



# PRORAILING

## SCANDINAVIA

2021



# INTRODUCTION

## THE STAINLESS STEEL HANDRAIL COMPONENT SYSTEM



Stylish, durable and cost effective stainless steel handrailing component system designed with ease of installation in mind.

The comprehensive range of components allows you to specify and install without the need for fabrication and maximises on-site flexibility for those changes that inevitably arise.

The system enables the most stylish of handrailing and balustrades to be constructed quickly and simply by the contractor. All you have to do is cut, glue or screw to create professional results every time.

Specifiers can be assured that component design and range flexibility mean installation by a competent installer is a straight forward process.

We offer a range of infill solutions using glass with glass clamps, wire rope, round bar and decorative bars. We can also manufacture infill panels incorporating perforated metal, wire mesh and wire rope netting.

Available in Grade 304 and 316 to suit internal and external applications, you can be sure the quality and product care will provide stunning results.

**ALL FITTINGS ARE STAINLESS STEEL WITH 2mm  
WALL THICKNESS UNLESS OTHERWISE STATED.**

**SATIN POLISH FINISH IS 320 GRIT  
& MIRROR FINISH IS 800 GRIT.**



## SPIGOTS



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## SYNERGISED™ DECKING



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## COLOUR GUIDE

The colours in the tables will help you select your products material and finish. These will also be displayed in the page footer throughout the catalogue. Products not colour coded will have their material or finish below the table.



Grade 304  
Stainless steel (Internal)



Zinc



Aluminium



Grade 316  
Stainless steel (External)



Mild Steel



Duplex 2205  
(Ultra marine stainless)



Zamac  
(Zinc aluminium alloy)



Galvanised

## ICONS

Throughout the catalogue there are various icons to help you with your product selection.



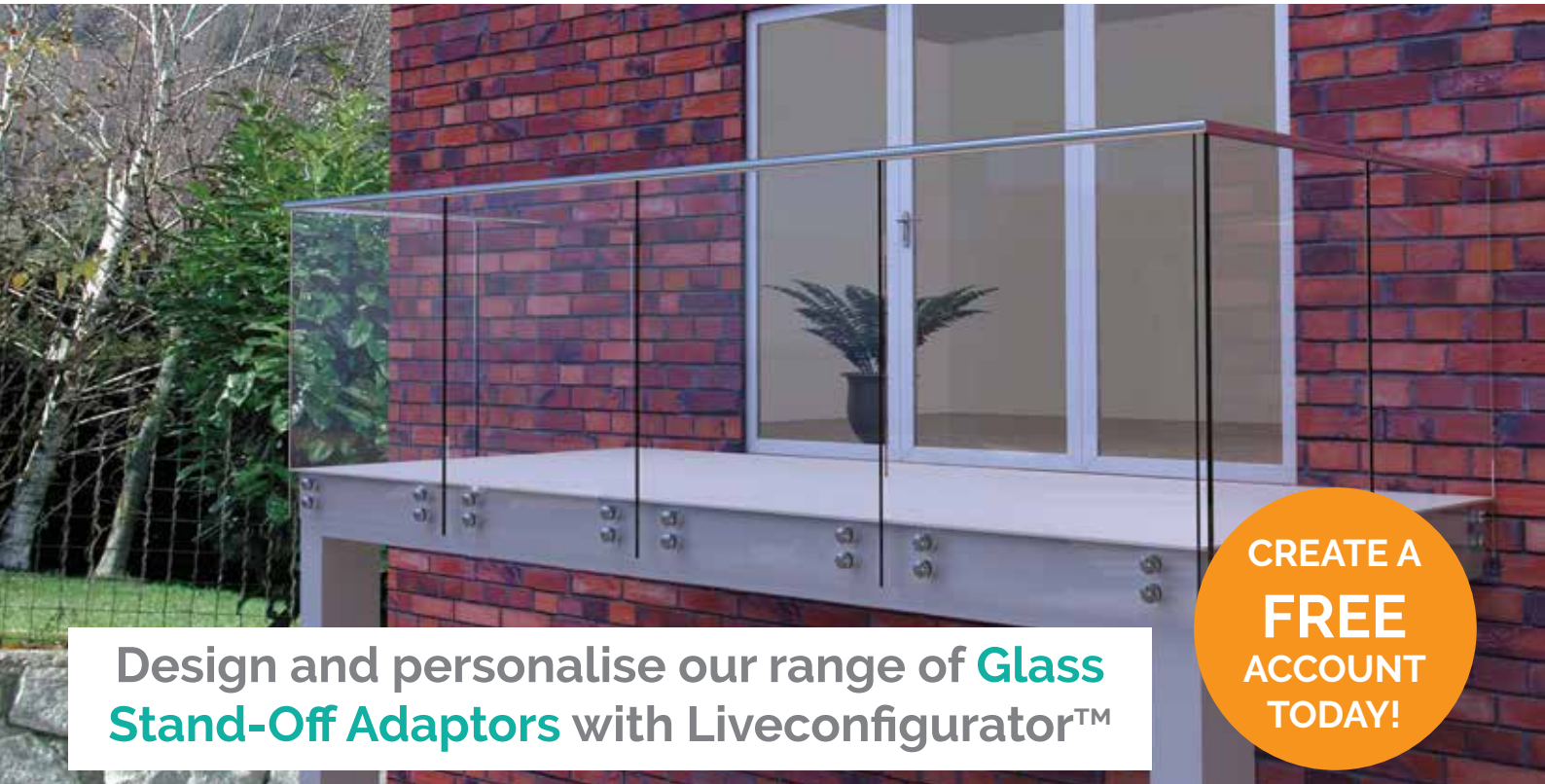
Technical information that can be found on our website.



Handy tip for quicker and more effortless installation.

# liveconfigurator™

REAL TIME DESIGN



Design and personalise our range of **Glass Stand-Off Adaptors** with Liveconfigurator™

CREATE A  
**FREE**  
ACCOUNT  
TODAY!



Configure to Your Specification



Accurate Drawings



Eliminate Mistakes



Instant Quotes

- ✓ Save time estimating your balustrade
- ✓ Get a very competitive quote within minutes
- ✓ Use 24/7 any day of the year
- ✓ Save hours of time drawing
- ✓ A choice of styles, layouts, glass and components
- ✓ Receive 100% accurate CAD drawings, free of charge
- ✓ Real time design
- ✓ Impress customers with your fast response and ability to provide drawings



**Simple to use, Liveconfigurator™ will generate a quote for stainless steel and glass balustrade systems in minutes**, at any time or any day. It will also provide a list of all the parts you need to complete your project almost instantly. If you prefer to speak to one of our staff you can request a call back.

- Get a quote in minutes
- Use 24/7 any day of the year
- You have a choice of systems
- Save hours of time drawing
- Automatically configure drawings to your dimensions
- Provide accurate, detailed layout drawings
- Ideal for anyone designing a glass balustrade
- Makes installation easier and faster

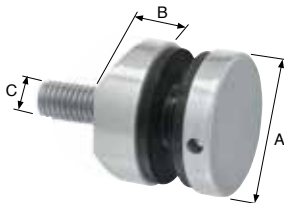
# GLASS STAND-OFF ADAPTORS

FLAT BACK



## GLASS ADAPTOR

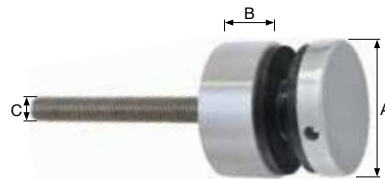
For use with round posts



Ø mm	(A) Ø mm	(B) mm	(C) mm	Glass mm	Glass Hole Size Ø mm	Code
42.4	30	15	8	6 - 12	15	1802404C
42.4	50	10	10	8 - 19	22	1804454C
48.3	50	10	10	8 - 19	22	1804454D
48.3	50	10	10	8 - 19	22	1806454D

## SOLID

Flat front



(A) Ø mm	(B) mm	(C) Ø mm	Glass mm	Glass Hole Ø mm	Satin Polish Code	Mirror Finish Code
30	15	8	6 - 12	15	1802404F	—
30	15	8	6 - 12	15	1806404F	1806404FM
50	20	10	8 - 19	22	1806455	1806455M
50	30	10	8 - 19	22	1806456	1806456M
50	40	10	8 - 19	22	1806457	1806457M
50	50	10	8 - 19	22	1806458	1806458M

## SOLID

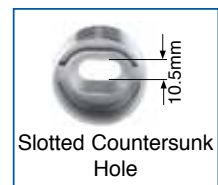
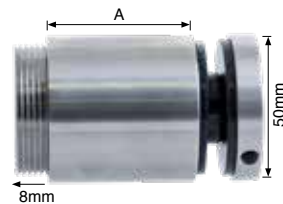
Domed front



Glass mm	Glass Hole Ø mm	Satin Polish Code	Mirror Finish Code
8 - 19	22	1804454F	—
8 - 19	22	1806454F	1806454FM

## ADJUSTABLE HOLLOW

Flat front



(A) mm	Glass mm	Glass Hole Ø mm	Satin Polish Code	Mirror Finish Code
20	12.76 - 17.50	26	1806459	1806459M
30	12.76 - 25.50	26	1806460	1806460M
40	8.00 - 25.50	26	1806461	1806461M
50	8.00 - 25.50	26	1806462	1806462M

Fixing bolt not supplied. Use code: 1899006112.

## SPANNER



## INTERNAL THREADED ANCHOR

For use with adjustable stand-off adaptor



## COUNTERSUNK SCREW CR-LX-CS-ZF



Size mm	Code
M10 x 100	5002CCS10100

## MESH SLEEVE



Size mm	Code
M10	50WMS101000

## RKER II HYBRID RESIN

Suitable for use in dry & wet substrates & water filled holes



ml	Code
300	50RKER300

To Suit Ø mm	Code
30 - 50	189900104

Size mm	Code
M10 x 100	5004RS10100F

# SPIGOTS

liveconfigurator<sup>TM</sup>

REAL TIME DESIGN

Design and personalise our range of products with Liveconfigurator<sup>TM</sup>

CREATE A FREE ACCOUNT TODAY!

