



ACROW

Formwork Technology



Vari Form System

ACROW MISR Provides Full Site Service Based On More Than 35 Years Experience In The Field

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Introduction

Being one of the largest formwork and scaffolding companies in Egypt, We are introducing Vari Form System. It has proved to be very flexible especially as a curved wall formwork system. In addition, it could be easily adjusted by turn-buckle to allow for

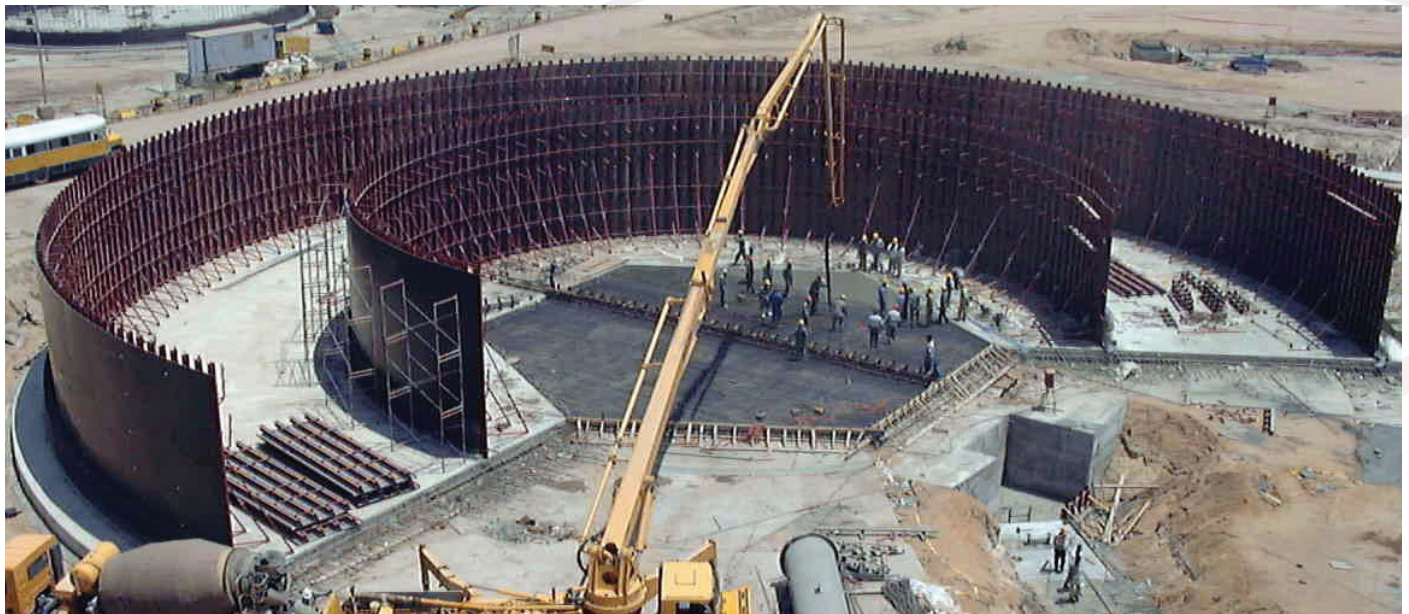
the formation of complex curves and shapes. Finally, it is designed for curves till a diameter of minimum 3.00 m.

Advantages:

- Provides a superior concrete finish.
- Needs only two turnbuckles every

3.6 m height.

- No special purpose walings.
- Allows for any wall height.
- Needs simple standard components.
- It could be used as single sided shutter.



Application

Vari form system can be used horizontally for closed circle or as a part of a curve. It can be also used vertically for one shot or several stages on platform. Vari form is suitable for many applications including:

- Curved Walls
- Water Treatment Tanks
- Large Diameter Columns
- Bullnosed piers
- Circular shafts
- Silos

