

CATALOGUE



## ECO-FORM PANELS



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## ECO-FORM WALLS

















**APPLICATIONS** 

- Pile caps.
- Walls.
- Foundations.
- Culverts.
- Beams sides ■ Cores, tanks.

### LOADS



ACCORDING TO BS CODE [BS 5950 2000]



### TECHNICAL DATA

#### ■ Clamp range

#### ■ Allowable height

#### Assembly

are aligned, connected together ensuring tight

#### ■ Concrete finish





#### ■ Panels surface

cleaning, also maintenance and long life.

#### ■ Corner

## COMPATIBILITY

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

## PANEL RANGE

#### Height [m] 0.60 1.20 1.80 2.40 3.00 lacktriangle• • • • 🔺 lacktriangle• ▲ ■ ▲ ■ • lacktriangle

■ COLUMN PANELS
■ WALL PANELS
▲ MULTI PANELS

0.30

0.45

0.60

0.75

0.90

1.05

• A **=** 

•

Width [m]

lacktriangle

lacktriangle

▲ ■

• 🛦



### MAIN COMPONENTS

#### Supplied by ACROW

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

## SITE REQUIREMENTS

Supplied by Contractor









ASSEMBLY TOOLS



ACROW ECO-form Catalogue

ACROW 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 <sup>2</sup>	75kN/m²	80 kN/m <sup>2</sup>		
0.90m	<b>✓</b>				
0.75m	<b>✓</b>	✓			
0.60m	<b>✓</b>	✓	<b>✓</b>		

ACCORDING TO BS CODE [BS 5950 2000]





Assembly

are aligned, connected together ensuring tight

Concrete finish





#### Panels surface



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



#### 1.80 0.60 1.20 2.40 3.00 0.30 • 🛦 • 🛦 • • 0.45 • 🛦 • 🛦 • 🛦 • 🛦 🔳 0.60 ▲ ■ ▲ ■ • lacktriangle0.75 ▲ ■ • 🛦 • 🛦 ▲ ■ 0.90 • 🛦 🔳 • 1.05 • 🛦

Height [m]

■ COLUMN PANELS ● WALL PANELS ▲ MULTI PANELS

### MAIN COMPONENTS

Supplied by ACROW

- Tying accessories

SITE REQUIREMENTS Supplied by Contractor



TIMBER









ASSEMBLY TOOLS



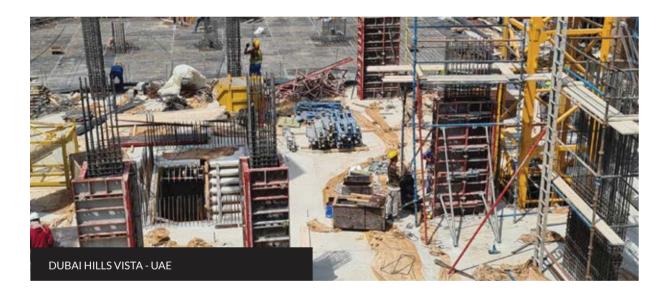


ACROW ECO-form Catalogue

ACROW ECO-form Catalogue

## PROJECT REFERENCES

ECO-form column panel











## ECO-FORM MULTI-PANEL

















TIME SAVER COMPATIBLE MEDIUM DUTY SIMPLE SUPERIOR MAN HANDL ASSEMBLY CONCRETE FINISH For single panel

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

	Permitted fresh-concrete pressure					
	55 kN/m <sup>2</sup>	56 kN/m <sup>2</sup>	70 kN/m <sup>2</sup>	85 kN/m <sup>2</sup>	90 kN/m <sup>2</sup>	100 kN/m <sup>2</sup>
1.05m	✓					
0.90m	✓	✓				
0.75m	✓	✓	✓			
0.60m	✓	✓	✓	✓		
0.45m	✓	✓	✓	✓	✓	
0.30m	<b>✓</b>	✓	✓	✓	✓	<b>√</b>

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 • • 1.05 • • 🛦 • 

■ 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











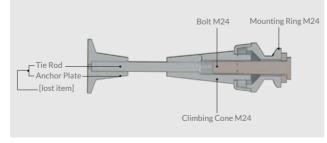




Hi-Skaf type [B]

WITH FINISHING PLATFORM







Hi-Skaf type [A]

ACCESS LADDERS

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.



