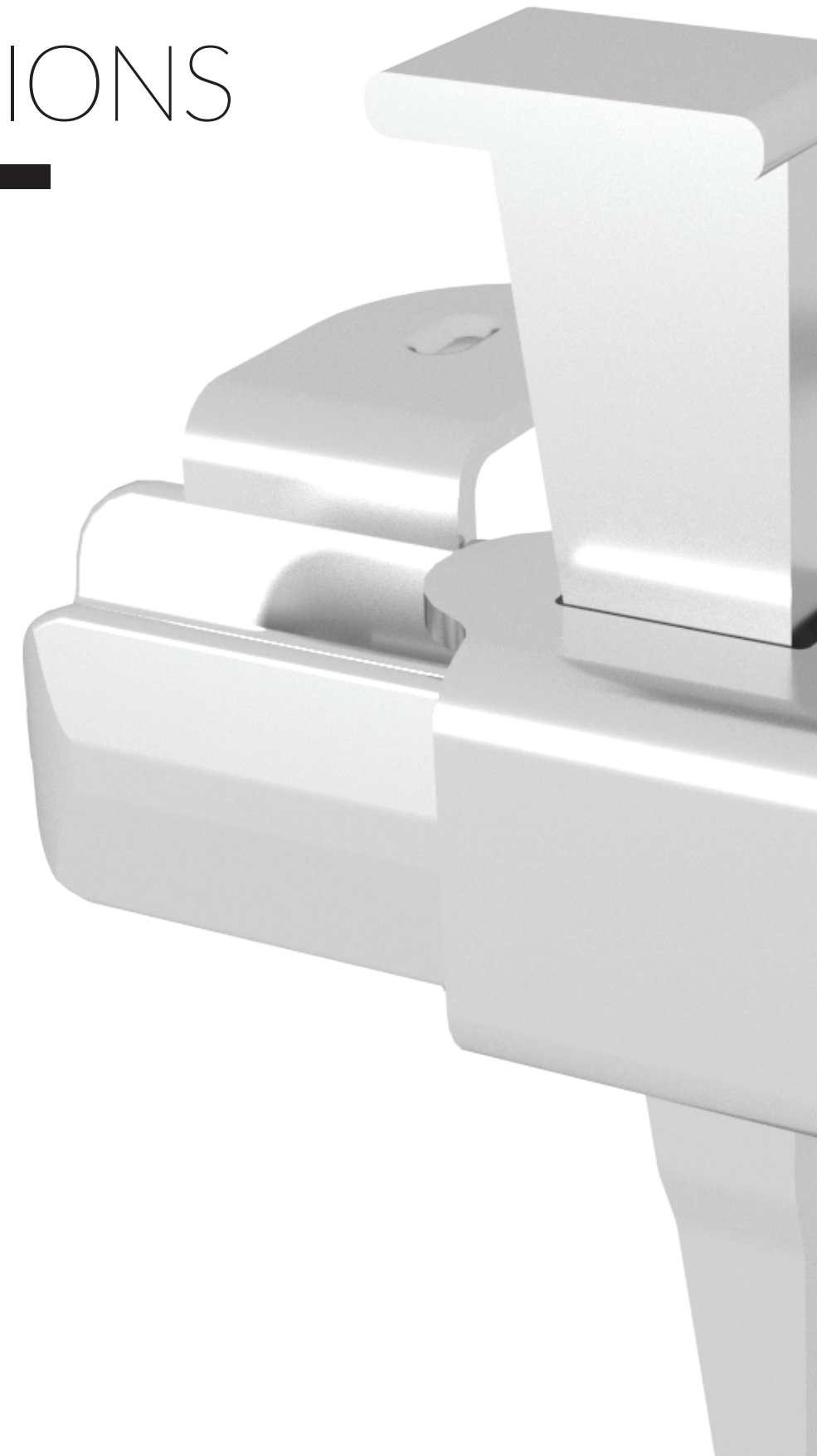
TECH-form Crane Hook enables the lifting of individual panels or large gang forms (up to 40 m²). It also ensures safe lifting and moving (by crane) which results in a dramatic saving in both time and effort. Special thanks to the self-locking system where it enables automatic hook locking after being attached to the panel. The allowable load for the TECH-form lifting hook is 1500 KG / hook with a maximum of 60° between lifting chains.

TECH-FORM STACKING DEVICE



Stacking device ease the crane handling and ensures easier site stacking. Moreover, the stacks can be easily moved with a fork-lift. The stacking device enables quick and safe stacking of 7 panels of a particular size.

SITE SOLUTIONS



TECH-FORM PANELS CONNECTIONS

- Provide self-aligning, crane-handling-safe connections between the panels
- No losable small parts
- Dirt-resistant and hard-wearing for site use
- Easy to fix, with a formwork hammer



SIMPLE PANELS CONNECTIONS (WITHOUT FILLERS) Using TECH-Form Conti-Lock Coupler (TFCL)

The Conti-Lock allows the simple connection of two panels, and at the same time turns the joint to be:

1. Flushed
2. Aligned
3. Tight

The align effect is significantly better when mounting the couplers at the cross profiles of the panels. In slamming the wedge with some hammer blows, the panels are pulled together fully tightly. 3 couplers are needed to connect 3.30m height adjacent panels. 2 couplers are needed between panels on top of each other.¹⁹



FILLERS

[A] PANELS CONNECTIONS WITH FILLERS UP TO 10 CM Using TECH-Form Conti-Lock Coupler (TFCL)

Compensation of length differences up to 10cm is done using Conti-Lock coupler and a timber filler cut to the needed size. The Conti-Lock coupler is placed directly over the cross profile. Tie-Rods go through the timber filler, and its Washer & Wingnut should cover the frame profiles of the 2 adjacent panels by at least 15mm, otherwise a compensation waler is needed (see the next case).



[B] PANELS CONNECTIONS WITH FILLERS (10 CM < FILLER < 30 CM)

a) Using timber, TECH-Form Compensation Waler (TFCW) & TECH-Form Conti-Lock Couplers (TFCL):

Regular 4 x 10 cm timber beams are applied together with plywood cut to size to compensate the measure needed. The timber profiles are nailed to the plywood piece, and are connected to the panels profiles using the Conti-Lock couplers.

The compensation waler is placed directly at the cross profiles of the panel and mounted to it using its clamps. Tie-Rods should go through the compensation waler which distributes the tie-rods effect to both panels.

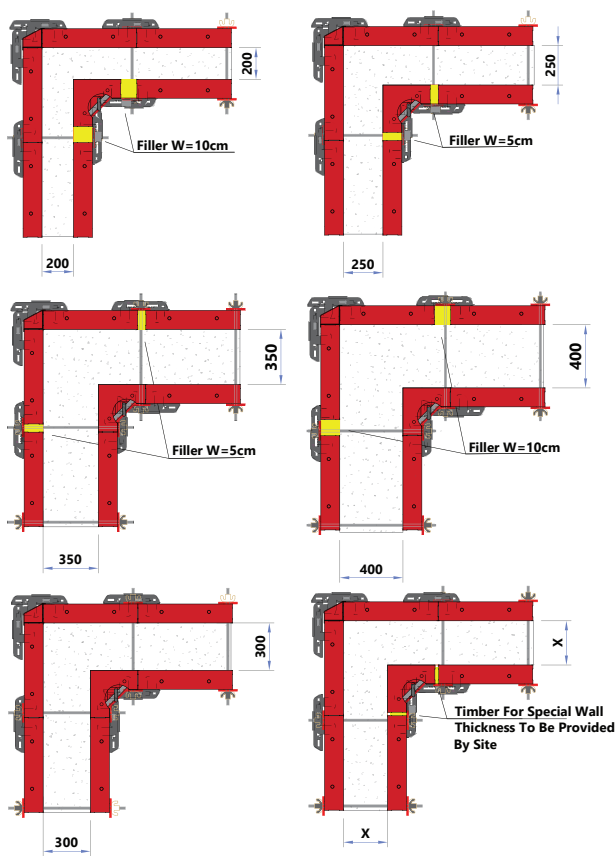


b) TECH-Form Filler Panels:

This is the easier and more convenient method, as the panel is adjustable to any size between 10 & 30 cm. It saves all the work needed for cutting plywood and timber, nailing, fixing the couplers and hammering them. Compensation Walers are used when needed to accommodate the tie-rods.



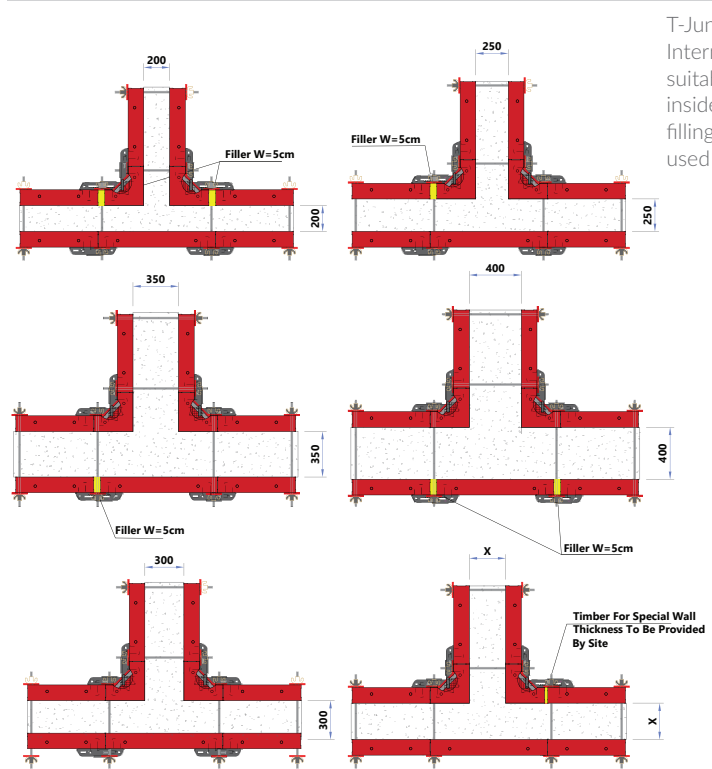
90° CORNERS



Corners for any wall thickness can be handled using TECH-form Internal Corner Panel from inside, and TECH-form External Corner Angle from outside with TECH-form panels with the suitable width. Any difference in alignment between the inside and outside panels can be compensated using 50mm or 100mm filling timber.



