

CATALOGUE ECO-FORM PANELS

ECO-FORM PANELS





PANEL RANGE

ECO-FORM WALLS













APPLICATIONS

- Pile caps.
- Walls.
- Foundations.
- Culverts.
- Beams sides

■ Cores, tanks.

LOADS



ACCORDING TO BS CODE [BS 5950 2000]



TECHNICAL DATA

■ Allowable height

are aligned, connected together ensuring tight

■ Concrete finish



■ Panels surface

cleaning, also maintenance and long life.

COMPATIBILITY

- Single Sided Walls (Light Frames / Brace Frames
- ACCS Crane Climbing Brackets
- AOSB190 Single Sided Climbing Brackets
- BSC Self-Climbing Brackets
- Hi-Skaf

Height [m]

0.60 1.20 1.80 2.40 3.00 0.30 • lacktriangle• Width [m] 0.45 • 🛦 • • 🛦 0.60 lacktriangle• 0.75 ▲ ■ ▲ ■ lacktriangle0.90 • 🛦 🗏 • A **I** ▲ ■ lacktriangle1.05 • lacktriangle

■ COLUMN PANELS
■ WALL PANELS
▲ MULTI PANELS



MAIN COMPONENTS

Supplied by WORCA

- 2- Access brackets
- 4- ECO-form internal corner panel
- 5- ECO-form external corner angle

SITE REQUIREMENTS

Supplied by Contractor









ASSEMBLY TOOLS



WORCA ECO-form Catalogue

WORCA ECO-form Catalogue

PROJECT REFERENCES

ECO-form wall panel













ECO-FORM COLUMNS

















APPLICATIONS

- Pile caps.
- Columns.
- Foundations.
- Beams side.

LOADS

		Permitted fresh-concrete pressure	
	70 kN/m ²	75kN/m ²	80 kN/m ²
0.90m	✓		
0.75m	✓	✓	
0.60m	✓	✓	✓

ACCORDING TO BS CODE [BS 5950 2000]



COMPATIBILITY

- Single Sided Walls (Light Frames / Brace
- ACCS Crane Climbing Brackets
- AOSB190 Single Sided Climbing Brackets
- BSC Self-Climbing Brackets
- Hi-Skaf

PANEL RANGE

1.80 0.60 1.20 2.40 3.00 0.30 • 🛦 • 🛦 • 🛦 • 0.45 • 🛦 • 🛦 • 🛦 • 🛦 0.60 ▲ ■ ▲ ■ • 🛦 lacktriangle0.75 ▲ ■ • 🛦 • 🛦 ▲ ■ 0.90 • A **I** ▲ ■ lacktriangle $\bullet \blacktriangle \blacksquare$ 1.05 • 🛦 • 🛦 •

Height [m]

■ COLUMN PANELS ● WALL PANELS ▲ MULTI PANELS

MAIN COMPONENTS

Supplied by WORCA

- Connecting parts (Couplers & compensation walers)
- Tying accessories

Panels surface

■ Allowable height

Concrete finish

Assembly

TECHNICAL DATA

are aligned, connected together ensuring tight

SITE REQUIREMENTS

Supplied by Contractor



TIMBER







R.C ANCHOR BOLTS PLASTIC TUBE

ASSEMBLY TOOLS



WORCA ECO-form Catalogue

WORCA ECO-form Catalogue

PROJECT REFERENCES

ECO-form column panel











ECO-FORM 1ULTI-PANEI

















TIME SAVER COMPATIBLE MEDIUM DUTY SIMPLE SUPERIOR ASSEMBLY CONCRETE FINISH

ECO Multi-Panel takes the good of both, it can work as column or wall. This gives the panel great advantage over the regular panel in many situations. Also, the presented design keeps the advantage of using the panel along with any regular panel using same accessories.

APPLICATIONS

- Foundations.
- Walls
- Columns.
- Cores, tanks.
- Pile caps.
- Culverts
- Beams side.

