



 **SCAFFCO**

*Waling System*

## **Waling System**

**The Formwork System that Adapts to all Heights and Widths**

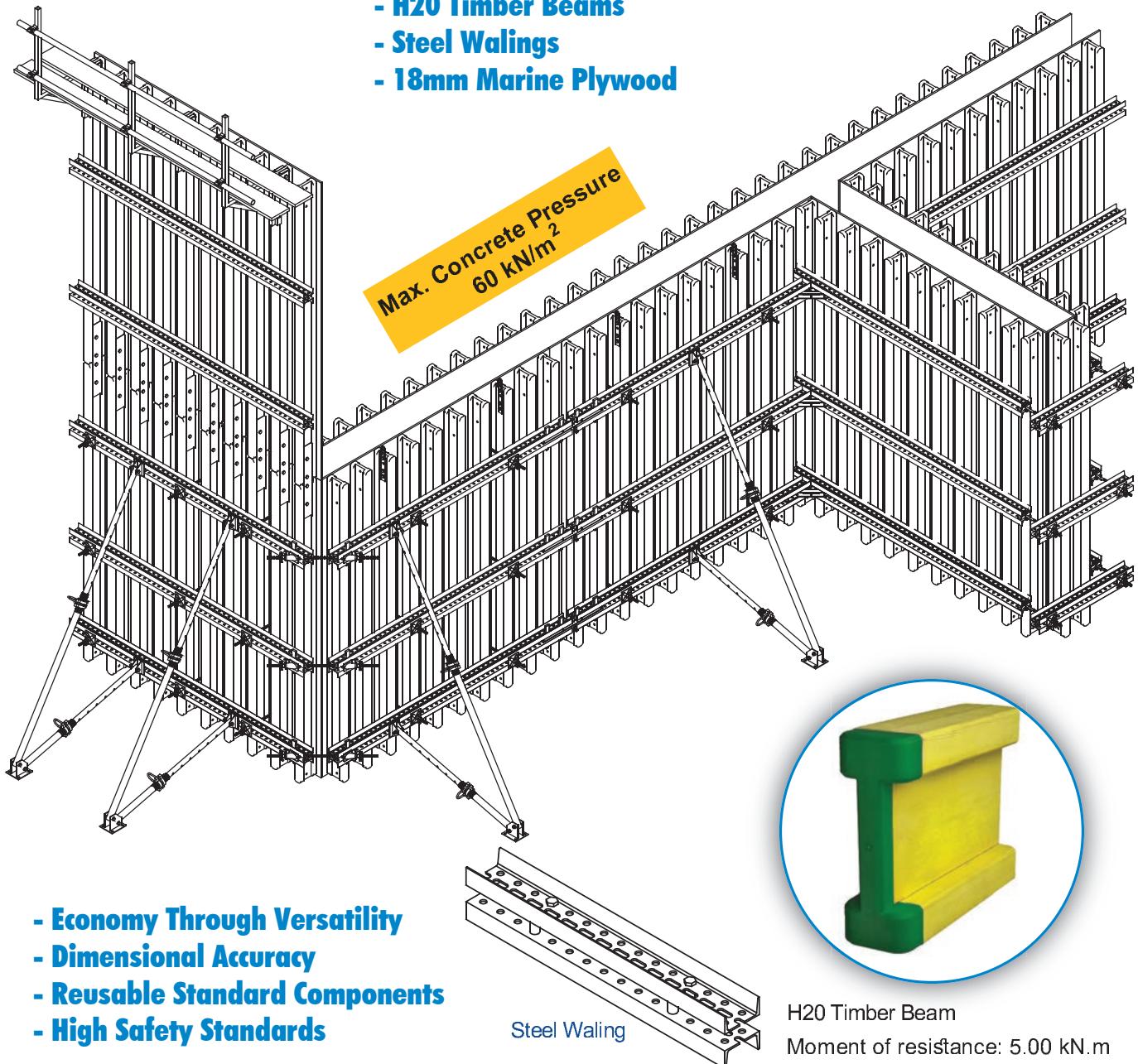


**The waling system formwork elements are assembled quickly and easily by connecting the H20 timber beams to the walers by means of steel clamps. Dismantling of elements is done as the erection of the system. The advantage is that the wall formwork system provides a high adaption and easy reassembling when ground plans of the structure change frequently.**

The waling system is one of the most adaptable formwork systems available. This formwork system combines H20 timber beam with steel walers so perfectly. It adapts all heights and widths, accommodates every pressure and meets all construction demands. The basis of the waling system is the H20 timber beam. It is produced in production plant with European standards. The H20 beam is sturdy, easy to handle and at a weight of approx. 5.0 kg/m offers a high load-bearing capacity at large distances of walers. The steel walers, clamped onto the H20 timber beam, allow the formwork elements to be assembled quickly and simply. The assembly is done as easily as the disassembly. The waling system can be used for all vertical formwork applications, walls, columns and retaining walls formwork.

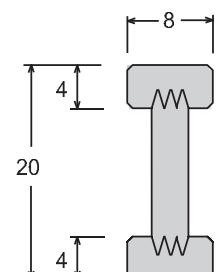
### Only Three System Components:

- H20 Timber Beams
- Steel Walings
- 18mm Marine Plywood



This formwork system is composed of limited components. Plywood for making up of the concrete surface, H20 wooden beams, horizontal primary walings, supports and tie-rod elements providing structural unity.

Not only easy installation and use have made this system so popular in monolithic construction but also its economically advantageous solutions and high quality.