ACROW BOA





















## 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.

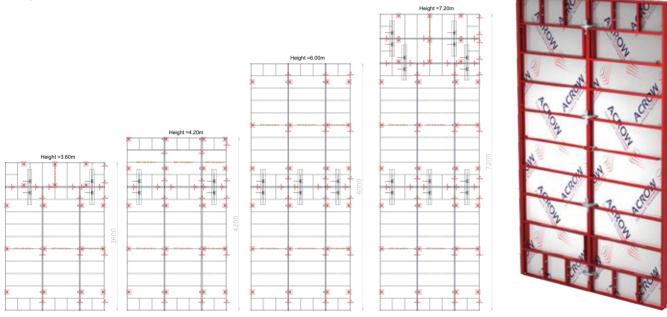
## SITE SOLUTIONS



#### **ECO-FORM PANELS CONNECTIONS**

#### Attributes of ECO-form accessories for connecting panels:

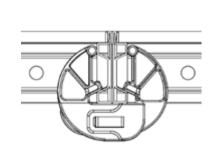
- Provide self-aligning, crane-handling-safe connections between the panels
- No losable small parts
- Dirt-resistant and hard-wearing for site use
- Easy to fix, with a formwork hammer

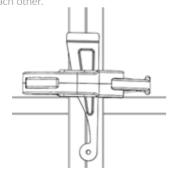


#### SIMPLE PANELS CONNECTIONS (WITHOUT FILLERS)

#### Using ECO-form Coupler (EFC)

3 couplers are needed to connect 3.0m height adjacent panels. 2 couplers are needed between panels on top of each other.







#### PANELS CONNECTIONS WITH FILLERS UP TO 10 CM

#### Using ECO-form Universal Coupler (EFUC)

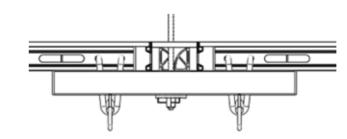
With the Universal coupler, the panels are joined so that they are resistant to tensile forces, and are aligned at the same time. The Universal coupler is placed directly over the cross profile.



#### 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.





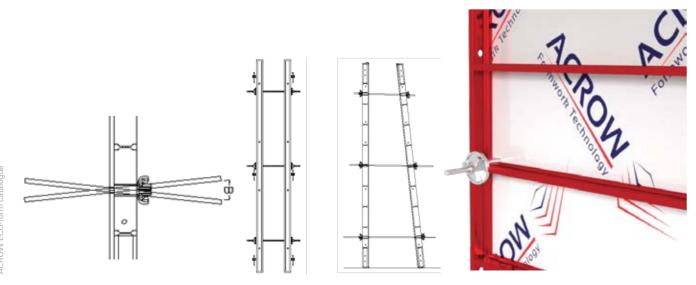
#### PANELS EXTENSIONS (VERTICAL STACKING OF PANELS)

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

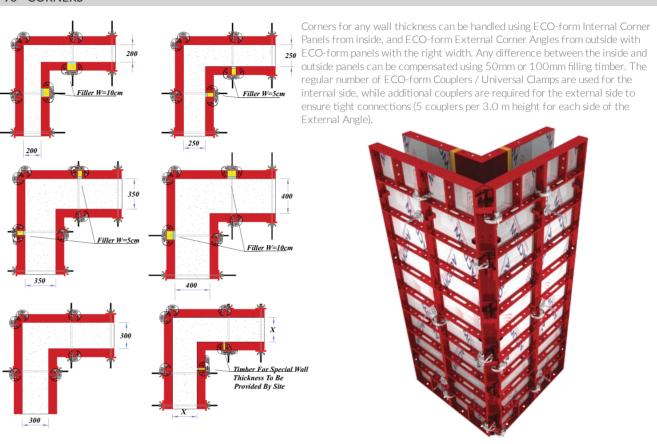


#### TYING SYSTEM

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  $\pm$ 0 for the tie-rod



#### 90° CORNERS



#### T-JUNCTION



#### 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.



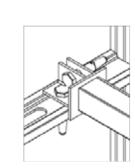




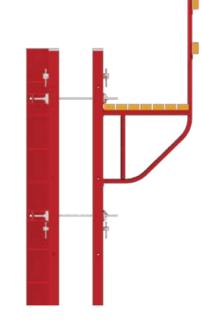
#### SAFETY ACCESS BRACKETS

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/m².