LOADS

anel Width

		Perm	itted fresh-concr	ete pressure		
	55 kN/m ²	56 kN/m ²	70 kN/m ²	85 kN/m ²	90 kN/m ²	100 kN/m ²
1.05m	✓					
0.90m	✓	✓				
0.75m	✓	✓	✓			
0.60m	✓	✓	✓	✓		
0.45m	✓	✓	✓	✓	✓	
0.30m	✓	✓	✓	✓	✓	√

ACCORDING TO BS CODE [BS 5950 2000]

PANEL RANGE

Height [m]

1.80 3.00 0.60 1.20 2.40 0.30 • • • 0.45 • • • 0.60 • • 🛦 0.75 • 🛦 • 0.90 • **A** • • 1.05 lacktriangle• • •

■ COLUMN PANELS
■ WALL PANELS
▲ MULTI PANELS

TECHNICAL DATA



Clamp range

Allowable height

Assembly

and flush connections using couplers - universal

Concrete finish





■ Panels surface

Superb powder coating allows easy and fast

SITE REQUIREMENTS

Supplied by Contractor



TIMBER











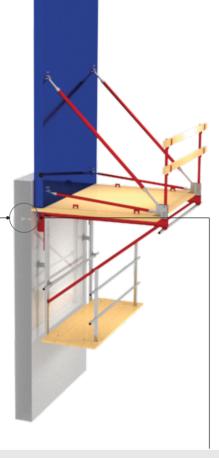
ASSEMBLY TOOLS

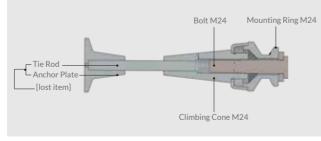




Hi-Skaf type [B]

WITH FINISHING PLATFORM







Hi-Skaf type [A]

ACCESS LADDERS

Since safe and efficient access is paramount in formwork, WORCA 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 WORCA sales representative.



Ladder to Eco-Form Connection

WORCA BOARD









DURABLE







EASY CO TO CLEAN EFFEC

SPECIAL CLIENT BENEFITS

Formwork stripping

WORCA-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

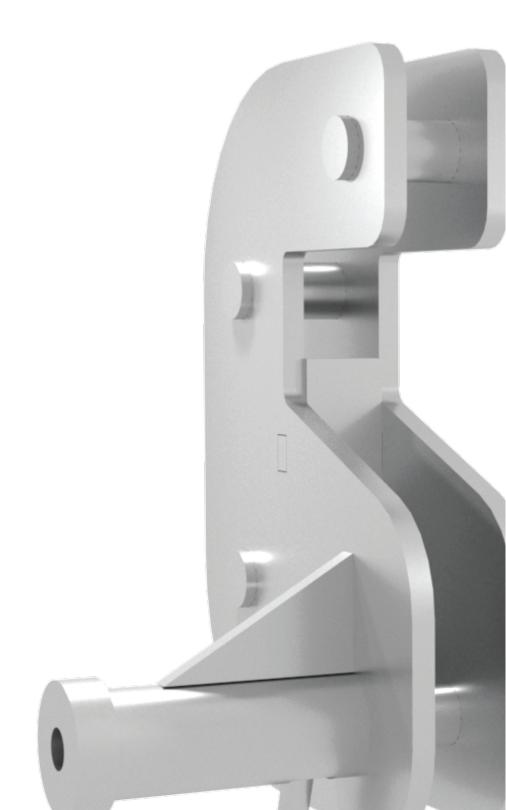
Can withstand moisture, and fire.

Site Requirement

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



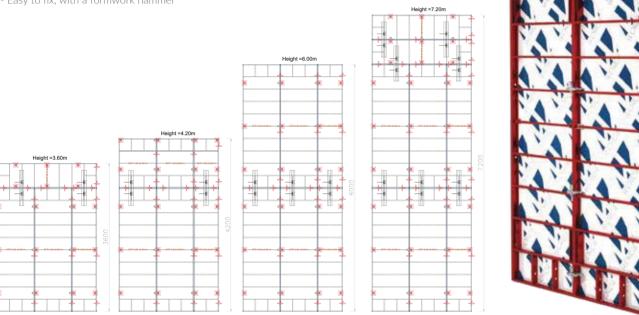
SOLUTIONS



ECO-FORM PANELS CONNECTIONS

Attributes of ECO-form accessories for connecting panels:

- 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

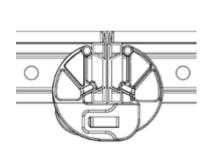


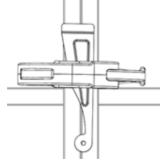
SIMPLE PANELS CONNECTIONS (WITHOUT FILLERS)

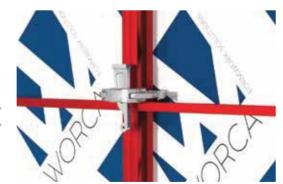
Using ECO-form Coupler (EFC)

3 couplers are needed to connect 3.0m height adjacent panels.









