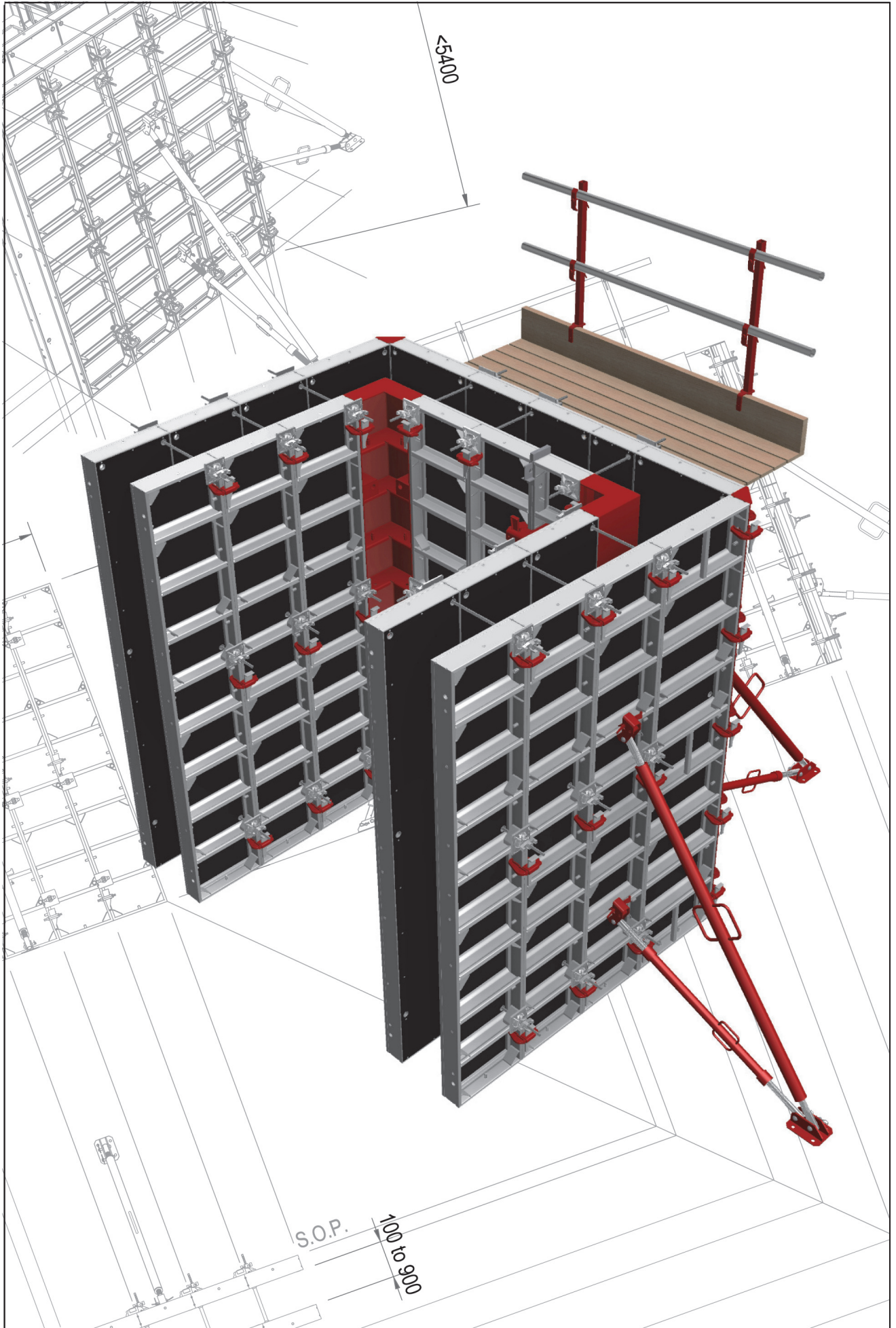


WACO

TIFA-LITE WALLFORM SYSTEM

TIFA-LITE PRODUCT CATALOGUE



- Waco International is a privately owned global company with annual revenues in excess of A\$600 million.
- The company employs over 3000 skilled and enthusiastic people, and involves many more through its subcontractors, in scaffolding, formwork and portable buildings businesses in Australia, New Zealand, South Africa, United Kingdom and Chile.
- Waco International Ltd has operated in Australia since 1984. In 1992 it acquired GKN Kwikform, creating the company that today operates as Waco Kwikform Limited.
- Waco Kwikform has both size and geographical coverage. With a stockholding in excess of 70,000 tonnes and local branches throughout Australia and New Zealand, Waco Kwikform is recognised as a leading supplier of scaffolding and formwork.
- The company is built around a service culture. We have the capacity to provide design, product and technical support to the largest commercial, residential, industrial and civil engineering projects, from capital city construction to major mining, oil and gas projects throughout the country.
- Our opinion is sought by and we work closely with organisations like Standards Australia and the various state regulatory authorities in reviewing and shaping the standards by which our industry operates both today and into the future.

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GENERAL INFORMATION

System Overview

- This product catalogue provides basic technical information regarding the components that are used to make up the Tifa-Lite system.
- Tifa-Lite is a light duty man handled wall forming system with the following main features:
- The system is able to resist a concrete pressure of 54 kN/m².
- The Panels are available in lengths of 2700, 1500 and 1200 mm and in widths of 900, 600, 450, 300 and 150 mm.
- The Panels may be gang-formed to convert Tifa-Lite into a crane handled system.
- Components are galvanized for long life protection.
- The system provides safe working platforms.
- Tifa-Lite Panels are compatible with the Tifa system.