## TOP RAIL

Please note when using a gasket this will add a few millimetres to the overall height.

- SQUARE SLIM

See page 21
- SQUARE MINI

See page 23
- ROUND MINI

See page 24
- RECTANGULAR

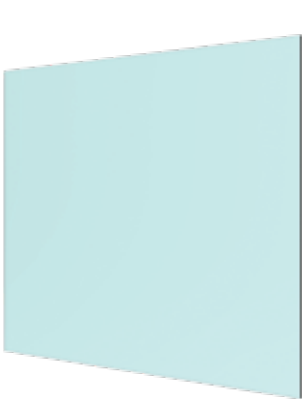
See page 26
- OVAL

See page 27
- ROUND

See page 25
- MIRROR FINISH ROUND

See page 75
- ALUMINIUM RECTANGULAR

See page 22



## 12mm GLASS PANELS

Thickness mm	Height mm	Width mm	Code
12	1087	500	1855125001087
12	1087	600	1855126001087
12	1087	700	1855127001087
12	1087	800	1855128001087
12	1087	900	1855129001087
12	1087	1000	18551210001087
12	1087	1200	18551212001087

FOR 15mm STANDARD GLASS PANELS OR MADE TO ORDER GLASS PANELS PLEASE SEE FROM PAGE 10.

- HEX HEAD WITH FLANGE

See page 88
- HEX HEAD MULTI-FIX BOLT

See page 88
- THROUGH BOLT

See page 89
- COUNTERSUNK CONCRETE SCREW

See page 88
- RESIN SOCKET

See page 90
- R-STUD WITH FLAT HEAD

See page 90

FOR OUR FULL RANGE OF FIXINGS SEE PAGE 88.

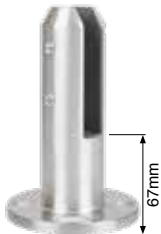


## FEATURES:

- Economic frameless glass solution
- For use with 10 - 21.5mm glass
- Duplex 2205 (ultra marine stainless) option, stronger & reduced cleaning frequency when compared to Grade 316

### DUPLEX ROUND SPIGOT

No holes in glass needed



Not structurally tested

Finish	Code
Satin	1822009
Mirror	1822009M

To suit 12 - 15mm glass. Height to glass from base is 67mm. For M8 x 75mm bolt use code: **5002CCS875**. For M8 x 100mm bolt use code: **5002CCS8100**.

### GRADE 316 COVER CAP

To suit duplex round spigot



Finish	Code
Satin	1822009CP
Mirror	1822009MCP

### SQUARE SPIGOT

No holes in glass needed



Glass Thickness mm	Code
12 - 21.50	1822010

Supplied with nut socket. To be used with M12 x 120mm lag screw with Allen key head code: **1899006124**.

### PACKING SHIM

No holes in glass needed.



Code
1822010S

Thickness 3mm.

### LAG SCREW

With Allen key head



Size mm	Code
M12 x 120	1899006124

Please order nut code: **189900639** and washer code: **189900633**.

### ROUND SPIGOT

No holes in glass needed



Description	Code
Round spigot	1822007
Cover cap	1822007CP

10 - 21.5mm Glass thickness. Height to glass when packer fitted is 45mm.

### SQUARE SPIGOT

No holes in glass needed



Description	Code
Square spigot	1822008
Cover cap	1822008CP

10 - 21.5mm Glass thickness. Height to glass when packer fitted is 45mm.

### PPC MATT BLACK SPIGOT

No holes in glass needed



Description	Code
Square spigot	1822011B
Cover cap	1822011CPB

12mm Glass thickness. Height to glass when packer fitted is 53mm. Black PPC finish.

## FIXINGS

Description	Size mm	Code
Locator Nut - For use with cover plate. Excess thread to be cut off after installation	M12	1829012N
Covered Locator Nut - For use instead of cover plate. Hides bolt thread under nut	M12	1829012DN
Lag Screw with Allen key head	M12 x 120	1899006124
Concrete Bolt Self-tapping - For cracked and non-cracked concrete	M12 x 75	5002HCS1275
Concrete Bolt Self-tapping - For cracked and non-cracked concrete	M12 x 100	5002HCS12100

# TILT-LOC™

## RESIDENTIAL BALUSTRADE SOLUTION

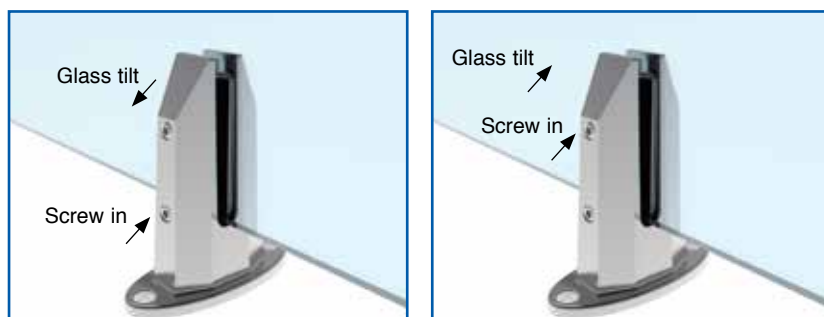


### FEATURES:

- Duplex 2205 (ultra marine stainless)
- Satin polish
- New adjustable tilt-lock technology
- Adjustment from one side

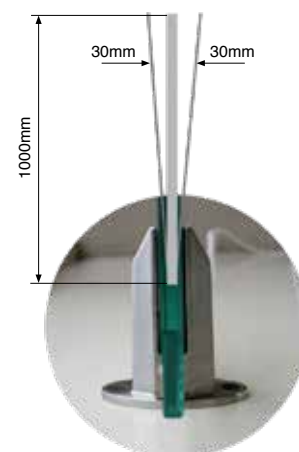
SPIGOT  
SPECIALIST

### TILT-LOC™ TIGHTENING



Level by hand and tighten the grub screws once in position for a perfect finish in half the time compared to a standard non-adjustable spigot. The Tilt-Loc™ system can easily be hand adjusted from one side by one person.

### TILT-LOC™ ADJUSTMENT

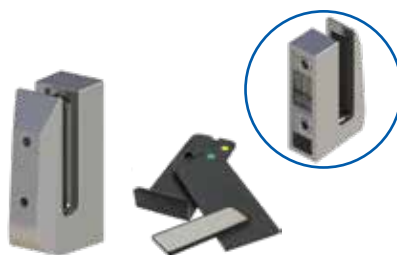


### TILT-LOC™ - BOLT DOWN



Glass mm	Height to Glass with Packer mm	Code
12 - 17.50	51	1822001
19 - 25.50	46	1822002

### TILT-LOC™ - SIDE



Glass mm	Height to Glass with Packer mm	Code
12 - 17.50	39	1822003
19 - 25.50	44	1822004

### TILT-LOC™ - EDGE



Glass mm	Height to Glass with Packer mm	Code
12 - 17.50	43	1822005
19 - 25.50	43	1822006

Cover cap included.

Rattling cover plate?  
Just add a dab of  
silicone, see page 92.



### NUT SOCKET

For use with Tilt-Loc™ - Side



Code
1829002

### ALIGNMENT GAUGE

For use with Tilt-Loc™ - Side



Code
1829001

# BALUSTRADE SYSTEMS



## WEDGE-LOC® SLIM

- Available in satin anodised & mill finish
- Pre-drilled channel fixing holes
- Suitable for glass from 12 - 25.52mm thickness
- Side or base-fix options
- Quick to install



See Page  
12



## WEDGE-LOC® F CHANNEL

- Available in satin anodised
- For installations under screed or decking subframes
- Suitable for glass from 12 - 21.5mm thickness
- F profile allows flush fitting to the edge of your substrate



See Page  
15



## WEDGE-LOC® DUO

- Available in satin anodised & PPC black finish
- Adjustable grips to allow quick alignment of glass
- Suitable for glass from 15 - 25mm
- For installations up to 1.5kN in commercial applications
- + / -1° adjustment on glass
- Side or base-fix options

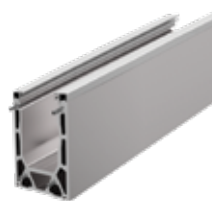


See Page  
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## TILT-LOC™

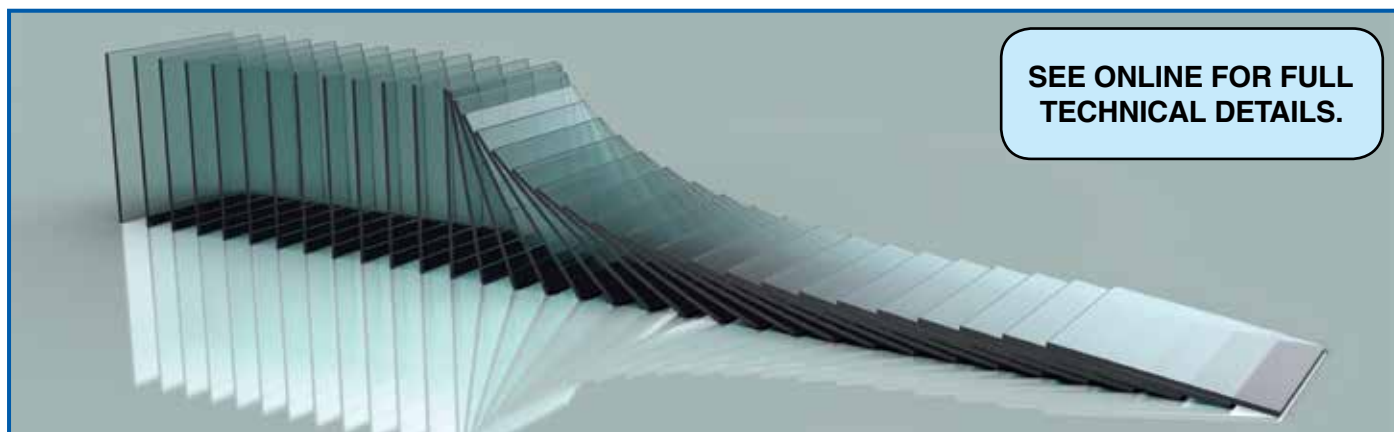
- Satin anodised (Grade 6063 T6) Aluminium
- Suitable for glass from 12 - 21.5mm thickness
- Up to 30mm tilt adjustment on glass
- Pre-drilled channel fixing holes
- Side or base-fix options