PANELS CONNECTIONS WITH FILLERS UP TO 10 CM

Using ECO-form Universal Coupler (EFUC)

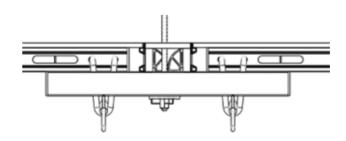
With the Universal coupler, the panels are joined so that they are resistant to tensile forces, and are aligned at the same time. The Universal coupler is placed directly over the cross profile.

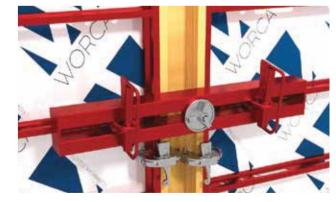


PANELS CONNECTIONS WITH FILLERS (10 CM < FILLER < 30 CM)

Using ECO-form Compensation Waler (EFCW)

Joining panels using Compensation Walers provides additional bracing to the adjacent panels to work as one unit. The Compensation Waler is placed directly over the cross profile and fixed to it using its clamps.





PANELS EXTENSIONS (VERTICAL STACKING OF PANELS)

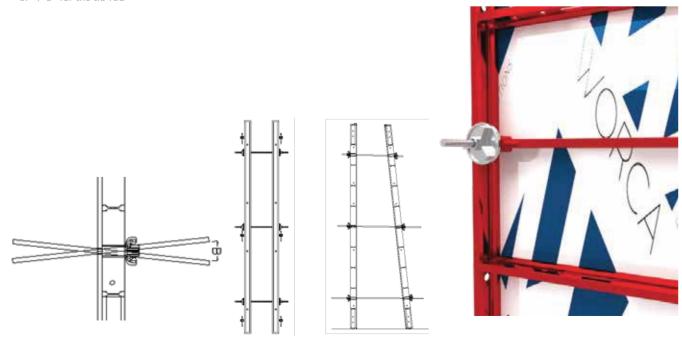
Panels are stacked vertically up to a height of 7.20m using only ECO-form Couplers (EFC) & ECO-form Compensation Walers (EFCW).



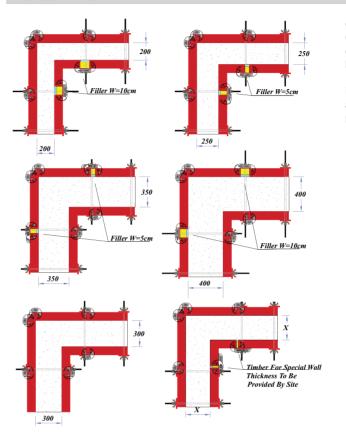
TYING SYSTEM

Tie Rods DW15 system is used with the ECO-form panels.

Tapered plastic sleeves pass through the ECO-form panel frame to allow an inclination angle of $\pm -5^{\circ}$ for the tie-rod



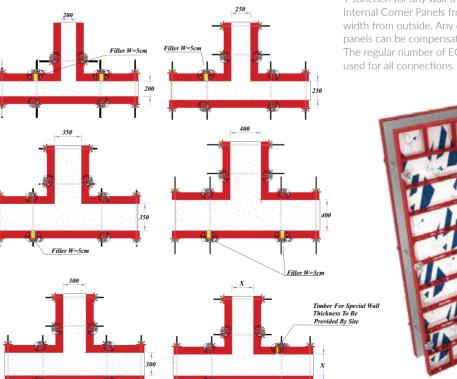
90° CORNERS



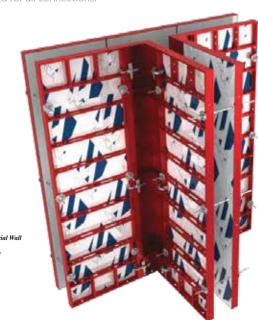
Corners for any wall thickness can be handled using ECO-form Internal Corner Panels from inside, and ECO-form External Corner Angles from outside with ECO-form panels with the right width. Any difference between the inside and outside panels can be compensated using 50mm or 100mm filling timber. The regular number of ECO-form Couplers / Universal Clamps are used for the internal side, while additional couplers are required for the external side to ensure tight connections (5 couplers per 3.0 m height for each side of the External Angle).



