

# **form-scaff**



**columns**



**Product Catalogue 2014**



Form-Scaff is South Africa's leading supplier of formwork, falsework and scaffolding to the construction and civil engineering industries. Form-Scaff not only manufactures, hires and sells world-class products, but also provides the design skills, technical advice and support that comes with having 50 years experience and more than 30 branches locally and internationally.

This indigenous expertise is complemented by the international depth and breadth of its holding company, Waco International, a leading global commercial and industrial service business focusing on the manufacturing, rental and sale of formwork, falsework and scaffolding equipment as well as the burgeoning re-locatable and modular buildings industry. Waco International operates in Africa, the UK, Australia, New Zealand and Chile.

Form-Scaff is a division of Waco Africa (Pty) Ltd, a joint venture company owned by Waco International and respected local black empowerment company, Kagiso.

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The customer must ensure that 'good practice' is adopted on site by competent persons and that the products shown in this catalogue are erected, used and stripped in accordance with the relevant Codes of Practice and the OHS Act and Regulations 85 of 1993. This catalogue does not contain any design detail but lists and depicts the items available under this product range. The responsibility for design is the responsibility of the customer.

**Note:** The colours used in this document are for illustrative purposes only and may differ on actual products

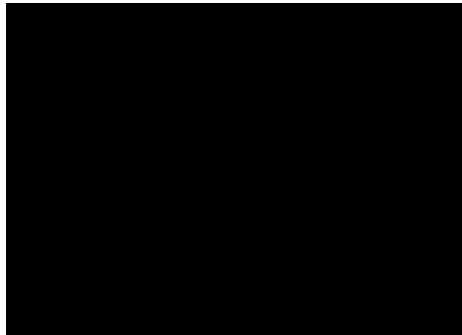
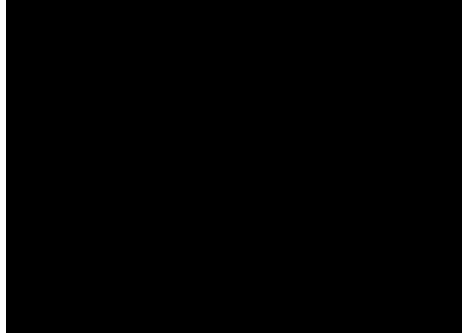
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# columns