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





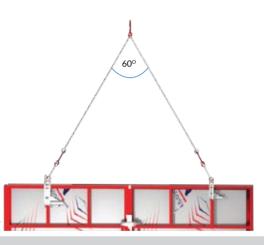


#### LIFTING

ECO-form Crane Hook enables the lifting of either individual panels or large unit of panels (up to 22 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 ECO-form lifting hook is 1000 KG/Hook, with a maximum of  $60^{\circ}$  between lifting chains.



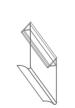


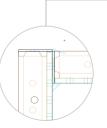


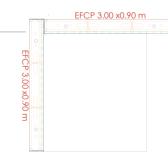
#### COLUMN FORMWORK

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 ACROW 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].





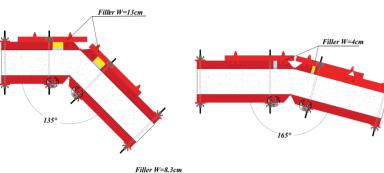






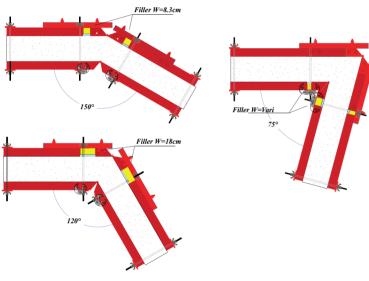


#### **ACUTE & OBTUSE-ANGLED CORNERS**



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.



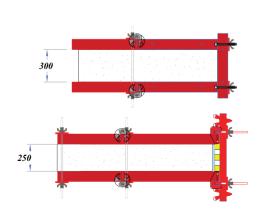


#### STOP-END FORMWORK

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 Acrow Bolts.





#### **PILASTERS**

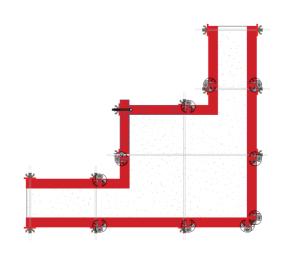
#### IN MID-WALLS:

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



#### AT CORNERS:

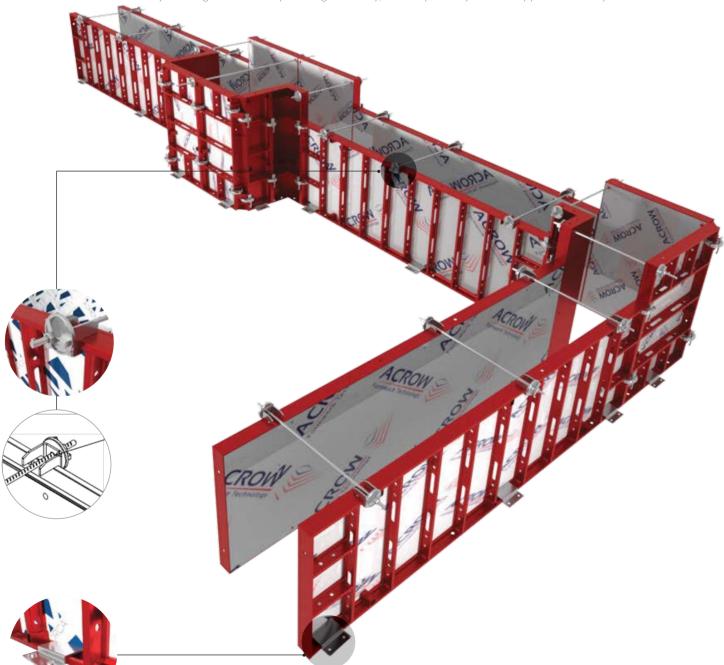
Using ECO-form Internal Corner Panels & 2 perpendicular Multi-Panels tied together with ACROW Bolts. Timber fillers are used when necessary specially with small sizes of pilasters.