T-JUNCTION



T-Junction for any wall thickness can be handled using ECO-form Internal Corner Panels from inside, and ECO-form Panels with the right width from outside. Any difference between the inside and outside panels can be compensated using 50mm or 100mm filling timber. The regular number of ECO-form Couplers / Universal Clamps are



PUSH-PULL-BRACING

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

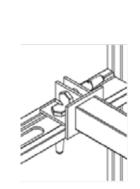
First panel must be braced with 2 push-pull props, and the arrangement afterwards is according to design tables based on height and wind conditions.



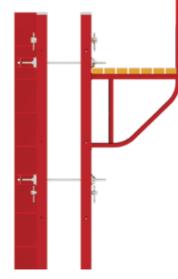
SAFETY ACCESS BRACKETS

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/m^2 .

ECO-form Adjustable Access Bracket can be fixed to either horizontal or vertical panel profiles, providing much needed flexibility with any arrangement of panels.





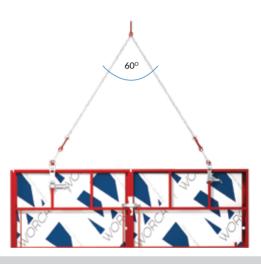


LIFTING

ECO-form Crane Hook enables the lifting of either individual panels or large unit of panels (up to 22 m^2). 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 ECO-form lifting hook is 1000 KG/Hook, with a maximum of 60° between lifting chains.



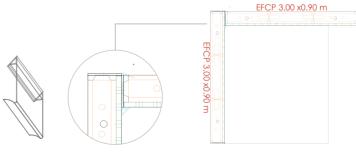




COLUMN FORMWORK

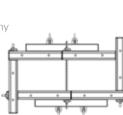
Any column section can be shuttered in a windmill principle with ECO-form Column Panels, from 20x20 cm up to any size in 5cm increments. Perpendicular panels are closed together using WORCA Bolts. ECO-form Couplers, Compensation Walers & Tie Rods are added when any side requires several adjacent panels.

ECO-form Plastic Chamfers are used to have smooth chamfered corners. Their assembly is very easy - without nailing - by just pushing them in place [must be requested by customers].



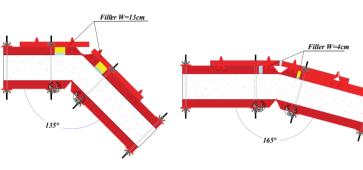
Concreting Platforms for ECO-form columns are a safe and convenient way for concreting works. It has all the necessary safety measures and accessibility. It comes in 3 different sizes, each size covers a wide range of columns



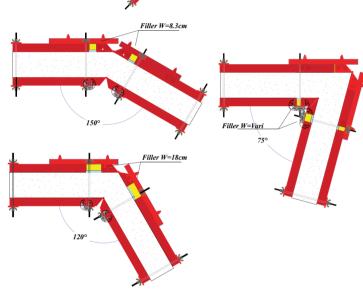




ACUTE & OBTUSE-ANGLED CORNERS



Articulated corners (either acute or obtuse angle) for any wall thickness can be handled using ECO-form Hinged Corner Panels from inside, and the same Hinged Corner Panels with ECO-form Multi-Panels with the right width from outside. Any difference between the inside and outside panels can be compensated using 50mm or 100mm 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 (5 couplers per 3.0 m height), with also 2 ECO-form Compensation Walers per connection.



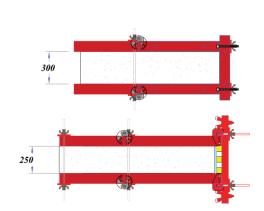


STOP-END FORMWORK

Stop-Ends for any wall thickness can be closed by either one of these 2 methods:

a) Traditionally closed with plywood & forming timber and lock them with ECO-form Compensation Walers fixed to both sides of the wall using ECO-form Stop-End Ties.

b) With ECO-form Multi-Panel with the suitable width fixed to both sides of the wall using WORCA Bolts.