T-JUNCTION

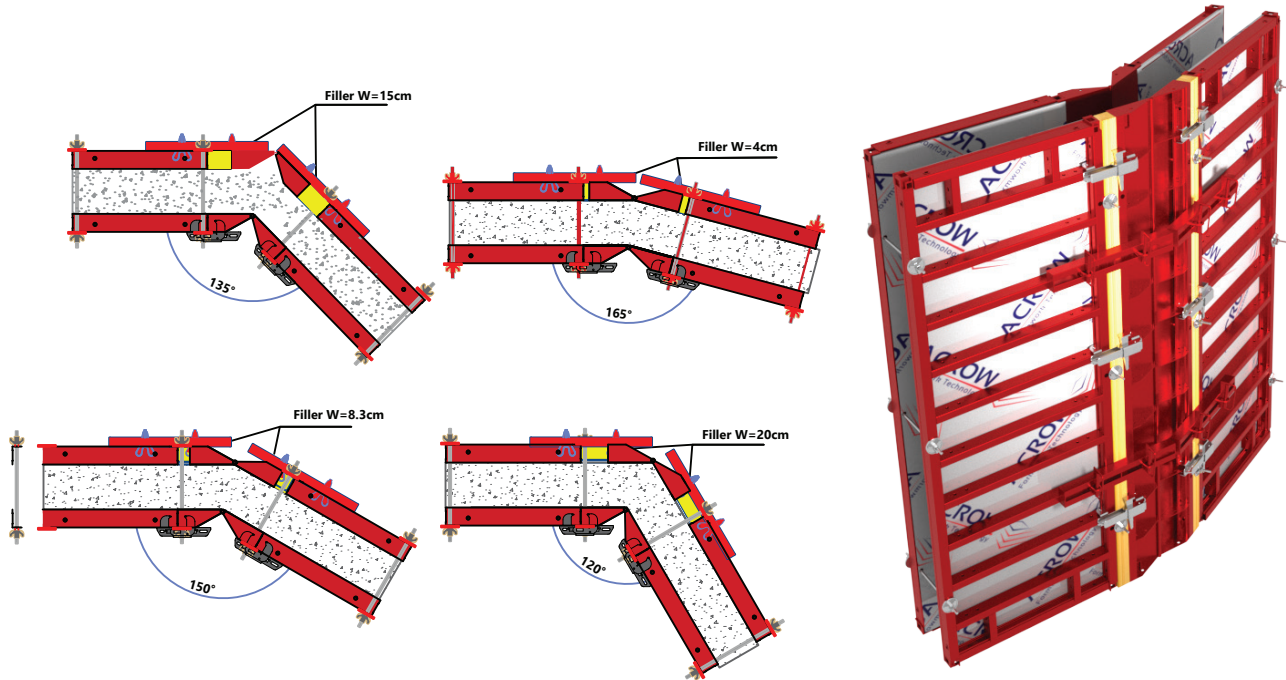


T-Junction for any wall thickness can be handled using 2 TECH-form Internal Corner Panels from inside, and s TECH-form Panel with the suitable width from outside. Any difference in alignment between the inside and outside panels can be compensated using 50mm or 100mm filling timber. The regular number of TECH-form Conti-Lock Couplers are used for all connections.



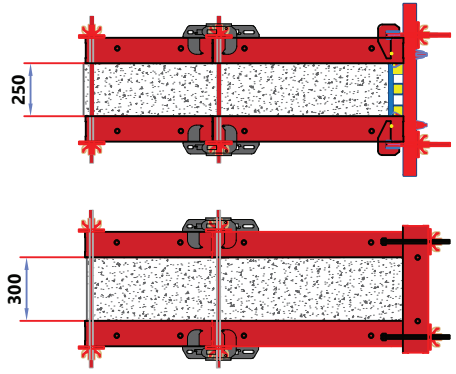
ACUTE & OBTUSE-ANGLED CORNERS

Articulated corners (either acute or obtuse angle) for any wall thickness can be handled using TECH-form Hinged Corner Panel from inside, and the same Hinged Corner Panel with additional panels (if needed) from outside. Any difference in alignment between the inside and outside panels can be compensated using cut-to-size filling timber. Using the same Hinged Corner Panel from both sides ease the work and reduce the number of different components required for the corner. Additional couplers are required for the external side to ensure tight connections, along with TECH-form Compensation Walers.



STOP-END FORMWORK

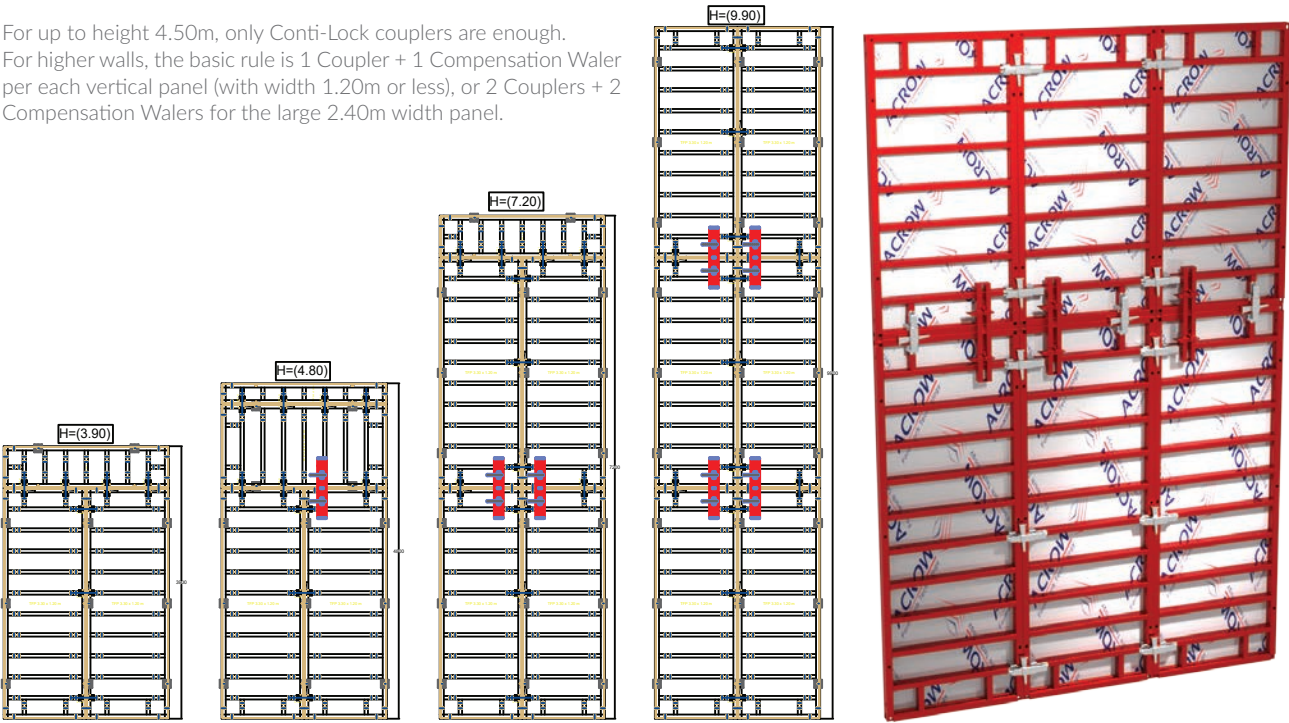
Stop-Ends for any wall thickness is done using either TECH-form Universal Panels or the large panel 3.30x2.40m just before the end of the wall, to have the possibility of moving the tie rod inside the panel and not in the outside frame, avoiding having the tie-rod through the timber or stop-end panel. Closing of the stop-end is done by either one of these 2 methods:
a) Traditionally closed with plywood & forming timber and lock them with TECH-form Compensation Walers fixed to both sides of the wall using TECH-form Stop-End Ties.
b) With TECH-form Universal Panel with the suitable width fixed to both sides of the wall using Acrow Bolts.



PANELS EXTENSIONS (VERTICAL STACKING OF PANELS)

TECH-form is used for shuttering any wall height, up to 12 m high walls. Panels are stacked vertically using only TECH-form Conti-Lock Couplers (TFCL) & TECH-form Compensation Walers (TFCW).

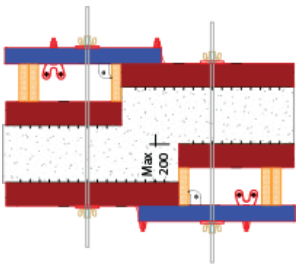
For up to height 4.50m, only Conti-Lock couplers are enough. For higher walls, the basic rule is 1 Coupler + 1 Compensation Waler per each vertical panel (with width 1.20m or less), or 2 Couplers + 2 Compensation Walers for the large 2.40m width panel.



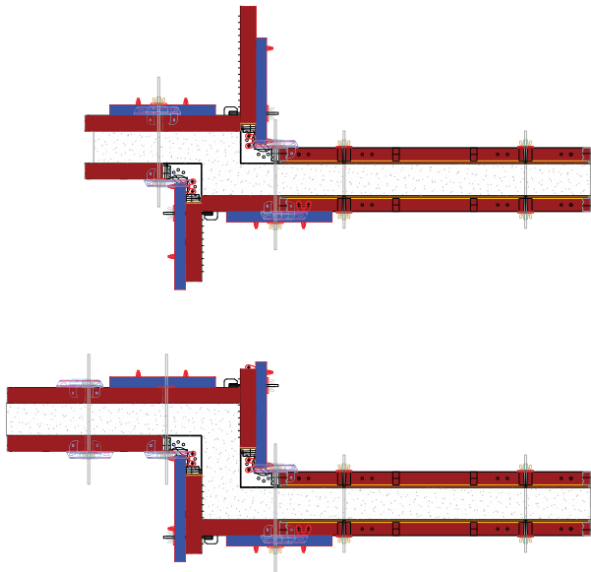
WALL OFFSETS

Wall offsets can be handled using different techniques based on the offset. Up to 20cm offset, timber fillings are used. For larger offsets, the suitable technique is applied, usually using TECH-form Internal Corners, Universal Panels, Stop-End Ties & Compensation Walers.

Wall Offsets up to 20 cm



Wall Offsets more than 20 cm



PILASTERS

PILASTERS CAN BE LOCATED IN THE MIDDLE OF WALLS AS WELL AS AT WALL CORNERS.

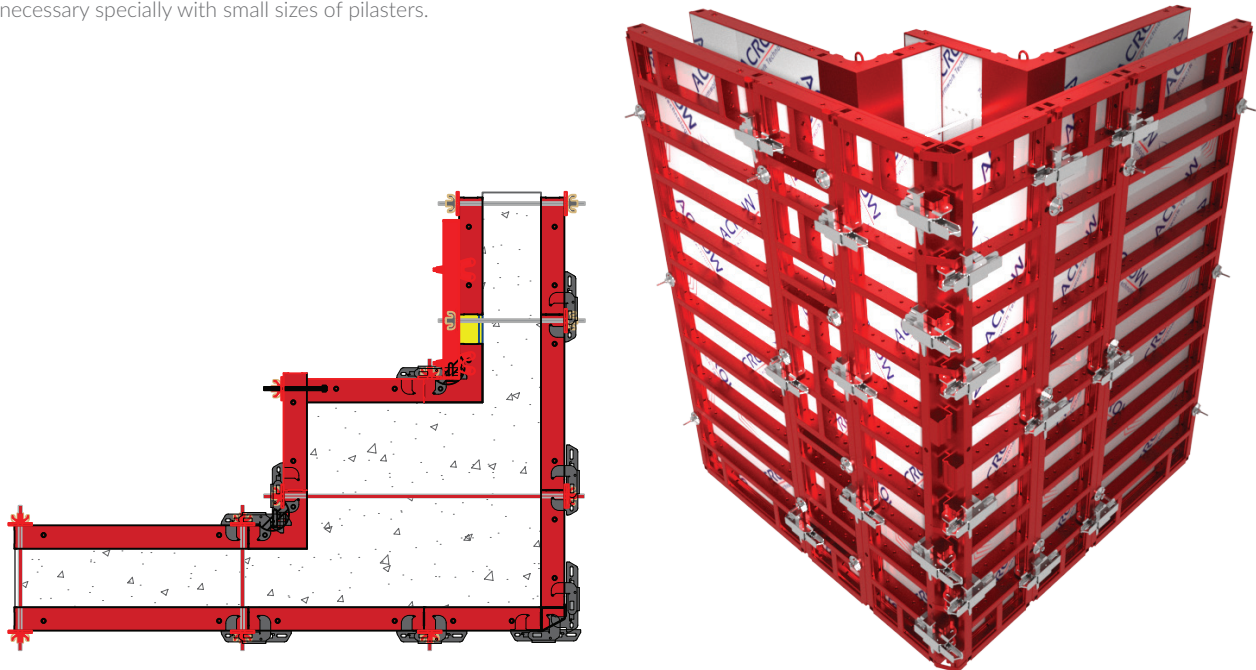
IN MID-WALLS:

Similar solutions to Stop-Ends but with the use of TECH-form Internal Corner Panels.