H20 Timber Beam  
Moment of resistance: 5.00 kN.m  
Shear resistance: 11 kN

# Column Formwork for all Cross Sections and Heights

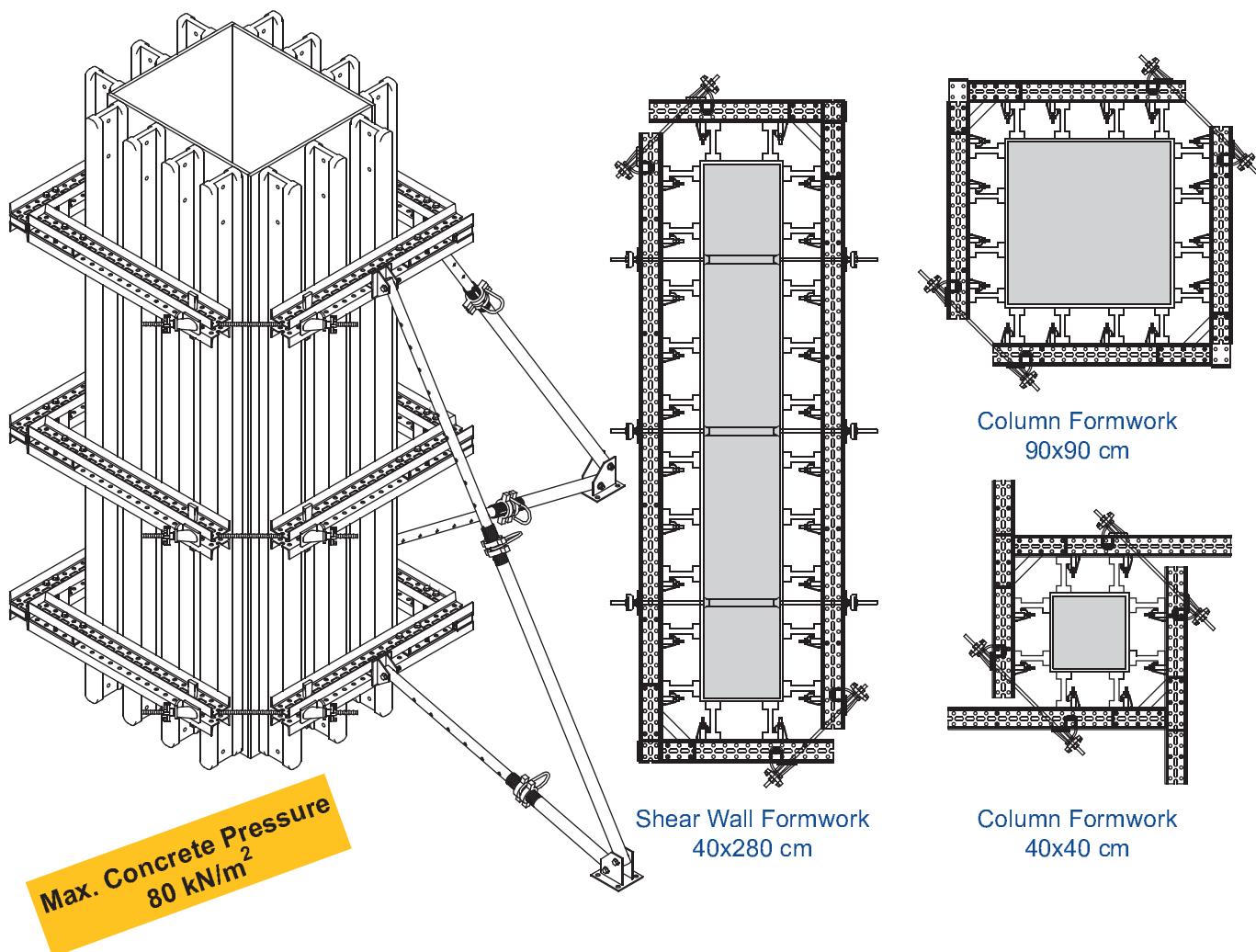
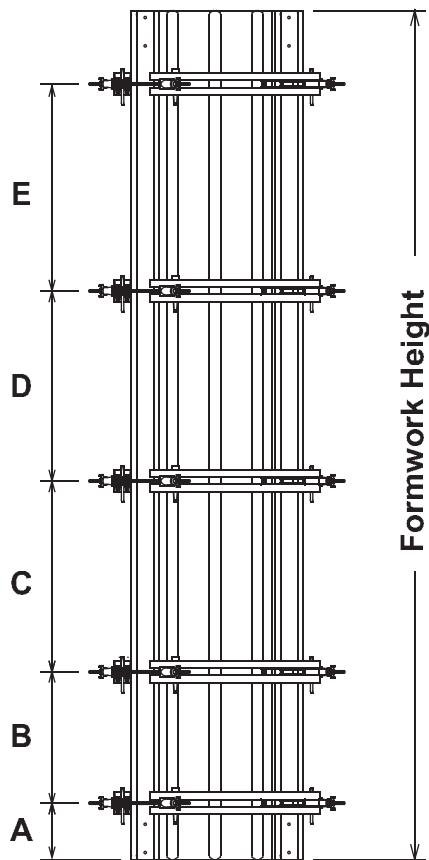


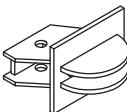
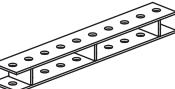
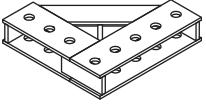
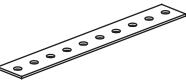
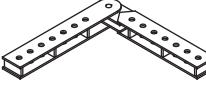
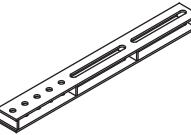
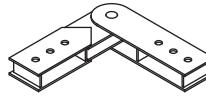
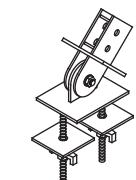
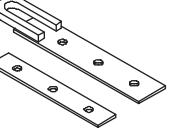
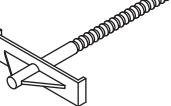
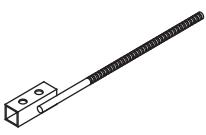
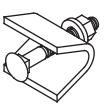
Table of Waling Vertical Spacing - Column Formwork

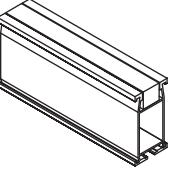
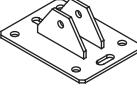
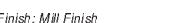
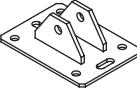
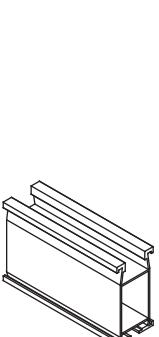
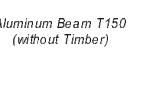
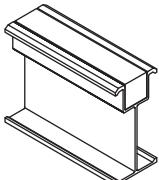
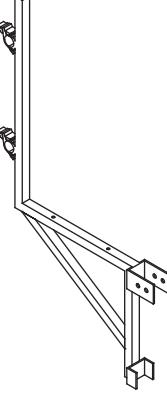
Waling Spacing (cm) Formwork Height (cm)	A	B	C	D	E
245	45	130			
265	45	130			
290	30	100	90		
330	30	100	120		
360	30	100	130		
390	30	90	100	100	
450	30	90	120	130	
490	30	100	130	130	
590	30	100	100	130	130

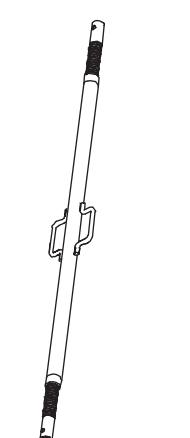
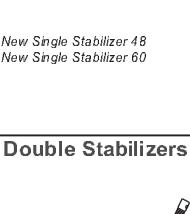
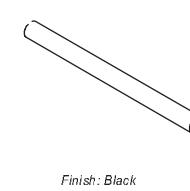
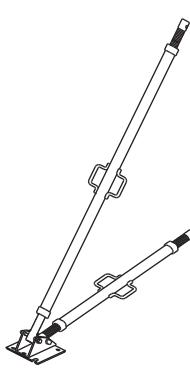
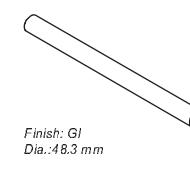
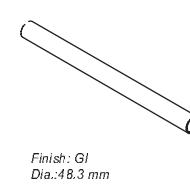
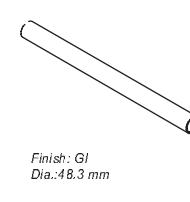
Table of Waling Vertical Spacing - Wall Formwork

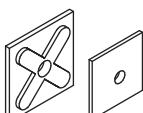
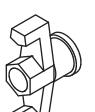
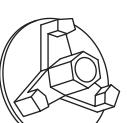
Waling Spacing (cm) Formwork Height (cm)	A	B	C	D	E
245	45	130			
265	45	130			
290	45	160			
330	30	100	120		
360	30	120	130		
390	30	130	140		
450	30	100	120	120	
490	30	120	130	130	
590	30	120	120	120	120