## Columns

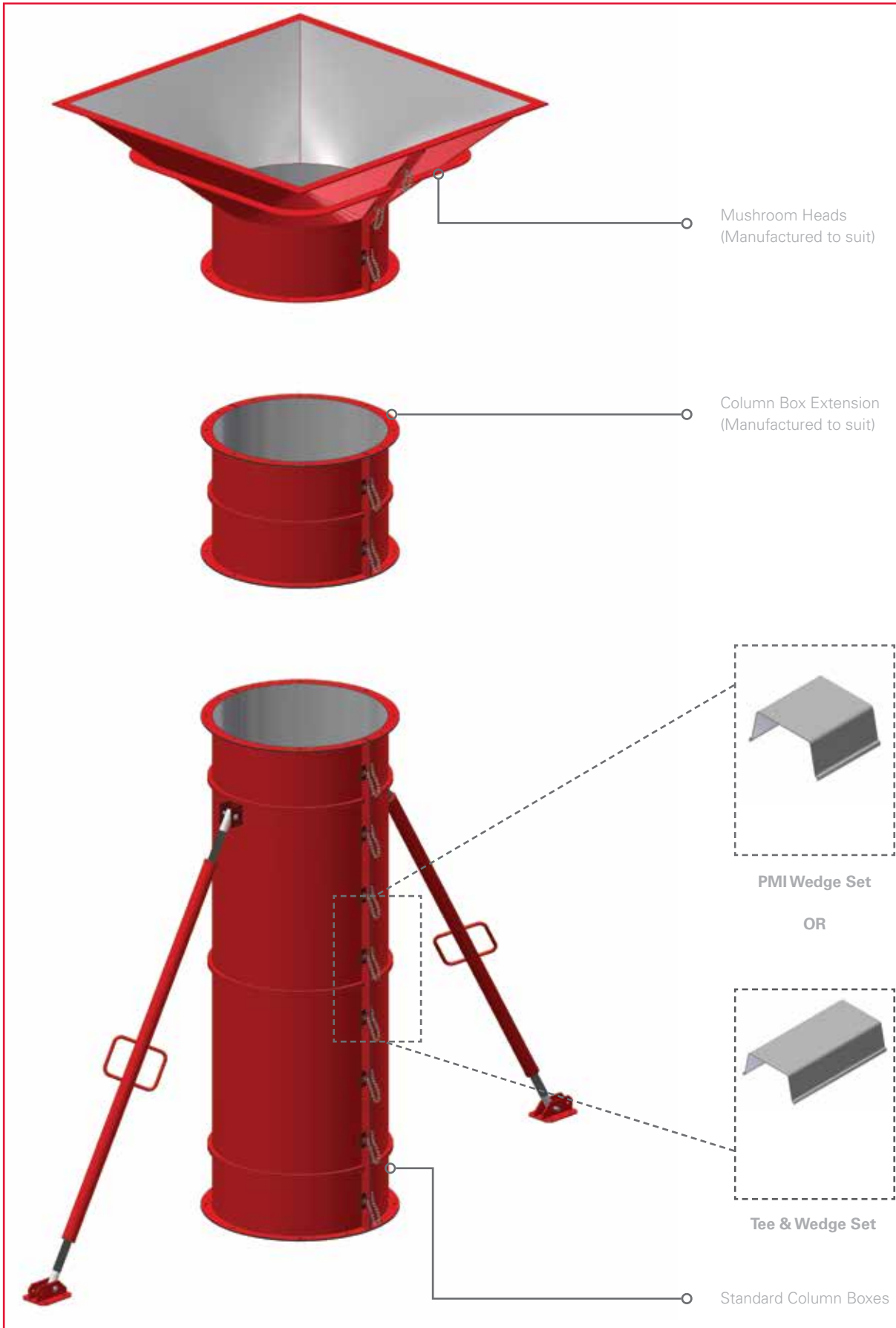
Form-Scaff has been manufacturing and supplying various column box systems to contractors for the last 50 years. The systems have proven to be versatile and produce high class concrete surface finishes. Form-Scaff is able to produce any shape column boxes to suit the aesthetic and structural requirements of engineers & architects.

### System Features

- Quick and easy to assemble and strike.
- Easy to plumb.
- Components are lightweight and easy to manhandle.
- A large variety of shapes & sizes are available.
- Walers and soldiers are not required due to the robust built in stiffeners.
- The column boxes may be extended horizontally and or vertically to suit the customers requirements.
- Ties are only required when two or more column box panels are used side by side.
- The column boxes conform to all South African standards and regulations



## General Assembly



# Column Boxes

## Circular Column Boxes

Circular Column Boxes are used to form circular concrete columns and the bull-nose ends of concrete columns and walls.

CODE	DESCRIPTION	MASS(kg)
5705033	COLUMN BOX CIRCULAR 3000 x 600	202.5
5705034	COLUMN BOX CIRCULAR 3000 x 550	189.0
5705035	COLUMN BOX CIRCULAR 3000 x 500	175.4
5705036	COLUMN BOX CIRCULAR 3000 x 450	147.6
5705037	COLUMN BOX CIRCULAR 3000 x 400	134.6
5705038	COLUMN BOX CIRCULAR 3000 x 350	121.5
5705039	COLUMN BOX CIRCULAR 3000 x 300	108.5
5705157	COLUMN BOX CIRCULAR 3000 x 230	88.6

\* Other diameters and lengths are also available. Please contact your nearest branch for more information.



## Rectangular Column Boxes

Rectangular Column Boxes are used to form square or rectangular shaped concrete columns.