AT CORNERS:

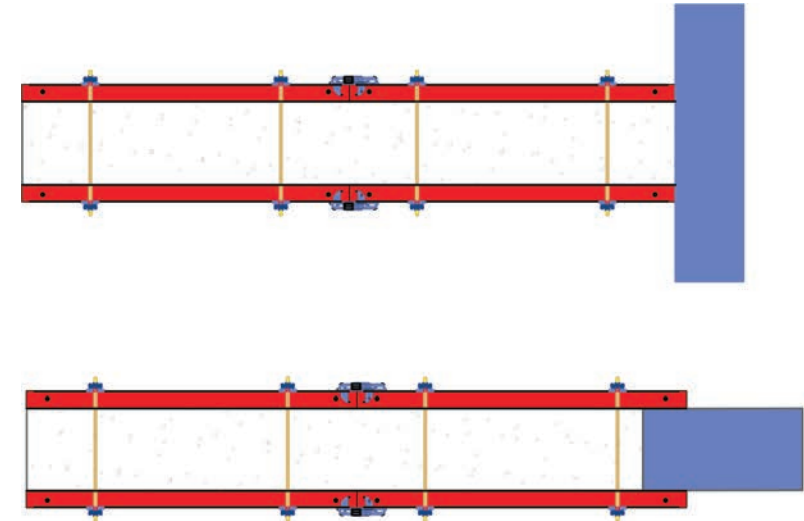
Using TECH-form Internal Corner Panels & 2 perpendicular Universal Panels tied together with Acrow Bolts. Timber fillers are used when necessary specially with small sizes of pilasters.



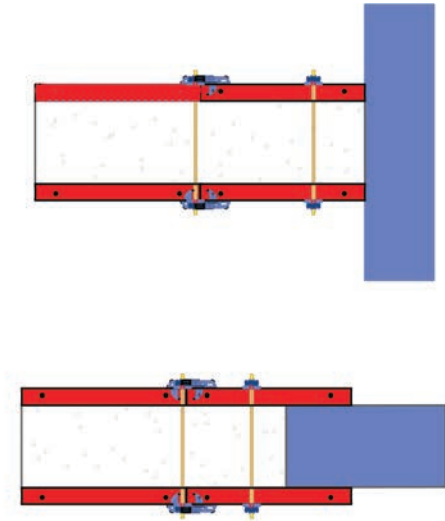
CONNECTIONS TO EXISTING WALLS

Wall connections to existing walls can be handled using either TECH-form Universal Panels or the large panel 3.30x2.40m to have the possibility of moving the tie rod inside the panel and not in the outside frame where it can't go through the existing concrete.

[A] Using large panels 3.30x2.40 m



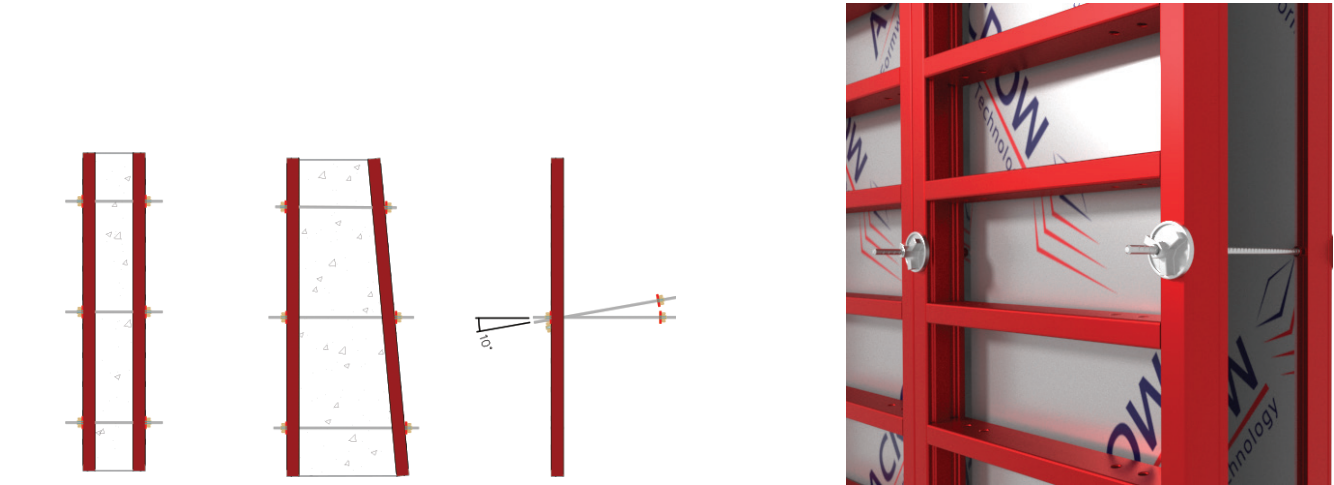
[B] Using Universal Panels: tie-rods go through the "anchor rows"



TYING SYSTEM

Either DW15 or DW20 Tie-Rod systems can be used with TECH-form panels. When using the wall panels with the maximum allowable pressure of 80 KN/sqm, Tie-Rod system DW20 has to be used to be able to resist these high loads.

Tapered plastic sleeves pass through the TECH-form panel frame to allow an inclination angle of +/-5° for the DW15 tie-rod. This gives the system flexibility in shuttering tapered walls.

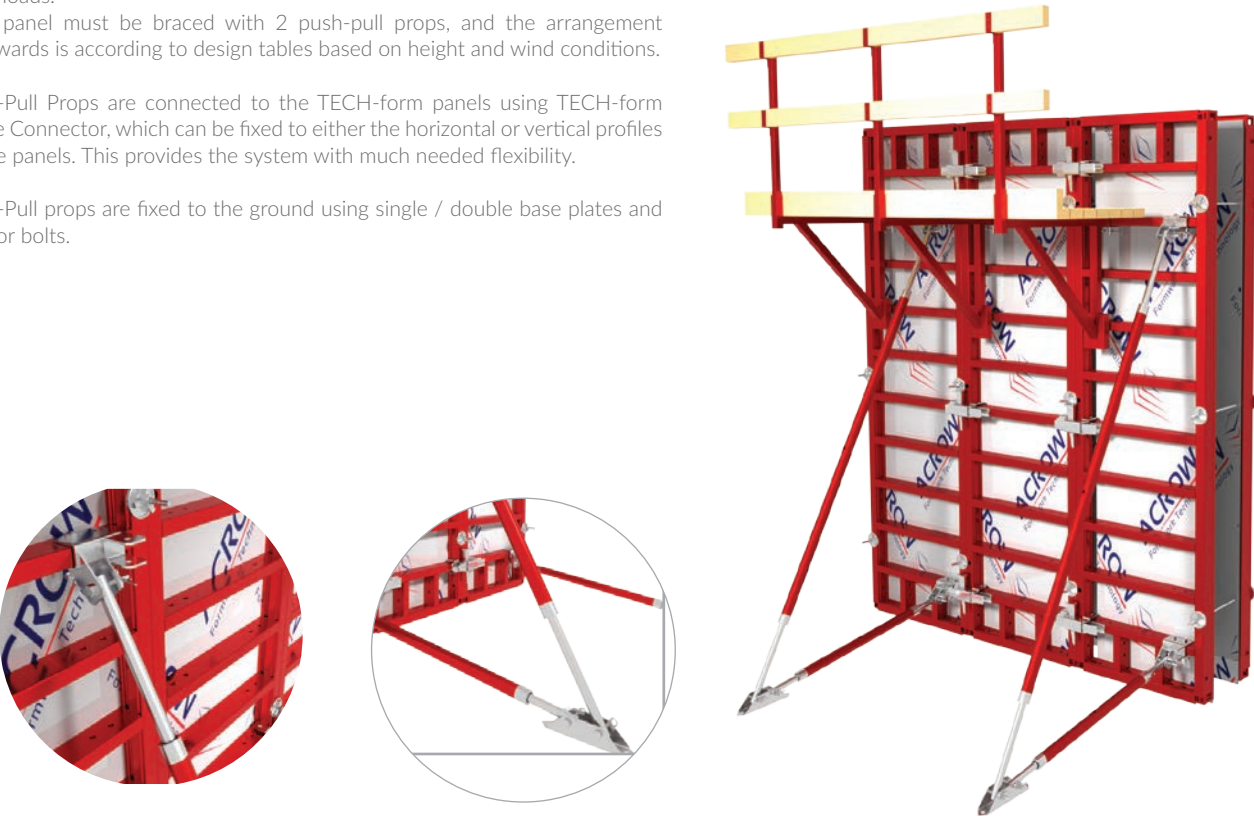


PUSH-PULL-BRACING

Push-Pull Props are used solely to adjust the verticality of the panels and resist wind loads. First panel must be braced with 2 push-pull props, and the arrangement afterwards is according to design tables based on height and wind conditions.

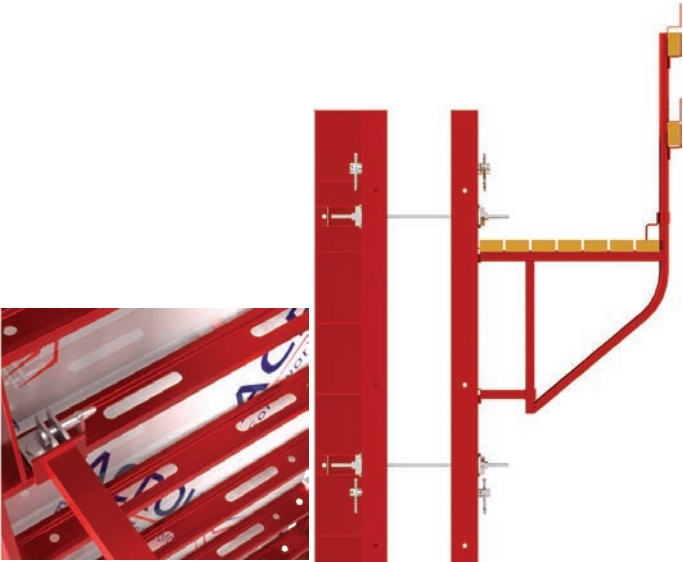
Push-Pull Props are connected to the TECH-form panels using TECH-form Shore Connector, which can be fixed to either the horizontal or vertical profiles of the panels. This provides the system with much needed flexibility.

Push-Pull props are fixed to the ground using single / double base plates and anchor bolts.