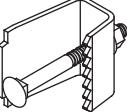
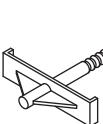
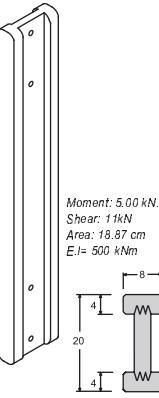
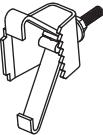
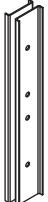
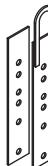
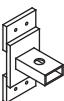
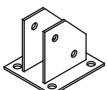
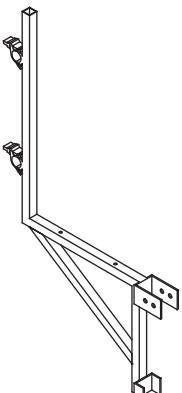
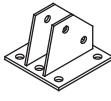
	Wt. (kg)	Code		Wt. (kg)	Code
<b>Steel Waling (SW)</b>			<b>W10 Colend Bracket</b>		
				W10 Colend Bracket	2.64
SW 100x50 - 50 cm	10.44	FWS03P050			XFSCEB
SW 100x50 - 75 cm	15.37	FWS03P075			
SW 100x50 - 100 cm	20.30	FWS03P100			
SW 100x50 - 125 cm	25.32	FWS03P125			
SW 100x50 - 150 cm	30.44	FWS03P150			
SW 100x50 - 175 cm	35.37	FWS03P175			
SW 100x50 - 200 cm	40.30	FWS03P200			
SW 100x50 - 225 cm	45.23	FWS03P225			
SW 100x50 - 250 cm	50.45	FWS03P250			
SW 100x50 - 275 cm	55.38	FWS03P275			
SW 100x50 - 300 cm	60.31	FWS03P300			
SW 100x50 - 325 cm	65.53	FWS03P325			
SW 100x50 - 350 cm	70.46	FWS03P350			
SW 100x50 - 375 cm	75.93	FWS03P375			
SW 100x50 - 400 cm	80.80	FWS03P400			
SW 100x50 - 425 cm	85.83	FWS03P425			
SW 100x50 - 450 cm	90.75	FWS03P450			
SW 100x50 - 475 cm	95.68	FWS03P475			
SW 100x50 - 500 cm	100.90	FWS03P500			
SW 100x50 - 525 cm	105.83	FWS03P525			
SW 100x50 - 550 cm	110.76	FWS03P550			
SW 100x50 - 575 cm	115.98	FWS03P575			
SW 100x50 - 600 cm	120.91	FWS03P600			
<b>W10</b>			<b>W10 Column Waling Splice - D</b>		
<i>Finish: Painted</i>				W10 Column Waling Splice - D	3.14
<b>W10 Waling Corner Bracket</b>					XFSSCWP050
	4.46	XFSSCCB	<b>W10 Waling Splice-S</b>		
				W10 Waling Splice-S	1.37
<b>W10 Active Waling Connector</b>			<b>W10 Unbent Waler Connector</b>		
	8.05	FWS028		W10 Unbent Waler Connector	5.20
			<b>Splice of S150 Aluminum Beam</b>		
<b>W10 Adjustable Waling Connector</b>				Splice of S150 Aluminum Beam	7.13
	6.22	FWS025			FWS023
			<i>Finish: Painted Supplied with 4 numbers of M16 x 040 bolt &amp; nut</i>		
<b>W10 Adjustable Pivot Cleat</b>			<b>W10 Lifting Lug</b>		
	10.04	FWS031		W10 Lifting Lug	2.85
			<i>Finish: Painted</i>		XC122LL01
<b>W10 Pivot Cleat</b>			<b>Waling Soldier Connector</b>		
	7.48	FWS031		Waling Soldier Connector	1.25
			<b>Aluminum Waler Clamp (Aluminum to Waling W12+W10)</b>		
<b>W10 Stop End Bracket</b>				Aluminum Waler Clamp (Aluminum to Waling W12+W10)	0.88
	1.06	FWS029			XFGWALC
			<i>Finish: Electropolated</i>		
<b>W10 Waling Single Aluminum Clamp - EP (Alum. to Waling)</b>			<b>W10 Waling Single Aluminum Clamp - EP (Alum. to Waling)</b>		
				W10 Waling Single Aluminum Clamp - EP (Alum. to Waling)	0.29
					FWS024

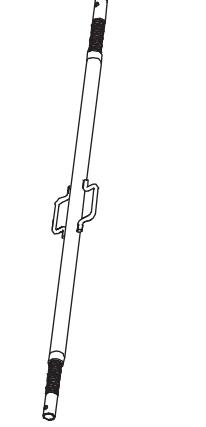
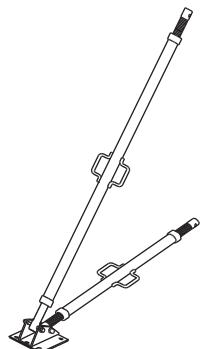
		Wt. (kg)	Code		Wt. (kg)	Code
<b>Waling Spacer-50</b>				<b>Aluminum Beam (AB) T150</b>		
	Waling Spacer-50	0.09	XWSSP050		With Timber	AB T-150 (150 x 80) 050 cm 2.92 FABTT050 AB T-150 (150 x 80) 075 cm 4.37 FABTT075 AB T-150 (150 x 80) 100 cm 5.83 FABTT100 AB T-150 (150 x 80) 125 cm 7.29 FABTT125 AB T-150 (150 x 80) 150 cm 8.75 FABTT150 AB T-150 (150 x 80) 175 cm 10.20 FABTT175 AB T-150 (150 x 80) 200 cm 11.66 FABTT200 AB T-150 (150 x 80) 225 cm 13.12 FABTT225 AB T-150 (150 x 80) 250 cm 14.58 FABTT250 AB T-150 (150 x 80) 275 cm 16.03 FABTT275 AB T-150 (150 x 80) 300 cm 17.49 FABTT300 AB T-150 (150 x 80) 325 cm 18.95 FABTT325 AB T-150 (150 x 80) 350 cm 20.41 FABTT350 AB T-150 (150 x 80) 375 cm 21.86 FABTT375 AB T-150 (150 x 80) 400 cm 23.32 FABTT400 AB T-150 (150 x 80) 425 cm 24.78 FABTT425 AB T-150 (150 x 80) 450 cm 26.24 FABTT450 AB T-150 (150 x 80) 475 cm 27.69 FABTT475 AB T-150 (150 x 80) 500 cm 29.15 FABTT500 AB T-150 (150 x 80) 525 cm 30.61 FABTT525 AB T-150 (150 x 80) 550 cm 32.07 FABTT550 AB T-150 (150 x 80) 575 cm 33.52 FABTT575 AB T-150 (150 x 80) 600 cm 34.98 FABTT600
<b>HD Shoring Base</b>				<i>Aluminum Beam T150 (Timber Size 38x38mm)</i>		
	HD Shoring Base-50	4.48	FSS99P056		Finish: Mill Finish	
	HD Shoring Base-60	4.48	FSS99P057	<i>Moment of resistance: 13.00 kN.m</i>		
				<i>Area: 18.87 cm</i>		
				<i>Inertia xx: 574.3 cm</i>		
				<i>Inertia yy: 147.4 cm</i>		
				<i>Section modulus Zxx: 75.36 cm</i>		
				<i>Young's Modulus 69000 N/mm</i>		
				<i>Weight: 5.80 kg/m (with Timber)</i>		
				<i>5.05 kg/m (without Timber)</i>		
				<i>Timber Wt.=0.75 kg/m</i>		
<b>Rocking Push Pull Prop Base</b>					Without Timber	AB T-150 (150 x 80) 050 cm 2.54 FABTW050 AB T-150 (150 x 80) 075 cm 3.81 FABTW075 AB T-150 (150 x 80) 100 cm 5.08 FABTW100 AB T-150 (150 x 80) 125 cm 6.35 FABTW125 AB T-150 (150 x 80) 150 cm 7.62 FABTW150 AB T-150 (150 x 80) 175 cm 8.89 FABTW175 AB T-150 (150 x 80) 200 cm 10.16 FABTW200 AB T-150 (150 x 80) 225 cm 11.43 FABTW225 AB T-150 (150 x 80) 250 cm 12.70 FABTW250 AB T-150 (150 x 80) 275 cm 13.97 FABTW275 AB T-150 (150 x 80) 300 cm 15.24 FABTW300 AB T-150 (150 x 80) 325 cm 16.51 FABTW325 AB T-150 (150 x 80) 350 cm 17.78 FABTW350 AB T-150 (150 x 80) 375 cm 19.05 FABTW375 AB T-150 (150 x 80) 400 cm 20.32 FABTW400 AB T-150 (150 x 80) 425 cm 21.59 FABTW425 AB T-150 (150 x 80) 450 cm 22.86 FABTW450 AB T-150 (150 x 80) 475 cm 24.13 FABTW475 AB T-150 (150 x 80) 500 cm 25.40 FABTW500 AB T-150 (150 x 80) 525 cm 26.67 FABTW525 AB T-150 (150 x 80) 550 cm 27.94 FABTW550 AB T-150 (150 x 80) 575 cm 29.21 FABTW575 AB T-150 (150 x 80) 600 cm 30.48 FABTW600
	Rocking Push Pull Prop Base	0.94	XFGRB001		Finish: Painted	
<b>Double Push Pull Prop Base</b>						
	Double Push Pull Prop Base	3.00	XFGRB002		Finish: Painted	
<b>Double Push Pull Prop Base- Modified</b>					With Timber	AB S-150 (150 x 75) 050 cm 1.95 FABST050 AB S-150 (150 x 75) 075 cm 2.93 FABST075 AB S-150 (150 x 75) 100 cm 3.90 FABST100 AB S-150 (150 x 75) 125 cm 4.88 FABST125 AB S-150 (150 x 75) 150 cm 5.85 FABST150 AB S-150 (150 x 75) 175 cm 6.83 FABST175 AB S-150 (150 x 75) 200 cm 7.80 FABST200 AB S-150 (150 x 75) 225 cm 8.78 FABST225 AB S-150 (150 x 75) 250 cm 9.75 FABST250 AB S-150 (150 x 75) 275 cm 10.73 FABST275 AB S-150 (150 x 75) 300 cm 11.70 FABST300 AB S-150 (150 x 75) 325 cm 12.68 FABST325 AB S-150 (150 x 75) 350 cm 13.65 FABST350 AB S-150 (150 x 75) 375 cm 14.63 FABST375 AB S-150 (150 x 75) 400 cm 15.60 FABST400 AB S-150 (150 x 75) 425 cm 16.58 FABST425 AB S-150 (150 x 75) 450 cm 17.55 FABST450 AB S-150 (150 x 75) 475 cm 18.53 FABST475 AB S-150 (150 x 75) 500 cm 19.50 FABST500 AB S-150 (150 x 75) 525 cm 20.48 FABST525 AB S-150 (150 x 75) 550 cm 21.45 FABST550 AB S-150 (150 x 75) 575 cm 22.43 FABST575 AB S-150 (150 x 75) 600 cm 23.40 FABST600
	Double Push Pull Prop Base- Modified	3.46	XFGRB003		Finish: Painted	
<b>SF Anchor Hook 35 cm</b>						
	SF Anchor Hook 35 cm	0.78	FSFAH35		Finish: Mill Finish	
<b>Waling Casting Bracket</b>					Without Timber	AB S-150 (150 x 75) 050 cm 1.58 FABSW050 AB S-150 (150 x 75) 075 cm 2.36 FABSW075 AB S-150 (150 x 75) 100 cm 3.15 FABSW100 AB S-150 (150 x 75) 125 cm 3.94 FABSW125 AB S-150 (150 x 75) 150 cm 4.73 FABSW150 AB S-150 (150 x 75) 175 cm 5.51 FABSW175 AB S-150 (150 x 75) 200 cm 6.30 FABSW200 AB S-150 (150 x 75) 225 cm 7.09 FABSW225 AB S-150 (150 x 75) 250 cm 7.88 FABSW250 AB S-150 (150 x 75) 275 cm 8.66 FABSW275 AB S-150 (150 x 75) 300 cm 9.45 FABSW300 AB S-150 (150 x 75) 325 cm 10.24 FABSW325 AB S-150 (150 x 75) 350 cm 11.03 FABSW350 AB S-150 (150 x 75) 375 cm 11.81 FABSW375 AB S-150 (150 x 75) 400 cm 12.60 FABSW400 AB S-150 (150 x 75) 425 cm 13.39 FABSW425 AB S-150 (150 x 75) 450 cm 14.18 FABSW450 AB S-150 (150 x 75) 475 cm 14.96 FABSW475 AB S-150 (150 x 75) 500 cm 15.75 FABSW500 AB S-150 (150 x 75) 525 cm 16.54 FABSW525 AB S-150 (150 x 75) 550 cm 17.33 FABSW550 AB S-150 (150 x 75) 575 cm 18.11 FABSW575 AB S-150 (150 x 75) 600 cm 18.90 FABSW600
	Waling Casting Bracket	13.84	FWS008	 <i>Supplied with 1 number of M16 x 120 bolt &amp; nut</i>	Finish: Painted	