#### FOUNDATION FORMWORK

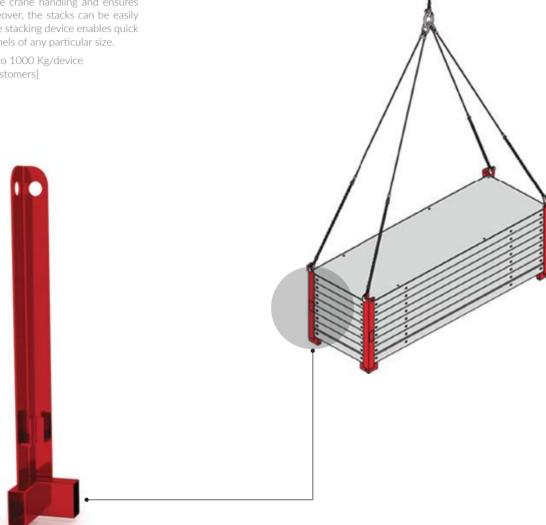
ECO-form panels and specific accessories facilitate the forming of all types of foundations, whether it is a single column footing, a wall strip footing or a raft. The 2 main accessories for foundations are the ECO-form Top Tie Clamp & the Lower Cleat Angle. They replace the regular tie-rods positions and eliminate the necessity of having the ECO-form panels aligned exactly, with the possibility to tie at any position on the panel.



#### STACKING

- 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]



## MAIN ACCESSORIES

#### ECO-FORM COUPLER (EFC)



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

#### ECO-FORM DOUBLE SHORE CONNECTOR



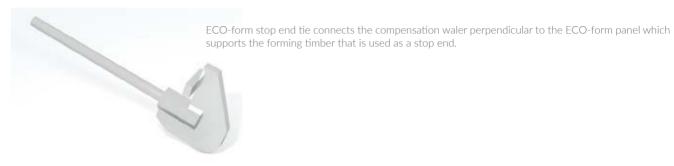
ECO-form double shore connector connects the push pull props to the ECO-form panels. In addition, it uses rivet pin fixed to the horizontal or vertical numbers of the panels providing the system with much more flexibility.

#### 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 sticking of 8 panels of a particular size.

#### ECO-FORM STOP END TIE



#### ECO-FORM CRANE HOOK



ECO form crane hook enables the use of 2 units either individual panels or large gang forms (up to  $20 \, \text{m}^2$ ) where it also ensures a safely lifting and moving (by crane) which actually results in a dramatically saving in both the time and effort. Special thanks to the self-locking system where it enable automatic hook locking after being attached to the panel. The allowable load for the ECO-form lifting hook is 750 KG/ Hook and maximum of  $60^{\circ}$  between lifting chains.

#### **COMPENSATION WALER**



Compensation Waler fills in closures up to 300 mm in which it transfers the tie forces and aligns the panels at the same time.

The horizontally movable hooking system which enables forming any closure up to this pre-defined range.