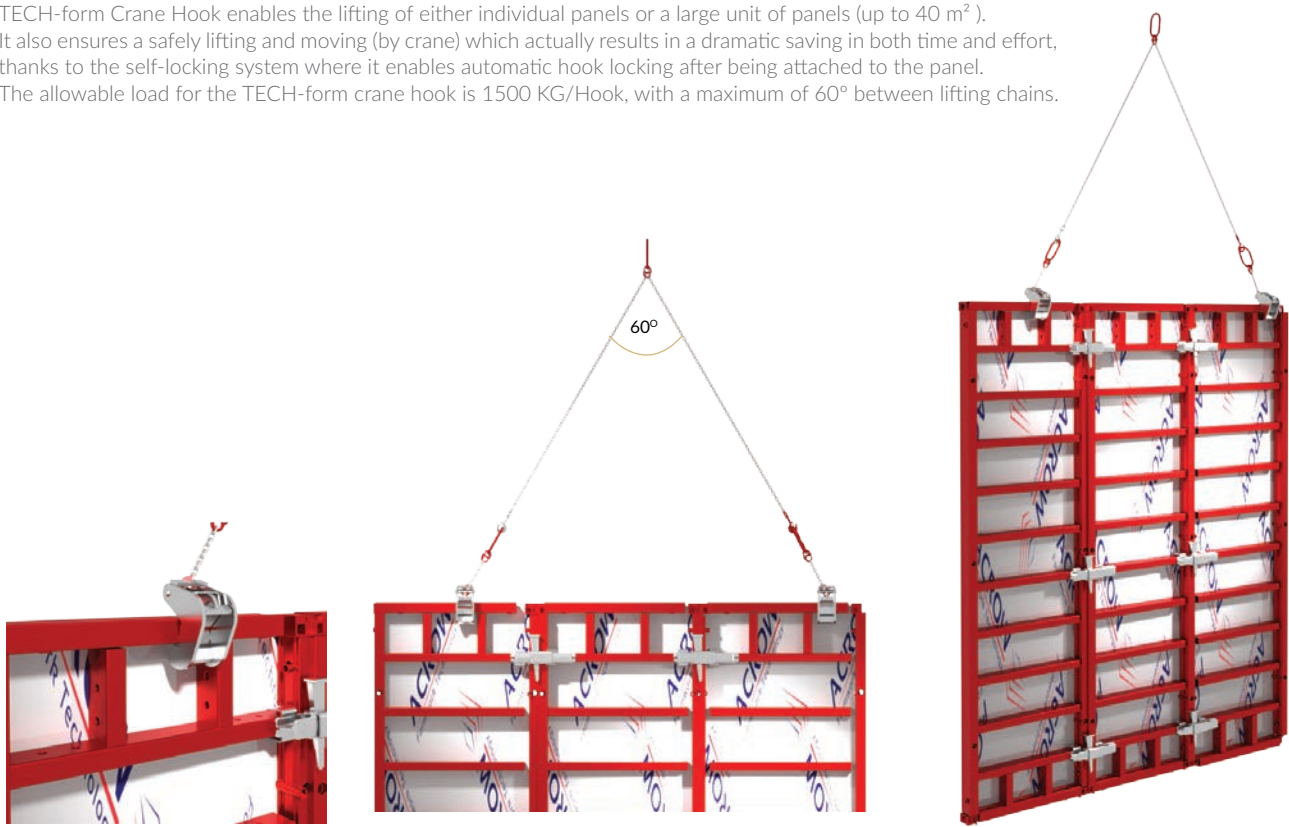
SAFETY ACCESS BRACKETS / WORKING PLATFORMS

Since safety during concreting is a must, the wide working access bracket enables for a safer and faster working environment with an allowable load of 150 KG/m². TECH-form Adjustable Access Bracket can be fixed to either horizontal or vertical panel profiles, providing much needed flexibility with any arrangement of panels. Timber planks and rear safety handrails (timber beams or scaffolding tubes) are usually supplied by contractor. Spacing between access brackets depends on the type and thickness of the timber planks used.



LIFTING

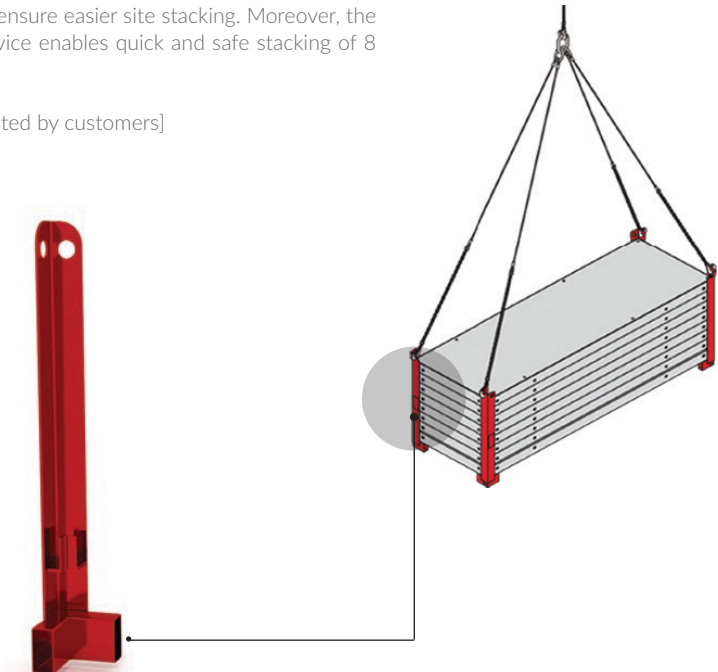
TECH-form Crane Hook enables the lifting of either individual panels or a large unit of panels (up to 40 m²). It also ensures a safely lifting and moving (by crane) which actually results in a dramatic saving in both time and effort, thanks to the self-locking system where it enables automatic hook locking after being attached to the panel. The allowable load for the TECH-form crane hook is 1500 KG/Hook, with a maximum of 60° between lifting chains.



STORAGE

- TECH-form Stacking Devices ease the crane handling and ensure easier site stacking. Moreover, the stacks can be easily moved with a fork-lift. The stacking device enables quick and safe stacking of 8 panels of any particular size.

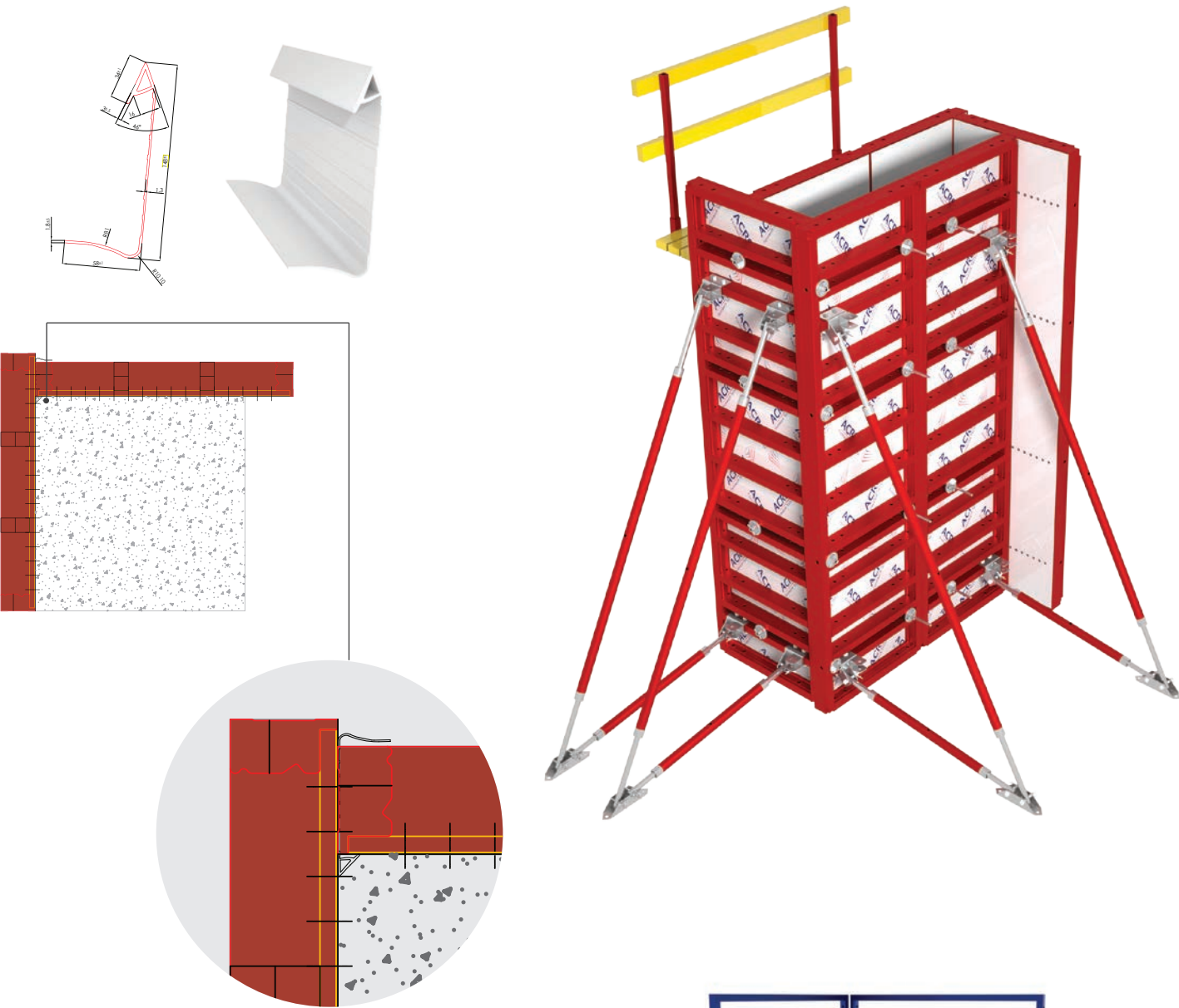
- Safe working load = up to 1000 Kg/device [must be requested by customers]



COLUMNS ACCESSORIES

Any column section can be shuttered in a windmill principle with TECH-form Column Panels, from 20x20 cm up to any size in 5cm increments. Perpendicular panels are closed together using ACROW Bolts. TECH-form Couplers, Compensation Walers & Tie Rods are added when any side requires several adjacent panels.

TECH-FORM PLASTIC CHAMFERS are used to have smooth chamfered corners. Their assembly is very easy - without nailing - by just pushing them in place.



CONCRETING PLATFORMS FOR TECH-FORM COLUMNS are a safe and convenient way for concreting works. It has all the necessary safety measures and accessibility. It comes in 3 different sizes, each size covers a wide range of columns' cross sections.

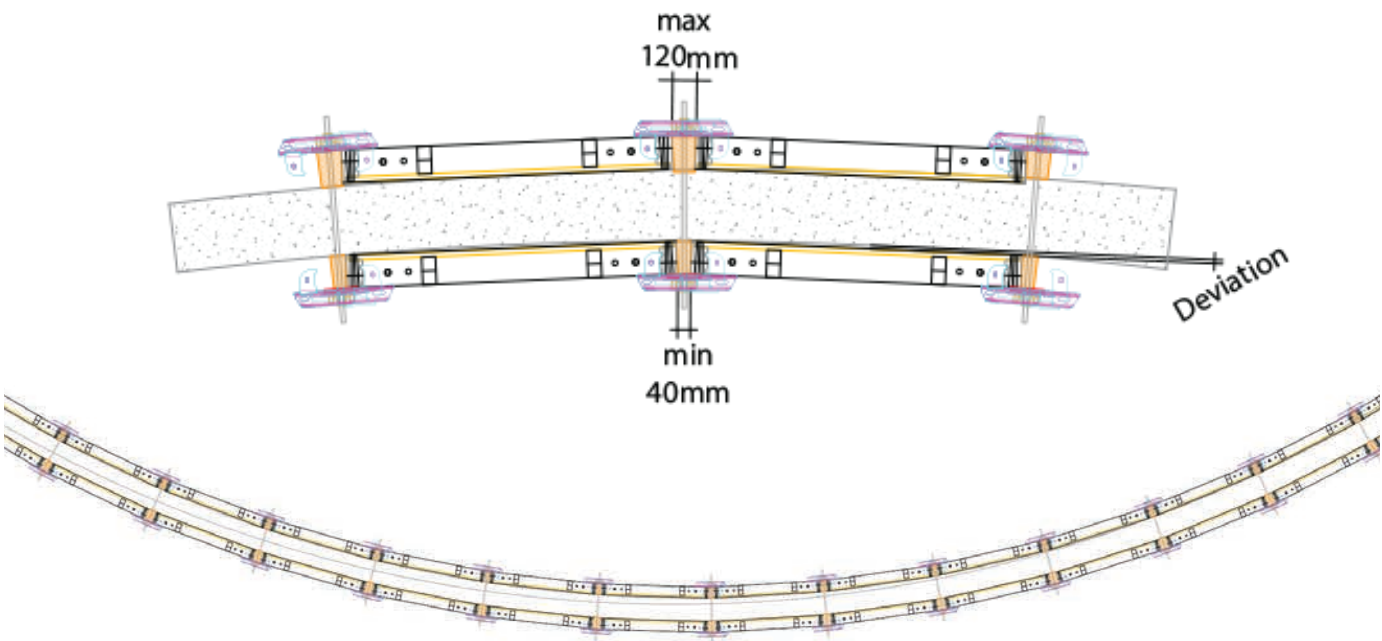


CIRCULAR WALLS

Circular structures with various radii can be shuttered with TECH-form panels as polygons. The correct width of panel should be chosen for each radius. The adjustable TECH-form Conti-Lock Couplers are used with trapezoidal timber fillers between panels. This ensures that the circle can be closed, and that the inside and outside panels are aligned so that the tie-rods can go through the timber fillers. In this case, Conti-Lock couplers must not be mounted at the cross profiles of panels, to avoid any unwanted alignment effect.