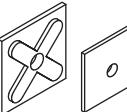
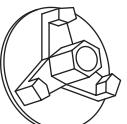
	Wt. (kg)	Code		Wt. (kg)	Code
<b>Double Push Pull Props Double Adjustable (DPPPDA)</b>			<b>Scaffold Tube (ST) Painted</b>		
			<b>M.D. Tube</b>		
DPPPDA 150cm (E/P Collar) HD	20.00	FDPD10015030E	ST 100 cm MD	2.28	FSTP20100
DPPPDA 250cm (E/P Collar) HD	22.24	FDPD15025030E	ST 150 cm MD	3.42	FSTP20150
DPPPDA 300cm (E/P Collar) HD	24.36	FDPD17030030E	ST 200 cm MD	4.57	FSTP20200
DPPPDA 350cm (E/P Collar) HD	26.02	FDPD20035030E	ST 250 cm MD	5.71	FSTP20250
DPPPDA 400cm (E/P Collar) HD	27.26	FDPD25040030E	ST 300 cm MD	6.85	FSTP20300
DPPPDA 450cm (E/P Collar) HD	31.93	FDPD25045030E	ST 350 cm MD	7.99	FSTP20350
DPPPDA 500cm (E/P Collar) HD	33.61	FDPD30050030E	ST 400 cm MD	9.13	FSTP20400
DPPPDA 550cm (E/P Collar) HD	35.28	FDPD35055030E	ST 450 cm MD	10.27	FSTP20450
DPPPDA 600cm (E/P Collar) HD	36.96	FDPD40060030E	ST 500 cm MD	11.42	FSTP20500
<i>Finish: Painted Dia.: 48.3 mm</i>			ST 550 cm MD	12.56	FSTP20550
			ST 600 cm MD	13.70	FSTP20600
<b>Single Rocking Push-Pull Prop (SRPPP)</b>			<b>H.D. Tube</b>		
					
SRPPP 150cm (Painted Collar) HD	10.09	FRPP10015030P	ST 100 cm HD	3.35	FSTP30100
SRPPP 200cm (Painted Collar) HD	12.21	FRPP12020030P	ST 150 cm HD	5.03	FSTP30150
SRPPP 250cm (Painted Collar) HD	13.84	FRPP15025030P	ST 200 cm HD	6.70	FSTP30200
SRPPP 300cm (Painted Collar) HD	15.96	FRPP17030030P	ST 250 cm HD	8.38	FSTP30250
SRPPP 350cm (Painted Collar) HD	17.62	FRPP20035030P	ST 300 cm HD	10.05	FSTP30300
SRPPP 400cm (Painted Collar) HD	19.30	FRPP25040030P	ST 350 cm HD	11.73	FSTP30350
SRPPP 450cm (Painted Collar) HD	21.42	FRPP25045030P	ST 400 cm HD	13.41	FSTP30400
SRPPP 500cm (Painted Collar) HD	23.09	FRPP30050030P	ST 450 cm HD	15.08	FSTP30450
SRPPP 550cm (Painted Collar) HD	24.77	FRPP35055030P	ST 500 cm HD	16.76	FSTP30500
SRPPP 600cm (Painted Collar) HD	26.44	FRPP40060030P	ST 550 cm HD	18.43	FSTP30550
<i>Finish: Painted Dia.: 48.3 mm</i>			ST 600 cm HD	20.11	FSTP30600
<b>Single Stabilizer (SS)</b>			<b>Scaffold Tube (ST) Black</b>		
			<b>M.D. Tube</b>		
SS 48-150 cm Painted	8.83	FSZS3848P150	ST 100 cm MD	2.28	FSTN20100
SS 48-200 cm Painted	10.71	FSZS3848P200	ST 150 cm MD	3.42	FSTN20150
SS 48-250 cm Painted	12.63	FSZS3848P250	ST 200 cm MD	4.57	FSTN20200
SS 48-300 cm Painted	14.72	FSZS3848P300	ST 250 cm MD	5.71	FSTN20250
SS 48-350 cm Painted	16.80	FSZS3848P350	ST 300 cm MD	6.85	FSTN20300
SS 48-400 cm Painted	19.74	FSZS3848P400	ST 350 cm MD	7.99	FSTN20350
<i>Finish: Black Dia.: 48.3 mm</i>			ST 400 cm MD	9.13	FSTN20400
			ST 450 cm MD	10.27	FSTN20450
			ST 500 cm MD	11.42	FSTN20500
			ST 550 cm MD	12.56	FSTN20550
			ST 600 cm MD	13.70	FSTN20600
<b>New Single Stabilizer 48</b>			<b>H.D. Tube</b>		
					