#### ECO-FORM 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.

Item

CROW board ]		
ECO-Form Panel 3.00 x W 1.05 m (AB)	6221177171322	108.21
ECO-Form Panel 3.00 x W 0.90 m (AB)	6221177171339	96.73
ECO-Form Panel 3.00 x W 0.75 m (AB)	6221177188443	79.92
ECO-Form Panel 3.00 x W 0.60 m (AB)	6221177171346	69.52
ECO-Form Panel 3.00 x W 0.45 m (AB)	6221177205003	59.13
ECO-Form Panel 3.00 x W 0.30 m (AB)	6221177171353	46.94
ECO-Form Panel 2.40 x W 1.05 m (AB)	6221177163303	84.47
ECO-Form Panel 2.40 x W 0.90 m (AB)	6221177188283	76.01
ECO-Form Panel 2.40 x W 0.75 m (AB)	6221177188290	65.76
ECO-Form Panel 2.40 x W 0.60 m (AB)	6221177188306	57.31
ECO-Form Panel 2.40 x W 0.45 m (AB)	6221177188313	50.92
ECO-Form Panel 2.40 x W 0.30 m (AB)	6221177188320	38.62
ECO-Form Panel 1.80 x W 1.05 m (AB)	6221177188337	66.19
ECO-Form Panel 1.80 x W 0.90 m (AB)	6221177188436	59.67
ECO-Form Panel 1.80 x W 0.75 m (AB)	6221177188344	54.60
ECO-Form Panel 1.80 x W 0.60 m (AB)	6221177188351	44.86
ECO-Form Panel 1.80 x W 0.45 m (AB)	6221177188368	38.36
ECO-Form Panel 1.80 x W 0.30 m (AB)	6221177188375	30.06
ECO-Form Panel 1.20 x W 1.05 m (AB)	6221177171360	46.84
ECO-Form Panel 1.20 x W 0.90 m (AB)	6221177171377	42.27
ECO-Form Panel 1.20 x W 0.75 m (AB)	6221177188382	35.90
ECO-Form Panel 1.20 x W 0.60 m (AB)	6221177171384	31.35
ECO-Form Panel 1.20 x W 0.45 m (AB)	6221177159429	26.78
ECO-Form Panel 1.20 x W 0.30 m (AB)	6221177171391	20.42
ECO-Form Panel 0.60 x W 1.05 m (AB)	6221177171407	27.48
ECO-Form Panel 0.60 x W 0.90 m (AB)	6221177171414	24.84
ECO-Form Panel 0.60 x W 0.75 m (AB)	6221177188399	20.58
ECO-Form Panel 0.60 x W 0.60 m (AB)	6221177171421	17.82
ECO-Form Panel 0.60 x W 0.45 m (AB)	6221177188405	15.35
ECO-Form Panel 0.60 x W 0.30 m (AB)	6221177171438	10.84

Code no.

Weight (kg)

Description

## [B] ECO-FORM COLUMN

Item	Description	Code no.	Weight (kg)
ECO-form column panel [w	rith ACROW board]		
POR TO TO TO P	ECO-Form Column Panel H 3.00 x W 0.90 m (AB) ECO-Form Column Panel H 3.00 x W 0.75 m (AB) ECO-Form Column Panel H 3.00 x W 0.60 m (AB)	6221177171247 6221177171254 6221177171261	110.28 95.15 79.51
To the second se	ECO-Form Column Panel H 1.20 x W 0.90 m (AB) ECO-Form Column Panel H 1.20 x W 0.75 m (AB) ECO-Form Column Panel H 1.20 x W 0.60 m (AB)	6221177171278 6221177171285 6221177159436	50.89 42.67 36.25
	ECO-Form Column Panel H 0.60 x W 0.90 m (AB) ECO-Form Column Panel H 0.60 x W 0.75 m (AB) ECO-Form Column Panel H 0.60 x W 0.60 m (AB)	6221177171292 6221177171308 6221177171315	28.93 23.85 20.43