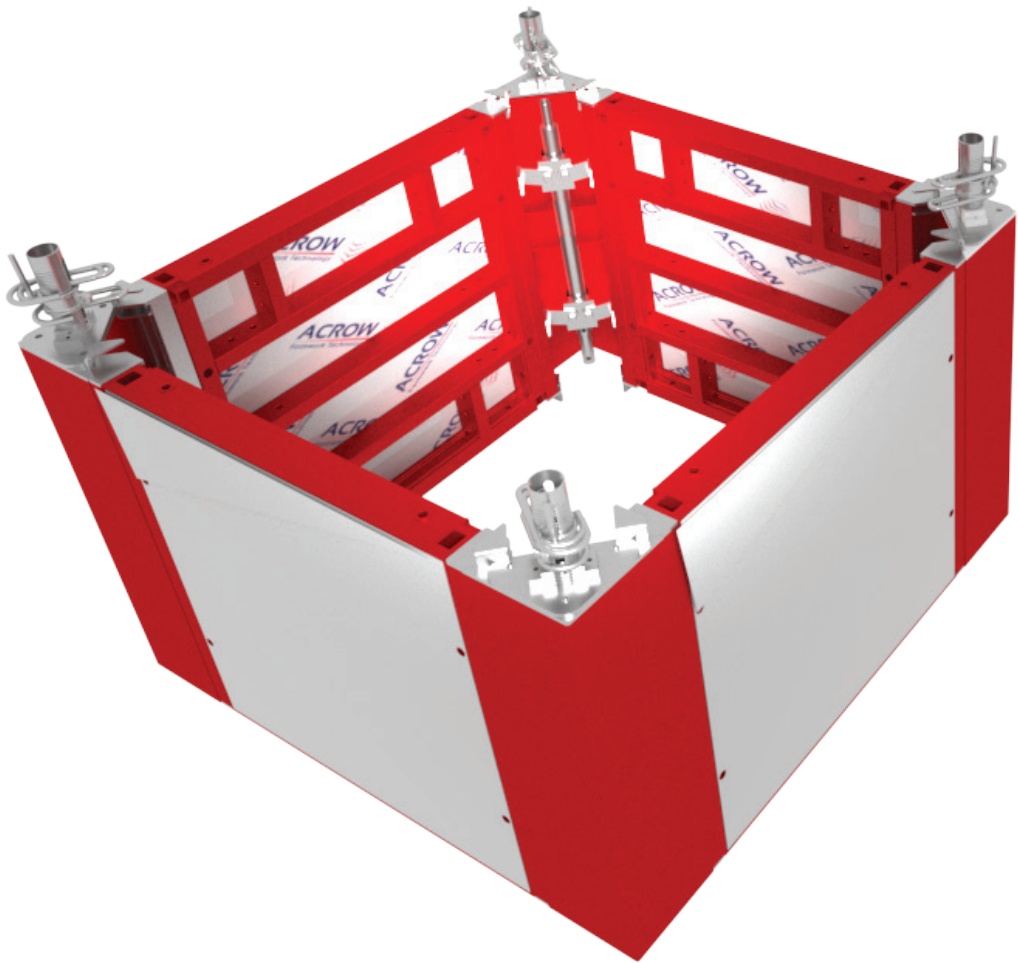


Couplers positioned away from cross profiles of panels



SHAFT FORMS

Retractable inner stripping corners are available for easy dismantling of inner shaft formwork at tight areas. This application allows lifting the complete inner formwork as one unit, saving a lot of time and effort. Standard panels are placed between the stripping corners. For length compensations, timber or TECH-form applications for adjustments are possible. Dismantling starts after removing the ties. Stripping is done by using a ratchet at the top of the retractable corners, which open up using the rotation mechanism inside it. The inner formwork is reduced in width by 3 cm from each side, allowing enough clearance to lift the whole inner core by attaching the crane to the corners. When using inner shaft platforms, the platform can be lifted together with the formwork in one lift.



CLIMBING FORMWORK

TECH-form System can be used with various types of climbing platforms, either crane-climbing or self-climbing (hydraulic climbing). Panels are attached to the climbing platforms and lifted as one unit, significantly decreasing the lifting process time by minimizing the number of crane lifts.

TECH-form Panels can be connected with the climbing brackets in either one of these 2 methods:
[a] The panels are connected to Strong-Backs, which are attached to moveable carriages on the climbing platform. Lifting is done from the top of the Strong-Backs.

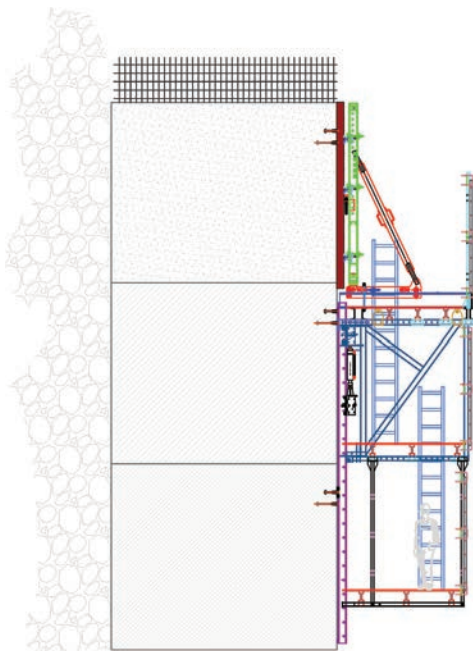
[b] Directly using TECH-form Climbing Connectors which are attached to the carriages, without the need for Strong-Backs. This method saves the cost of Strong-Backs, but decreases the width of platforms as the lifting is done using TECH-form Crane Hooks from the panels.

For restrictions and conditions of using different types of climbing platforms, please refer to the specific catalogue of this climbing system.

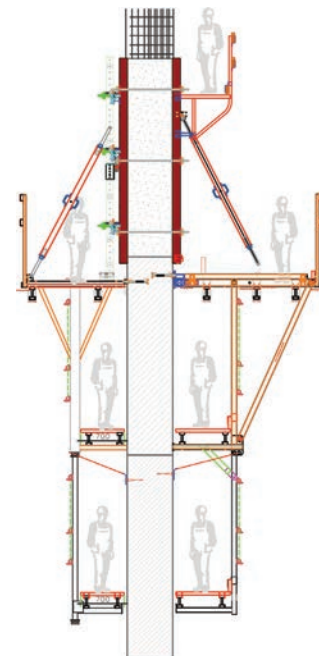
AOSB190 One-Sided Climbing Platform with TECH-form Panels



BSC Self-Climbing Platform with TECH-form Panels



ACCB240 & ACCB160 with TECH-form Panels
(Double Sided Climbing Platforms)



SINGLE SIDED WALLS

TECH-form System can be used with various types of single sided walls systems:

[a] With Light Frames up to a height of 4.50m.

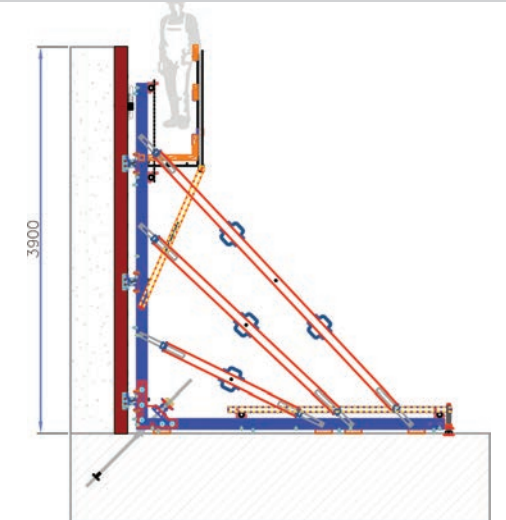
[b] With Brace Frames up to a height of 8.0m.

[c] With HD Trusses up to a height of 12.0m.

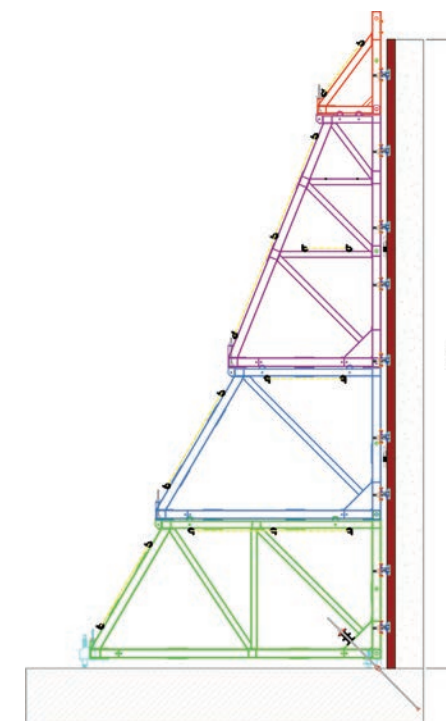
Panels are connected to either system using standard connection components, either directly or by using mediate horizontal walers.

For restrictions and conditions of using the single sided walls systems.