See Page  
18

# STOCKED GLASS PANELS

## FRAMELESS GLASS & SPIGOTS SYSTEMS



- 12 & 15mm thick toughened monolithic clear float glass
- 17.5 & 21.5mm thick PVB toughened laminated glass

- Polished all round and dubbed corners
- Handrail should be used with toughened glass

### 12mm TOUGHENED PANELS

Thickness mm	Height mm	Width mm	Code
12	1087	500	1855125001087
12	1087	600	1855126001087
12	1087	700	1855127001087
12	1087	800	1855128001087
12	1087	900	1855129001087
12	1087	1000	18551210001087
12	1087	1200	18551212001087

### 15mm TOUGHENED PANELS

Thickness mm	Height mm	Width mm	Code
15	1087	500	1855155001087
15	1087	600	1855156001087
15	1087	700	1855157001087
15	1087	800	1855158001087
15	1087	900	1855159001087
15	1087	1000	18551510001087
15	1087	1200	18551512001087

### 17.5mm PVB TOUGHENED LAMINATED PANELS

Thickness mm	Height mm	Width mm	Code
17.5	1087	500	18561755001087
17.5	1087	600	18561756001087
17.5	1087	700	18561757001087
17.5	1087	800	18561758001087
17.5	1087	900	18561759001087
17.5	1087	1000	185617510001087
17.5	1087	1200	185617512001087

### 21.5mm PVB TOUGHENED LAMINATED PANELS

Thickness mm	Height mm	Width mm	Code
21.5	1087	500	18562155001087
21.5	1087	600	18562156001087
21.5	1087	700	18562157001087
21.5	1087	800	18562158001087
21.5	1087	900	18562159001087
21.5	1087	1000	185621510001087
21.5	1087	1200	185621512001087

### TOP RAIL

Please note when using a gasket this will add a few millimetres to the overall height.

**SQUARE SLIM**  
See page 21

**SQUARE MINI**  
See page 23

**ROUND MINI**  
See page 24

**RECTANGULAR**  
See page 26

**OVAL**  
See page 27

**ROUND**  
See page 25

**MIRROR FINISH  
ROUND**  
See page 75

**ALUMINIUM  
RECTANGULAR**  
See page 22



### SPIGOTS & FRAMELESS GLASS

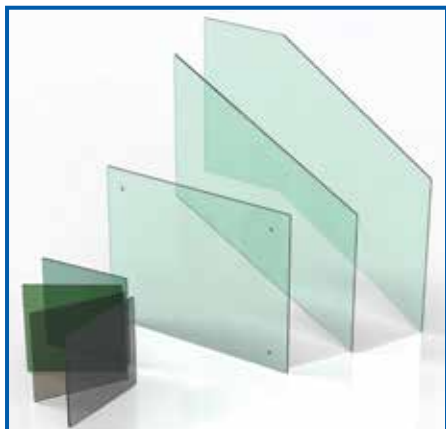


**FOR OUR RANGE OF  
PRE-ASSEMBLED POSTS  
SEE FROM PAGE 34.**

**FOR OUR RANGE OF GLASS  
STAND-OFF ADAPTORS  
SEE PAGE 5.**

# MADE TO ORDER GLASS

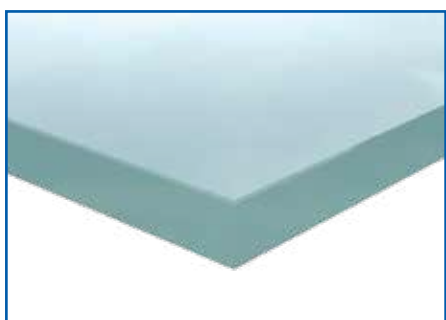
## SQUARE METRE PANELS



Our custom sized per square metre glass panels are polished on all edges and come with docked corners for safety and aesthetic reasons. Glass can be supplied with radius corners, shaped, with cut-outs and drilled at extra cost. A range of coloured glass, etched glass and self-clean coatings also available. The current meterage rates can be checked online using the following codes and we can then prepare a detailed quote to meet your exact requirements. You will need to add 30% to the meterage price for shapes and cut-outs.

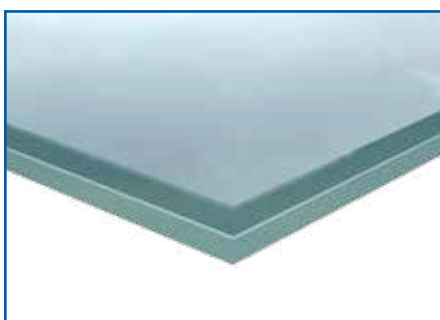
Consult with local building authorities and structural engineers to ensure correct glass specifications and fixings are used to achieve the required loadings. Where possible we have tested our systems and individual test reports are available online. For further information on the classification of building occupancy & glass loadings, visit our website.

### TOUGHENED GLASS



Thickness mm	Code
8	185508M
10	185510M
12	185512M
15	185515M
19	185519M
25	185525M

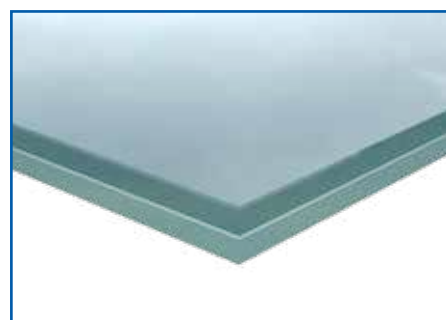
### TOUGHENED LAMINATED GLASS



Thickness mm	Code
11.52	1856115M
13.52	1856135M
17.50	1856175M
21.50	1856215M
25.50	1856255M

### SENTRYGLAS®

Ionoplast interlayer toughened glass



Thickness mm	Code
12.89	18571289M
16.89	18571689M
20.89	18572089M
25.50	1857255M

Up to 5 times stronger and 100 times stiffer than conventional interlayers.

## TEMPLATING SHEETS



We can provide suitable templating material that can be cut to suit any special shapes on site. This is sent to our factory for production to match the template exactly, using modern imaging scanning technology to duplicate your design. Price and availability for bespoke panels are available on application.

Height mm	Width mm	Thickness mm	Code
2440	1220	4	185900201

## GLASS CLEANING

### BOND IT GLASS CLEANER

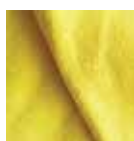
Fast acting all purpose cleaner with non smear formulation



Litre	Code
1	1859GC1

### MICRO FIBRE CLOTH

Pack of 10



Colour	Size mm	Code
Yellow	400 x 400	29MFC40

FOR STAINLESS STEEL  
CLEANER SEE PAGE 92.

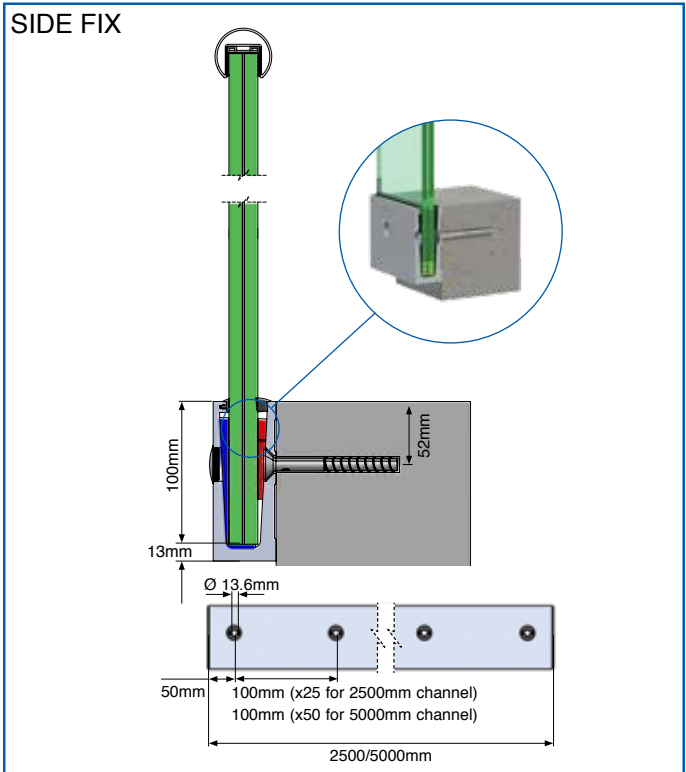
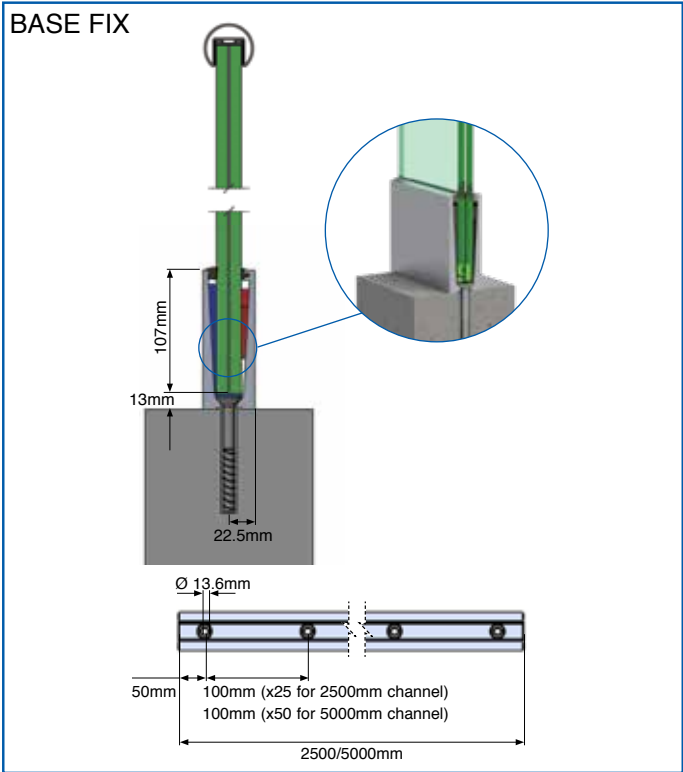
# WEDGE-LOC™ SYSTEM