PILASTERS

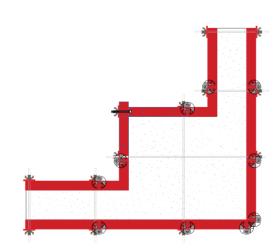
IN MID-WALLS:

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



AT CORNERS:

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

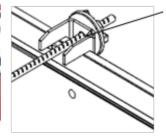








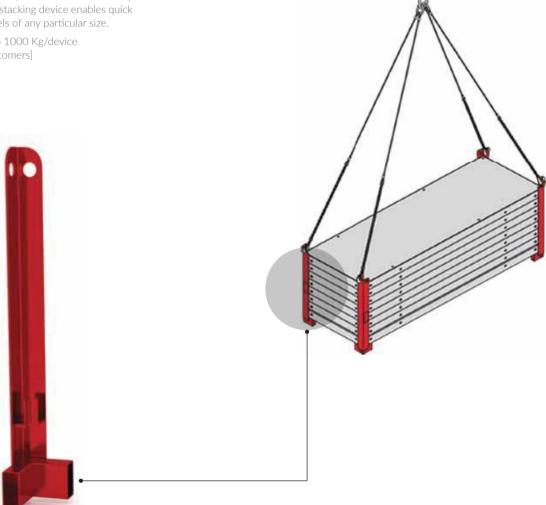




STORAGE

- 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 8 panels of any particular size.

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



SYSTEM COMPONENTS

■ [WALL - COLUMN - MULTI PANEL]





ECO-Form Panel 3.00 x W 1.05 m (WB) ECO-Form Panel 3.00 x W 0.90 m (WB) ECO-Form Panel 3.00 x W 0.75 m (WB) ECO-Form Panel 3.00 x W 0.60 m (WB) ECO-Form Panel 3.00 x W 0.45 m (WB) ECO-Form Panel 3.00 x W 0.30 m (WB)	108.21 96.73 79.92 69.52 59.13 46.94	
ECO-Form Panel 2.40 x W 1.05 m (WB) ECO-Form Panel 2.40 x W 0.90 m (WB) ECO-Form Panel 2.40 x W 0.75 m (WB) ECO-Form Panel 2.40 x W 0.60 m (WB) ECO-Form Panel 2.40 x W 0.45 m (WB) ECO-Form Panel 2.40 x W 0.30 m (WB)	84.47 76.01 65.76 57.31 50.92 38.62	
ECO-Form Panel 1.80 x W 1.05 m (WB) ECO-Form Panel 1.80 x W 0.90 m (WB) ECO-Form Panel 1.80 x W 0.75 m (WB) ECO-Form Panel 1.80 x W 0.60 m (WB) ECO-Form Panel 1.80 x W 0.45 m (WB) ECO-Form Panel 1.80 x W 0.30 m (WB)	66.19 59.67 54.60 44.86 38.36 30.06	
ECO-Form Panel 1.20 x W 1.05 m (WB) ECO-Form Panel 1.20 x W 0.90 m (WB) ECO-Form Panel 1.20 x W 0.75 m (WB) ECO-Form Panel 1.20 x W 0.60 m (WB) ECO-Form Panel 1.20 x W 0.45 m (WB) ECO-Form Panel 1.20 x W 0.30 m (WB)	46.84 42.27 35.90 31.35 26.78 20.42	
ECO-Form Panel 0.60 x W 1.05 m (WB) ECO-Form Panel 0.60 x W 0.90 m (WB) ECO-Form Panel 0.60 x W 0.75 m (WB) ECO-Form Panel 0.60 x W 0.60 m (WB) ECO-Form Panel 0.60 x W 0.45 m (WB) ECO-Form Panel 0.60 x W 0.30 m (WB)	27.48 24.84 20.58 17.82 15.35 10.84	

[B] ECO-FORM COLUMN

Item	Description	Weight (kg)
ECO-form column panel [wi	ith WORCA board]	
	ECO-Form Column Panel H 3.00 x W 0.90 m (WB) ECO-Form Column Panel H 3.00 x W 0.75 m (WB) ECO-Form Column Panel H 3.00 x W 0.60 m (WB)	110.28 95.15 79.51
	ECO-Form Column Panel H 1.20 x W 0.90 m (WB) ECO-Form Column Panel H 1.20 x W 0.75 m (WB) ECO-Form Column Panel H 1.20 x W 0.60 m (WB)	50.89 42.67 36.25
	ECO-Form Column Panel H 0.60 x W 0.90 m (WB) ECO-Form Column Panel H 0.60 x W 0.75 m (WB) ECO-Form Column Panel H 0.60 x W 0.60 m (WB)	28.93 23.85 20.43