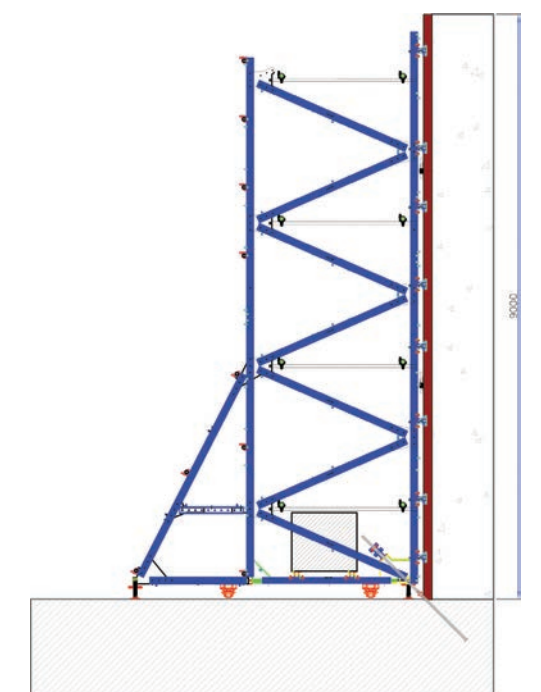
Light Frame with TECH-form Panels



Brace Frames with TECH-form Panels

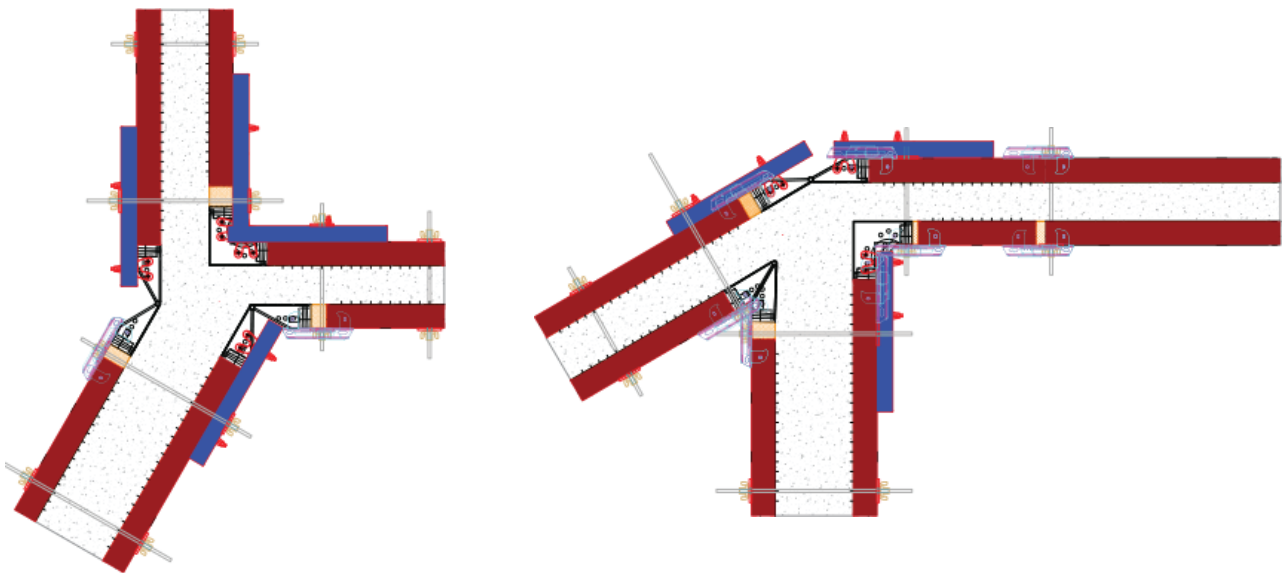


HD Truss with TECH-form Panels

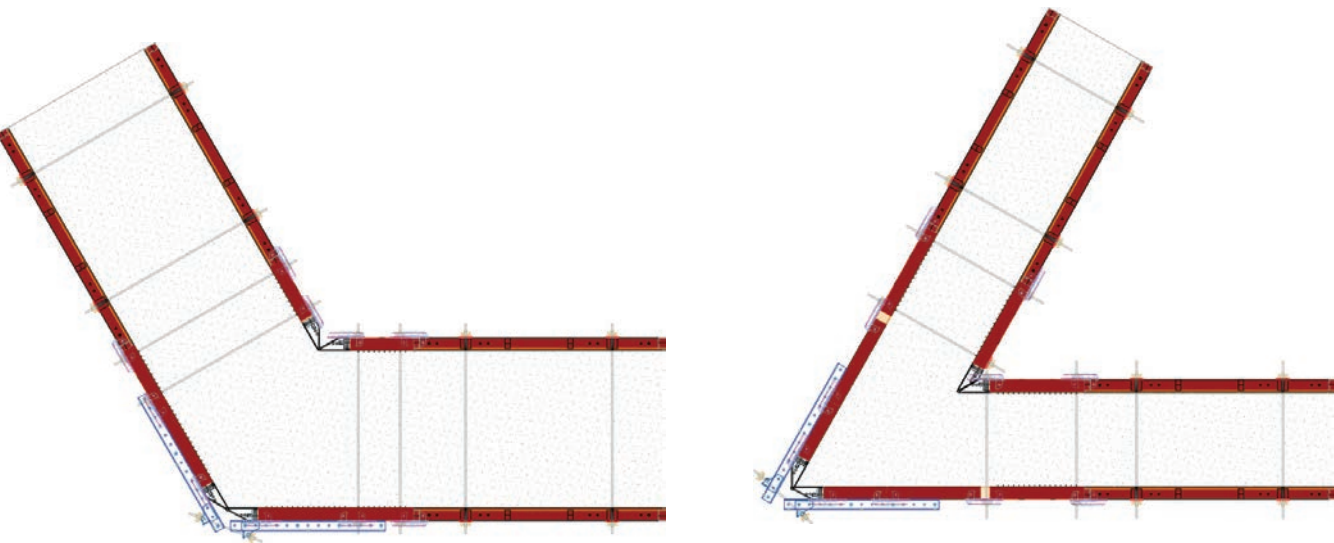


LARGE THICKNESS & SPECIAL WALLS

Wall Junction with TECH-form Panels

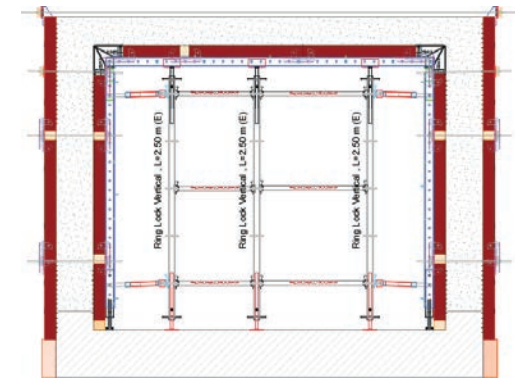


Bridge Abutment (example for large thickness walls) with TECH-form Panels

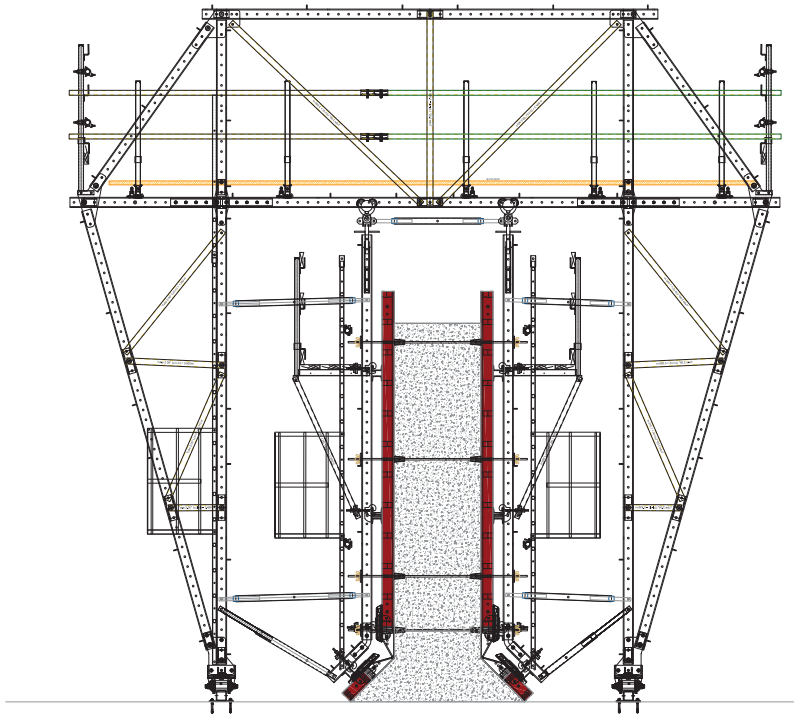


ADVANCED & CUSTOMIZED APPLICATIONS WITH TECH-FORM PANELS

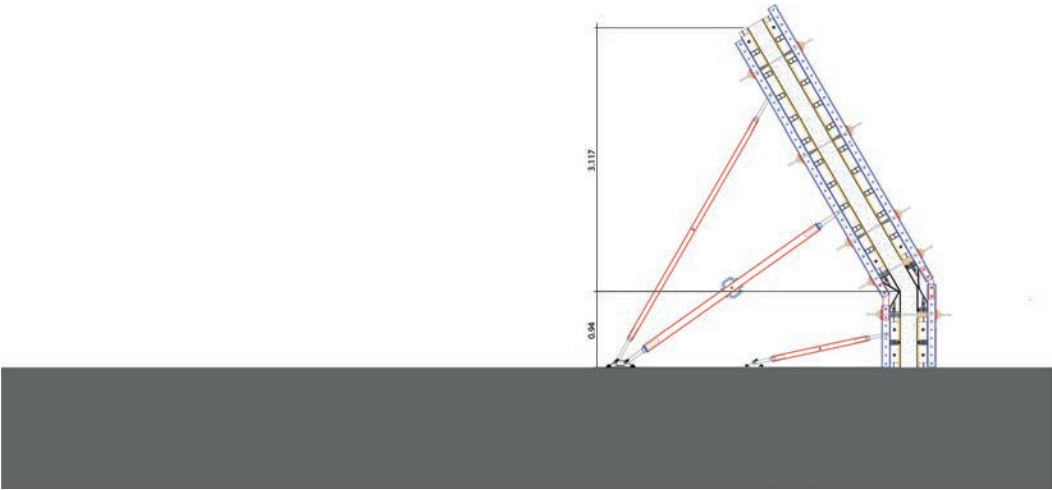
Tunnel-Form with TECH-form Panels



Traveling (Movable) Walls with TECH-form



Inclined Walls for Shelters with TECH-form Panels



COMPLEMENTARY COMPONENTS



TYING SYSTEM

ACCESS LADDERS

The acrow DW16-ties system is primarily used with soldiers, where minimum number of ties is required.
The continuous thread high tensile steel rod is the basis of the DW 16 tie system assembly.
The wing nut is designed to freely spin on the fast threaded rod, which effectively speeds both the erection and stripping times of the formwork.

Since safe and efficient access is paramount in formwork, ACROW offers a diverse selection of access ladders tailored to various formwork systems. These ladders can be customized to your needs and the specific system you're using, with options such as safety cages, trap doors, and compatible connection parts. To find the perfect access ladder for your project, consult your trusted ACROW sales representative.

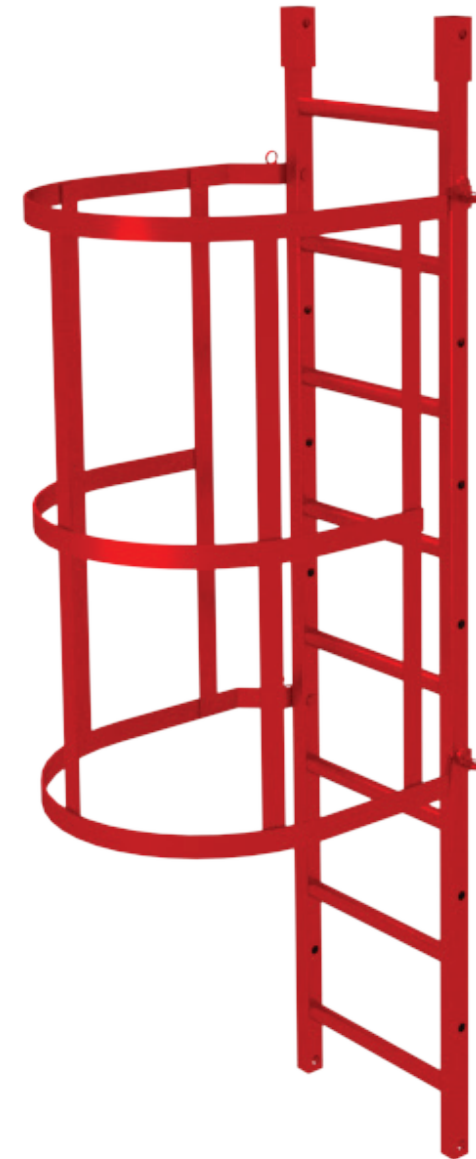
1-THRU DW tie system: there are no lost items.