## SLIM CHANNEL



### FEATURES:

- Available in satin anodised & mill finish
- Stainless cladding not required
- Great value
- Quick to install
- Pre-drilled channel fixing holes
- Height to glass when packer fitted is 13mm
- Packer height 2mm



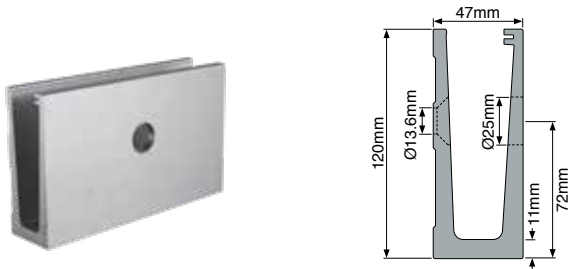
### SIDE FIX CHANNEL

### INTERNAL 90° CORNER

For use with side fix channel

### EXTERNAL 90° CORNER

For use with side fix channel



Glass Thickness mm	Length m	Height to Glass with Packer mm	Finish	Code
12 - 21.5	2.5	13	Satin Anodised	<b>1805440SSA</b>
12 - 21.5	5.0	13	Satin Anodised	<b>18054405SSA</b>

Channel fixing holes are Ø 13.6mm at 100mm centres to suit a Ø 12mm bolt with a Ø 22mm countersunk head.

Finish	Code
Satin Anodised	<b>1805440SIC</b>

Inside length 155mm each side.  
Outside length 200mm each side.

Finish	Code
Satin Anodised	<b>1805440SEC</b>

Inside length 155mm each side.  
Outside length 200mm each side.

# WEDGE-LOC™ SYSTEM

## SLIM CHANNEL

### BASE FIX CHANNEL



Glass Thickness mm	Length m	Height to Glass with Packer mm	Finish	Code
12 - 21.5	2.5	13	Satin Anodised	1805440BSA
12 - 21.5	2.5	13	Mill Finish	1805440BR
12 - 21.5	5.0	13	Satin Anodised	18054405BSA

Channel fixing holes are Ø 13.6mm at 100mm centres to suit a Ø 12mm bolt with a Ø 22mm countersunk head.

### INTERNAL 90° CORNER

For use with base fix channel



### EXTERNAL 90° CORNER

For use with base fix channel



Material/Finish	Code
Satin Anodised	1805440BIC
Mill Finish	1805440BICR

Inside length 155mm each side.  
Outside length 200mm each side.

Material/Finish	Code
Satin Anodised	1805440BEC
Mill Finish	1805440BECR

Inside length 155mm each side.  
Outside length 200mm each side.

### BASE PLATE

To side fix a base channel



### UNDERSIDE CLADDING

For use with base plate & base fix channel



### END CAP

For use with underside cladding



### END CAP

For use without cladding



Material/Finish	Code
Mill Finish	1805445R

Material/Finish	Code
Satin Anodised	1805443UC

Material/Finish	Code
Satin Anodised	1805443EC

Material/Finish	Code
Stainless Steel	1805442E
Mill Finish	1805442ER

### WEDGE SET



### WEDGE INSERTION & REMOVAL TOOL



### PLUG

For side fix channel



### CONCRETE SCREW



Glass Thickness mm	Code
12.00 - 12.76	180544112
13.52	180544113
15.00	180544115
16.76	180544116
17.50	180544117
19.00	180544119
20.76	180544120
21.50	180544121

Supplied with rubbers and wedges.  
To suit 2.5m long channel.

Code
180599001

Code
1805444PP

Plastic.

Size mm	Code
M10 x 100	5002CCS10100

### BOXED SAMPLE

See the quality for yourself!



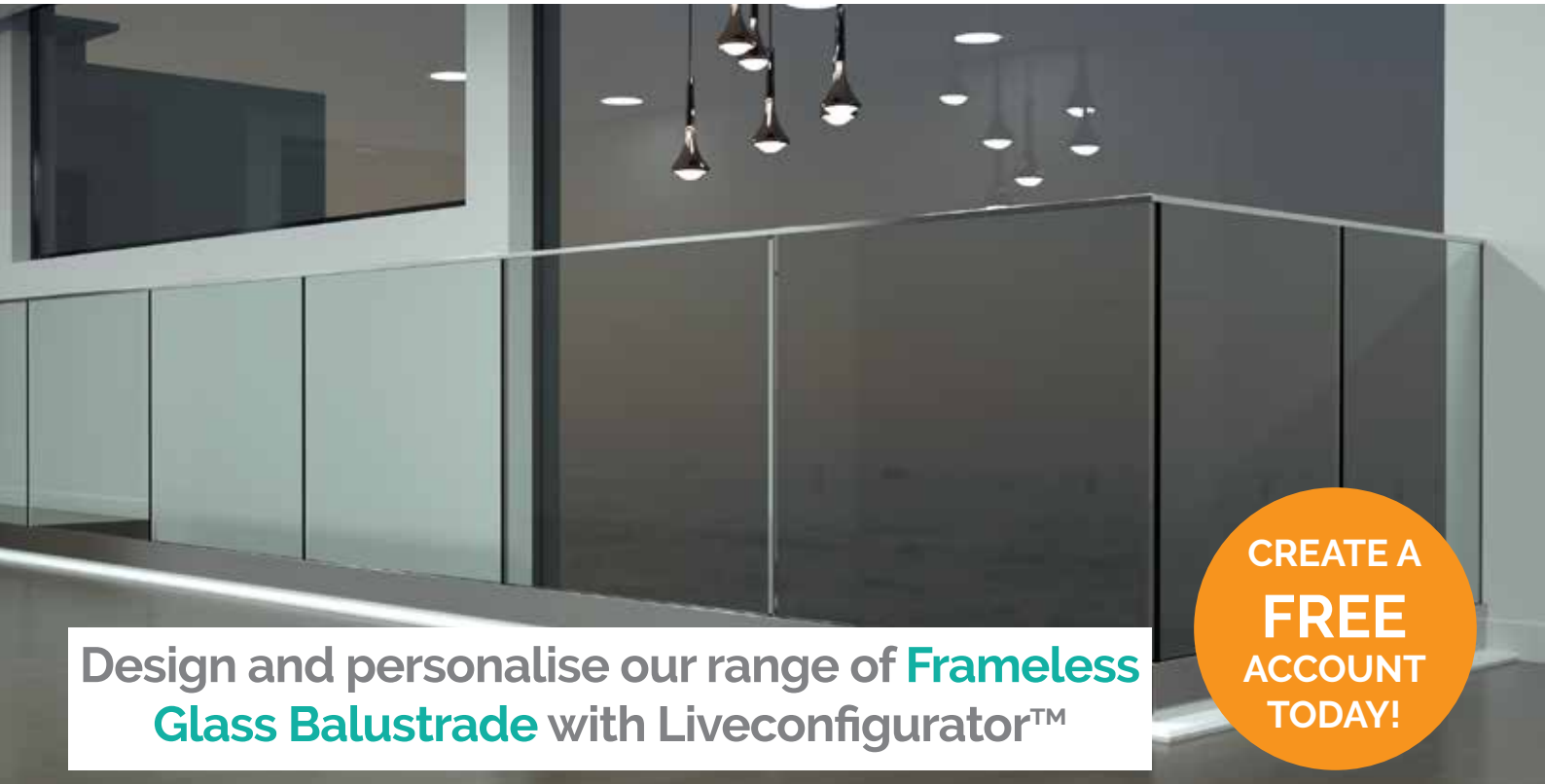
**Sample cost refunded  
against your first order.**

Code
18SLIM1

**CAN BE USED IN CONJUNCTION WITH OUR TOP RAIL SYSTEMS SEE PAGE 20.**

# liveconfigurator™

REAL TIME DESIGN



Design and personalise our range of **Frameless Glass Balustrade** with Liveconfigurator™

CREATE A  
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Configure to Your Specification



Accurate Drawings



Eliminate Mistakes



Instant Quotes

- ✓ Save time estimating your balustrade
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- ✓ Impress customers with your fast response and ability to provide drawings