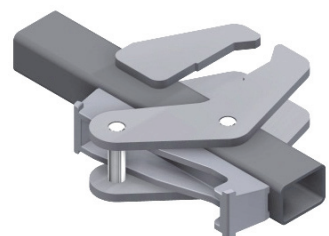
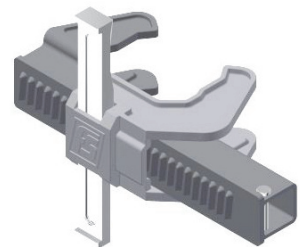
ACCURACY OF CONCRETE WORK

Expected Concrete Surface Finish Using Tifa-Lite

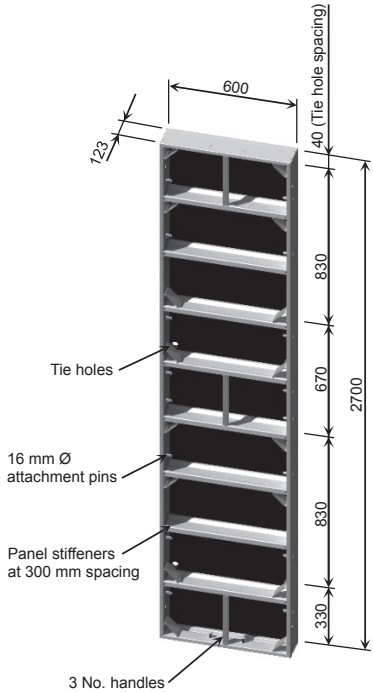
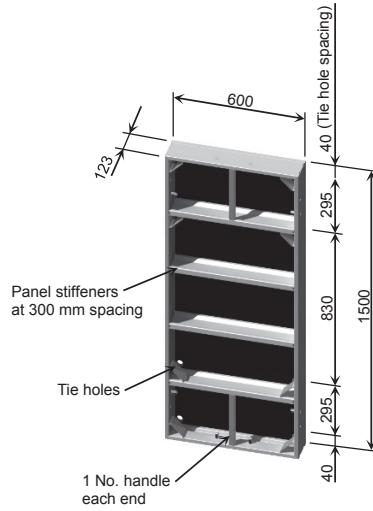
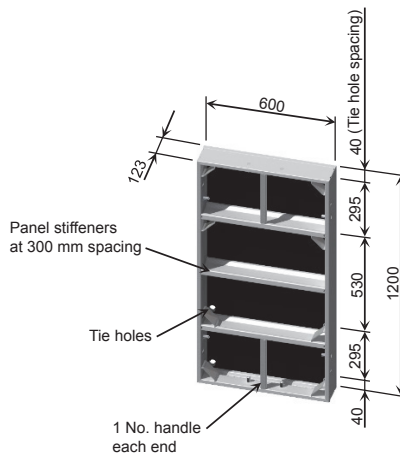
- The Tifa-Lite system produces a 'smooth' Class 2 to Class 3 finish.
- No treatment of the concrete surface is required after striking the formwork.

Class Description

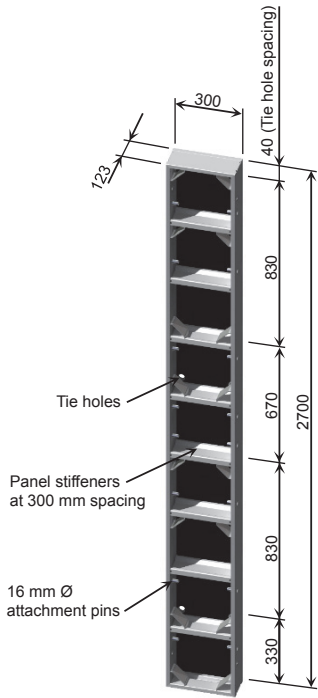
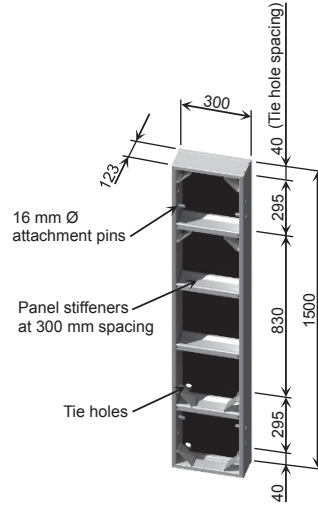
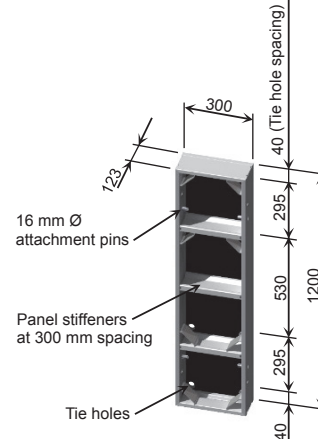
- **Class 3**
Degree of accuracy III is suitable for use where a high degree of accuracy is unnecessary, for example, mass reinforced foundations, frames, walls, columns and beams that are normally plastered, painted or hidden from view.
- **Class 2**
Degree of accuracy II is suitable for use where a reasonable degree of accuracy is required and not hidden from view.
- **Class 1**
Degree of accuracy I is suitable when the use of special, as opposed to normal methods or materials, or both, is warranted despite the probability of higher costs than those caused by the use of degree of accuracy II.

