

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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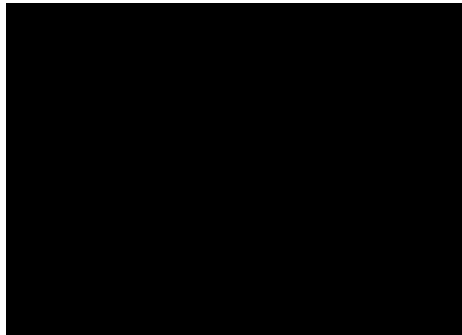
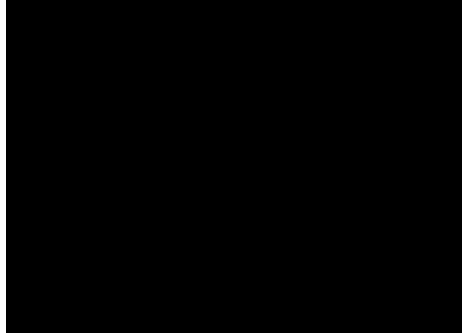
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columns



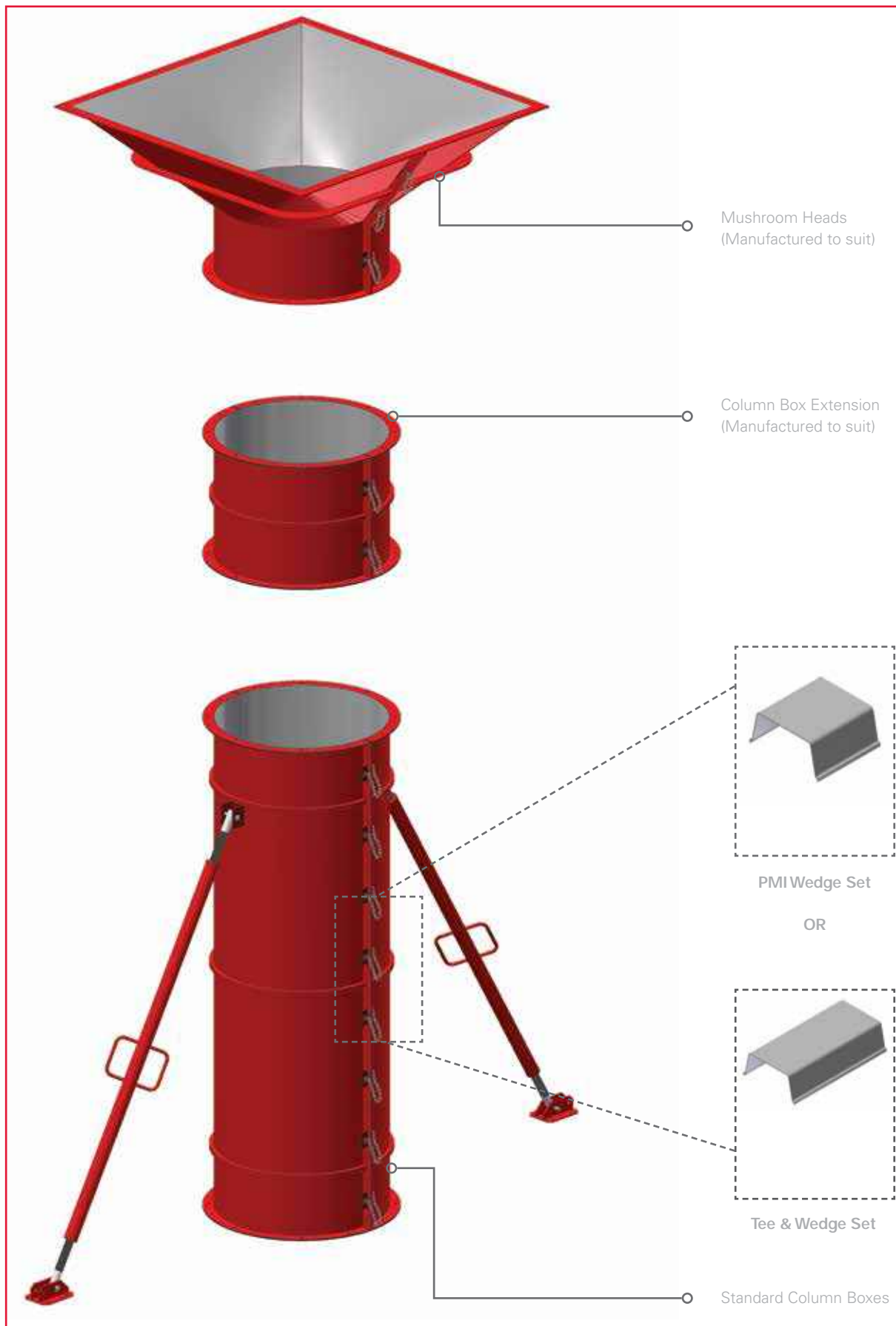
Columns