## [C] ECO-FORM MULTI-PANELS

Item	Description	Code no.	Weight (kg)
ECO-form Multi-Panel [wit	h ACROW board]		
	ECO-Form Multi-Panel H 3.00 x W 1.05 m (AB)	6221177302047	120.30
	ECO-Form Multi-Panel H 3.00 x W 0.90 m (AB)	6221177190446	106.96
	ECO-Form Multi-Panel H 3.00 x W 0.75 m (AB)	6221177302054	91.31
	ECO-Form Multi-Panel H 3.00 x W 0.60 m (AB)	6221177190439	79.16
	ECO-Form Multi-Panel H 3.00 x W 0.45 m (AB)	6221177302061	65.55
	ECO-Form Multi-Panel H 3.00 x W 0.30 m (AB)	6221177302078	50.92
Pa God :	ECO-Form Multi-Panel H 2.40 x W 1.05 m (AB)	6221177302085	102.87
	ECO-Form Multi-Panel H 2.40 x W 0.90 m (AB)	6221177302092	90.70
	ECO-Form Multi-Panel H 2.40 x W 0.75 m (AB)	6221177302108	78.70
	ECO-Form Multi-Panel H 2.40 x W 0.60 m (AB)	6221177190453	67.74
	ECO-Form Multi-Panel H 2.40 x W 0.45 m (AB)	6221177302115	56.77
	ECO-Form Multi-Panel H 2.40 x W 0.30 m (AB)	6221177302122	40.79
Row Ro	ECO-Form Multi-Panel H 1.80 x W 1.05 m (AB)	6221177302139	78.47
	ECO-Form Multi-Panel H 1.80 x W 0.90 m (AB)	6221177302146	70.09
	ECO-Form Multi-Panel H 1.80 x W 0.75 m (AB)	6221177302153	59.89
	ECO-Form Multi-Panel H 1.80 x W 0.60 m (AB)	6221177302160	51.40
	ECO-Form Multi-Panel H 1.80 x W 0.45 m (AB)	6221177302177	43.15
	ECO-Form Multi-Panel H 1.80 x W 0.30 m (AB)	6221177190460	34.00
ON CONTRACTOR	ECO-Form Multi-Panel H 1.20 x W 1.05 m (AB)	6221177302184	58.07
	ECO-Form Multi-Panel H 1.20 x W 0.90 m (AB)	6221177190477	51.45
	ECO-Form Multi-Panel H 1.20 x W 0.75 m (AB)	6221177190484	43.86
	ECO-Form Multi-Panel H 1.20 x W 0.60 m (AB)	6221177190491	40.16
	ECO-Form Multi-Panel H 1.20 x W 0.45 m (AB)	6221177190507	32.75
	ECO-Form Multi-Panel H 1.20 x W 0.30 m (AB)	6221177190514	26.14
	ECO-Form Multi-Panel H 0.60 x W 1.05 m (AB)	6221177302191	32.38
	ECO-Form Multi-Panel H 0.60 x W 0.90 m (AB)	6221177302207	27.23
	ECO-Form Multi-Panel H 0.60 x W 0.75 m (AB)	6221177302214	23.90
	ECO-Form Multi-Panel H 0.60 x W 0.60 m (AB)	6221177302221	20.57
	ECO-Form Multi-Panel H 0.60 x W 0.45 m (AB)	6221177302238	15.42
	ECO-Form Multi-Panel H 0.60 x W 0.30 m (AB)	6221177302245	12.09

## [D] ECO-FORM CORNER PANELS

Item	Description	Code no.	Weight (kg)
ECO-form inte	ernal 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	6221177057831 6221177057824 6221177057817 6221177057954 6221177057800	88.82 72.91 55.29 48.94 20.82
ECO-form exte	ernal corner angle		
ECO-form Int	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	6221177057794 6221177057787 6221177057761 6221177057763	19.84 16.06 11.65 7.87 3.93
	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	6221177151270 6221177129828 6221177120856	86.48 69.38 52.90 36.18 19.57

## [E] ECO-FORM WALL ACCESSORIES

Item	Description	Code no.	Weight (kg)
ECO-form Coupler (EFC)			
		6221177054908	1.40
ECO-form Universal Clamp			
		6221177106089	2.24
ECO-form Compensation Waler			
ECO-form Adjustable Access Brac	ECO-Form Compensation Waler (EFCW) ECO-Form Compensation Waler L=1.30m	6221177164492 6221177153854	8.72 13.61
LCO-form Adjustable Access Brac	KCL		
		6221177156794	15.02

Item	Description	Code no.	Weight (kg)
ECO-form Crane Hook Type (I)			
		6221177153007	3.93
ECO-form Stacking Device			Qty.
ECO-form stop end tie		6221177128845	x8 8.10
		6221177057862	2.11
Eco-Form Double Shore Connector			
Let I of the Double Shore Confidential		6221177099664	2.06

Weight (kg)

0.25

0.01

0.85

2.35

0.002

0.002

Description

Code no.