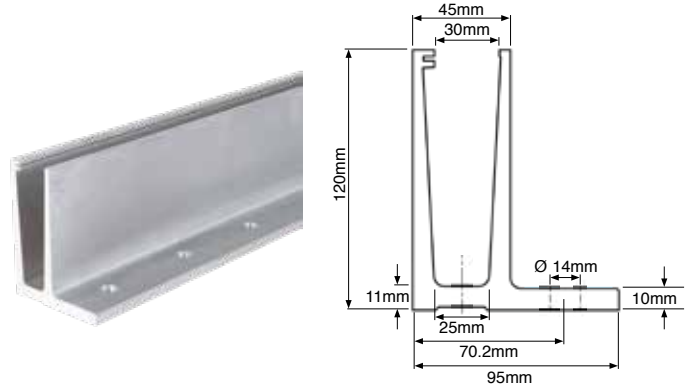
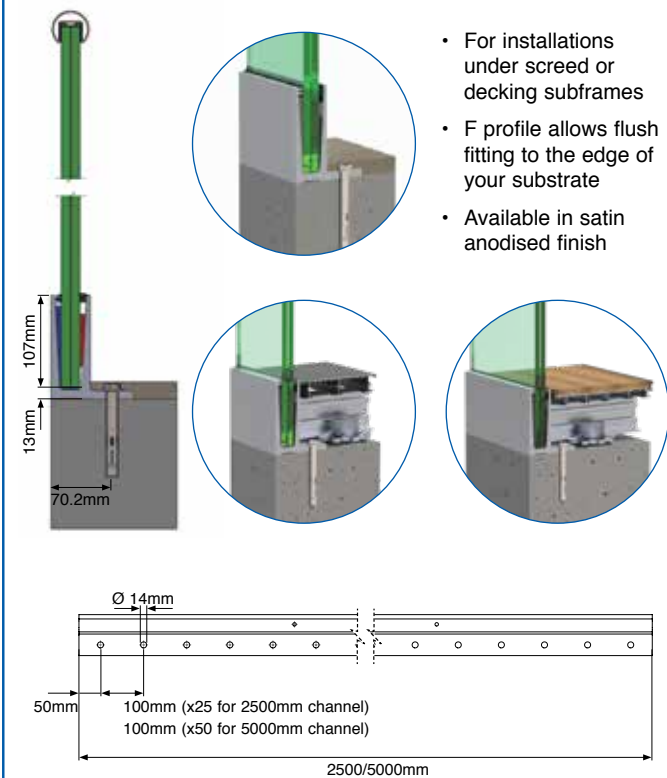
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- Automatically configure drawings to your dimensions
- Provide accurate, detailed layout drawings
- Ideal for anyone designing a glass balustrade
- Makes installation easier and faster

# WEDGE-LOC™ SYSTEM

## BASE FIX CHANNEL F CHANNEL

### BASE FIX



Glass Thickness mm	Length m	Code
12 - 21.5	2.5	<b>1805570BSA</b>
12 - 21.5	5.0	<b>18055705BSA</b>



### INTERNAL 90° CORNER

For use with base fix channel



Glass Thickness mm	Code
12 - 21.5	<b>1805570BIC</b>

Satin anodised.

### EXTERNAL 90° CORNER

For use with base fix channel



Glass Thickness mm	Code
12 - 21.5	<b>1805570BEC</b>

Satin anodised.

### END CAP



Material/Finish	Code
Satin Anodised	<b>1805572E</b>

### CONCRETE BOLT

Self-Tapping



Size mm	Code
M12 x 100	<b>5002HCS12100</b>

For fixing to cracked and non-cracked concrete.

### WEDGE SET



Glass Thickness mm	Code
12.00 - 12.76	<b>180544112</b>
13.52	<b>180544113</b>
15.00	<b>180544115</b>
16.76	<b>180544116</b>
17.50	<b>180544117</b>
19.00	<b>180544119</b>
20.76	<b>180544120</b>
21.50	<b>180544121</b>

Supplied with rubber gasket and wedges. To suit 2.5m long channel.

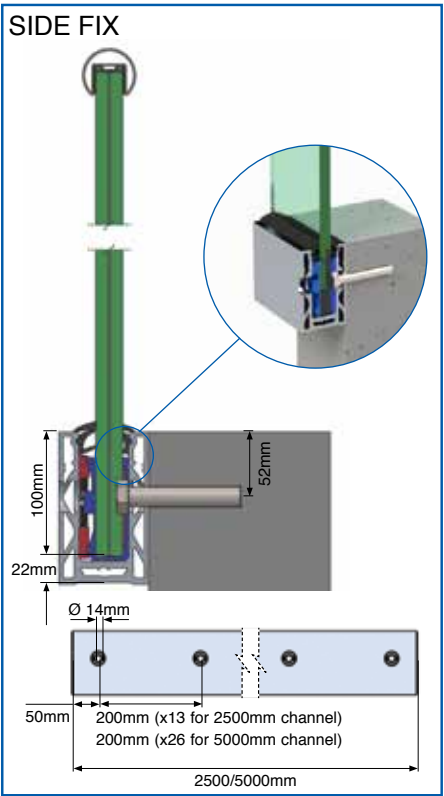
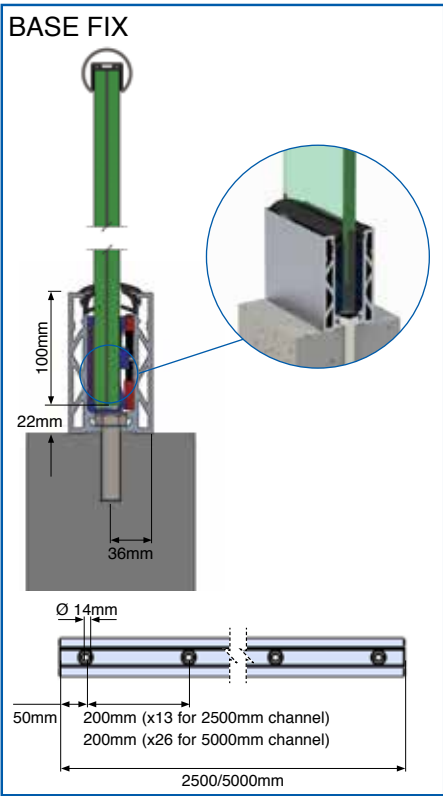
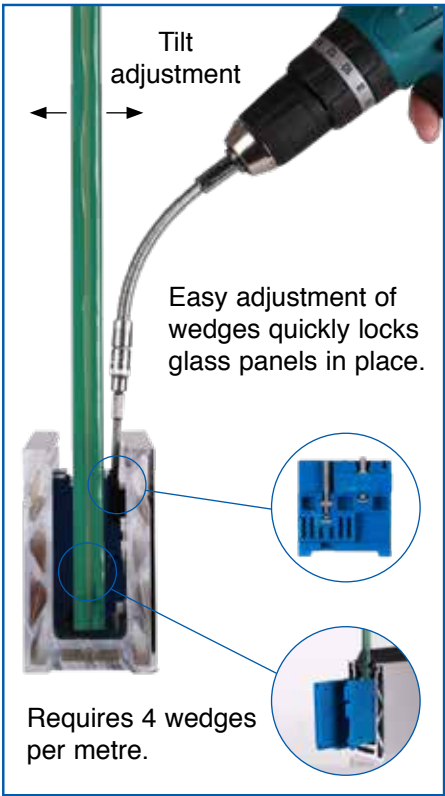
# WEDGE-LOC™ SYSTEM

DUO



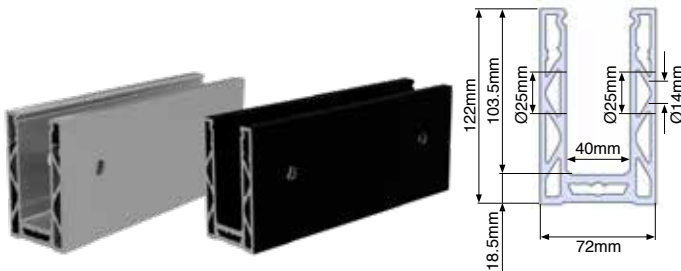
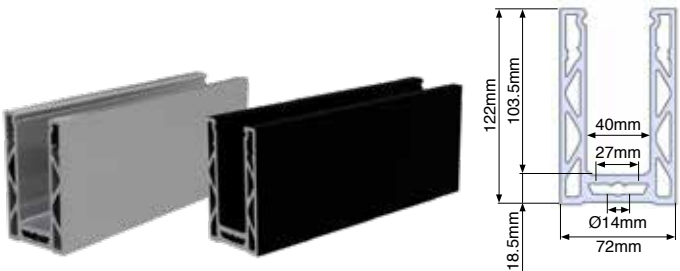
**FEATURES:**

- Adjustable grips to allow quick alignment of glass
- A fast and cost effective frameless glass solution
- Available in satin anodised and PPC black finish
- For installations up to 1.5kN in commercial applications
- +/-1° adjustment on glass



**BASE FIX CHANNEL**

**SIDE FIX CHANNEL**



Glass Thickness mm	Length m	Finish	Code
15 - 21.5	2.5	PPC Black	180556025BB
15 - 21.5	2.5	Satin Anodised	180556025BSA
15 - 21.5	5.0	PPC Black	18055605BB
15 - 21.5	5.0	Satin Anodised	18055605BSA

Channel fixing holes are Ø 14mm at 200mm centres to suit 12mm bolts. Height to glass with packer 22mm.

Glass Thickness mm	Length m	Finish	Code
15 - 21.5	2.5	PPC Black	180556025SB
15 - 21.5	2.5	Satin Anodised	180556025SSA
15 - 21.5	5.0	PPC Black	18055605SB
15 - 21.5	5.0	Satin Anodised	18055605SSA

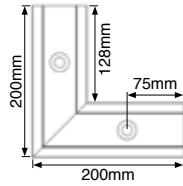
Channel fixing holes are Ø 14mm at 200mm centres to suit 12mm bolts. Height to glass with packer 22mm.

# WEDGE-LOC™ SYSTEM

DUO

## INTERNAL 90° CORNER

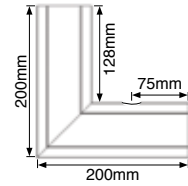
For use with base fix channel



Finish	Code
Satin Anodised	<b>1805560BIC</b>
PPC Black	<b>1805560BICB</b>

## INTERNAL 90° CORNER

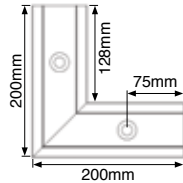
For use with side fix channel



Finish	Code
Satin Anodised	<b>1805560SIC</b>
PPC Black	<b>1805560SICB</b>

## EXTERNAL 90° CORNER

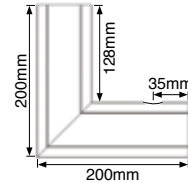
For use with base fix channel



Finish	Code
Satin Anodised	<b>1805560BEC</b>
PPC Black	<b>1805560BECB</b>

## EXTERNAL 90° CORNER

For use with side fix channel



Finish	Code
Satin Anodised	<b>1805560SEC</b>
PPC Black	<b>1805560SECB</b>

## CLADDING

For side fix channel



Finish	Code
Satin Anodised	<b>1805565S</b>
PPC Black	<b>1805565SB</b>

## END CAP

For base & side fix channel



Finish	Code
Satin Anodised	<b>1805562</b>
PPC Black	<b>1805562B</b>

## PLUG

For side fix channel



Finish	Code
Satin Anodised	<b>1805564</b>
PPC Black	<b>1805564B</b>

## CONNECTING PIN

For base & side fix channel



Code
<b>1805569</b>

Please order 2 pins per connection.