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

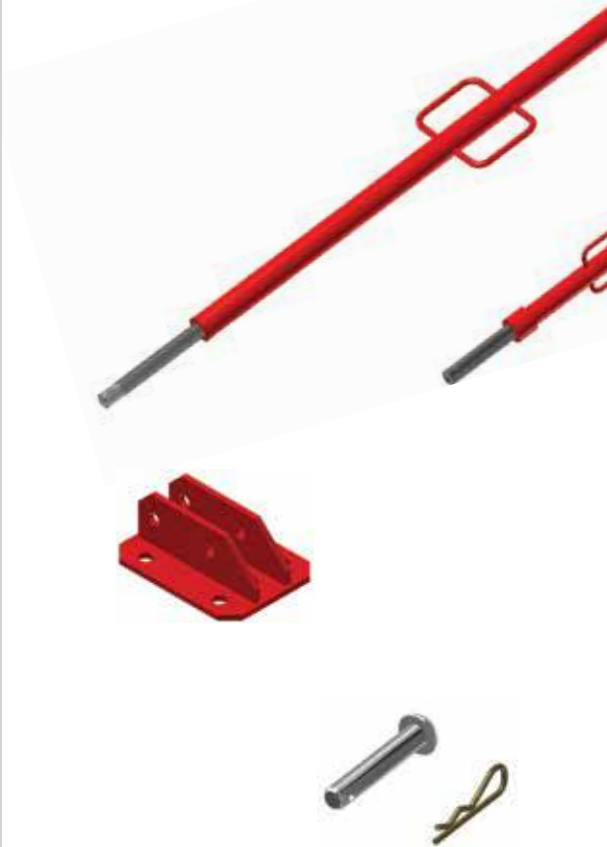
Push-Pull Props

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

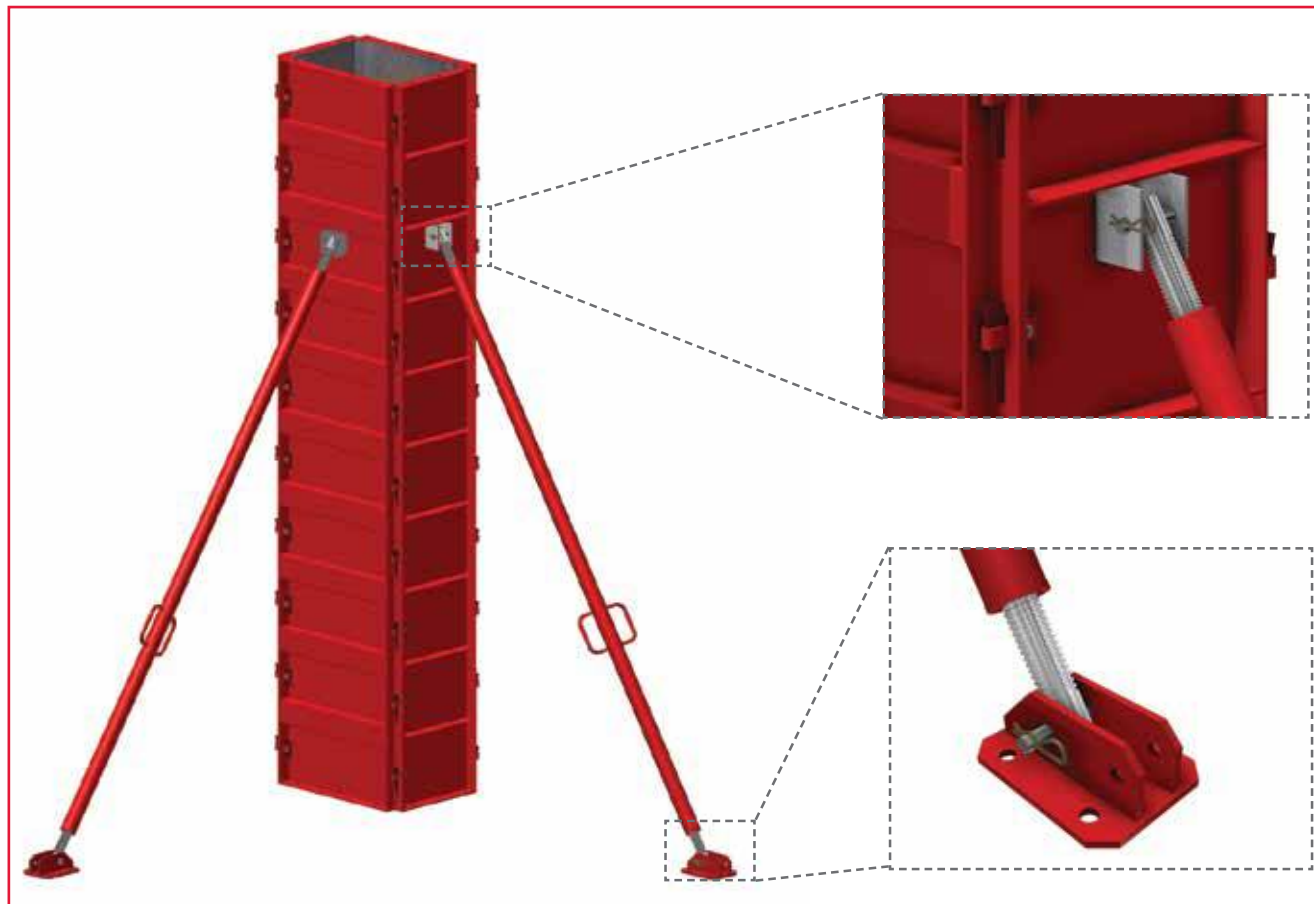
The Tifa Swivel Foot is used at the base of the Push-Pull Props and Prop Ties to connect the ends of the Props together.