SS 60-150 cm Painted	10.70	FSZS3860P150	ST 100 cm HD	3.35	FSTN30100
SS 60-200 cm Painted	13.08	FSZS3860P200	ST 150 cm HD	5.03	FSTN30150
SS 60-250 cm Painted	15.55	FSZS3860P250	ST 200 cm HD	6.70	FSTN30200
SS 60-300 cm Painted	18.19	FSZS3860P300	ST 250 cm HD	8.38	FSTN30250
SS 60-350 cm Painted	20.84	FSZS3860P350	ST 300 cm HD	10.05	FSTN30300
SS 60-400 cm Painted	24.34	FSZS3860P400	ST 350 cm HD	11.73	FSTN30350
SS 60-450 cm Painted	26.99	FSZS3860P450	ST 400 cm HD	13.41	FSTN30400
SS 60-500 cm Painted	29.64	FSZS3860P500	ST 450 cm HD	15.08	FSTN30450
SS 60-550 cm Painted	32.28	FSZS3860P550	ST 500 cm HD	16.76	FSTN30500
SS 60-600 cm Painted	34.93	FSZS3860P600	ST 550 cm HD	18.43	FSTN30550
SS 60-700 cm Painted	40.22	FSZS3860P700	ST 600 cm HD	20.11	FSTN30600
<i>Finish: Black Dia.: 48.3 mm</i>			<b>Scaffold Tube (ST) GI</b>		
<b>Double Stabilizers (DS)</b>			<b>M.D. Tube</b>		
					
DS 48-250 cm Painted	24.47	FSZD3848P250	ST 100 cm MD	2.28	FSTG20100
DS 48-300 cm Painted	28.43	FSZD3848P300	ST 150 cm MD	3.42	FSTG20150
DS 48-350 cm Painted	30.51	FSZD3848P350	ST 200 cm MD	4.57	FSTG20200
DS 48-400 cm Painted	35.37	FSZD3848P400	ST 250 cm MD	5.71	FSTG20250
<i>Finish: GI Dia.: 48.3 mm</i>			ST 300 cm MD	6.85	FSTG20300
			ST 350 cm MD	7.99	FSTG20350
			ST 400 cm MD	9.13	FSTG20400
			ST 450 cm MD	10.27	FSTG20450
			ST 500 cm MD	11.42	FSTG20500
			ST 550 cm MD	12.56	FSTG20550
			ST 600 cm MD	13.70	FSTG20600
<b>H.D. Tube</b>			<b>H.D. Tube</b>		
					
DS 48-250 cm E/P	24.47	FSZD3848E250	ST 100 cm HD	3.35	FSTG30100
DS 48-300 cm E/P	28.43	FSZD3848E300	ST 150 cm HD	5.03	FSTG30150
DS 48-350 cm E/P	30.51	FSZD3848E350	ST 200 cm HD	6.70	FSTG30200
DS 48-400 cm E/P	35.37	FSZD3848E400	ST 250 cm HD	8.38	FSTG30250
<i>Finish: GI Dia.: 48.3 mm</i>			ST 300 cm HD	10.05	FSTG30300
			ST 350 cm HD	11.73	FSTG30350
			ST 400 cm HD	13.41	FSTG30400
			ST 450 cm HD	15.08	FSTG30450
			ST 500 cm HD	16.76	FSTG30500
			ST 550 cm HD	18.43	FSTG30550
			ST 600 cm HD	20.11	FSTG30600