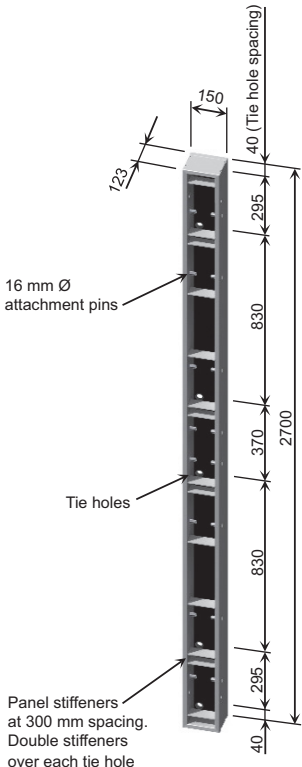
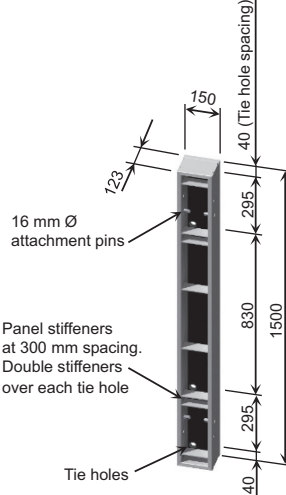
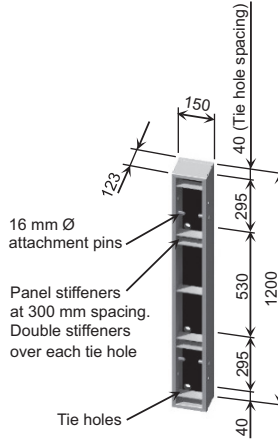


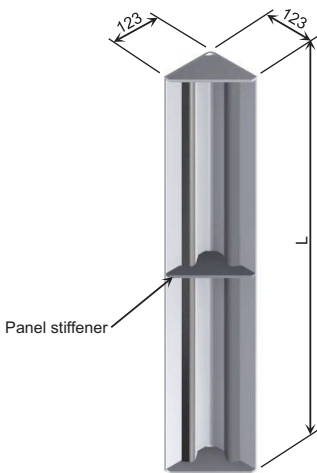
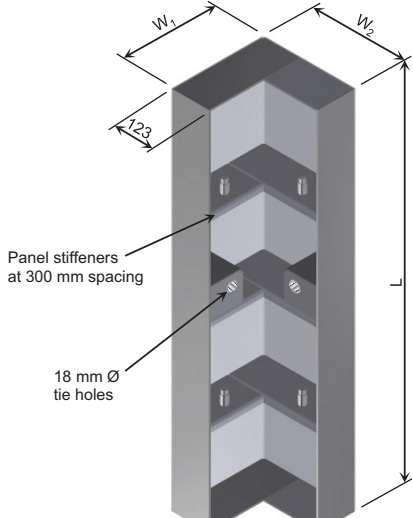
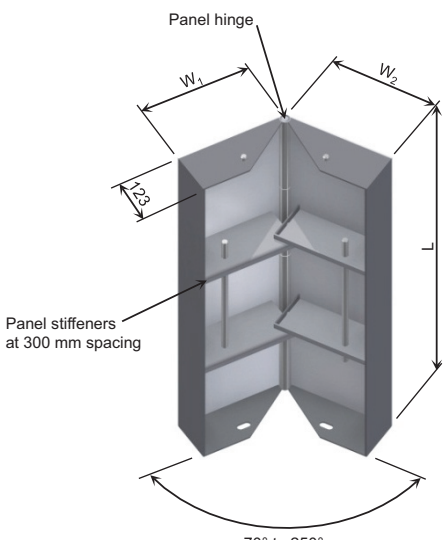
Product	Code	Description	Weight (kg)
<p>900</p> <p>123</p> <p>40 (Tie hole spacing)</p> <p>1125</p> <p>2700</p> <p>1200</p> <p>335</p> <p>Tie holes</p> <p>16 mm Ø attachment pins</p> <p>Panel stiffeners at 300 mm spacing</p> <p>2 No. handles each end</p>	123014	<p>Tifa-Lite Panels are used to form the concrete surfaces of vertical or inclined structures.</p> <p>900 mm wide panels are available in lengths of 2700, 1500 and 1200 mm.</p> <p>900 mm wide panels have 6 No. 25 mm Ø tie holes to accommodate the Dywidag tie system.</p> <p>Panels are fitted with 15 mm WISA-Form plywood facing.</p> <p>Tifa-Lite Panel 2700 x 900</p>	95.9
<p>900</p> <p>123</p> <p>40 (Tie hole spacing)</p> <p>1125</p> <p>1500</p> <p>295</p> <p>40</p> <p>16 mm Ø attachment pins</p> <p>Panel stiffeners at 300 mm spacing</p> <p>Tie holes</p> <p>2 No. handles each end</p>	123010	Tifa-Lite Panel 1500 x 900	55.9
<p>900</p> <p>123</p> <p>40 (Tie hole spacing)</p> <p>825</p> <p>1200</p> <p>295</p> <p>40</p> <p>16 mm Ø attachment pins</p> <p>Panel stiffeners at 300 mm spacing</p> <p>Tie holes</p> <p>2 No. handles each end</p>	123005	Tifa-Lite Panel 1200 x 900	44.3