2.5m length.

13 plugs per 2.5m, 26 plugs per 5m channel and 2 plugs per corner.

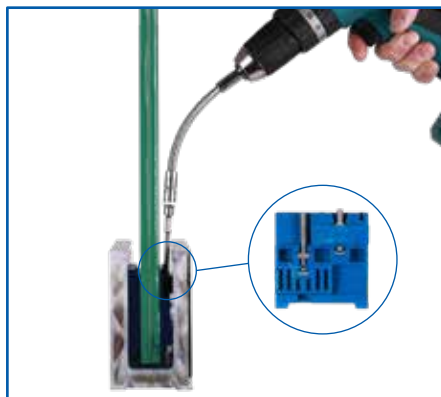
## ADJUSTABLE WEDGE PACK

For 2.5m length



Glass Thickness mm	Code
15.00	<b>180556115</b>
16.76 - 17.50	<b>180556117</b>
19.00	<b>180556119</b>
20.76 - 21.50	<b>180556120</b>

Includes rubber & wedges. Requires flexible hex bit, code: **1805566**



## FLEXIBLE HEX BIT

For adjustable wedges



Code
<b>1805566</b>

Attaches to a standard powerdriver for ease of tightening wedges.

## CONCRETE BOLT



Size mm	Code
M12 x 100	<b>5002HCS12100</b>

For fixing to cracked and non-cracked concrete.

## CLADDING TAPE

Double sided



Length m	Code
50	<b>1805453</b>

## HIGH STRENGTH RETAINER GLUE

For use with cladding and end cap



**LOCTITE**

ml	Code
50	<b>1899007638</b>

# TILT-LOC™ CHANNEL

## TL86 SERIES

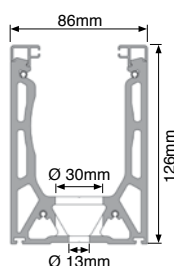


Our top quality aluminium Tilt-Loc™ System has a unique patented rotating pressure plate system which allows for fast easy installation of frameless glass.

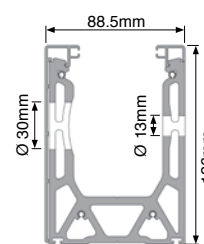
### FEATURES:

- Satin anodised (Grade 6063 T6) Aluminium
- Up to 30mm tilt adjustment on glass
- Adjustment from inside the balcony
- All holes are pre-drilled and fixings can be concealed
- Suitable for glass from 12 - 25.52mm thickness
- Glass easily installed and aligned with a spanner

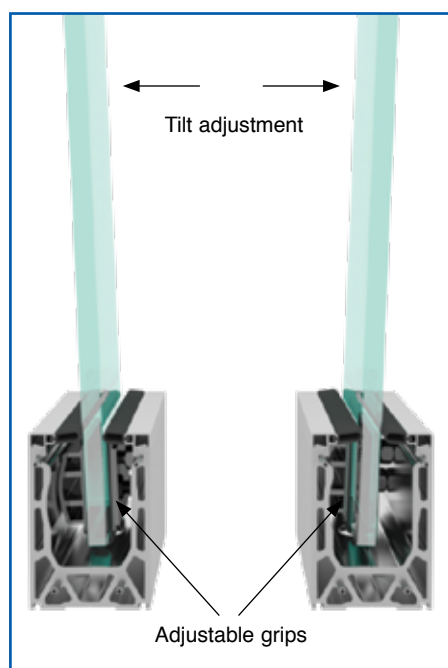
### BASE-FIX



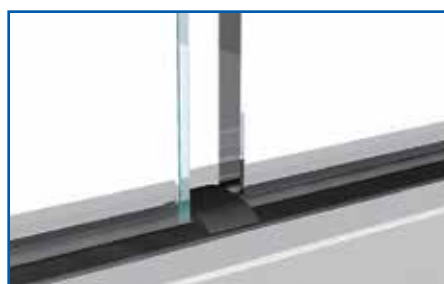
### SIDE-FIX



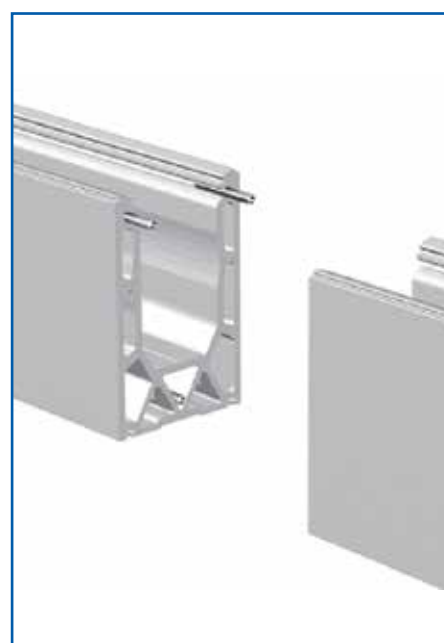
### TILT-LOC ADJUSTMENT GIVES PERFECT ALIGNMENT



Up to 30mm tilt adjustment back and forward from inside the balcony.



EDPM dividing gasket to expel water and dirt.



Alignment pins x 2 included in channel kit.

**FOR GLASS LOADING GUIDELINES VISIT OUR WEBSITE.**

# TILT-LOC™ CHANNEL

## BASE FIX CHANNEL



Glass Thickness mm	Length m	Code
12 - 25	3	<b>1805540B</b>

Supplied with 2 x top cladding and 2 alignment pins. Height to glass with packer 38mm.

## SIDE FIX CHANNEL



Glass Thickness mm	Length m	Code
12 - 25	3	<b>1805540S</b>

Supplied with 2 x top cladding and 2 alignment pins. Height to glass with packer 38mm.

## CLAMP KIT



Glass mm	Clamps Per Kit	Clamps Needed Per m	Code
12.0	6	2	<b>180554112</b>
15.0	9	3	<b>180554115</b>
17.0	6	2	<b>1805541175</b>
19.0	9	3	<b>180554119</b>
21.0	9	3	<b>180554125</b>
25.0	6	2	<b>180554125</b>

## INTERNAL 90° CORNER

For base & side-fix channel



Description	Code
Base-Fix	<b>1805540BIC</b>
Side-Fix	<b>1805540SIC</b>

Inside length 64mm each side.  
Outside length 150mm each side.

## EXTERNAL 90° CORNER

For base & side-fix channel



Description	Code
Base-Fix	<b>1805540BEC</b>
Side-Fix	<b>1805540SEC</b>

Inside length 64mm each side.  
Outside length 150mm each side.

## END CAP

For base & side-fix channel



Description	Code
Base-Fix	<b>1805547B</b>
Side-Fix	<b>1805547S</b>

## CONCRETE BOLT Self-Tapping



Size mm	Code
M12 x 100	<b>5002HCS12100</b>

For fixing to cracked and non-cracked concrete.

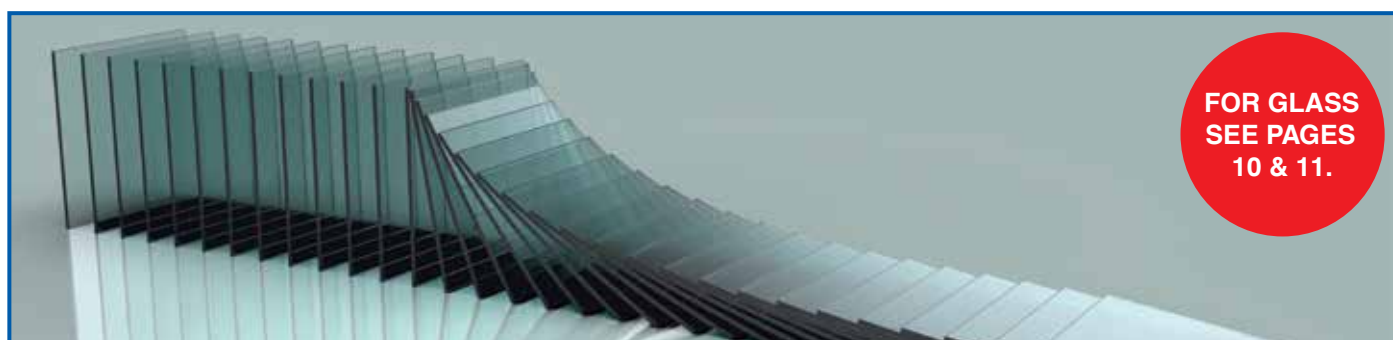
## BOXED SAMPLE

See the quality for yourself!