CODE	DESCRIPTION	MASS(kg)
5505027	COLUMN BOX A TYPE MAIN SIDE 3000 x 600	105.0
5510027	COLUMN BOX A TYPE SMALL SIDE 3000 x 600	85.1
5505029	COLUMN BOX A TYPE MAIN SIDE 3000 x 450	74.7
5510029	COLUMN BOX A TYPE SMALL SIDE 3000 x 450	59.0
5505031	COLUMN BOX A TYPE MAIN SIDE 3000 x 300	60.1
5510031	COLUMN BOX A TYPE SMALL SIDE 3000 x 300	44.4
5505032	COLUMN BOX A TYPE MAIN SIDE 3000 x 225	52.8
5510032	COLUMN BOX A TYPE SMALL SIDE 3000 x 225	37.1
5605017	COLUMN BOX C TYPE 3000 x 600	101.7
5605019	COLUMN BOX C TYPE 3000 x 450	83.4
5605022	COLUMN BOX C TYPE 3000 x 300	60.9
5605024	COLUMN BOX C TYPE 3000 x 230	53.2

\* Other widths and lengths are also available. Please contact your nearest branch for more information.  
Form-Scaff's Econo-Form Panels can also be used as column boxes when used in conjunction with the Column Clamps shown on pages 5 & 12. For details on Econo-Form, please refer to the Form-Scaff Econo-Form Product Catalogue.

A Type Column Boxes are only manufactured for sale.



Column Box A Type Main Side



Column Box A Type Small Side



Column Box C Type

### Plastic Buttons

Plastic Buttons are used to plug any unused tie holes.

CODE	DESCRIPTION	MASS(kg)
5127001	ADJUSTABLE COLUMN BOX PLASTIC BUTTON	0.02
2960811	BUTTON 18MM DIA	0.01



### Fillets

Fillets are used to chamfer the sharp corners of concrete columns.

CODE	DESCRIPTION	MASS(kg)
5520302	TRIANGULAR PLASTIC FILLET 25 x 25 (PER M)	0.2
5520305	TRIANGULAR STEEL FILLET 25 x 25 (HOLLOW)	1.0
5520307	TRIANGULAR PLASTIC FILLET 20 x 20 PUNCHED	0.3



### PMI Wedge Sets

PMI Wedge Sets are used to join the edges of Column Boxes together.

CODE	DESCRIPTION	MASS(kg)
5595998	PMI WEDGE ASSEMBLY (WITH CHAIN)	0.5



### Wedge Sets

Wedge Sets are used to join the edges of Column Boxes together.

CODE	DESCRIPTION	MASS(kg)
2715555	KEY (HD)	0.1
2715556	WEDGE CURVED (HD)	0.1
2715552	WEDGE BENT CLIP	0.1
2715553	WEDGE ONLY (STRAIGHT)	0.1



### Column Clamp

Column Clamps are used as substitute walers when Econo-Form and Timber Column Boxes are used.

CODE	DESCRIPTION	MASS(kg)
5595996	COLUMN CLAMP ARM ONLY NO. 3 (WITH WEDGE)	7.0
5595995	COLUMN CLAMP ARM ONLY NO. 2 (WITH WEDGE)	4.4
5595994	COLUMN CLAMP ARM ONLY NO. 1 (WITH WEDGE)	3.6
5595997	COLUMN CLAMP WEDGE	0.3



# Propping

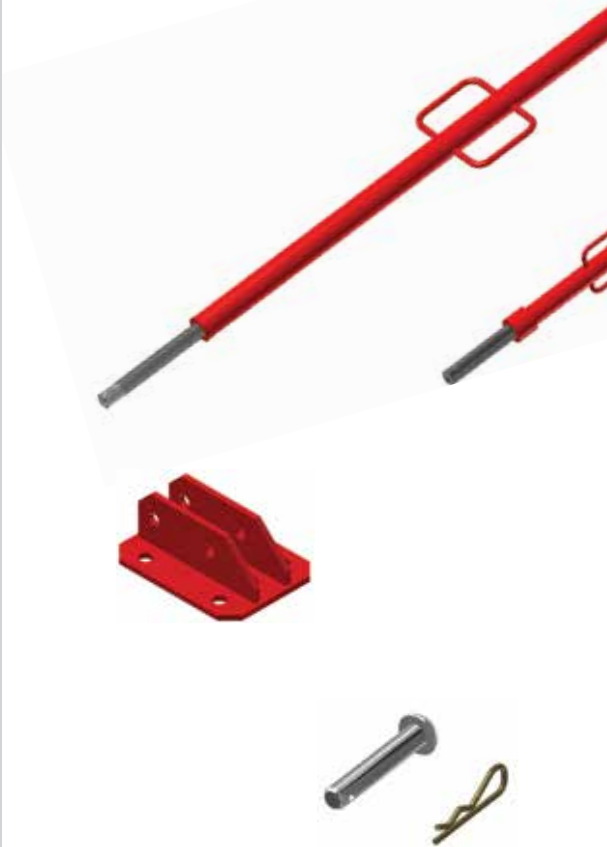
## Push-Pull Props

Tifa Push-Pull Props and Tifa Prop Ties are used to plumb the column boxes.