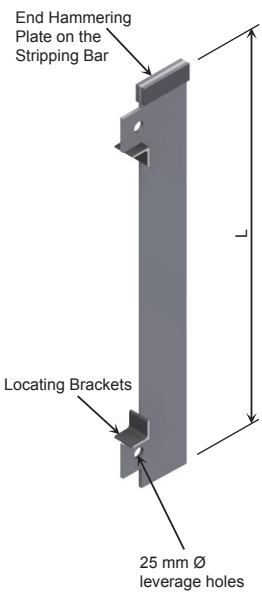
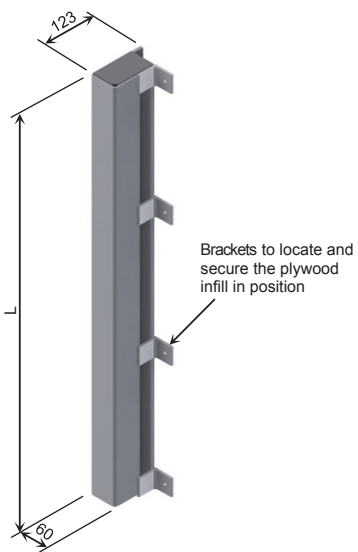
Product	Code	Description	Weight (kg)
 <p>600</p> <p>123</p> <p>Tie holes</p> <p>16 mm Ø attachment pins</p> <p>Panel stiffeners at 300 mm spacing</p> <p>3 No. handles</p> <p>40 (Tie hole spacing)</p> <p>830</p> <p>670</p> <p>2700</p> <p>830</p> <p>330</p>	123013	<p>600 mm wide panels are available in lengths of 2700 mm, 1500 mm and 1200 mm.</p> <p>600 mm wide panels have 8 No. 25 mm Ø tie holes to accommodate the Dywidag tie system.</p> <p>Panels are fitted with 15 mm WISA-Form plywood facing.</p> <p>Tifa-Lite Panel 2700 x 600</p>	69.7
 <p>600</p> <p>123</p> <p>Panel stiffeners at 300 mm spacing</p> <p>Tie holes</p> <p>1 No. handle each end</p> <p>40 (Tie hole spacing)</p> <p>295</p> <p>830</p> <p>1500</p> <p>295</p> <p>40</p>	123009	Tifa-Lite Panel 1500 x 600	39.9
 <p>600</p> <p>123</p> <p>Panel stiffeners at 300 mm spacing</p> <p>Tie holes</p> <p>1 No. handle each end</p> <p>40 (Tie hole spacing)</p> <p>295</p> <p>530</p> <p>1200</p> <p>295</p> <p>40</p>	123004	Tifa-Lite Panel 1200 x 600	32.1

Product	Code	Description	Weight (kg)
	123012	<p>450 mm wide panels are available in lengths of 2700 mm, 1500 mm and 1200 mm.</p> <p>450 mm wide panels have 8 No. 25 mm Ø tie holes to accommodate the Dywidag tie system.</p> <p>Panels are fitted with 15 mm WISA-Form plywood facing.</p> <p>Tifa-Lite Panel 2700 x 450</p>	59.4
	123008	<p>Tifa-Lite Panel 1500 x 450</p>	32.5
	123003	<p>Tifa-Lite Panel 1200 x 450</p>	26.9

Product	Code	Description	Weight (kg)
 <p>300</p> <p>123</p> <p>40 (Tie hole spacing)</p> <p>830</p> <p>670</p> <p>2700</p> <p>830</p> <p>330</p> <p>Tie holes</p> <p>Panel stiffeners at 300 mm spacing</p> <p>16 mm Ø attachment pins</p>	123011	<p>300 mm wide panels are available in lengths of 2700 mm, 1500 mm and 1200 mm.</p> <p>300 mm wide panels have 8 No. 25 mm Ø tie holes to accommodate the Dywidag tie system.</p> <p>Panels are fitted with 15 mm WISA-Form plywood facing.</p> <p>Tifa-Lite Panel 2700 x 300</p>	49.6
 <p>300</p> <p>123</p> <p>40 (Tie hole spacing)</p> <p>295</p> <p>830</p> <p>1500</p> <p>295</p> <p>40</p> <p>16 mm Ø attachment pins</p> <p>Panel stiffeners at 300 mm spacing</p> <p>Tie holes</p>	123007	Tifa-Lite Panel 1500 x 300	26.9
 <p>300</p> <p>123</p> <p>40 (Tie hole spacing)</p> <p>295</p> <p>530</p> <p>1200</p> <p>295</p> <p>40</p> <p>16 mm Ø attachment pins</p> <p>Panel stiffeners at 300 mm spacing</p> <p>Tie holes</p>	123002	Tifa-Lite Panel 1200 x 300	22.2

Product	Code	Description	Weight (kg)
 <p>16 mm Ø attachment pins</p> <p>Tie holes</p> <p>Panel stiffeners at 300 mm spacing. Double stiffeners over each tie hole</p>	123015	<p>150 mm wide panels are available in lengths of 2700 mm, 1500 mm and 1200 mm.</p> <p>2700 mm x 150 mm wide panels have 6 No. 25 mm Ø tie holes to accommodate the Dywidag tie system.</p> <p>Panels are fitted with 15 mm WISA-Form plywood facing.</p> <p>Tifa-Lite Panel 2700 x 150</p>	36.1
 <p>16 mm Ø attachment pins</p> <p>Panel stiffeners at 300 mm spacing. Double stiffeners over each tie hole</p> <p>Tie holes</p>	123016	<p>1500 mm x 150 mm wide panels have 4 No. 25 mm Ø tie holes to accommodate the Dywidag tie system.</p> <p>Tifa-Lite Panel 1500 x 150</p>	19.6
 <p>16 mm Ø attachment pins</p> <p>Panel stiffeners at 300 mm spacing. Double stiffeners over each tie hole</p> <p>Tie holes</p>	123001	<p>1200 mm x 150 mm wide panels have 4 No. 25 mm Ø tie holes to accommodate the Dywidag tie system.</p> <p>Tifa-Lite Panel 1200 x 150</p>	16.1

Product	Code	Description	Weight (kg)
		Tifa External Corner Panels are used to connect two Tifa-Lite Panels together at 90° to each other at the external corners of a concrete wall or column.	
	123118	Tifa External Corner Panel 2700	41.0
	123117	Tifa External Corner Panel 1500	25.0
	123116	Tifa External Corner Panel 1200	22.0
	123115	Tifa External Corner Panel 900	10.5
		Tifa Internal Corner Panels are used to connect two Tifa-Lite Panels together at 90° to each other at the internal corners of a concrete wall.	
	123122	Tifa Internal Corner Panel 2700 x 300 x 300	130.0
	123120	1500 x 300 x 300	91.0
	123120	1200 x 300 x 300	65.0
	123119	900 x 300 x 300	39.0
		Tifa Hinged Splay Panels are used to connect two Tifa-Lite Panels together at any angle from 70° to 250°, both on the internal and external faces of a concrete wall. Tifa Hinged Splay Panels do not have tie holes.	
	123126	Tifa Hinged Splay Panel 2700 x 300 x 300	127.0
	123125	1500 x 300 x 300	80.0
	123124	1200 x 300 x 300	61.8
	123123	900 x 300 x 300	44.9