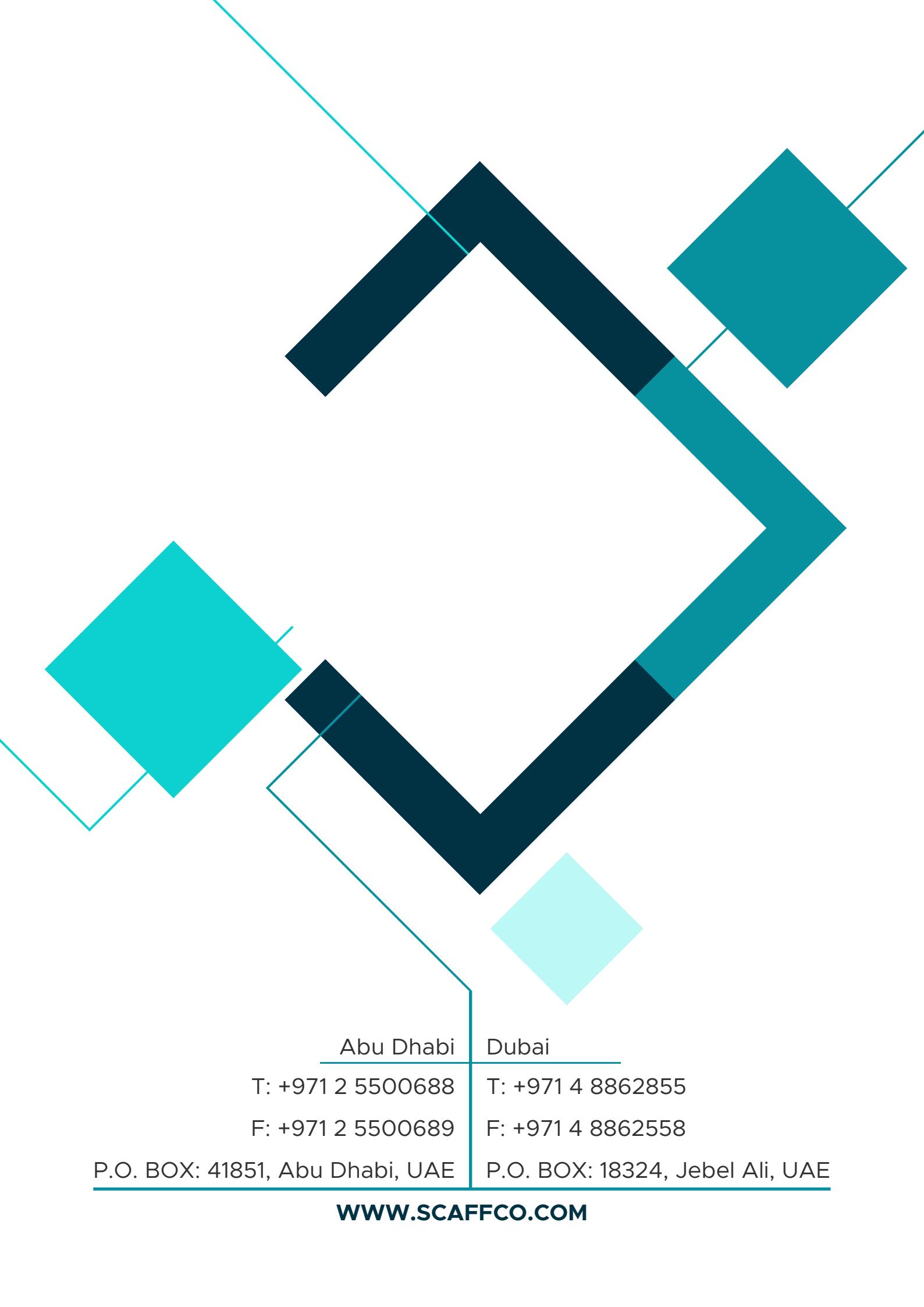
	Wt. (kg)	Code		Wt. (kg)	Code
<b>Bolt, Nut and Washer</b>			<b>Tie Rod</b>		
 Full Threaded Bolt, Nut and Washers	Bolt and Nut M12x100 (Half Threaded) Bolt and Nut M12x40 (Full Threaded) G8 Bolt and Nut M16X150 Bolt, Nut & Washer 16X100 mm Bolt, Nut & Washer 16X100 mm G10 Bolt, Nut & Washer 16X40 mm Bolt, Nut & Washer 14X100 mm Bolt, Nut & Washer M12X80 (Carriage) Bolt, Nut & Washer 10X100 (Half Threaded) Bolt, Nut & Washer 10X75 (Full Threaded) Bolt, Nut & Washer 10X30 mm Bolt and Nut w/o Washer 06x40 mm GI	0.14 0.10 0.33 0.20 0.25 0.14 0.15 0.09 0.08 0.07 0.04 0.01	XFGGH1210 XFGBF12040 XFGBF16150 XFGBF16100 XFGBG16100 XFGBF16040 XFGBF14100 XFGBF12080 XFGBH10100 XFGBF10075 XFGBON10030W XFGBON0640GN	 Dia.: 16 mm	
<b>Water Stopper</b>			Tie Rod 015 cm Black Tie Rod 020 cm Black Tie Rod 025 cm Black Tie Rod 030 cm Black Tie Rod 035 cm Black Tie Rod 040 cm Black Tie Rod 045 cm Black Tie Rod 050 cm Black Tie Rod 055 cm Black Tie Rod 060 cm Black Tie Rod 065 cm Black Tie Rod 070 cm Black Tie Rod 075 cm Black Tie Rod 080 cm Black Tie Rod 085 cm Black Tie Rod 090 cm Black Tie Rod 095 cm Black Tie Rod 100 cm Black Tie Rod 105 cm Black Tie Rod 110 cm Black Tie Rod 115 cm Black Tie Rod 120 cm Black Tie Rod 125 cm Black Tie Rod 130 cm Black Tie Rod 135 cm Black Tie Rod 140 cm Black Tie Rod 145 cm Black Tie Rod 150 cm Black Tie Rod 155 cm Black Tie Rod 160 cm Black Tie Rod 165 cm Black Tie Rod 170 cm Black Tie Rod 175 cm Black Tie Rod 180 cm Black Tie Rod 185 cm Black Tie Rod 190 cm Black Tie Rod 195 cm Black Tie Rod 200 cm Black Tie Rod 205 cm Black Tie Rod 210 cm Black Tie Rod 215 cm Black Tie Rod 220 cm Black Tie Rod 225 cm Black Tie Rod 230 cm Black Tie Rod 235 cm Black Tie Rod 240 cm Black Tie Rod 245 cm Black Tie Rod 250 cm Black Tie Rod 255 cm Black Tie Rod 260 cm Black Tie Rod 265 cm Black Tie Rod 270 cm Black Tie Rod 275 cm Black Tie Rod 280 cm Black Tie Rod 285 cm Black Tie Rod 290 cm Black Tie Rod 295 cm Black Tie Rod 300 cm Black Tie Rod 310 cm Black Tie Rod 320 cm Black Tie Rod 330 cm Black Tie Rod 340 cm Black Tie Rod 350 cm Black Tie Rod 360 cm Black Tie Rod 370 cm Black Tie Rod 380 cm Black Tie Rod 390 cm Black Tie Rod 400 cm Black Tie Rod 410 cm Black Tie Rod 420 cm Black Tie Rod 430 cm Black Tie Rod 440 cm Black Tie Rod 450 cm Black Tie Rod 460 cm Black Tie Rod 470 cm Black Tie Rod 480 cm Black Tie Rod 490 cm Black Tie Rod 500 cm Black Tie Rod 510 cm Black Tie Rod 520 cm Black Tie Rod 530 cm Black Tie Rod 540 cm Black Tie Rod 550 cm Black Tie Rod 560 cm Black Tie Rod 570 cm Black Tie Rod 580 cm Black Tie Rod 590 cm Black Tie Rod 600 cm Black	0.23 0.31 0.39 0.47 0.54 0.62 0.70 0.78 0.85 0.93 1.01 1.09 1.16 1.24 1.32 1.40 1.47 1.55 1.63 1.71 1.78 1.86 1.94 2.02 2.09 2.17 2.25 2.33 2.40 2.48 2.56 2.64 2.71 2.79 2.87 2.95 3.02 3.10 3.18 3.26 3.33 3.41 3.49 3.57 3.64 3.72 3.80 3.88 3.95 4.03 4.11 4.19 4.26 4.34 4.42 4.50 4.57 4.65 4.81 4.96 5.12 5.27 5.43 5.58 5.74 5.89 6.05 6.20 6.36 6.51 6.67 6.82 6.98 7.13 7.29 7.44 7.60 7.75 7.91 8.06 8.22 8.37 8.53 8.68 8.84 8.99 9.15 9.30	XFGTRB015 XFGTRB020 XFGTRB025 XFGTRB030 XFGTRB035 XFGTRB040 XFGTRB045 XFGTRB050 XFGTRB055 XFGTRB060 XFGTRB065 XFGTRB070 XFGTRB075 XFGTRB080 XFGTRB085 XFGTRB090 XFGTRB095 XFGTRB100 XFGTRB105 XFGTRB110 XFGTRB115 XFGTRB120 XFGTRB125 XFGTRB130 XFGTRB135 XFGTRB140 XFGTRB145 XFGTRB150 XFGTRB155 XFGTRB160 XFGTRB165 XFGTRB170 XFGTRB175 XFGTRB180 XFGTRB185 XFGTRB190 XFGTRB195 XFGTRB200 XFGTRB205 XFGTRB210 XFGTRB215 XFGTRB220 XFGTRB225 XFGTRB230 XFGTRB235 XFGTRB240 XFGTRB245 XFGTRB250 XFGTRB255 XFGTRB260 XFGTRB265 XFGTRB270 XFGTRB275 XFGTRB280 XFGTRB285 XFGTRB290 XFGTRB295 XFGTRB300 XFGTRB310 XFGTRB320 XFGTRB330 XFGTRB340 XFGTRB350 XFGTRB360 XFGTRB370 XFGTRB380 XFGTRB390 XFGTRB400 XFGTRB410 XFGTRB420 XFGTRB430 XFGTRB440 XFGTRB450 XFGTRB460 XFGTRB470 XFGTRB480 XFGTRB490 XFGTRB500 XFGTRB510 XFGTRB520 XFGTRB530 XFGTRB540 XFGTRB550 XFGTRB560 XFGTRB570 XFGTRB580 XFGTRB590 XFGTRB600
<b>Water Stopper</b>					
 Water Stopper GI-Finish Water Reducer	0.56 0.09	XFGWSE XWSSP050			
<b>Plastic Cone</b>					
 Plastic Cone	0.01	XFGCONE			
<b>Plastic Sleeve 1M</b>					
 Plastic Sleeve 1M	0.15	XFGPSL100			
	<i>One Meter length For the required length use multiple of one meter</i>				
<b>Counter Plate</b>					
 Counter Plate 90x90x6 mm Counter Plate 90x90x8 mm Counter Plate 150x150 mm	0.35 0.49 1.40	XFGCP60E09 XFGCP80E09 XFGCP80E15			
<b>Wing Nut</b>					
 Wing Nut E/P	0.30	XFGWNUTE			
<b>Round Wing Nut</b>					
 Round Wing Nut (Anchor Nut)	0.63	XANUT15100			
	<i>Finish: Electroplated DIA.: 100 mm</i>				