**Sample cost refunded  
against your first order.**

Code
<b>18TILT1</b>



**FOR GLASS  
SEE PAGES  
10 & 11.**

# TOP RAIL SYSTEMS

- Systems to suit 8 - 21.50mm glass
- Anodised or stainless steel Grade 304 & 316
- Reduced visual impact

- No welding required
- Satin polish or mirror finish
- Choice of 8 profiles



**SQUARE SLIM**  
See page 21



**SQUARE MINI**  
See page 23



**ROUND MINI**  
See page 24



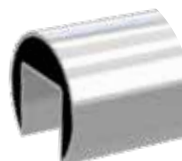
**RECTANGULAR**  
See page 26



**OVAL**  
See page 27



**ROUND**  
See page 25



**MIRROR FINISH ROUND**  
See page 75



**ALUMINIUM RECTANGULAR**  
See page 22

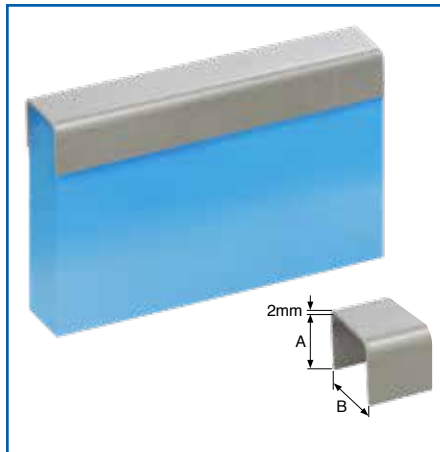
# SQUARE SLIM TOP RAIL



## ANODISED ALUMINIUM



To Suit Glass mm	Length m	(A) mm	(B) mm	Code
12.0	2.5	13	12.5	150501
15.0	2.5	13	15.5	150502
16.76 - 17.50	2.5	18	18.0	150503
19.0	2.5	18	19.5	150504
21.50	2.5	18	22.0	150505



## STAINLESS STEEL



To Suit Glass mm	Length m	(A) mm	(B) mm	Code
12.0	2.5	13	12.5	150601
15.0	2.5	13	15.5	150602
16.76 - 17.50	2.5	18	18.0	150603
19.0	2.5	18	19.5	150604
21.50	2.5	18	22.0	150605

# ADHESIVES & SEALANTS

## HIGH STRENGTH RETAINER GLUE

For use with tube fittings



**LOCTITE**

ml	Code
50	1899007638

## LOCTITE SILICONE SEALANT

Gives an all-round waterproof seal



**LOCTITE**

Colour	ml	Code
Clear	310	18990125366
Black	310	18990125368

## ADHESIVE ACTIVATOR

Reduces curing time when used with Loctite 638



ml	Code
150	18990087649

## SILICONE SEALANT

Gives an all-round waterproof seal



Colour	ml	Code
Clear	310	189901201
Black	310	189901202

## INSTANT ADHESIVE

Supplied with plunger and needle for accurate application. For use as thread lock adhesive



ml	Code
50	1899007454

## SEALANT GUN



Code
189900666

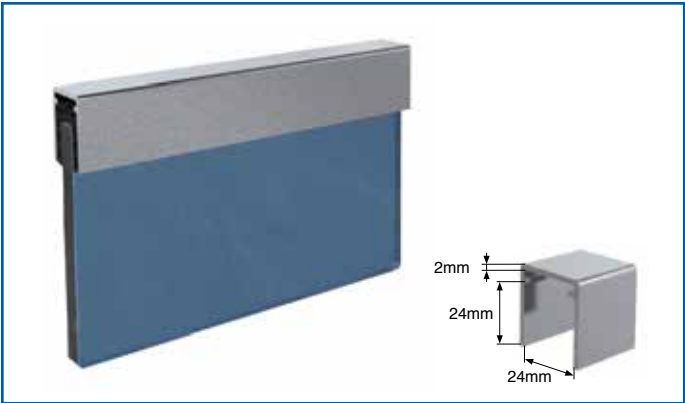
# ALUMINIUM TOP RAIL SYSTEM

30 x 28mm PROFILE



## FEATURES

- Designed for 8 - 21.5mm glass with rubber gasket
- No welding required
- Reduced visual impact of top rail
- Connectors simply slide into the top rail for a neat joint
- Flush fit fittings
- All products are satin anodised aluminium



TOP RAIL

90° TOP RAIL



Length m	Code
3	1505063

Code
150506411

Inside length 342mm each side. Outside length 370mm each side.

INTERNAL CONNECTOR



Length mm	Code
100	150506412

90° CORNER  
INTERNAL CONNECTOR



Code
15050641290

Inside length 76.5mm each side. Outside length 100mm each side.

END CAP



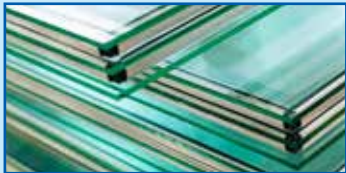
Code
150506413

GASKET



To Suit Glass mm	Length m	Code
8 - 11	1	189903811C
11.5 - 13.5	1	189903115135C
15	1	18990315C
16 - 17.5	1	18990316175C
19	1	18990319C
20 - 21.5	1	18990320215C

Rubber.



FOR OUR RANGE OF  
GLASS PANELS  
SEE PAGES 10, 11 & 37.

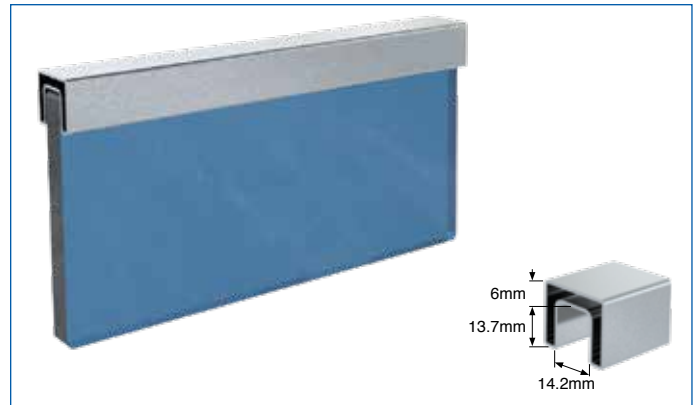
# SQUARE MINI TOP RAIL SYSTEM

25 x 21mm PROFILE



## FEATURES:

- Designed for 10 - 12mm glass with rubber gasket
- No welding required
- Reduced visual impact of top rail
- Straight joiner slides into the top rail for a neat joint
- Flush fit fittings
- All products are satin polish finish stainless steel Grade 316



**SPLIT TUBE**



Length m	Code
3.0	18067053S25
5.8	1806705S25

**GASKET**



To Suit Glass mm	Length m	Code
10	1	1899031010

Rubber.

**GASKET**



To Suit Glass mm	Length m	Code
12	1	1899031012

Rubber.

**ADJUSTABLE CORNER**



Code
1806418S25

**90° JOINER**



Code
1806411S25

**ADJUSTABLE JOINER**



Code
1806416S25

**END CAP**



Code
1806413S25

**WALL BRACKET**



Code
1806415S25

**JOINER**



Code
1806412S25

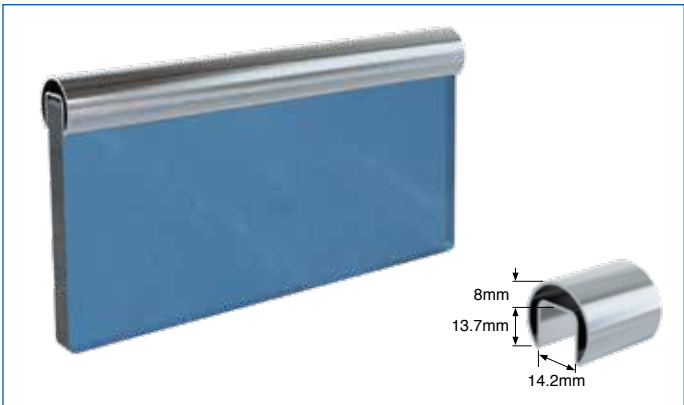
# ROUND MINI TOP RAIL SYSTEM

Ø 25mm PROFILE



**FEATURES:**

- Designed for 10 - 12mm glass with rubber gasket
- No welding required
- Reduced visual impact of top rail
- Straight joiner slides into the top rail for a neat joint
- Flush fit fittings
- All products are satin polish finish stainless steel Grade 316



**SPLIT TUBE**



Length m	Code
3.0	18067053A
5.8	1806705A

**GASKET**



To Suit Glass mm	Length m	Code
10	1	1899031010

Rubber.

**GASKET**



To Suit Glass mm	Length m	Code
12	1	1899031012

Rubber.

**90° JOINER**



Code
1806411A

**ADJUSTABLE CORNER**



Code
1806418A

**ADJUSTABLE JOINER**



Code
1806416A

**END CAP**



Code
1806413A

**WALL BRACKET**



Code
1806415A

**JOINER**



Code
1806412A

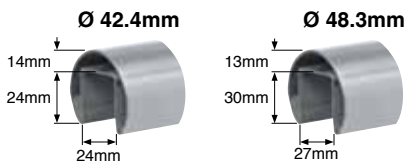
# ROUND TOP RAIL SYSTEM

Ø 42.4 & 48.3mm PROFILES



Round top rail system offers a stylish solution to the top of any glass balustrade and also provides a visual break. We can shape to match if you're planning radiused glass in your design.

## SPLIT TUBE



## GASKET



## 90° HORIZONTAL CORNER



Ø mm	3m Length Code	6m Length Code
42.4	18047053C	1804705C
48.3	18047053D	1804705D
42.4	18067053C	1806705C
48.3	18067053D	1806705D

1.5mm wall thickness.

To Suit Glass mm	Ø 42.4mm Code	Ø 48.3mm Code
8 - 11	189903811C	189903811D
11.5 - 13.5	189903115135C	189903115135D
15	18990315C	18990315D
16 - 17.5	18990316175C	18990316175D
19	18990319C	18990319D
20 - 21.5	18990320215C	18990320215D

Ø mm	Code
42.4	1804411C
48.3	1804411D
42.4	1806411C
48.3	1806411D

## ADJUSTABLE CORNER



Ø mm	Code
42.4	1806418C

## 25 - 55° DOWNWARDS ADJUSTABLE CONNECTOR



Ø mm	Code
42.4	1804416C
48.3	1804416D
42.4	1806416C
48.3	1806416D

## 25 - 55° UPWARDS ADJUSTABLE CONNECTOR



Ø mm	Code
42.4	1804417C
48.3	1804417D
42.4	1806417C
48.3	1806417D

## 90° VERTICAL CORNER



Ø mm	Code
42.4	1804410C
48.3	1804410D
42.4	1806410C
48.3	1806410D

## END CAP



Ø mm	Code
42.4	1804413C
48.3	1804413D
42.4	1806413C
48.3	1806413D

## WALL/FLOOR FLANGE



Ø mm	Code
42.4	1804415C
48.3	1804415D
42.4	1806415C
48.3	1806415D

## TUBE ADAPTOR



Ø mm	Code
42.4	1804414C
48.3	1804414D
48.3	1806414D

## IN-LINE CONNECTOR



Ø mm	Code
42.4	1804412C
48.3	1804412D
42.4	1806412C
48.3	1806412D

FOR OUR MIRROR FINISH ROUND TOP RAIL SYSTEM SEE PAGE 75.