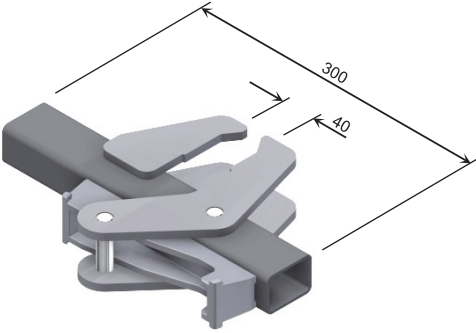
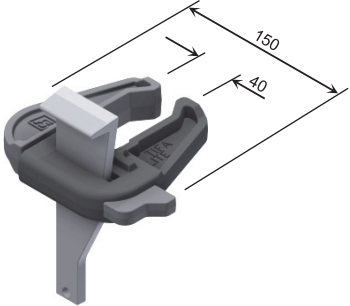
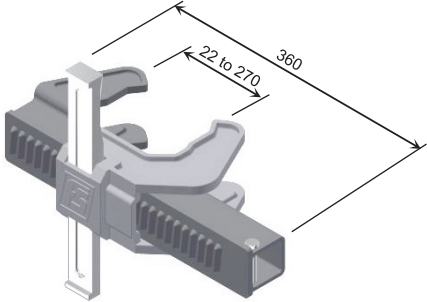
Product	Code	Description	Weight (kg)
	123208	Tifa Stripping Bar 2750	23.0
	123207	Tifa Stripping Bar 2450	20.8
	123206	Tifa Stripping Bar 1550	13.7
	123205	Tifa Stripping Bar 1250	11.4
	123204	Tifa Stripping Bar 950	9.1
	123203	Tifa Twin Profile Infill 2700	25.0
	123202	Tifa Twin Profile Infill 1500	13.8
	123201	Tifa Twin Profile Infill 1200	11.0
	123200	Tifa Twin Profile Infill 900	8.0

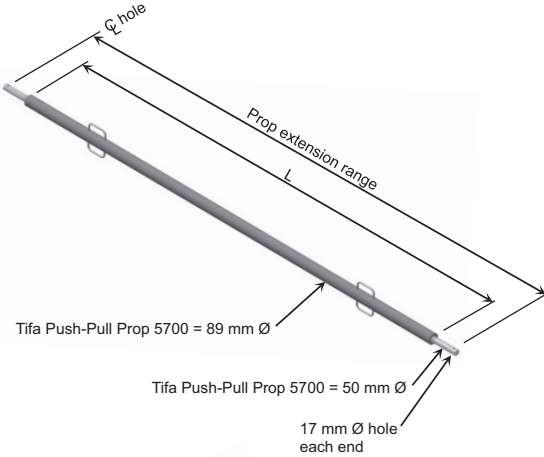
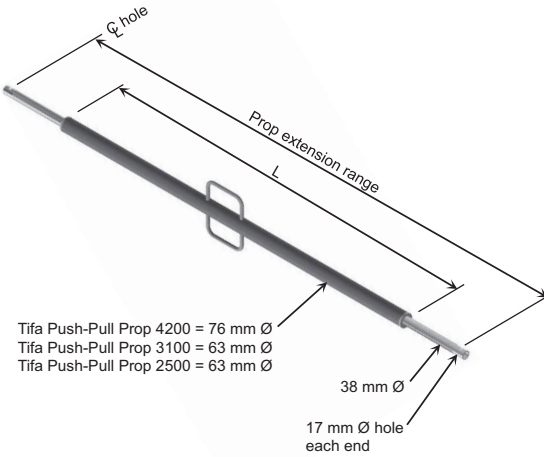
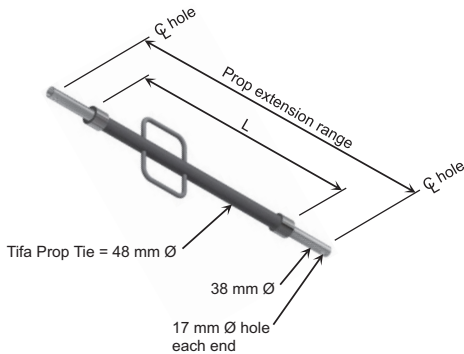
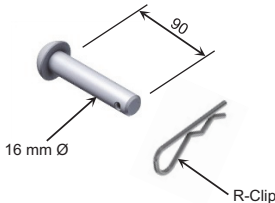
The 8 mm thick Tifa Stripping Bars, with a thickened end hammering plate, are used to facilitate the stripping of Tifa-Lite Panels in confined areas.