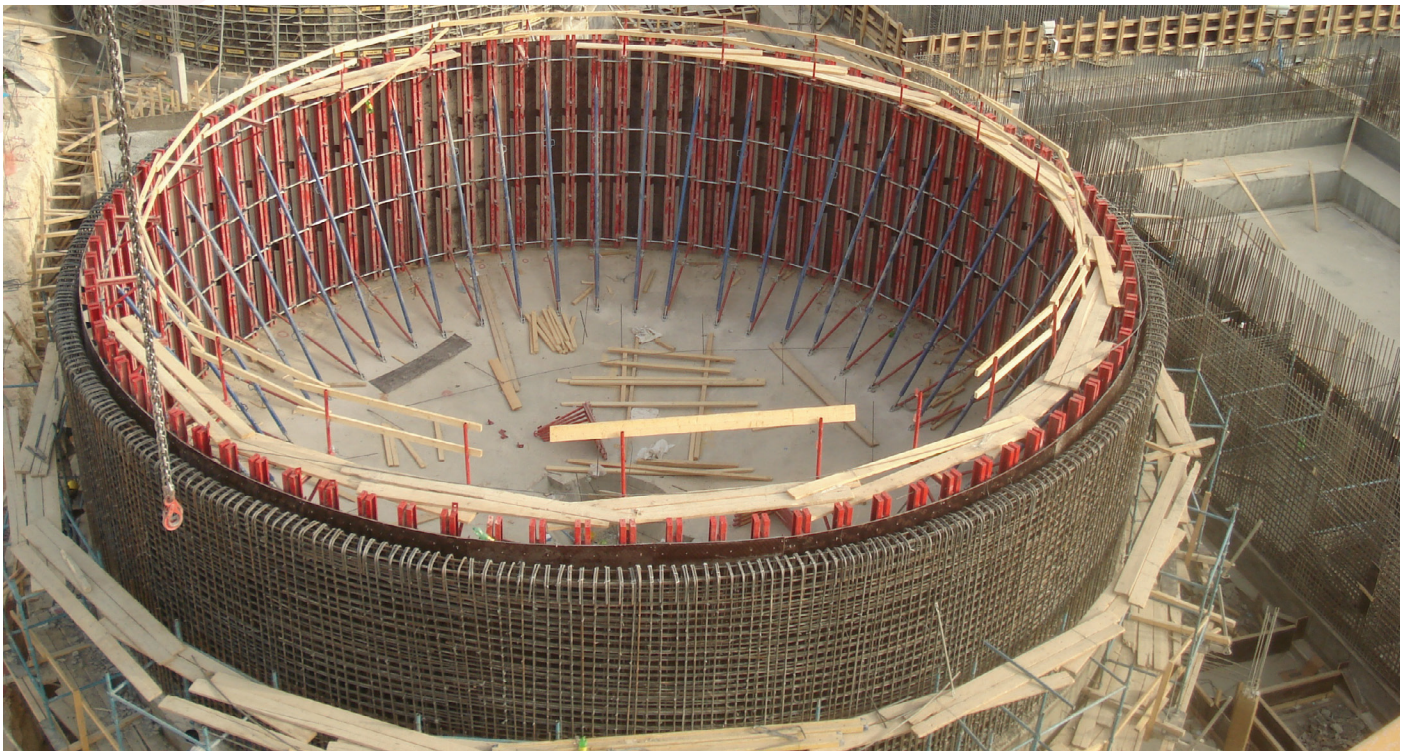


Applications



Loadings

- It is recommended to be used for concrete pressures up to 60 KN/m^2 , where 18mm fin ply or similar is used.
- DW 16 tie load capacity is 90 KN.
- Acrow open web soldier mechanical properties are as per attached table.
- Concrete pressure can be calculated using acrow concrete pressure catalogue



Dw 16 Tie System

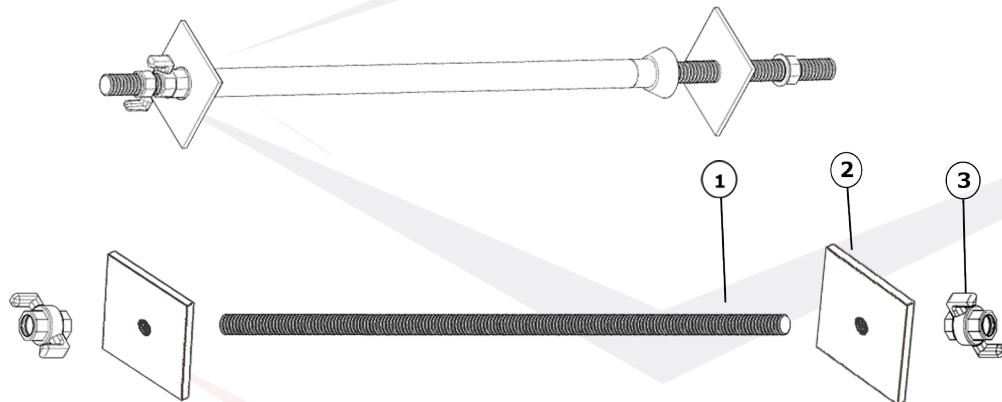
- The acrow DW 16-ties system is primarily used with soldiers, where minimum number of ties is required.
- The continuous thread high tensile

steel rod is the basis of the DW 16 tie system assembly.