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 Dywidag 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.

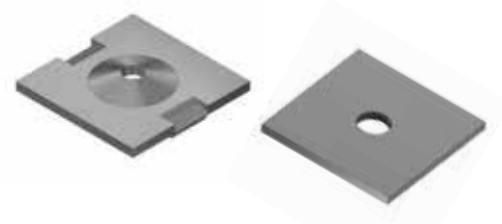
| CODE | DESCRIPTION | MASS(kg) |
|---------|------------------|----------|
| 5405071 | FORM-TIE NUT F20 | 0.5 |
| 5405062 | FORM-TIE NUT F16 | 0.2 |
| 5405073 | FORM-TIE NUT F12 | 0.1 |



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 |



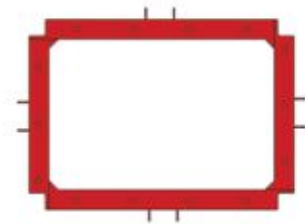
Application - Column Types



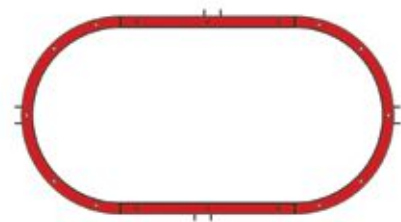
Circular Column Box



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:



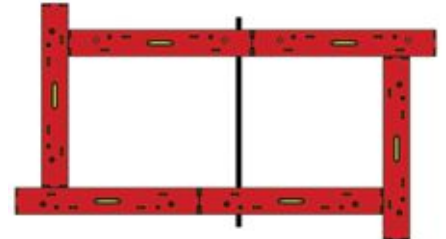
150mm x 150mm



450mm x 230mm

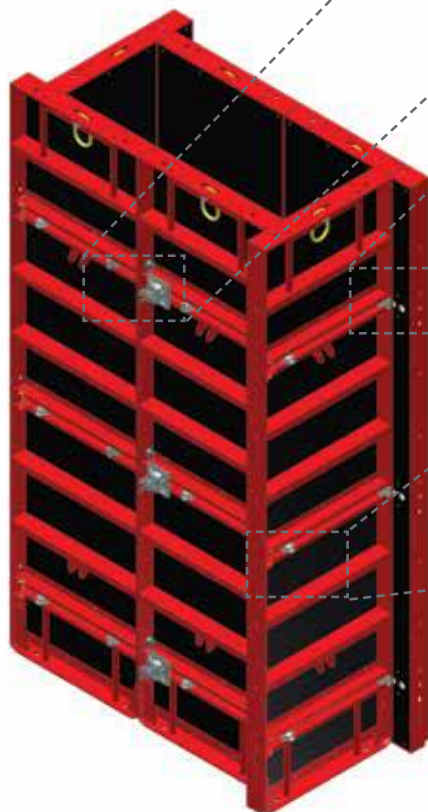


600mm x 600mm



1100mm x 500mm

Typical Examples:



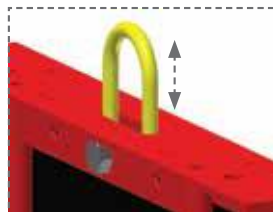
Dywag Tie



Captive T-Bolt



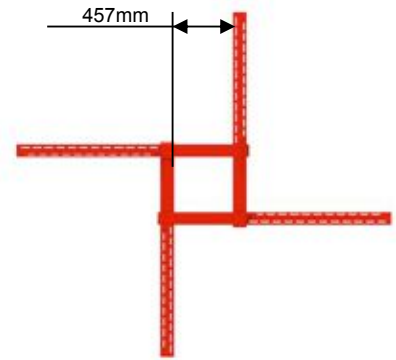
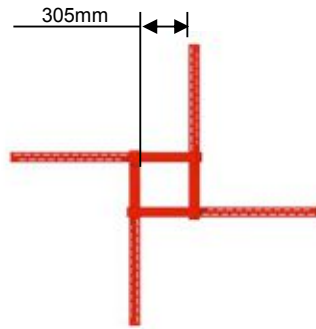
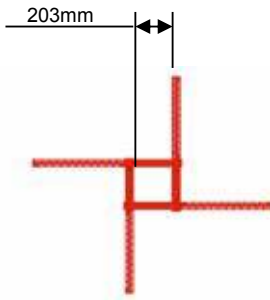
Captive Nut



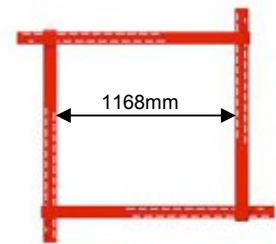
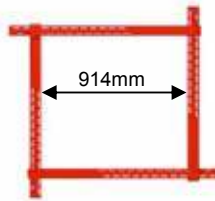
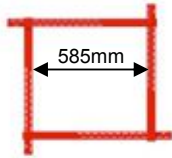
Retractable Lifting Point



Application - Column Clamps



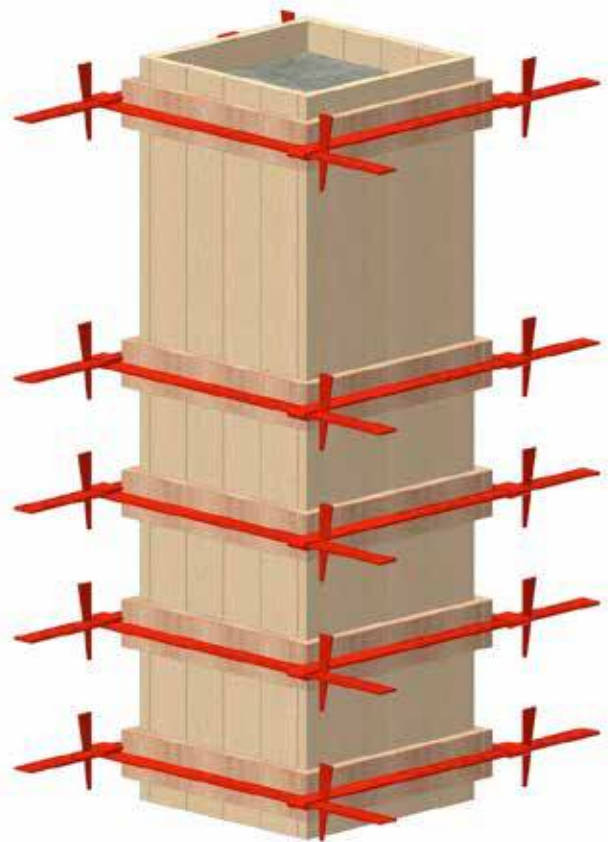
Min Size



Max Size



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



Column Clamps On Timber Column Box

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