Steel Waling (SW)	Wt. (kg)	Code		Wt. (kg)	Code
SW 120X55 - 060 cm	14.73	FWS02P060	<b>W12 Adj. Waling Connector</b>		
SW 120X55 - 090 cm	21.81	FWS02P090		W12 Adj. Waling Connector	6.10
SW 120X55 - 120 cm	28.88	FWS02P120			XFWS017
SW 120X55 - 150 cm	36.52	FWS02P150			
SW 120X55 - 180 cm	43.32	FWS02P180			
SW 120X55 - 210 cm	50.40	FWS02P210	<b>W12 Waling Splice-S</b>		
SW 120X55 - 240 cm	57.76	FWS02P240		W12 Waling Splice-S	2.40
SW 120X55 - 270 cm	64.84	FWS02P275			FWS010
SW 120X55 - 300 cm	72.20	FWS02P300			
SW 120X55 - 330 cm	79.20	FWS02P330			
SW 120X55 - 360 cm	86.64	FWS02P360	<b>W12 Waling Splice-D</b>		
SW 120X55 - 390 cm	93.72	FWS02P390		W12 Waling Splice-D	5.40
SW 120X55 - 400 cm	102.41	FWS02P400			FWS011
SW 120X55 - 420 cm	101.80	FWS02P420			
SW 120X55 - 450 cm	108.16	FWS02P450	<b>W12 Unbent Waler Connector-76</b>		
SW 120X55 - 480 cm	115.52	FWS02P480		W12 Unbent Waler Connector-76	7.30
SW 120X55 - 510 cm	122.60	FWS02P510			FWS002
SW 120X55 - 540 cm	129.96	FWS02P540			
SW 120X55 - 570 cm	137.04	FWS02P570			
SW 120X55 - 600 cm	144.11	FWS02P600	<b>W12 Unbent Waler Connector 56</b>		
				W12 Unbent Waler Connector 56	4.09
					FWS023
<b>W12 Active Waler Connector</b>					
W12 Active Waler Connector (for U-Channel 12)	9.48	FWS004			
			<b>W12 Waling Prop Connector</b>		
				W12 Waling Prop Connector	1.82
					XWSPC001
<b>W12 Right Angle Waler Connector</b>					
W12 Right Angle Waler Connector (for U-Channel 12)	10.64	FWS003	<b>W12 Waler Bracket</b>		
				W12 Waler Round Bracket	2.30
					FWSRB020
<b>W12 Waling Stop End Bracket</b>					
W12 Waling Stop End Bracket	1.05	FWS009		W12 Waler Delta Bracket	2.40
					FWSDB021
<b>W12 Waling Corner Connector - 50</b>					
W12 Waling Corner Connector - 50	3.9	FWS014		W12 Waler Gamma Bracket	3.34
					FWSGB022
<b>W12 Waling Corner Connector - 100</b>					
W12 Waling Corner Connector - 100	6.0	FWS013	<b>W12 Waling Pivot Cleat</b>		
				W12 Waling Pivot Cleat	6.75
					FWS021

	Wt. (kg)	Code	Wt. (kg)	Code
<b>W12 Waling Adjustable Pivot Cleat</b>			<b>W12 Waling Single H20 Clamp (H20 to Waling)</b>	
	W12 Waling Adjustable Pivot Cleat 9.36	FWS022		W12 Waling Single H20 Clamp (H20 to Waling) 0.43 FWS024
<b>Waling Soldier Connector</b>			<b>H20 Timber Beam (TB)</b>	
	Waling Soldier Connector 1.25	FWS012	 H20 TB (200x80) 0125 cm 6.25 FTBH20125 H20 TB (200x80) 0145 cm 7.25 FTBH20145 H20 TB (200x80) 0165 cm 8.25 FTBH20165 H20 TB (200x80) 0180 cm 9.00 FTBH20180 H20 TB (200x80) 0225 cm 11.25 FTBH20225 H20 TB (200x80) 0245 cm 12.25 FTBH20245 H20 TB (200x80) 0265 cm 13.25 FTBH20265 H20 TB (200x80) 0290 cm 14.50 FTBH20290 H20 TB (200x80) 0295 cm 14.75 FTBH20295 H20 TB (200x80) 0330 cm 16.50 FTBH20330 H20 TB (200x80) 0360 cm 18.00 FTBH20360 H20 TB (200x80) 0390 cm 19.50 FTBH20390 H20 TB (200x80) 0450 cm 22.50 FTBH20450 H20 TB (200x80) 0490 cm 24.50 FTBH20490 H20 TB (200x80) 0590 cm 29.50 FTBH20590 H20 TB (200x80) 1190 cm 59.50 FTBH201190	
<b>H20 Waler Clamp (H20 to Waling W12+W10)</b>			<i>Moment: 5.00 kN.m Shear: 11kN Area: 18.87 cm E.I= 500 kNm</i>	
	H20 Waler Clamp (H20 to Waling W12+W10) 0.70	XFGH20WC	<i>Finish: Varnished Yellow Supports are rounded at the end for damage protection. Web-three layer crosswise laminated solid timber panel. Weight: 5 kg per running meter</i>	
<b>Splice of H20 Beam</b>			<b>HD Shoring Base</b>	
	Splice of H20 Beam 8.40	FWS017	 HD Shoring base-50 4.48 FSS99P056  HD Shoring base-60 4.48 FSS99P057	
<i>Finish: Painted Supplied with 4 numbers of M16 x 100 bolt &amp; nut</i>			<i>Finish: Painted</i>	
<b>Universal Lifting Bracket</b>			<b>Rocking Push Pull Prop Base</b>	
	Universal Lifting Bracket 3.58	XFGULB01	 Rocking Push Pull Prop Base 0.94 XFGRB001	
<i>Finish: Painted</i>			<i>Finish: Painted</i>	
<b>Unbent Waler Connector Holder</b>			<b>Double Push Pull Prop Base</b>	
	Unbent Waler Connector Holder 1.84	XWSUWCH20	 Double Push Pull Prop Base 3.00 XFGRB002	
<i>Finish: Painted Supplied with 2 numbers of M16 x 100 bolt &amp; nut</i>			<i>Finish: Painted</i>	
<b>Waling Casting Bracket</b>			<b>Double Push Pull Prop Base- Modified</b>	
	Waling Casting Bracket 13.84	FWS008	 Double Push Pull Prop Base- Modified 3.46 XFGRB003	
<i>Finish: Painted Supplied with 1 number of M16 x 120 bolt &amp; nut</i>			<i>Finish: Painted</i>	
<b>Wedge</b>			<b>SF Anchor Hook 35 cm</b>	
	Wedge 0.59 FWS007		 SF Anchor Hook 35 cm 0.78 FSFAH35	
<b>Waling Spacer-50</b>			<b>Waling Spacer-50</b>	
	Waling Spacer-50 0.09 XWSSP050		<i>Finish: Painted Blue</i>	