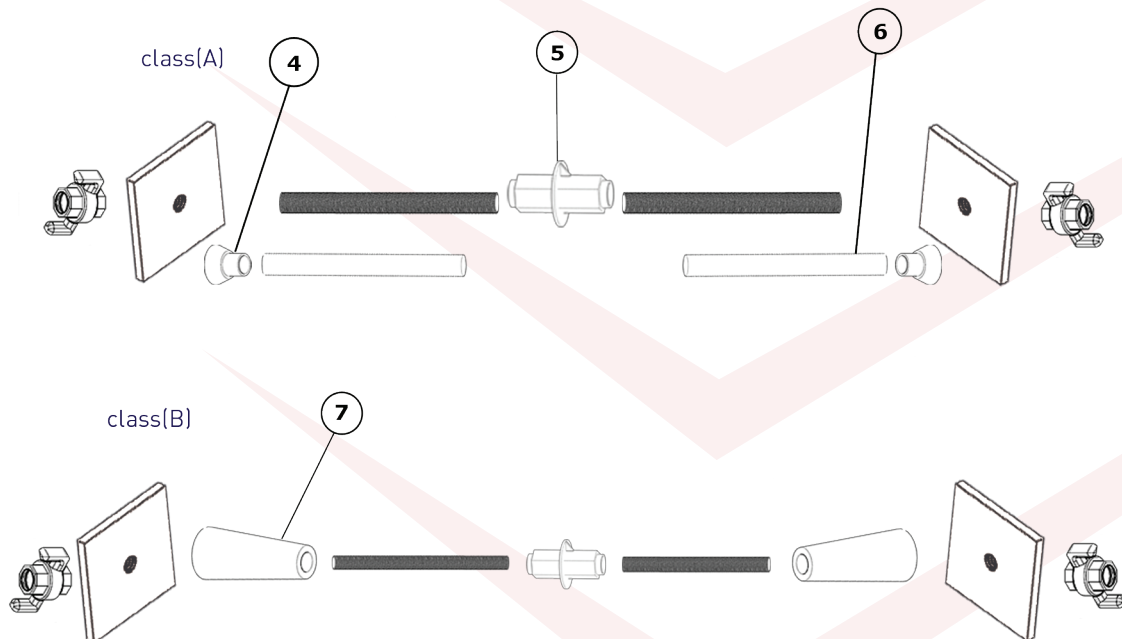
The wing nut is designed to freely spin on the fast threaded rod, which

effectively speeds both the erection and stripping times of the formwork.

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



2 - WATER SEAL D W 16 tie system



1- D W16 tie rod 2- Steel washer 3- Wing nut 4- Plastic cone 5-Water barrier 6- Palstic tube 7- Steel cone

Components



- Vari form trough section:
- The length of trough section is 900 mm and it has a 300 mm increment.
- Vari form turn-buckles:
- Only two turn-buckles are used per soldier length up to 3.60 m.
- Vari form edge angle:
- The panels are joined together by using bolt M 16 * 50 or M 16 * 100.
- Open web soldier:
- The table below shows the technical information and the loading data of the open web soldier.