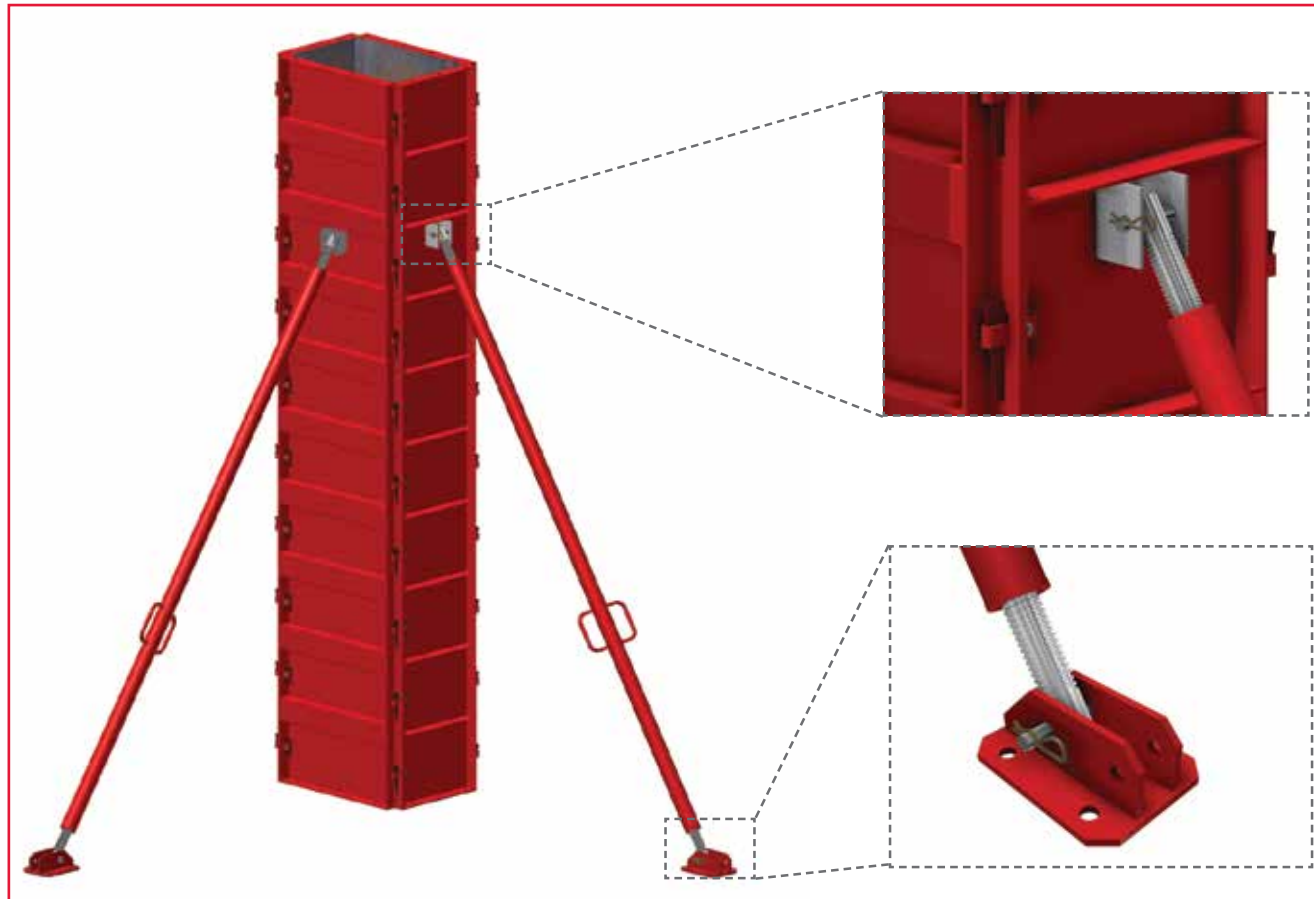
The Tifa Swivel Foot is used at the base of the Push-Pull Props and Prop Ties to connect the ends of the Props together.