[C] ECO-FORM MULTI-PANELS

Item	Description	Weight (kg)
ECO-form Multi-Panel [with	WORCA board]	
	ECO-Form Multi-Panel H 3.00 x W 1.05 m (WB) ECO-Form Multi-Panel H 3.00 x W 0.90 m (WB) ECO-Form Multi-Panel H 3.00 x W 0.75 m (WB) ECO-Form Multi-Panel H 3.00 x W 0.60 m (WB) ECO-Form Multi-Panel H 3.00 x W 0.45 m (WB) ECO-Form Multi-Panel H 3.00 x W 0.30 m (WB)	120.30 106.96 91.31 79.16 65.55 50.92
	ECO-Form Multi-Panel H 2.40 x W 1.05 m (WB) ECO-Form Multi-Panel H 2.40 x W 0.90 m (WB) ECO-Form Multi-Panel H 2.40 x W 0.75 m (WB) ECO-Form Multi-Panel H 2.40 x W 0.60 m (WB) ECO-Form Multi-Panel H 2.40 x W 0.45 m (WB) ECO-Form Multi-Panel H 2.40 x W 0.30 m (WB)	102.87 90.70 78.70 67.74 56.77 40.79
	ECO-Form Multi-Panel H 1.80 x W 1.05 m (WB) ECO-Form Multi-Panel H 1.80 x W 0.90 m (WB) ECO-Form Multi-PanelH 1.80 x W 0.75 m (WB) ECO-Form Multi-Panel H 1.80 x W 0.60 m (WB) ECO-Form Multi-Panel H 1.80 x W 0.45 m (WB) ECO-Form Multi-Panel H 1.80 x W 0.30 m (WB)	78.47 70.09 59.89 51.40 43.15 34.00
	ECO-Form Multi-Panel H 1.20 x W 1.05 m (WB) ECO-Form Multi-Panel H 1.20 x W 0.90 m (WB) ECO-Form Multi-Panel H 1.20 x W 0.75 m (WB) ECO-Form Multi-Panel H 1.20 x W 0.60 m (WB) ECO-Form Multi-Panel H 1.20 x W 0.45 m (WB) ECO-Form Multi-Panel H 1.20 x W 0.30 m (WB)	58.07 51.45 43.86 40.16 32.75 26.14
	ECO-Form Multi-Panel H 0.60 x W 1.05 m (WB) ECO-Form Multi-Panel H 0.60 x W 0.90 m (WB) ECO-Form Multi-Panel H 0.60 x W 0.75 m (WB) ECO-Form Multi-Panel H 0.60 x W 0.60 m (WB) ECO-Form Multi-Panel H 0.60 x W 0.45 m (WB) ECO-Form Multi-Panel H 0.60 x W 0.30 m (WB)	32.38 27.23 23.90 20.57 15.42 12.09

[D] ECO-FORM CORNER PANELS

Item	Description	Weight (kg)
ECO-form internal corner panel		
	ECO-Form Internal Corner Panel 3.00 x 0.30 x 0.30m ECO-Form Internal Corner Panel 2.40 x 0.30 x 0.30m ECO-Form Internal Corner Panel 1.80 x 0.30 x 0.30m ECO-Form Internal Corner Panel 1.20 x 0.30 x 0.30m ECO-Form Internal Corner Panel 0.60 x 0.30 x 0.30m	88.82 72.91 55.29 48.94 20.82
ECO-form external corner angle	e	
	ECO-Form External Corner Angle 3.00m ECO-Form External Corner Angle 2.40m ECO-Form External Corner Angle 1.80m ECO-Form External Corner Angle 1.20m ECO-Form External Corner Angle 0.60m	19.84 16.06 11.65 7.87 3.93
ECO-form Internal Hinged Cor	ner Panel	
	ECO-Form Internal Hinged Corner Panel 3.00 x 0.20 x 0.20m ECO-Form Internal Hinged Corner Panel 2.40 x 0.20 x 0.20m ECO-Form Internal Hinged Corner Panel 1.80 x 0.20 x 0.20m ECO-Form Internal Hinged Corner Panel 1.20 x 0.20 x 0.20m ECO-Form Internal Hinged Corner Panel 0.60 x 0.20 x 0.20m	86.48 69.38 52.90 36.18 19.57

[E] ECO-FORM WALL ACCESSORIES

Item	Description	Weight (kg)
ECO-form Coupler (EFC)		
		1.40
ECO-form Universal Clamp		
		2.24
ECO-form Compensation Waler		
	ECO-Form Compensation Waler (EFCW) ECO-Form Compensation Waler L=1.30m	8.72 13.61
ECO-form Adjustable Access Brad	cket	
J		15.02