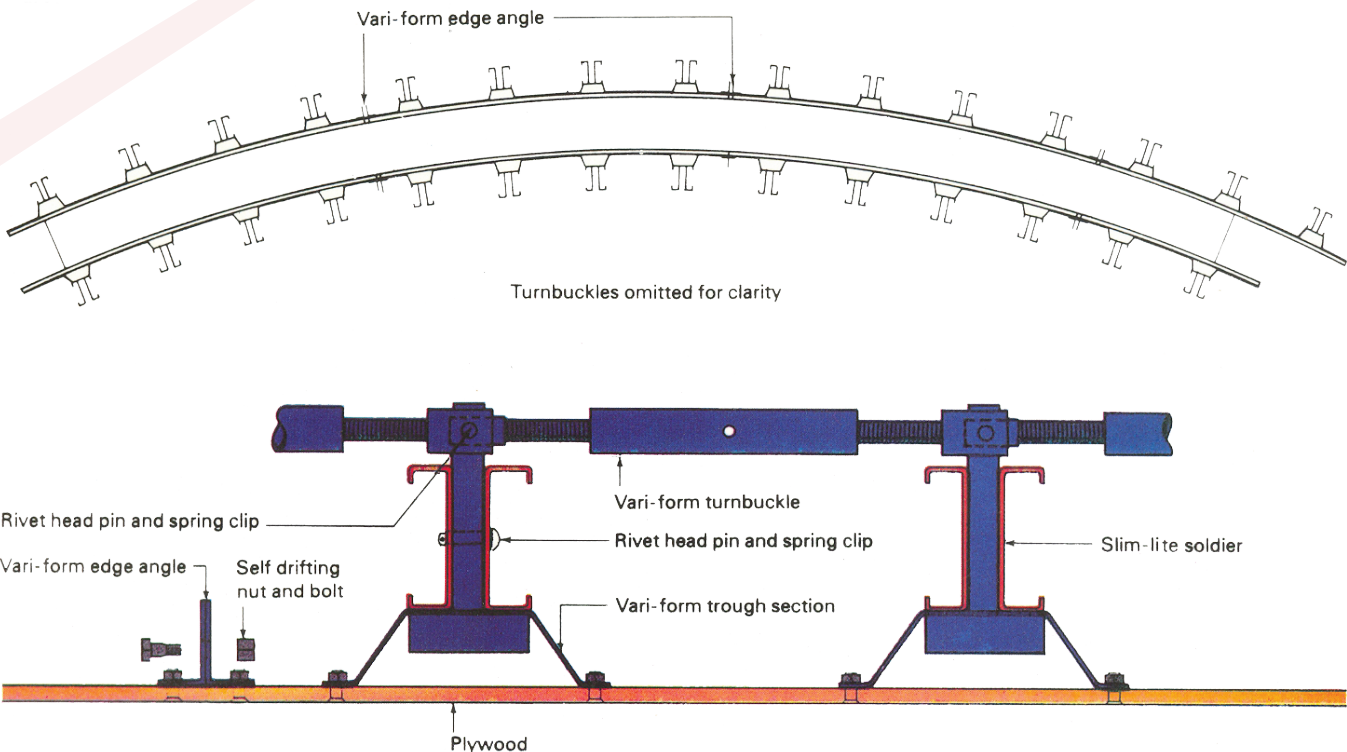
Open Web Soldier

OPEN WEB SOLDIER (HxBxbxt)	A cm ²	wt kg/m'	X-X			Y-Y		
			I _x cm ⁴	Z _x cm ³	i _x cm	I _y cm ⁴	Z _y cm ³	i _y cm
160x70x30x3	20.42	15.70	777.70	97.12	6.23	566.00	62.19	5.32
160x80x80x4	29.62	23.25	1143.60	143.00	6.21	1115.60	110.45	6.13

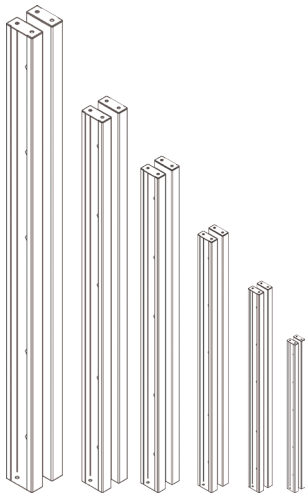
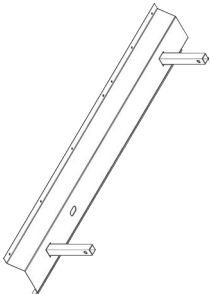
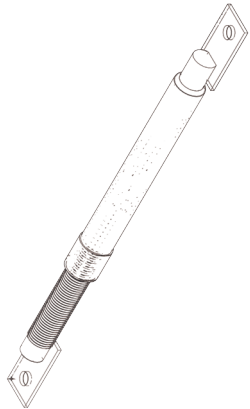
Curved Forms

Application details

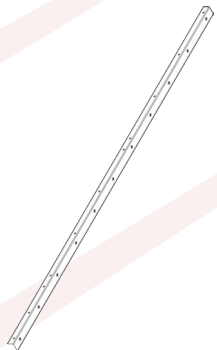
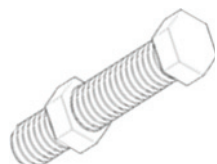
Curved form



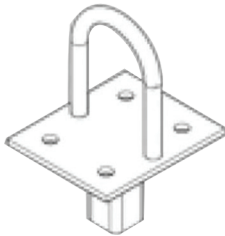
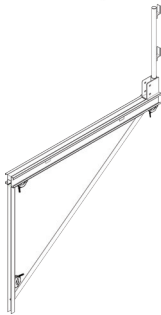
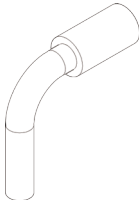
Components