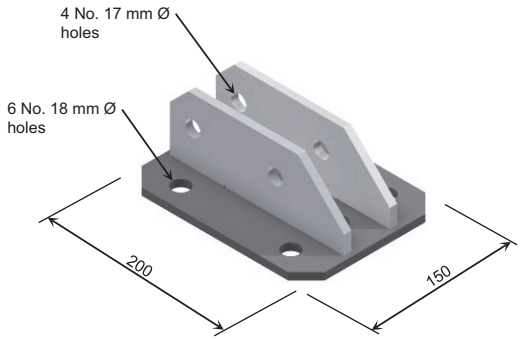
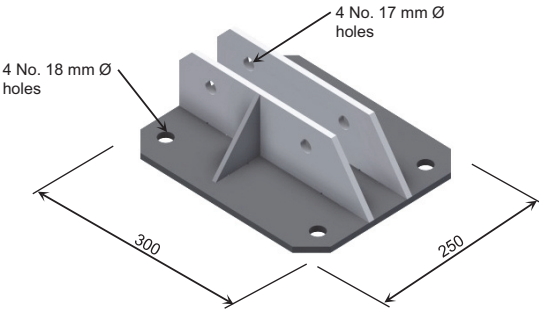
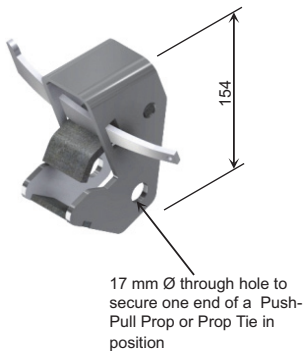
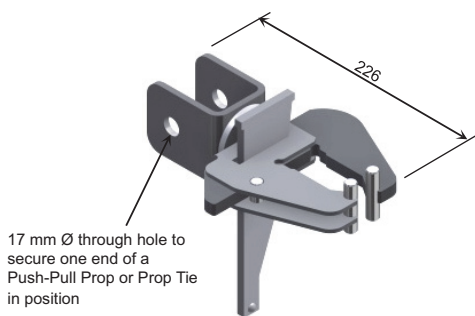
Tifa Stripping Bar Extensions, without the end hammering plate, are used to extend the length of the Stripping Bars within the Panels.

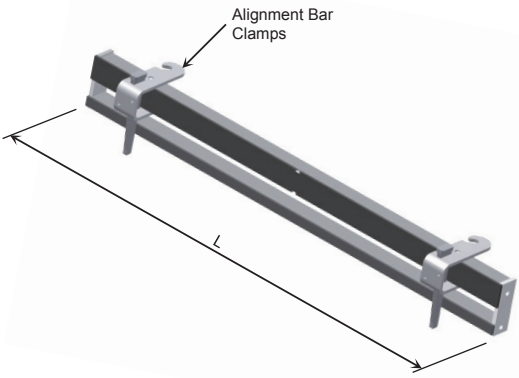
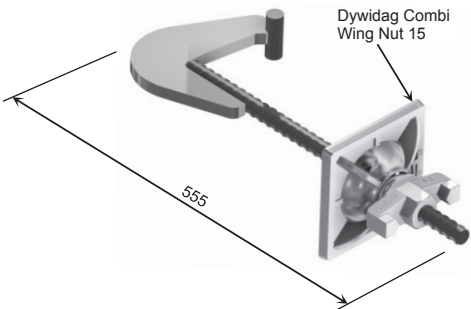
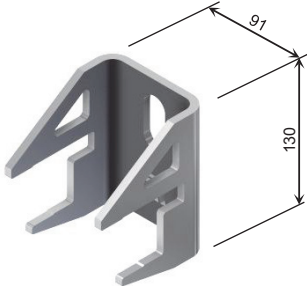
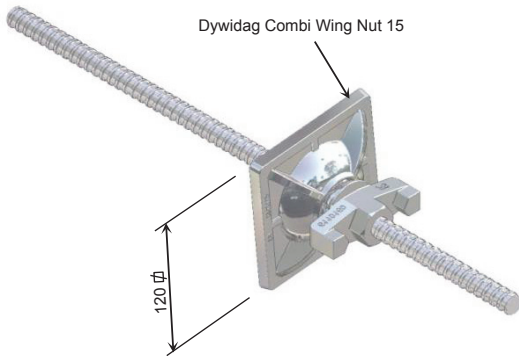
Tifa Twin Profile Infills are used to support a plywood infill between two Tifa-Lite Panels.

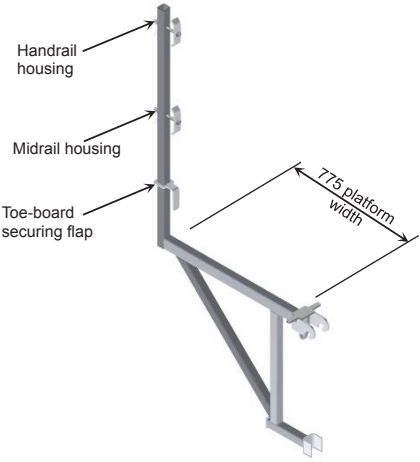
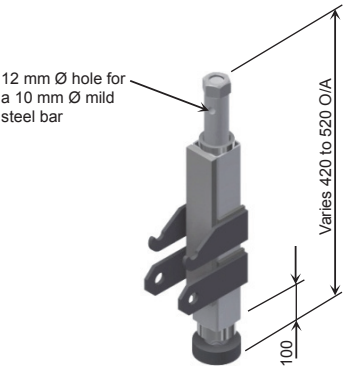
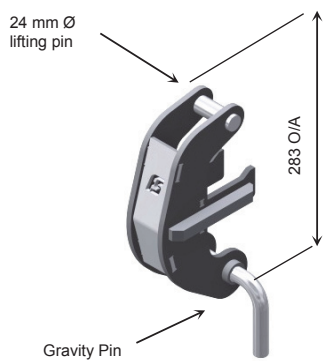
The plywood is secured in position using 5 mm Ø x 20 mm long self tapping screws.