Item	Description		Weight (kg)	
ECO-form Crane Hook Type (I)				
			3.93	
ECO-form Stacking Device	Qt	y.		
	x	8 8.10		
ECO-form stop end tie			2.11	
			2.22	
Eco-Form Double Shore Connector				
多			2.06	

Item	Description	Weight (kg)
Rivet Pin 17 mm, L=12.5 cm (Type I)		
		0.25
Spring Clip (medium)		
		0.01
WO		
Lower Cleat Angle		
		0.85
6		
Top Tie Clamp		
		2.35
Plastic Cap		
		0.002
Plastic Cover		
		0.002

[F] ECO-FORM COLUMN ACCESSORIES

Item	Description	Weight (kg)
ECO-form Extension Panel		
	ECO-Form Extension Panel H 0.15 x W 0.90 m ECO-Form Extension Panel H 0.15 x W 0.75 m ECO-Form Extension Panel H 0.15 x W 0.60 m	7.60 7.25 5.80
WORCA Bolt , L= 18 cm DVD		0.365
ECO-form Plastic Chamfer		
Plastic Cap	ECO-Form Plastic Chamfer 6.00 m ECO-Form Plastic Chamfer 3.00 m ECO-Form Plastic Chamfer 1.20 m ECO-Form Plastic Chamfer 0.60 m	3.03 1.52 0.61 0.31
		0.002

[G] TILTING ITEMS

Item	Description	Weight (kg)
Push Pull props		
Tilt Up Shore	Push Pull PPS132 Push Pull PPS162 Push Pull PPS202 Push Pull PPH164 Push Pull PPH206 Push Pull PPH304 Push Pull PPH354 Push Pull PPH454 Push Pull PPH454 Push-Pull Prop MPP4 (2.65:4.65) m Push-Pull Prop MPP5 (4.45:6.75) m	7.29 8.38 9.62 21.72 27.58 33.02 38.10 42.37 47.95 39.43 61.64
	Tilt Up Shore X0 (Galv.) Tilt Up Shore X1 (Galv.) Tilt Up Shore X2 (Galv.) Tilt Up Shore X3 (Galv.) Tilt Up Shore X4 (Galv.)	12.45 19.17 20.43 22.96 27.81
Base Plate		
	Double Base Plate Single Base Plate	2.94 1.30

[H] TYING ITEMS

Item	Description	Weight (kg)
Tie Rod DVD		
Steel Washer	Tie Rod DW L=0.50m Tie Rod DW L=0.75m Tie Rod DW L=1.00m Tie Rod DW L=1.25m Tie Rod DW L=1.50m Tie Rod DW L=1.50m Tie Rod DW L=1.75m Tie Rod DW L=2.20m Tie Rod DW L=2.25m Tie Rod DW L=2.25m Tie Rod DW L=2.50m Tie Rod DW L=3.50m Tie Rod DW L=3.00m Tie Rod DW L=3.00m Tie Rod DW L=3.25m Tie Rod DW L=3.50m Tie Rod DW L=3.75m Tie Rod DW L=3.75m Tie Rod DW L=4.00m Tie Rod DW L=4.00m Tie Rod DW L=4.50m Tie Rod DW L=4.50m Tie Rod DW L=4.50m Tie Rod DW L=5.50m Tie Rod DW L=5.50m Tie Rod DW L=5.55m Tie Rod DW L=5.55m Tie Rod DW L=5.55m Tie Rod DW L=5.55m Tie Rod DW L=5.75m Tie Rod DW L=6.00m	0.79 1.19 1.58 1.98 2.37 2.77 3.16 3.56 3.95 4.35 4.74 5.14 5.53 5.93 6.32 6.72 7.11 7.51 7.90 8.30 8.69 9.09 9.00
Steel Washel		1.13
Forged Wing Nut 15 mm DVI	O (Type I)	
Wing Nut Pivot Plate 15mm [0.35
The state of the s		1.55
Tying Items		
	Water Barrier (flange type) (Type T) Plastic Reducer for Water Barier	0.56 0.01