Tifa Connecting Pins 16 x 90 complete with R-Clips are used to connect a Prop to the Column Box and to the Swivel Foot.

CODE	DESCRIPTION	MASS(kg)
5110100	TIFA PROPTIE H/D	8.4
5110022	TIFA PROP 5700 (PUSH-PULL)	63.3
5110201	TIFA PROP 4200 (PUSH-PULL)	23.0
5110024	TIFA PROP 3100 (PUSH-PULL)	16.6
5110007	TIFA PROP 2500 (PUSH-PULL)	14.0
5110008	TIFA SWIVEL FOOT 200 x 150	3.4
5110021	TIFA SWIVEL FOOT 300 x 250	7.6
5110090	TIFA CONNECTING PIN	0.2
5110059	R-CLIP	0.01



## Application - Prop Assembly





### Dywidag Tie Bar

Dywidag Ties are recoverable ties used through tie sleeves.

CODE	DESCRIPTION	MASS(kg)
5405077	DYWIDAG BAR 15mm 500	0.7
5405078	DYWIDAG BAR 15mm 1000	1.5
5405079	DYWIDAG BAR 15mm 1500	2.2
5405085	DYWIDAG BAR 15mm 2000	2.9
5405086	DYWIDAG BAR 15mm 2500	3.6
5405087	DYWIDAG BAR 15mm 3000	4.3
5405088	DYWIDAG BAR 15mm 3500	5.1
5405089	DYWIDAG BAR 15mm 4000	5.8
5405092	DYWIDAG BAR 15mm 4500	6.5
5405093	DYWIDAG BAR 15mm 5000	7.2
5405094	DYWIDAG BAR 15mm 5500	8.0
5405095	DYWIDAG BAR 15mm 6000	8.7



### Dywidag Nuts

The Dywidag Combi Wing Nut, Wing Nut & Washer or Diwidag Nut and Washer combinations can be used with the 15mm Dywidag Bar.

CODE	DESCRIPTION	MASS(kg)
5110032	TIFA WING NUT	1.8
5110035	WASHER 100 x 100 x 6	0.5
5110150	DYWIDAG COMBI WING NUT	1.1
5405076	DYWIDAG NUT 15 DIA	0.2



### Form-Tie Bar

Form-Ties are recoverable ties used through tie sleeves.

CODE	DESCRIPTION	MASS(kg)
5405070	FORM-TIE BAR F20 (PER M)	2.5
5405061	FORM-TIE BAR F16 (PER M)	1.6
5405072	FORM-TIE BAR F12 (PER M)	0.8



### Form-Tie Nut

Form-Tie Nuts are used each end of the Form-Tie.

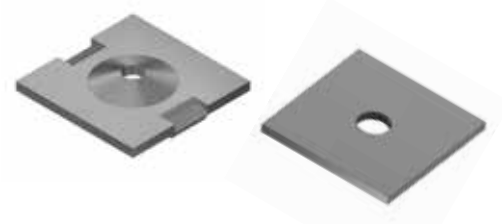
CODE	DESCRIPTION	MASS(kg)
5405071	FORM-TIE NUT F20	0.5
5405062	FORM-TIE NUT F16	0.2
5405073	FORM-TIE NUT F12	0.1



### Form-Tie Pad & Washers

The Form-Tie Pad acts as a washer between the Form-Tie Nut and the Panel.