2 - WATER SEAL DW 16 tie system



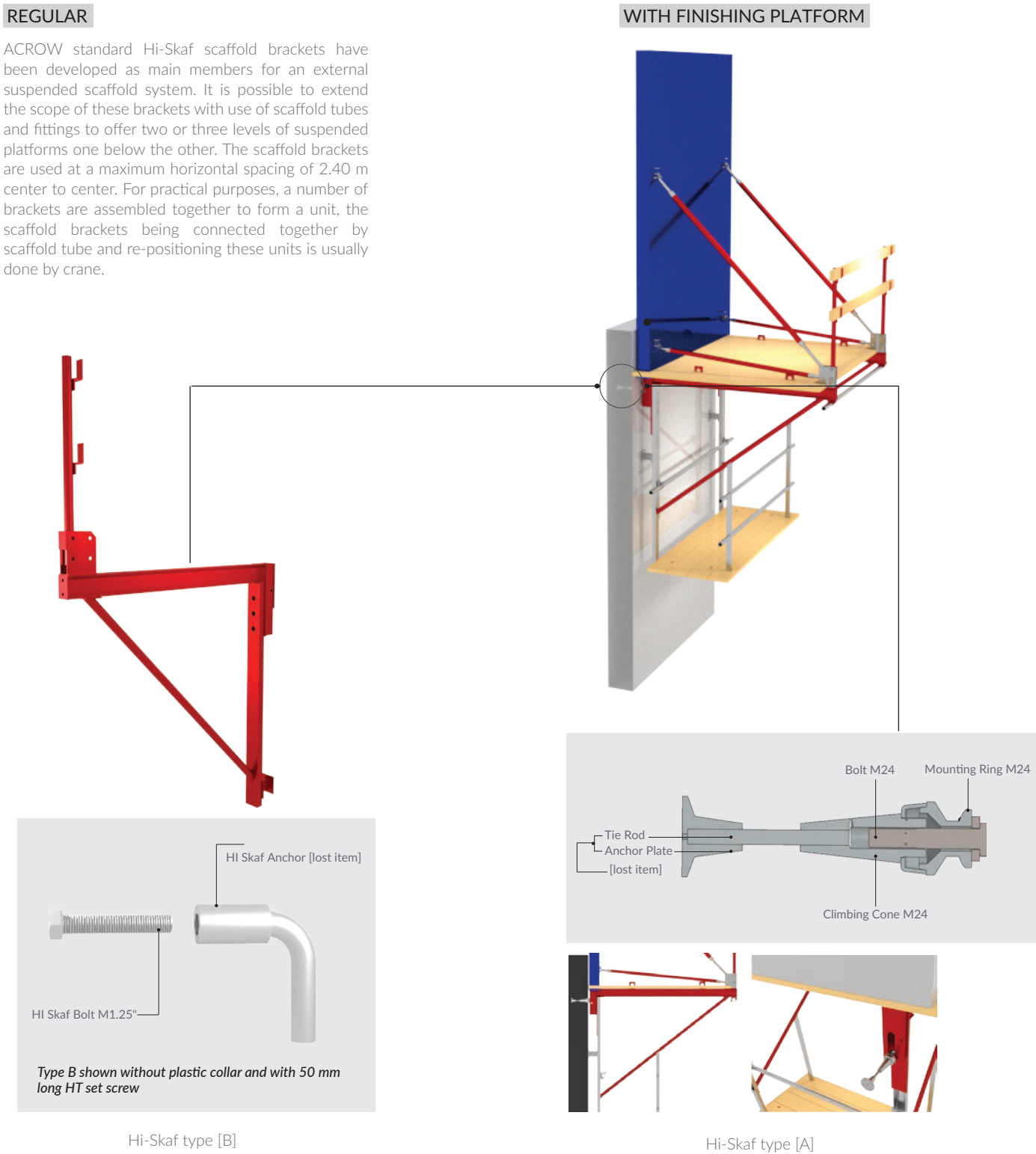
3- STEEL PLASTIC CONE MKK



HI-SKAF

REGULAR

ACROW standard Hi-Skaf scaffold brackets have been developed as main members for an external suspended scaffold system. It is possible to extend the scope of these brackets with use of scaffold tubes and fittings to offer two or three levels of suspended platforms one below the other. The scaffold brackets are used at a maximum horizontal spacing of 2.40 m center to center. For practical purposes, a number of brackets are assembled together to form a unit, the scaffold brackets being connected together by scaffold tube and re-positioning these units is usually done by crane.



ACROW BOARD



SPECIAL CLIENT BENEFITS

Formwork stripping
ACROW-BOARD is a non-stick formwork material that can be easily stripped from concrete without the need for a release agent. This leaves a clean and superior smooth concrete surface.

Physical Performance
Can withstand moisture, and fire.

Site Requirement
No special tools or equipment needed when working with the ACROW-BOARD. Traditional timber tools, nails, saw hammer...etc. are used.



SYSTEM COMPONENTS

[WALL -COLUMN]



Item	Description	Code no.	Weight (kg)
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TECH-form wall Panels



Tech-Form Panel H 3.30 × W 2.40 m (AB)	6221177171964	419.40
Tech-Form Panel H 3.30 × W 1.20 m (AB)	6221177171971	182.20
Tech-Form Panel H 3.30 × W 0.90 m (AB)	6221177171988	150.60
Tech-Form Panel H 3.30 × W 0.60 m (AB)	6221177171995	116.50
Tech-Form Panel H 3.30 × W 0.30 m (AB)	6221177172008	79.60
Tech-Form Panel H 2.40 × W 1.20 m (AB)	6221177172039	137.80
Tech-Form Panel H 2.40 × W 0.90 m (AB)	6221177172046	113.60
Tech-Form Panel H 2.40 × W 0.60 m (AB)	6221177172053	87.30
Tech-Form Panel H 2.40 × W 0.30 m (AB)	6221177172060	59.20
Tech-Form Panel H 1.20 × W 1.20 m (AB)	6221177172077	78.80
Tech-Form Panel H 1.20 × W 0.90 m (AB)	6221177172084	65.20
Tech-Form Panel H 1.20 × W 0.60 m (AB)	6221177172091	48.60
Tech-Form Panel H 1.20 × W 0.30 m (AB)	6221177172107	32.50
Tech-Form Panel H 0.90 × W 0.90 m (AB)	6221177172114	58.20
Tech-Form Panel H 0.90 × W 0.60 m (AB)	6221177172121	42.80
Tech-Form Panel H 0.90 × W 0.30 m (AB)	6221177172138	26.60
Tech-Form Panel H 0.60 × W 0.60 m (AB)	6221177172145	29.50
Tech-Form Panel H 0.60 × W 0.30 m (AB)	6221177172152	19.10

Item	Description	Code no.	Weight (kg)
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TECH-form Universal Wall Panel



TECH-Form Universal Wall Panel H 3.30 X W 1.20 m (AB)	6221177335168	211.20
TECH-Form Universal Wall Panel H 3.30 X W 0.90 m (AB)	6221177335182	171.60
TECH-Form Universal Wall Panel H 1.20 X W 1.20 m (AB)	6221177335175	87.40
TECH-Form Universal Wall Panel H 1.20 X W 0.90 m (AB)	6221177335199	71.20

Item	Description	Code no.	Weight (kg)
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TECH-Form column Panels



Tech-Form Column Panel H 3.30 x W 1.20 m (AB)	6221177171872	224.70
Tech-Form Column Panel H 3.30 x W 0.90 m (AB)	6221177171889	183.50
Tech-Form Column Panel H 3.30 x W 0.60 m (AB)	6221177171896	140.00
Tech-Form Column Panel H 1.20 x W 1.20 m (AB)	6221177171902	97.20
Tech-Form Column Panel H 1.20 x W 0.90 m (AB)	6221177171919	78.80
Tech-Form Column Panel H 1.20 x W 0.60 m (AB)	6221177171926	57.50
Tech-Form Column Panel H 0.60 x W 1.20 m (AB)	6221177171933	57.60
Tech-Form Column Panel H 0.60 x W 0.90 m (AB)	6221177171940	46.70
Tech-Form Column Panel H 0.60 x W 0.60 m (AB)	6221177171957	36.20

TECH-Form Internal Corner Panel



TECH-Form Internal Corner Panel 3.30X0.30X0.30 m	6221177034177	122.10
TECH-Form Internal Corner Panel 2.40X0.30X0.30 m	6221177034184	92.30
TECH-Form Internal Corner Panel 1.20X0.30X0.30 m	6221177034191	51.60
TECH-Form Internal Corner Panel 0.90X0.30X0.30 m	6221177034207	41.30
TECH-Form Internal Corner Panel 0.60X0.30X0.30 m	6221177034208	31.20

Item	Description	Code no.	Weight (kg)
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TECH-Form External Corner



TECH-Form External Corner Angle 3.30 m	6221177034214	40.70
TECH-Form External Corner Angle 2.40 m	6221177034221	30.50
TECH-Form External Corner Angle 1.20 m	6221177034238	16.70
TECH-Form External Corner Angle 0.90 m	6221177034245	13.30
TECH-Form External Corner Angle 0.60 m	6221177034246	8.30


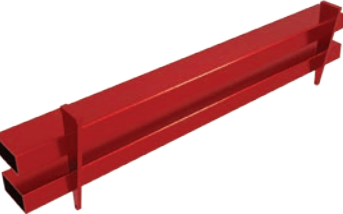
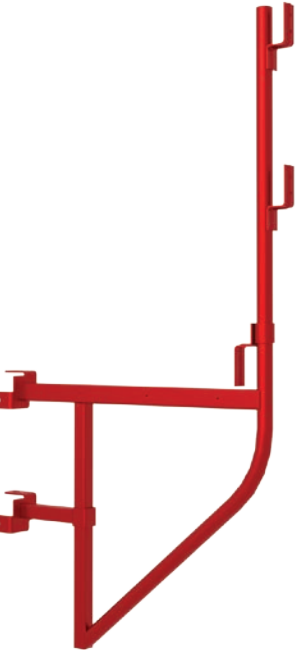
Hinged Corner Panel









TECH-Form Internal Hinged Corner Panel 3.30 m	6221177083618	164.20
TECH-Form Internal Hinged Corner Panel 2.40 m	6221177111632	120.30
TECH-Form Internal Hinged Corner Panel 1.20 m	6221177086527	63.40
TECH-Form Internal Hinged Corner Panel 0.90 m	6221177131821	48.50
TECH-Form Internal Hinged Corner Panel 0.60 m	6221177086528	34.20





Item	Description	Code no.	Weight (kg)
Stripping Corner			
	TECH-Form Stripping Corner 3.30 x 0.30 x 0.30 m	6221177173562	202.50
	TECH-Form Stripping Corner 1.20 x 0.30 x 0.30 m	6221177143046	84.50
TECH-Form Filler Panel			
	TECH-Form Filler Panel H 3.30 x W 0.40 m	6221177034153	58.00
	TECH-Form Filler Panel H 1.20 x W 0.40 m	6221177034160	24.00

TECH-FORM WALL ACCESSORIES

Item	Description	Code no.	Weight (kg)
TECH-Form Conti-lock Coupler (TFCL)			
		6221177054533	5.70
TECH-Form Compensation Waler (TFCW)			
		6221177149338	12.90
TECH-Form Adjustable Access Bracket			
		6221177156800	14.30

Item	Description	Code no.	Weight (kg)
TECH-FORM HANDRAIL POST			
		6221177345556	4.66
TECH-Form Crane Hook			
		6221177039349	7.40
TECH-Form Stop End Tie			
		6221177054694	2.00
Rivet Pin 17 mm, L=12.5 cm (Type I)			
		6221177012304	0.25
Spring Clip (medium)			
		6221177087289	0.03
Tech-Form Shore Connector			
	Tech-Form Shore Connector (H)	6221177343644	1.10
	Universal Tech-Form Shore Connector (2)	6221177333812	1.70


TECH-FORM COLUMN ACCESSORIES

Item	Description	Code no.	Qty.	Weight (kg)
Platforms of columns				
 	Platform 1.40 x 1.40 m	6221177027018	x1	52.50
	Handrail Frame for Platform 1.40x1.40 m	6221177003340	x2	18.50
	Platform 1.80 x 1.80 m	6221177040697	x1	68.30
	Handrail Frame for Platform 1.80x1.80 m	6221177045180	x2	22.00
	Platform 2.20 x 2.20 m	6221177039196	x1	63.70
	Handrail Frame for Platform 2.20x2.20 m	6221177010133	x2	28.20
	Handrail Frame for L-Platforms, W=0.60 m	6221177326586	x1	10.50
	Handrail Post for L-Platforms	6221177326593	x2	5.30
	Hex. Nut Dvd 3 cm (Type I)	221177011338	x4	0.10
	Rivet Pin 17 mm, L=12.5 cm (Type I)	6221177012304	x8	0.25
	Spring Clip (medium)	6221177087289	x8	0.03
	Bolt M16 × 120 mm Full Thread	2012090028718	x2	0.16
	Nut M16	2012210029779	x2	0.03
	Lifting eye	6221177042684	x2	1.50
TECH-form Plastic Chamfer				
	Tech-Form Plastic Chamfer 3.30 m	6221177158446		2.22
	Tech-Form Plastic Chamfer 1.20 m	6221177158453		0.81
	Tech-Form Plastic Chamfer 0.60 m	6221177158460		0.40
Acrow Bolt , L=30 cm DVD (Tech-Form)				
		6221177110505		0.55