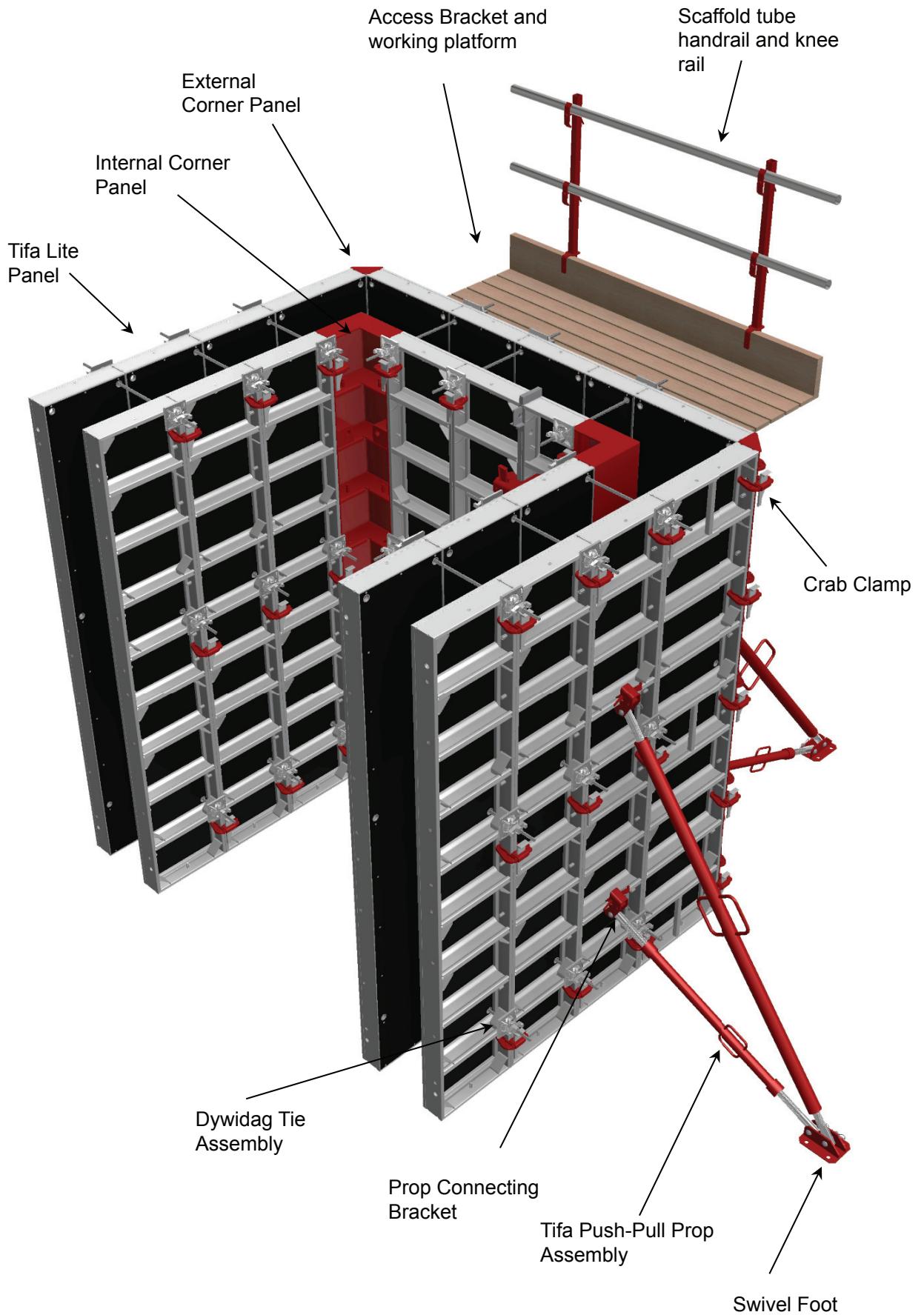
Product	Code	Description	Weight (kg)
 <p>Technical drawing of the Tifa-Lite Fixed Clamp showing dimensions: 300 (length) and 40 (width).</p>	123060	<p>Tifa-Lite Fixed Clamps are used to connect two Tifa-Lite Panels side by side.</p> <p>When the Clamps are positioned along the Panel's stiffeners, the Clamps align the Panels which eliminates the need for walers.</p> <p>Tifa-Lite Fixed Clamp</p>	4.4
 <p>Technical drawing of the Tifa-Lite Crab Clamp showing dimensions: 150 (length) and 40 (width).</p>	123062	<p>Tifa-Lite Crab Clamps are used to connect two Tifa-Lite Panels side by side and may be connected anywhere along the length or width of the Panel's periphery.</p> <p>Tifa-Lite Crab Clamp</p>	1.7
 <p>Technical drawing of the Tifa-Lite Universal Clamp showing dimensions: 360 (length) and 22 to 270 (width).</p>	123216	<p>Tifa/Tifa-Lite Universal Clamps are used to connect Tifa and Tifa-Lite Panels together and where Stripping Bars or timber in-fill is required. They are also used to clamp External Corner Panels, Internal Corner Panels and Hinged Splay Panels in position and may substitute any other type of Tifa Clamp.</p> <p>Universal Clamps may be connected anywhere along the length or width of the Panel.</p> <p>Tifa-Lite Universal Clamp</p>	7.1

Product	Code	Description	Weight (kg)
 <p>Tifa Push-Pull Prop 5700 = 89 mm Ø</p> <p>Tifa Push-Pull Prop 5700 = 50 mm Ø</p> <p>17 mm Ø hole each end</p>	123228	<p>The Tifa Push-Pull Prop 5700 is usually used in conjunction with the Tifa Push-Pull Prop 2500 to plumb the Tifa-Lite system.</p> <p>Tifa Push-Pull Prop 5700 (Length = 4380)</p>	63.3
 <p>Tifa Push-Pull Prop 4200 = 76 mm Ø</p> <p>Tifa Push-Pull Prop 3100 = 63 mm Ø</p> <p>Tifa Push-Pull Prop 2500 = 63 mm Ø</p> <p>38 mm Ø</p> <p>17 mm Ø hole each end</p>	123227	<p>Tifa Push-Pull Props range in length from 4200 to 2500 mm are usually used in conjunction with Tifa Prop Ties to plumb the Tifa-Lite system.</p> <p>Tifa Push-Pull Prop 4200 (Length = 3596)</p>	23.0
	123226	Tifa Push-Pull Prop 3100 (Length = 2480)	16.6
	123225	Tifa Push-Pull Prop 2500 (Length = 1835)	14.0
 <p>Tifa Prop Tie = 48 mm Ø</p> <p>38 mm Ø</p> <p>17 mm Ø hole each end</p>	123224	<p>Tifa Prop Ties are used to prop the lower portion of the Tifa-Lite Panels.</p> <p>Tifa Prop Tie (Length = 825)</p>	8.4
 <p>16 mm Ø</p> <p>90</p> <p>R-Clip</p>	123231	<p>The Tifa Connecting Pins 16 x 90 and R-Clips are used to secure the Push-Pull Props to the prop Connecting Bracket.</p> <p>Tifa Connecting Pin 16 x 90</p>	0.2
	123232	Tifa R-Clip	0.1