Item	Description	Code no.	Weight (kg)
	Open web Soldier C16, L=0.90m	6221177011895	37.38
	Open web Soldier C16, L=1.20m	6221177011901	49.85
	Open web Soldier C16, L=1.50m	6221177011918	62.31
	Open web Soldier C16, L=1.80m	6221177011925	74.77
	Open web Soldier C16, L=2.10m	6221177011932	87.23
	Open web Soldier C16, L=2.40m	6221177011949	99.70
	Open web Soldier C16, L=2.70m	6221177011956	112.16
	Open web Soldier C16, L=3.00m	6221177011963	124.62
	Open web Soldier C16, L=3.30m	6221177011970	137.08
	Open web Soldier C16, L=3.60m	6221177011987	149.55
	Open web Soldier C16, L=3.90m	6221177011994	162.01
	Open web Soldier C16, L=4.20m	6221177012007	174.47
	Open web Soldier C16, L=4.50m	6221177012014	186.93
	Open web Soldier C16, L=4.80m	6221177012021	200.00
	Open web Soldier C16, L=5.10m	6221177012038	211.86
	Open web Soldier C16, L=5.40m	6221177012045	224.32
	Open web Soldier C16, L=5.70m	6221177012052	236.78
	Open web Soldier C16, L=6.00m	6221177012069	249.25
	Trough Section, L=0.90 m	6221177024468	10.875
	Trough Section, L=1.20 m	6221177024475	14.50
	Trough Section, L=1.50 m	6221177024482	17.40
	Trough Section, L=1.80 m	6221177024499	20.35
	Trough Section, L=2.10 m	6221177024505	24.70
	Trough Section, L=2.40 m	6221177024512	27.60
	Trough Section, L=2.70 m	6221177024429	32.625
	Turn - buckle (50-70) cm	6221177014346	4.50

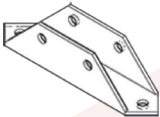
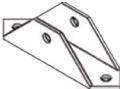
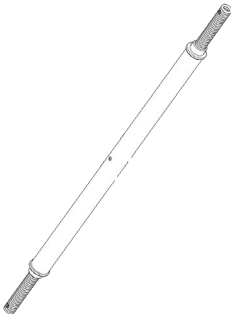
Components

Item	Description	Code no.	Weight (kg)
	Rivet Pin 16 mm, L =7.50 cm	6221177012281	0.12
	Rivet Pin 17 mm, L =12.5 cm	6221177012304	0.20
	Rivet Pin 17 mm, L =11.5 cm	6221177012298	0.18
	Spring clip large	6221177022617	0.03
	Spring clip small	6221177022624	0.01
	Edge Angle, L =0.90 m	6221177009038	3.95
	Edge Angle, L =1.20 m	6221177009045	5.27
	Edge Angle, L =1.50 m	6221177009052	6.58
	Edge Angle, L =1.80 m	6221177009069	7.90
	Edge Angle, L =2.10 m	6221177009076	9.22
	Edge Angle, L =2.40 m	6221177009083	10.54
	Edge Angle, L =2.70 m	6221177009090	11.85
	Edge Angle, L =3.00 m	6221177009106	13.17
	Edge Angle, L =3.30 m	6221177009113	14.50
	Edge Angle, L =3.60 m	6221177009120	15.81
	Edge Angle, L =3.90 m	6221177009137	17.12
	Bolt m 16 X100 mm	2012090028565	0.184
	Bolt m 16 X50 mm	2012090028572	0.130

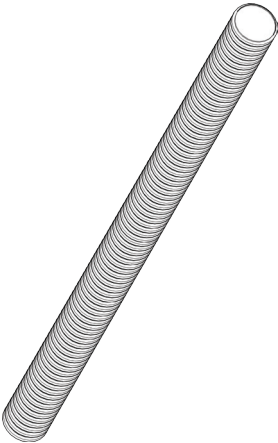
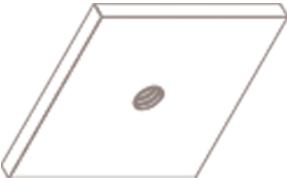
Components

Item	Description	Code no.	Weight (kg)
	Lifting Eye For C16	6221177011123	1.50
	Hi Skaf Braket L = 2.00 m L = 1.20 m	6221177003289 6221177003265	46.00 39.00
	Hi Skaf Anchor	6221177028084	2.85