TILTING ITEMS



Item	Description	Code no.	Weight (kg)
Tilt Up Shore			
	Tilt Up Shore X0 (Galv.)	6221177112424	12.50
	Tilt Up Shore X1 (Galv.)	6221177112431	19.20
	Tilt Up Shore X2 (Galv.)	6221177112448	20.40
	Tilt Up Shore X3 (Galv.)	6221177112455	23.00
	Tilt Up Shore X4 (Galv.)	6221177112462	27.80
Push Pull			
	Push Pull PPS132	6221177014261	7.30
	Push Pull PPS162	6221177014285	8.40
	Push Pull PPS202	6221177014308	9.60
	Push Pull PPS252	6221177014315	11.40
	Push Pull PPS302	6221177014322	13.30
	Push Pull PPS352	6221177014339	15.10
	Push Pull PPH164	6221177014032	21.70
	Push Pull PPH204	6221177014056	26.00
	Push Pull PPH206	6221177014070	27.60
	Push Pull PPH254	6221177014094	28.80
	Push Pull PPH304	6221177014117	33.00
	Push Pull PPH354	6221177014131	38.10
	Push Pull PPH404	6221177014155	42.40
	Push Pull PPH454	6221177014162	48.00
	Push Pull PPH502	6221177014186	50.70
	Push Pull PPH552	6221177014209	56.30
	Push Pull PPH602	6221177014223	82.10
	Push Pull PPH652	6221177014247	86.40
	Push-Pull Prop MPP4 (2.65:4.65) m	6221177163556	39.40
	Push-Pull Prop MPP5 (4.45:6.75) m	6221177163563	61.60
	Push-Pull Prop MPP6 (6.45:10.00) m	6221177163570	120.80
Base Plate			
	Double	6221177000813	2.40
	Single	6221177000882	1.50

TYING ITEMS



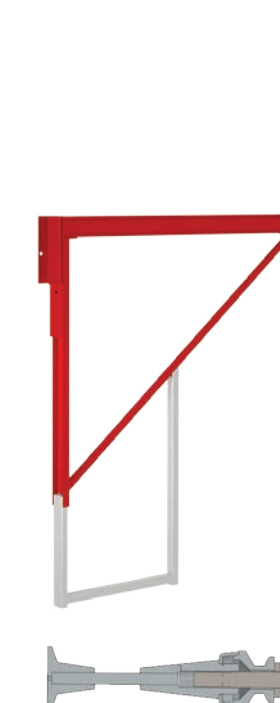
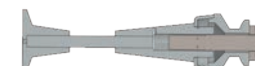
Item	Description	Code no.	Weight (kg)
Tie Rod			
	Tie Rod 15mm DW L=0.50m	6221177095581	0.79
	Tie Rod 15mm DW L=0.75m	6221177095598	1.20
	Tie Rod 15mm DW L=1.00m	6221177095604	1.60
	Tie Rod 15mm DW L=1.25m	6221177095611	2.00
	Tie Rod 15mm DW L=1.50m	6221177095628	2.40
	Tie Rod 15mm DW L=1.75m	6221177095635	2.80
	Tie Rod 15mm DW L=2.00m	6221177095642	3.20
	Tie Rod 15mm DW L=2.25m	6221177095659	3.60
	Tie Rod 15mm DW L=2.50m	6221177095666	4.00
	Tie Rod 15mm DW L=2.75m	6221177095673	4.30
	Tie Rod 15mm DW L=3.00m	6221177095680	4.70
	Tie Rod 15mm DW L=3.25m	6221177095697	5.10
	Tie Rod 15mm DW L=3.50m	6221177095703	5.50
	Tie Rod 15mm DW L=3.75m	6221177095710	5.90
	Tie Rod 15mm DW L=4.00m	6221177095727	6.30
	Tie Rod 15mm DW L=4.25m	6221177095734	6.70
	Tie Rod 15mm DW L=4.50m	6221177095741	7.10
	Tie Rod 15mm DW L=4.75m	6221177095758	7.50
	Tie Rod 15mm DW L=5.00m	6221177095765	7.90
	Tie Rod 15mm DW L=5.25m	6221177095772	8.30
	Tie Rod 15mm DW L=5.50m	6221177095789	8.70
	Tie Rod 15mm DW L=5.75m	6221177095796	9.10
	Tie Rod 15mm DW L=6.00m	6221177095802	9.50
	Tie Rod 20mm DW Type (G) L=0.50m	6221177100964	1.30
	Tie Rod 20mm DW Type (G) L=0.75m	6221177100988	2.00
	Tie Rod 20mm DW Type (G) L=1.00m	6221177100995	2.60
	Tie Rod 20mm DW Type (G) L=1.25m	6221177101015	3.30
	Tie Rod 20mm DW Type (G) L=1.50m	6221177101039	3.90
	Tie Rod 20mm DW Type (G) L=1.75m	6221177101053	4.60
	Tie Rod 20mm DW Type (G) L=2.00m	6221177101077	5.20
	Tie Rod 20mm DW Type (G) L=2.25m	6221177101091	5.90
	Tie Rod 20mm DW Type (G) L=2.50m	6221177101114	6.50
	Tie Rod 20mm DW Type (G) L=2.75m	6221177101138	7.20
	Tie Rod 20mm DW Type (G) L=3.00m	6221177101169	7.80
	Tie Rod 20mm DW Type (G) L=3.25m	6221177101183	8.50
	Tie Rod 20mm DW Type (G) L=3.50m	6221177101206	9.10
	Tie Rod 20mm DW Type (G) L=3.75m	6221177101220	9.80
	Tie Rod 20mm DW Type (G) L=4.00m	6221177100056	10.40
	Tie Rod 20mm DW Type (G) L=4.25m	6221177101251	11.10
	Tie Rod 20mm DW Type (G) L=4.50m	6221177100063	11.70
	Tie Rod 20mm DW Type (G) L=4.75m	6221177101282	12.40
	Tie Rod 20mm DW Type (G) L=5.00m	6221177101305	13.00
	Tie Rod 20mm DW Type (G) L=5.25m	6221177101329	13.70
	Tie Rod 20mm DW Type (G) L=5.50m	6221177101718	14.30
	Tie Rod 20mm DW Type (G) L=5.75m	6221177101732	15.00
	Tie Rod 20mm DW Type (G) L=6.00m	6221177101756	15.60

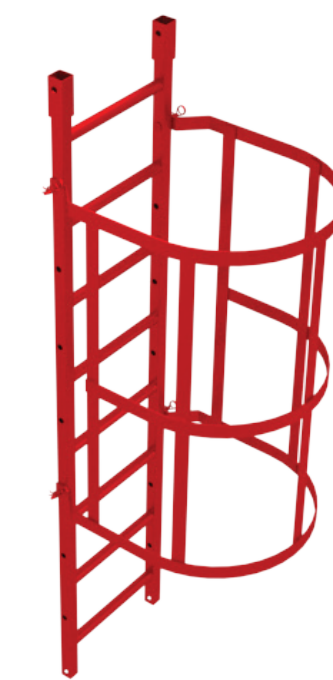
TYING ITEMS

Item	Description	Code no.	Weight (kg)
Wing Nut Pivot Plate 15mm DVD			
		6221177042745	1.60
Forged Wing Nut			
	Forged Wing Nut 15 mm DVD (Type I)	6221177011314	0.35
	Casting Wing Nut 20 mm DVD (Type G)	6221177070199	0.50
Steel Washer			
	Steel Washer 15 mm	6221177027513	1.10
	Steel Washer M20 (120x120x15mm)	6221177224837	1.70
Water Stop Tying System			
	Water barrier (flange type) (Type T)	6221177053574	0.56
	Water barrier (flange type) (Type I)	6221177028220	0.52
	Water Barrier 20 mm (flange type) (Type G)	6221177134099	2.26
Tie Rod Steel Cones			
	Steel-Plastic Cone type MKK	6221177136109	0.59
	Removing Tool for MKK Cone	6221177326777	
	Mold for Concrete Cone Type MKK	6221177226374	37.34

Item	Description	Code no.	Weight (kg)
TECH-form Stacking Device			
		6221177054649	12.90
Plastic Cap			
		2014020032265	0.002

PLATFORM ACCESSORIES

Item	Description	Code no.	Weight (kg)
Regular Hi-Skaf Bracketss			
	Hi-Skaf Bracket 2.40 m (Ø 32) (Unit)	6221177145934	66.40
	Hi-Skaf Bracket 2.00 m (Ø 32) (Unit)	6221177143374	54.00
	Hi-Skaf Bracket 1.80 m (Ø 32) (Unit)	6221177143992	52.10
	Hi-Skaf Bracket 1.50 m (Ø 32) (Unit)	6221177143954	48.60
	Hi-Skaf Bracket 1.20 m (Ø 32) (Unit)	6221177143367	45.60
	Hi-Skaf Bracket 1.00 m (Ø 32) (Unit)	6221177147938	43.60
	Hi-Skaf Bracket 0.90 m (Ø 32) (Unit)	6221177147853	42.60
	Hi-Skaf Bracket 0.75 m (Ø 32) (Unit)	6221177301712	30.90
	Bolts & Anchors for regular Hi-Skaf bracketss		
	HI Skaf Bolt M1.25" × 90 mm (10.9)	2012060063672	0.79
	HI Skaf Bolt M1.25" × 60 mm (10.9)	2012060063689	0.64
	lost item HI Skaf Anchor [lost item]	6221177028084	2.85
Hi-Skaf with Finishing Platform			
	Hi-Skaf Bracket 2.40 m (Cone type) (Unit)	6221177349820	79.70
	Hi-Skaf Bracket 2.00 m (Cone type) (Unit)	6221177349837	64.80
	Hi-Skaf Bracket 1.50 m (Cone type) (Unit)	6221177349844	58.30
	Hi-Skaf Bracket 1.00 m (Cone type) (Unit)	6221177349851	52.30
	Finishing Platform for Hi-Skaf Bracket	6221177349868	36.00
	Bolts & Anchors for Hi-Skaf brackets with finishing platforms:		
	Climbing Cone M24	6221177039400	2.10
	Mounting Ring M24	6221177039424	0.59
	Bolt M24 x 100 (10.9)	2012060028205	0.42
	Bolt M24 x 60 (8.8)	2012060028090	0.37
	lost item Tie Rod DW15 L=0.30m with Fixed Anchor Plate	6221177314095	1.20

Item	Description	Code no.	Weight (kg)
access ladders			
	Access Ladder 6.0 m (W42)	6221177233013	56.10
	Access Ladder 5.0 m (W42)	6221177330033	46.90
	Access Ladder 4.0 m (W42)	6221177326609	37.70
	Access Ladder 3.0 m (W42)	6221177223441	28.50
	Access Ladder 2.0 m (W42)	6221177223458	19.40
	Access Ladder 1.0 m (W42)	6221177223465	10.20
	Access Ladder 0.5 m (W42)	6221177223472	5.60
	Ladder Safety Cage 1.5 m (W42)	6221177211691	23.60
	Ladder Safety Cage 1.0 m (W42)	6221177223489	14.90
	Ladder Safety Cage 0.5 m (W42)	6221177223496	9.50
	Bolt M12 x 80 (8.8)	2012060062742	0.02
	Nut M12 (8.8)	2012180062752	0.01
	Ladder to TECH-Form Connection	6221177087883	6.44

20 OFFICE

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