Product	Code	Description	Weight (kg)
 <p>4 No. 17 mm Ø holes</p> <p>6 No. 18 mm Ø holes</p> <p>200</p> <p>150</p>	123229	<p>The Tifa Swivel Foot 200 x 150 is used to secure the bottom end of a 4200, 3100 or 2500 mm long Tifa Push-Pull Prop and a Tifa Prop Tie in position.</p> <p>Tifa Swivel Foot 200 x 150</p>	3.4
 <p>4 No. 17 mm Ø holes</p> <p>4 No. 18 mm Ø holes</p> <p>300</p> <p>250</p>	123230	<p>The Tifa Swivel Foot 300 x 250 is used to secure the bottom end of a Tifa Push-Pull Prop 5700 and a Tifa Push-Pull Prop 2500 in position.</p> <p>Tifa Swivel Foot 300 x 250</p>	7.6
 <p>154</p> <p>17 mm Ø through hole to secure one end of a Push-Pull Prop or Prop Tie in position</p>	123064	<p>Tifa-Lite Prop Connecting Brackets (Stiffener Type) are secured to the stiffeners of any Tifa-Lite Panel.</p> <p>These Brackets are used to attach Tifa Push-Pull Props ranging in length from 4200 to 2500 mm and Tifa Prop Ties to the Tifa-Lite Panels.</p> <p>The Push-Pull Props are connected to the Brackets using 16 x 90 Tifa Connecting Pins and R-Clips.</p> <p>Tifa-Lite Prop Connecting Bracket (Stiffener Type)</p>	1.3
 <p>226</p> <p>17 mm Ø through hole to secure one end of a Push-Pull Prop or Prop Tie in position</p>	123065	<p>Tifa-Lite Prop Connecting Brackets (Periphery Type) are secured to the Panel's periphery at any Panel joint.</p> <p>These Brackets are used to attach Tifa Push-Pull Props and Tifa Prop Ties to the Tifa-Lite Panels.</p> <p>The Push-Pull Props are connected to the Brackets using 16 x 90 Tifa Connecting Pins and R-Clips.</p> <p>Tifa-Lite Prop Connecting Bracket (Periphery Type)</p>	2.9

Product	Code	Description	Weight (kg)
 <p>Alignment Bar Clamps</p> <p>L</p>	123210 123209 123211	<p>Tifa Alignment Bars are available in 2 lengths, 1220 mm and 920 mm lengths.</p> <p>They are used to stiffen the Panel joints when lifting and rotating gang-formed panels from the horizontal position to the vertical position.</p> <p>The Tifa Alignment Bar Clamps may be removed when necessary.</p> <p>Tifa Alignment Bar 1220</p> <p>Tifa Alignment Bar 920</p> <p>Tifa Alignment Bar Clamp</p>	15.3 11.5 1.9
 <p>Dywidag Combi Wing Nut 15</p> <p>555</p>	123206	<p>Tifa Stop-end Hooks are used to secure walers in position at the stop-end of a concrete wall.</p> <p>The Dywidag Combi Wing Nut 15 is used in conjunction with the Stop-end Hook.</p> <p>Tifa Stop-end Hook</p>	1.6
 <p>91</p> <p>130</p>	123223	<p>Tifa Top-Tie Brackets fit onto the periphery of Tifa-Lite Panels, to keep ties in place around the edges of the Panels.</p> <p>Tifa Top-Tie Bracket</p>	3.0
 <p>Dywidag Combi Wing Nut 15</p> <p>120</p>	151010 151022	<p>Dywidag Bar 15 mm (available in 6.0 m lengths)</p> <p>Dywidag Combi Wing Nut 15</p> <p>Note: PVC Ferrule Tube (22 ID & 25 OD) and PVC Ferrule Tube Cone (22 OD) are used in conjunction with the Dywidag Bar.</p>	1.4 1.2

Product	Code	Description	Weight (kg)
	123063	<p>Tifa-Lite Access Brackets are attached to the Tifa-Lite Panels to support access platforms, toeboards and guardrails at the required working height.</p> <p>Tifa-Lite Access Bracket</p>	14.1
	123071	<p>Tifa-Lite Levelling Jacks are secured to the attachment pins of the Tifa-Lite Panels in order to level the top of a gang-formed unit.</p> <p>They are secured to the Panels using a 16 x 90 Tifa Connecting Pin and R-Clip.</p> <p>Up to 100 mm of adjustment is achieved by turning the M24 (36 mm A/F) nut located at the top of the Levelling Jack.</p> <p>Tifa-Lite Levelling Jack</p>	9.0
	123070	<p>Tifa-Lite Lifting Clamps are secured to the Tifa-Lite Panel by inserting the Gravity Pin through the 25 mm Ø holes in the Panel's periphery and rotating downwards to lock the Pin in position.</p> <p>Tifa-Lite Lifting Clamp</p>	3.3



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