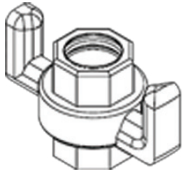
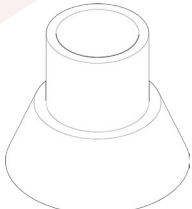
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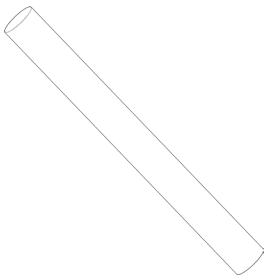
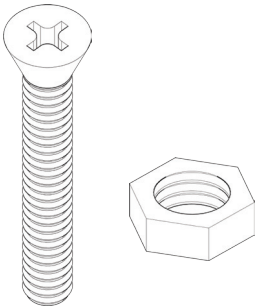
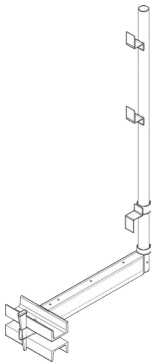
Item	Description	Code no.	Weight (kg)
	Scaffolding Tube,L=1.00 m	6221177017354	3.35
	Scaffolding Tube,1.5"X2.9mm L = 2.00	6221177017361	6.70
	Scaffolding Tube,1.5"X2.9mm L = 3.00	6221177017378	10.05
	Scaffolding Tube,L=1.50 m	6221177017385	4.395
	Scaffolding Tube,L=2.00 m	6221177017392	5.86
	Scaffolding Tube,L=2.50 m	6221177017408	7.32
 	Double Base Plate	6221177000813	2.4
	Single Base Plate	6221177000882	1.45
	Turn Buckle		
	Push Pull PPS 131	6221177014254	9.00
	Push Pull PPS 132	6221177014261	11.40
	Push Pull PPS 161	6221177014278	9.83
	Push Pull PPS 162	6221177014285	12.43
	Push Pull PPS 201	6221177014292	13.14
	Push Pull PPS 202	6221177014308	14.00
	Push Pull PPS 252	6221177014315	15.70
	Push Pull PPS 302	6221177014322	19.00
	Push Pull PPS 352	6221177014339	23.10

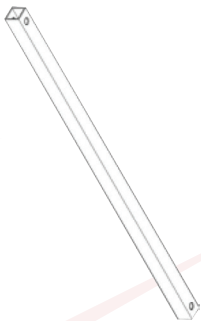
Components

Item	Description	Code no.	Weight (kg)
	Tilt up shore x0	6221177023942	10.90
	Tilt up shore x1	6221177023959	17.50
	Tilt up shore x2	6221177023966	18.65
	Tilt up shore x3	6221177023973	21.25
	Tilt up shore x4	6221177023980	25.64
	DW Tie 16mm, L = 1.00 m	6221177023140	1.58
	DW Tie 16mm, L = 1.50 m	6221177023157	2.37
	DW Tie 16mm, L = 1.75 m	6221177023164	2.77
	DW Tie 16mm, L = 2.00 m	6221177023171	3.16
	DW Tie 16mm, L = 3.00 m	6221177023188	4.74
	DW Tie 16mm, L = 4.50 m	6221177023195	7.11
	DW Tie 16mm, L = 6.00 m	6221177023201	9.48
	Steel Washer	6221177027513	1.1

Components

Item	Description	Code no.	Weight (kg)
	Wing Nut DVD	6221177011383	0.45
	Water Barrier (flange type) (type 1)	6221177028220	0.52
	Plastic Cone 12.5 mm	2014100032746	0.003

Item	Description	Code no.	Weight (kg)
	Plastic Tube PVC, L = 1.0 m	6221177028152	0.32
	Counter Sunk Bolt	2012080028407	0.077
	Access Bracket (for Vertical Solider)	6221177003135	10.88

Item	Description	Code no.	Weight (kg)
	Diagonal Tube 40X40X2.5 mm, L =1.0 m	6221177008864	2.82
	Shore Connector (For Soldier C16)	6221177006365	1.12

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Acrow H20 & solidor



Acrow One shutter solidor



Acrow V.M.C



Acrow Tech-Form



Acrow Cuplock



Acrow Bridge table form



Acrow Circular column



Acrow climbing system



Acrow shorbrace Table form



Acrow Big steel panel



Acrow European prop



Acrow Vari form



Acrow Prop table form



Acrow frame



Acrow early striking system



Acrow Ring lock

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