	Wt. (kg)	Code		Wt. (kg)	Code
<b>Double Push Pull Props Double Adjustable (DPPPDA)</b>			<b>Scaffold Tube (ST) Painted</b>		
			<b>M.D. Tube</b>		
DPPPDA 150xm (E/P Collar) HD	20.00	FDPD10015030E	ST 100 cm MD	2.28	FSTP20100
DPPPDA 250cm (E/P Collar) HD	22.24	FDPD15025030E	ST 150 cm MD	3.42	FSTP20150
DPPPDA 300cm (E/P Collar) HD	24.36	FDPD17030030E	ST 200 cm MD	4.57	FSTP20200
DPPPDA 350cm (E/P Collar) HD	26.02	FDPD20035030E	ST 250 cm MD	5.71	FSTP20250
DPPPDA 400cm (E/P Collar) HD	27.26	FDPD25040030E	ST 300 cm MD	6.85	FSTP20300
DPPPDA 450cm (E/P Collar) HD	31.93	FDPD25045030E	ST 350 cm MD	7.99	FSTP20350
DPPPDA 500cm (E/P Collar) HD	33.61	FDPD30050030E	ST 400 cm MD	9.13	FSTP20400
DPPPDA 550cm (E/P Collar) HD	35.28	FDPD35055030E	ST 450 cm MD	10.27	FSTP20450
DPPPDA 600cm (E/P Collar) HD	36.96	FDPD40060030E	ST 500 cm MD	11.42	FSTP20500
			ST 550 cm MD	12.56	FSTP20550
			ST 600 cm MD	13.70	FSTP20600
<i>Finish: Painted</i>			<i>Finish: Painted</i>		
<i>Dia.: 48.3 mm</i>					
<b>Single Rocking Push-Pull Prop (SRPPP)</b>			<b>H.D. Tube</b>		
			ST 100 cm HD	3.35	FSTP30100
SRPPP 150cm (Painted Collar) HD	10.09	FRPP10015030P	ST 150 cm HD	5.03	FSTP30150
SRPPP 200cm (Painted Collar) HD	12.21	FRPP12020030P	ST 200 cm HD	6.70	FSTP30200
SRPPP 250cm (Painted Collar) HD	13.84	FRPP15025030P	ST 250 cm HD	8.38	FSTP30250
SRPPP 300cm (Painted Collar) HD	15.96	FRPP17030030P	ST 300 cm HD	10.05	FSTP30300
SRPPP 350cm (Painted Collar) HD	17.62	FRPP20035030P	ST 350 cm HD	11.73	FSTP30350
SRPPP 400cm (Painted Collar) HD	19.30	FRPP25040030P	ST 400 cm HD	13.41	FSTP30400
SRPPP 450cm (Painted Collar) HD	21.42	FRPP25045030P	ST 450 cm HD	15.08	FSTP30450
SRPPP 500cm (Painted Collar) HD	23.09	FRPP30050030P	ST 500 cm HD	16.76	FSTP30500
SRPPP 550cm (Painted Collar) HD	24.77	FRPP35055030P	ST 550 cm HD	18.43	FSTP30550
SRPPP 600cm (Painted Collar) HD	26.44	FRPP40060030P	ST 600 cm HD	20.11	FSTP30600
			<i>Finish: Painted</i>		
			<i>Dia.: 48.3 mm</i>		
<b>Single Stabilizer (SS)</b>			<b>Scaffold Tube (ST) Black</b>		
			<b>M.D. Tube</b>		
SS 48-150 cm Painted	8.83	FSZS3848P150	ST 100 cm MD	2.28	FSTN20100
SS 48-200 cm Painted	10.71	FSZS3848P200	ST 150 cm MD	3.42	FSTN20150
SS 48-250 cm Painted	12.63	FSZS3848P250	ST 200 cm MD	4.57	FSTN20200
SS 48-300 cm Painted	14.72	FSZS3848P300	ST 250 cm MD	5.71	FSTN20250
SS 48-350 cm Painted	16.80	FSZS3848P350	ST 300 cm MD	6.85	FSTN20300
SS 48-400 cm Painted	19.74	FSZS3848P400	ST 350 cm MD	7.99	FSTN20350
			ST 400 cm MD	9.13	FSTN20400
<i>Finish: Painted</i>			ST 450 cm MD	10.27	FSTN20450
			ST 500 cm MD	11.42	FSTN20500
			ST 550 cm MD	12.56	FSTN20550
			ST 600 cm MD	13.70	FSTN20600
			<i>Finish: Black</i>		
			<i>Dia.: 48.3 mm</i>		
<b>New Single Stabilizer 48</b>			<b>H.D. Tube</b>		
<b>New Single Stabilizer 60</b>			ST 100 cm HD	3.35	FSTN30100
			ST 150 cm HD	5.03	FSTN30150
			ST 200 cm HD	6.70	FSTN30200
			ST 250 cm HD	8.38	FSTN30250
			ST 300 cm HD	10.05	FSTN30300
			ST 350 cm HD	11.73	FSTN30350
			ST 400 cm HD	13.41	FSTN30400
			ST 450 cm HD	15.08	FSTN30450
			ST 500 cm HD	16.76	FSTN30500
			ST 550 cm HD	18.43	FSTN30550
			ST 600 cm HD	20.11	FSTN30600
			<i>Finish: Black</i>		
			<i>Dia.: 48.3 mm</i>		
<b>Double Stabilizers (DS)</b>			<b>Scaffold Tube (ST) GI</b>		
			<b>M.D. Tube</b>		
DS 48-250 cm Painted	24.47	FSZD3848P250	ST 100 cm MD	2.28	FSTG20100
DS 48-300 cm Painted	28.43	FSZD3848P300	ST 150 cm MD	3.42	FSTG20150
DS 48-350 cm Painted	30.51	FSZD3848P350	ST 200 cm MD	4.57	FSTG20200
DS 48-400 cm Painted	35.37	FSZD3848P400	ST 250 cm MD	5.71	FSTG20250
			ST 300 cm MD	6.85	FSTG20300
<i>Finish: Painted</i>			ST 350 cm MD	7.99	FSTG20350
			ST 400 cm MD	9.13	FSTG20400
			ST 450 cm MD	10.27	FSTG20450
			ST 500 cm MD	11.42	FSTG20500
			ST 550 cm MD	12.56	FSTG20550
			ST 600 cm MD	13.70	FSTG20600
			<i>Finish: GI</i>		
			<i>Dia.: 48.3 mm</i>		
			<b>H.D. Tube</b>		
			ST 100 cm HD	3.35	FSTG30100
			ST 150 cm HD	5.03	FSTG30150
			ST 200 cm HD	6.70	FSTG30200
			ST 250 cm HD	8.38	FSTG30250
			ST 300 cm HD	10.05	FSTG30300
			ST 350 cm HD	11.73	FSTG30350
			ST 400 cm HD	13.41	FSTG30400
			ST 450 cm HD	15.08	FSTG30450
			ST 500 cm HD	16.76	FSTG30500
			ST 550 cm HD	18.43	FSTG30550
			ST 600 cm HD	20.11	FSTG30600
			<i>Finish: GI</i>		
			<i>Dia.: 48.3 mm</i>		

	Wt. (kg)	Code		Wt. (kg)	Code
<b>Bolt, Nut and Washer</b>			<b>Tie Rod</b>		
	Bolt and Nut M12x100 (Half Threaded) 0.14	XFGGH1210			
	Bolt and Nut M12x40 (Full Threaded) G8 0.10	XFGBF12040			
	Bolt and Nut M16X150 0.33	XFGBF16150			
	Bolt, Nut & Washer 16X100 mm 0.20	XFGBG16100			
	Bolt, Nut & Washer 16X100 mm G10 0.25	XFGBG16100			
	Bolt, Nut & Washer 16X40 mm 0.14	XFGBF16040			
	Bolt, Nut & Washer 14X100 mm 0.15	XFGBF14100			
	Bolt, Nut & Washer M12X80 (Carriage) 0.09	XFGBF12080			
	Bolt, Nut & Washer 10X100 (Half Threaded) 0.08	XFGBH10100			
	Bolt, Nut & Washer 10X75 (Full Threaded) 0.07	XFGBF10075			
	Bolt, Nut & Washer 10X30 mm 0.04	XFGBON10030W			
	Bolt and Nut w/o Washer 06x40 mm GI 0.01	XFGBON0640GN			
<b>Water Stopper</b>					
	Water Stopper GI-Finish 0.56	XFGWSE			
	Water Reducer 0.09	XWSSP050			
			<i>Dia.: 16 mm</i>		
<b>Plastic Cone</b>					
	Plastic Cone 0.01	XFGCONE			
<b>Plastic Sleeve 1M</b>					
	Plastic Sleeve 1M 0.15	XFGPSL100			
			<i>One Meter length For the required length use multiple of one meter</i>		
<b>Counter Plate</b>					
	Counter Plate 90x90x6 mm 0.35	XFGCP60E09			
	Counter Plate 90x90x8 mm 0.49	XFGCP80E09			
	Counter Plate 150x150 mm 1.40	XFGCP80E15			
<b>Wing Nut</b>					
	Wing Nut E/P 0.30	XFGWNUTE			
<b>Round Wing Nut</b>					
	Round Wing Nut (Anchor Nut) 0.63	XANUT15100			
	<i>Finish: Electroplated DIA.: 100 mm</i>				



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