6221177012304

6221177087289

6221177064136

6221177152819

2014020032265

2014020032258



Item

Spring Clip (medium)



Lower Cleat Angle



Top Tie Clamp



Plastic Cap



Plastic Cover



[F] ECO-FORM COLUMN ACCESSORIES	

Item	Description	Code no.	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	6221177162214 6221177162221 6221177162238	7.60 7.25 5.80
ACROW Bolt , L= 18 cm DVD			
		6221177000158	0.365
ECO-form Plastic Chamfer			
	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	2014030063672 6221177158279 6221177158286 6221177158293	3.03 1.52 0.61 0.31
Plastic Cap			
		2014020032265	0.002

## [G] TILTING ITEMS

ltem	Description	Code no.	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 PPH404 Push Pull PPH454 Push-Pull Prop MPP4 (2.65:4.65) m Push-Pull Prop MPP5 (4.45:6.75) m	6221177014261 6221177014285 6221177014308 6221177014070 6221177014117 6221177014131 6221177014155 6221177014162 6221177163556 6221177163563	7.29 8.38 9.62 21.72 27.58 33.02 38.10 42.37 47.95 39.43 61.64
Base Plate	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.)	6221177112424 6221177112431 6221177112448 6221177112462	12.45 19.17 20.43 22.96 27.81
	Double Base Plate Single Base Plate	6221177000813 6221177000882	2.94 1.30

## [H] TYING ITEMS

Item	Description	Code no.	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=2.00m Tie Rod DW L=2.25m Tie Rod DW L=2.50m Tie Rod DW L=2.50m 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=3.50m Tie Rod DW L=4.50m Tie Rod DW L=4.50m Tie Rod DW L=4.50m Tie Rod DW L=5.00m Tie Rod DW L=5.00m Tie Rod DW L=5.50m Tie Rod DW L=5.50m Tie Rod DW L=5.50m Tie Rod DW L=5.75m Tie Rod DW L=5.75m Tie Rod DW L=5.75m Tie Rod DW L=6.000m	6221177095581 6221177095598 6221177095604 6221177095611 6221177095635 6221177095642 6221177095659 6221177095666 6221177095673 6221177095697 6221177095703 6221177095710 6221177095734 6221177095734 6221177095741 6221177095758 6221177095758 6221177095772 6221177095772 62211770957789 6221177095789 6221177095796	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
Forged Wing Nut 15 mm DVD ( T	- ype I )	6221177027513	1.13
Wing Nut Pivot Plate 15mm DVD		6221177011314	0.35
		6221177042745	1.55
Tying Items			
	Water Barrier (flange type) ( Type T) Plastic Reducer for Water Barier	6221177053574 6221177039219	0.56 0.01

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ACROW ECO-form Catalogue ACROW ECO-form Catalogue

## [I] PLATFORM ACCESSORIES

Item	Description	Code no.	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	6221177027018 6221177003340 6221177040697 6221177045180 6221177010133 6221177326586 6221177326593 221177011338 6221177012304 6221177087289 2012090028718 2012210029779	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 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 0.5 m (W42) Ladder Safety Cage 0.5 m (W42) Bolt M12 x 80 (8.8) Nut M12 (8.8) Ladder to Eco-Form Connection	6221177233013 6221177330033 6221177326609 6221177223441 6221177223455 6221177223472 6221177211691 6221177223489 6221177223496 2012060062742 2012180062752 6221177226305		56.05 46.90 37.70 28.50 19.35 10.15 5.60 23.55 14.85 9.50 0.02 0.01
Liftting Eye bolt L=23cm		6221177042684		1.50

Item	Description	Code no.	Qty. Weight (kg)
Hi-Skaf Brackets			
Hi-Skaf Connecting to the Co	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 1.20 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 0.75 m (Ø 32) (Unit) 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 1.50 m (Cone type) (Unit) Finishing Platform for Hi-Skaf Bracket	6221177145934 6221177143374 6221177143992 6221177143954 6221177147938 6221177147853 6221177301712 6221177349820 6221177349837 6221177349844 6221177349868	66.40 53.95 52.10 48.55 45.60 43.55 42.60 30.85 79.70 64.75 58.30 52.30 36.00
	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)	2012060063672 2012060063689	0.79 0.64
	lost item HI Skaf Anchor [lost item]	6221177028084	
	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)	6221177039400 6221177039424 2012060028205 2012060028090	2.11 0.59 0.42 0.37
	lost item Tie Rod DW15 L=0.30m with Fixed Anchor Plate	6221177314095	1.24

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