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[I] PLATFORM ACCESSORIES

Item	Description	Qty.	Weight (kg)
Platforms of columns			
access ladders	Platform 1.40 x 1.40 m Handrail Frame for Platform 1.40x1.40 m Platform 1.80 x 1.80 m Handrail Frame for Platform 1.80x1.80 m Platform 2.20 x 2.20 m Handrail Frame for Platform 2.20x2.20 m Handrail Frame for L-Platforms, W=0.60 m Handrail Post for L-Platforms Hex. Nut Dvd 3 cm (Type I) Rivet Pin 17 mm, L=12.5 cm (Type I) Spring Clip (medium) Bolt M16 × 120 mm Full Thread Nut M16	x1 x2 x1 x2 x1 x2 x1 x2 x1 x2 x4 x8 x8 x2 x2	52.53 18.50 68.33 22.00 63.70 28.20 10.51 5.29 0.10 0.25 0.03 0.16 0.03
access ladders	Access Ladder 6.0 m (W42) Access Ladder 5.0 m (W42) Access Ladder 4.0 m (W42) Access Ladder 3.0 m (W42) Access Ladder 2.0 m (W42) Access Ladder 1.0 m (W42) Access Ladder 0.5 m (W42) Ladder Safety Cage 1.5 m (W42) Ladder Safety Cage 1.0 m (W42) Ladder Safety Cage 0.5 m (W42) Bolt M12 x 80 (8.8) Nut M12 (8.8) Ladder to Eco-Form Connection		56.05 46.90 37.70 28.50 19.35 10.15 5.60 23.55 14.85 9.50 0.02 0.01 6.44
Liftting Eye bolt L=23cm			1.50

JLAR Description	Weight (kg)
Hi-Skaf Bracket 2.40 m (Ø 32) (Unit) Hi-Skaf Bracket 1.80 m (Ø 32) (Unit) Hi-Skaf Bracket 1.50 m (Ø 32) (Unit) Hi-Skaf Bracket 1.50 m (Ø 32) (Unit) Hi-Skaf Bracket 1.20 m (Ø 32) (Unit) Hi-Skaf Bracket 1.00 m (Ø 32) (Unit) Hi-Skaf Bracket 0.90 m (Ø 32) (Unit) Hi-Skaf Bracket 0.75 m (Ø 32) (Unit) Bolts & Anchors for regular Hi-Skaf bracketss HI Skaf Bolt M1.25" × 90 mm (10.9) HI Skaf Bolt M1.25" × 60 mm (10.9) lost item HI Skaf Anchor [lost item]	66.40 53.95 52.10 48.55 45.60 43.55 42.60 30.85
Hi-Skaf Bracket 2.40 m (Cone type) (Unit) Hi-Skaf Bracket 2.00 m (Cone type) (Unit) Hi-Skaf Bracket 1.50 m (Cone type) (Unit) Hi-Skaf Bracket 1.00 m (Cone type) (Unit) Finishing Platform for Hi-Skaf Bracket	79.70 64.75 58.30 52.30 36.00
Bolts & Anchors for Hi-Skaf brackets with finishing platforms: Climbing Cone M24 Mounting Ring M24 Bolt M24 x 100 (10.9) Bolt M24 x 60 (8.8) Iost item Tie Rod DW15 L=0.30m with Fixed Anchor Plate	2.11 0.59 0.42 0.37
	Hi-Skaf Bracket 2.40 m (Ø 32) (Unit) Hi-Skaf Bracket 1.80 m (Ø 32) (Unit) Hi-Skaf Bracket 1.80 m (Ø 32) (Unit) Hi-Skaf Bracket 1.20 m (Ø 32) (Unit) Hi-Skaf Bracket 1.20 m (Ø 32) (Unit) Hi-Skaf Bracket 1.90 m (Ø 32) (Unit) Hi-Skaf Bracket 0.90 m (Ø 32) (Unit) Hi-Skaf Bracket 0.75 m (Ø 32) (Unit) Hi-Skaf Bracket 0.75 m (Ø 32) (Unit) Bolts & Anchors for regular Hi-Skaf bracketss HI Skaf Bolt M1.25" × 90 mm (10.9) HI Skaf Bolt M1.25" × 60 mm (10.9) lost item HI Skaf Anchor [lost item] Mi Skaf Anchor [lost item] Bolts & Anchors for Hi-Skaf Bracket Bolts & Anchors for Hi-Skaf Bracket Bolts & Anchors for Hi-Skaf brackets with finishing platforms: Climbing Cone M24 Mounting Ring M24 Bolt M24 x 100 (10.9) Bolt M24 x 60 (8.8) Lost item

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TYING SYSTEM

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.

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



2 - WATER SEAL DW 16 tie system



3- STEEL PLASTIC CONE MKK