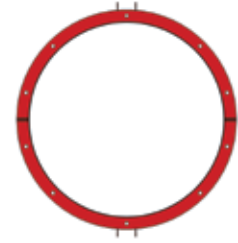
CODE	DESCRIPTION	MASS(kg)
5855602	80 x 80 x 6 WASHER	0.3
5405064	FORM-TIE PAD F8 (FOR F16TIE)	1.2



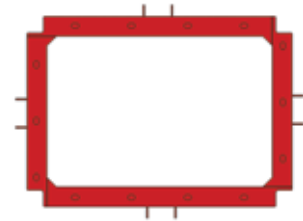
## Application - Column Types



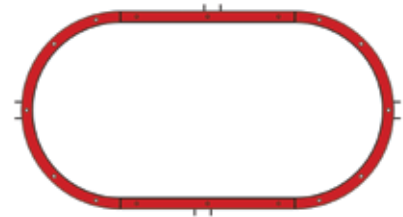
Circular Column Box



Rectangular Column Box



Bull-Nose Column Box



## Adjustable Column Panels

Adjustable Column Panels are used to form the vertical sides of concrete columns and provide a range of column sizes from 150mm to 600mm

CODE	DESCRIPTION	MASS(kg)
5127000	ADJUSTABLE COLUMN BOX PANEL 2700	1073
5127010	ADJUSTABLE COLUMN BOX PANEL 1200	56.0



## Working Platform

The Working Platform with foldable legs is attached onto the top of the Adjustable Column Panels.

CODE	DESCRIPTION	MASS(kg)
5127003	ADJUSTABLE COLUMN BOX PLATFORM	30.3



## Guardrail

The captive Guardrail may be is secured on three sides of the Working Platform.

CODE	DESCRIPTION	MASS(kg)
5125064	ADJUSTABLE COLUMN BOX GUARDRAIL	6.4



## Bolt Sets

The Bolt Sets are used to connect two Adjustable Column Panels together to form wider or taller Column Boxes.

CODE	DESCRIPTION	MASS(kg)
2966049	M20 x 40 BOLT, WASHER & NUT SET	0.1



## Adjustable Column Panel Fillet

Fillets are used to chamfer the sharp corners of concrete columns. The Adjustable Column Box (ACB) fillet simply clips onto the Column Panel

CODE	DESCRIPTION	MASS(kg)
5127004	A.C.B. PLASTIC CORNER FILLET (25 x 25)	0.3
5127001	ADJUSTABLE COLUMN BOX PLASTIC PLUG	0.02



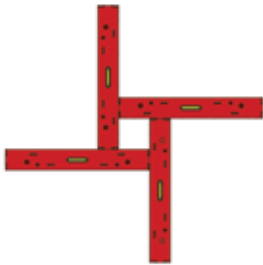
## Application - Adjustable Column Box



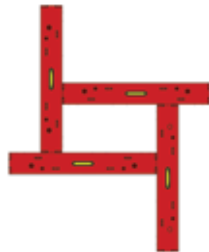
## Application - Sizes

The Standard Size Columns that can be formed with a Single Panel Box are:  
 150mm, 230mm, 300mm, 350mm, 400mm, 450mm, 500mm, 550mm, 600mm.  
 Bigger (wider and/or higher) columns can be formed when bolting panels together.

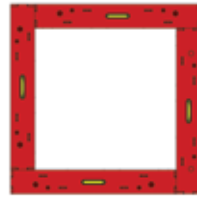
Examples:



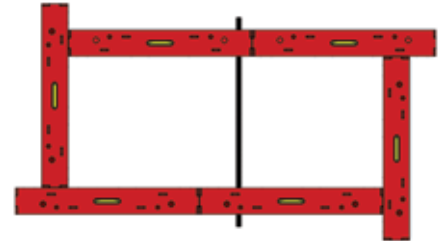
150mm x 150mm



450mm x 230mm

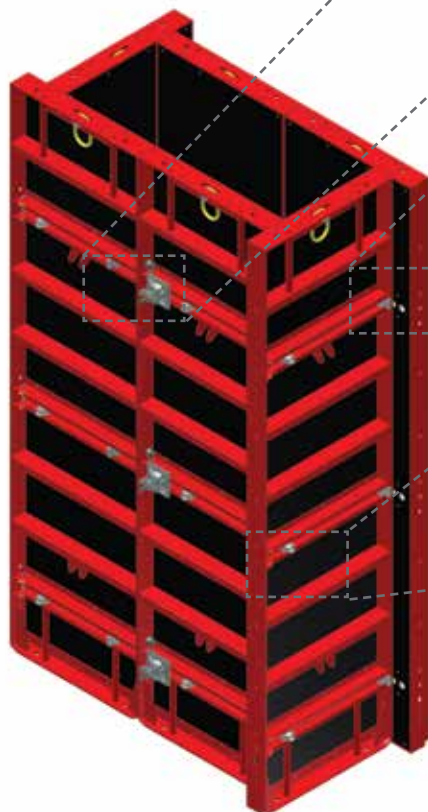


600mm x 600mm



1100mm x 500mm

Typical Examples:



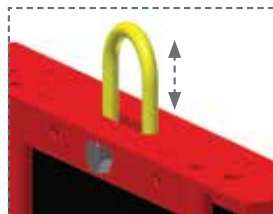
Dywag Tie



Captive T-Bolt



Captive Nut

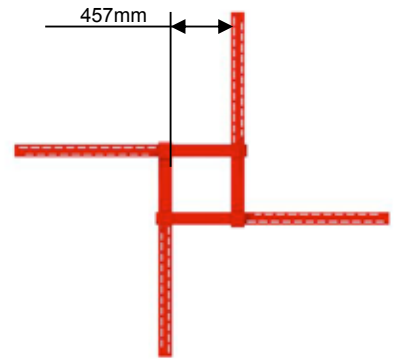
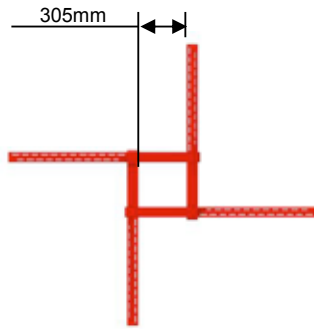
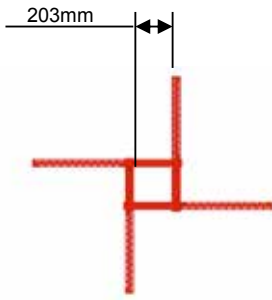


Retractable Lifting Point

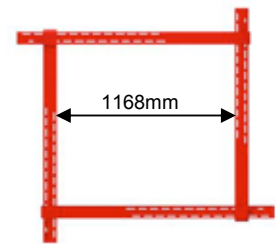
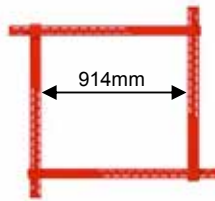
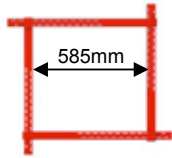




# Application - Column Clamps



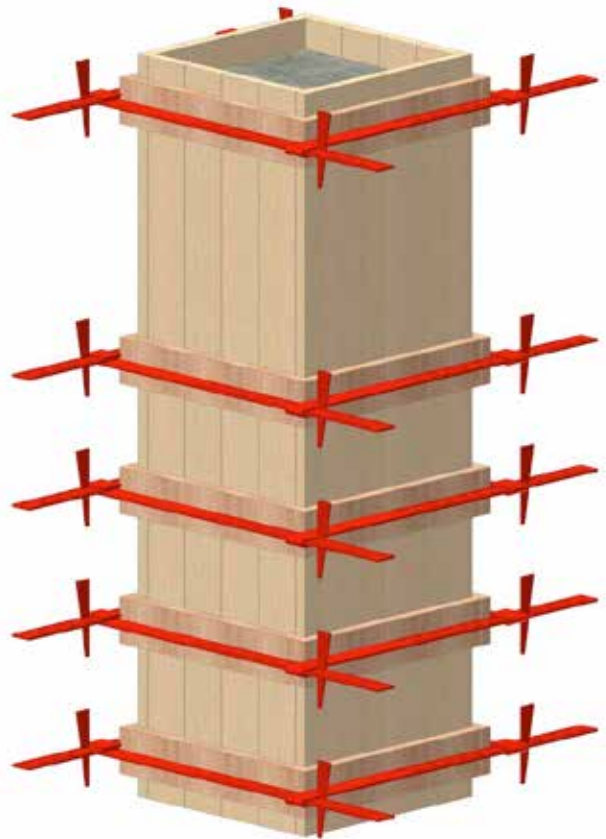
**Min Size**



**Max Size**



**Column Clamps On Econo-Form  
Panel Column Box**



**Column Clamps On Timber Column Box**

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