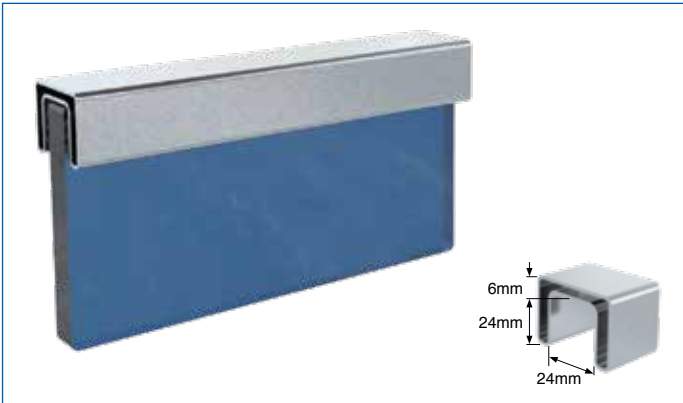
# RECTANGULAR TOP RAIL SYSTEM

40 x 30mm PROFILE



**FEATURES:**

- Designed for 8 - 21.5mm glass with rubber gasket
- No welding required
- Joiner simply slides into the top rail for a neat joint
- Flush fit fittings
- Split tube is stainless steel Grade 316 with a satin polish finish
- Components are Duplex 2205 with a satin polish finish



**SPLIT TUBE**



Length m	Code
3	180670534030
6	18067054030

**GASKET**



To Suit Glass mm	Length m	Code
8 - 11	1	189903811C
11.5 - 13.5	1	189903115135C
15	1	18990315C

Rubber.

To Suit Glass mm	Length m	Code
16 - 17.5	1	18990316175C
19	1	18990319C
20 - 21.5	1	18990320215C

Rubber.

**90° JOINER**



Code
18224114030

**ADJUSTABLE CORNER**

90° - 180° left or right



Code
18224184030

**ADJUSTABLE JOINER**

45° up & 90° down



Code
18224164030

**END CAP**



Code
18224134030

**WALL BRACKET**



Code
18224154030

**JOINER**



Code
18224124030

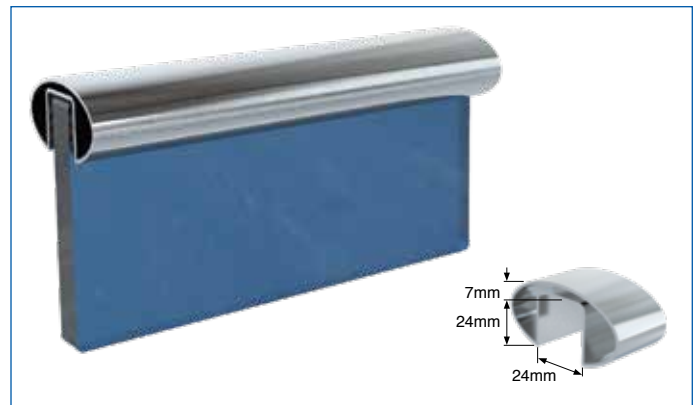
# OVAL TOP RAIL SYSTEM

60 x 30mm PROFILE



## FEATURES:

- Designed for 8 - 21.5mm glass with rubber gasket
- No welding required
- Joiner simply slides into the top rail for a neat joint
- Flush fit fittings
- Split tube is stainless steel Grade 316 with a satin polish finish
- Components are Duplex 2205 with a satin polish finish



## SPLIT TUBE



Length m	Code
3	180670536030
6	18067056030

## GASKET



To Suit Glass mm	Length m	Code
8 - 11	1	189903811C
11.5 - 13.5	1	189903115135C
15	1	18990315C

Rubber.

To Suit Glass mm	Length m	Code
16 - 17.5	1	18990316175C
19	1	18990319C
20 - 21.5	1	18990320215C

Rubber.

## 90° JOINER



Code
18224116030

## ADJUSTABLE CORNER

45° left or right



Code
18224186030

## ADJUSTABLE JOINER

45° up or down



Code
18224166030

## END CAP



Code
18224136030

## WALL BRACKET



Code
18224156030

## JOINER



Code
18224126030



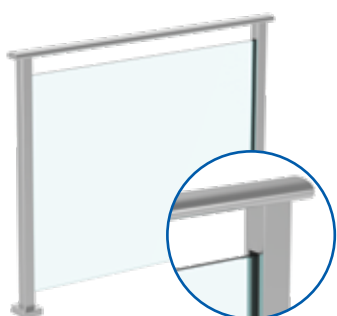
Marano® Edge and Curve are a range of innovative railing systems designed to be fully modular. The pre-assembled aluminium posts have a stunning satin anodised finish and are available in square and round profiles ready to install. Fully engineered to meet the requirements of most applications, the systems can be installed with or without a top rail to provide an economical solution for a post and glass panel design. Each system can be fully fitted using basic equipment.

### FEATURES:

- Fully assembled posts
- Aluminium & satin anodised finish
- To suit 10mm glass
- Suitable for indoor & outdoor installations
- Quick, safe & easy installation
- Gap between handrail & glass is 80mm
- Bottom edge of glass to floor is 90mm
- Tested to 1.2m posts centres
- Posts available in bolt-down & side-fix
- Posts are supplied complete

#### SQUARE POSTS WITH HANDRAIL

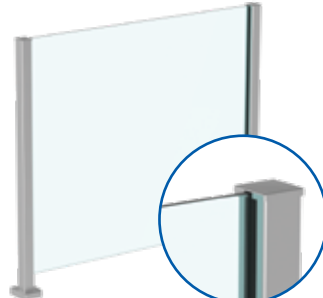
Railing height 1125mm



- Glass panel is H 930 x W 1174mm

#### SQUARE POSTS WITHOUT HANDRAIL

Post height to 1100mm



- Glass panel is H 1010 x W 1174mm
- You will need to buy blanking caps or notched post caps to suit design

#### NOW AVAILABLE IN 3 NEW COLOURS



Anthracite RAL 7016    Black RAL 9005    White RAL 9010

**WHEN USING STANDARD GLASS WIDTH 1174mm YOU WILL HAVE APPROXIMATELY 13mm BETWEEN POST CENTRE AND GLASS FOR EASE OF INSTALLATION.**



Image shows a square post using a rectangular handrail.



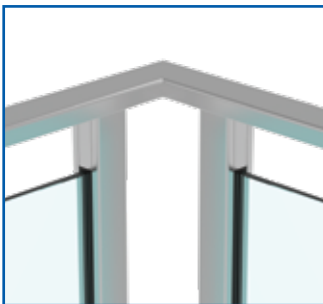
Image shows a round post using an oval handrail.

**RECTANGULAR & OVAL HANDRAILS CAN BE USED WITH BOTH SQUARE & ROUND POSTS. FOR HANDRAILS SEE PAGE 31.**



### HOW TO TACKLE CORNERS

#### MITRED CUT WITHOUT POST



#### MITRED CUT WITH POST

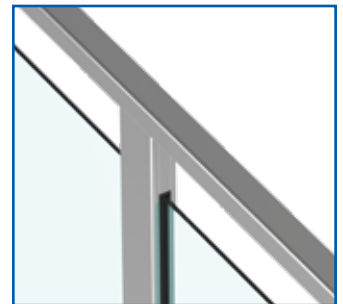


### HOW TO TACKLE GRADIENTS

#### MITRED CUT HANDRAIL



#### MITRED CUT POST



### FITTING GLASS

Fitting glass is easy with our 4 step guide.



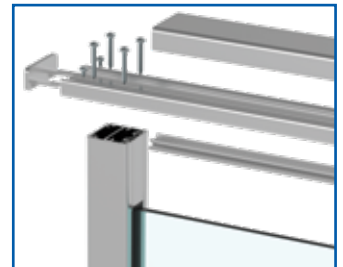
Fit back rubber to the post.



Slide glass in from the top between posts.



Fit glass retaining rubber, top packer & infill.



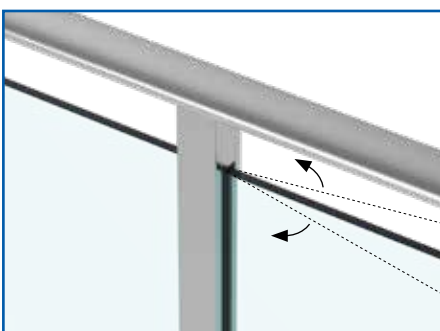
Fit the handrail (using the location jig, see pages, 30 & 32). Slide on the handrail under-cap and top handrail.

When fitting glass make sure the back rubber is fitted to the post, then install retaining rubber once glass is in place.



**INSTALLATION GUIDE & VIDEO ARE AVAILABLE ON OUR WEBSITE.**

### POST HEIGHT



- Posts can be cut down if a shorter height is needed
- Capping will slide back in to give 80mm gap from glass to rail
- Allows 8 - 10° glass angle each side with rubbers

Spray soapy water on rubbers to help slide glass into rubber locators.



**FOR GLASS PANELS SEE PAGE 33.**

## EDGE

## POSTS

### BOLT-DOWN END

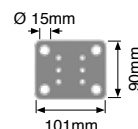


Also available in black, white & anthracite

Height mm	□ mm	Code
1000	50	6805791S501000

Supplied with packers, rubbers, handrail screws and base plate cover.

### BOLT-DOWN MID



Height mm	□ mm	Code
1000	50	6805792S501000

Supplied with packers, rubbers, handrail screws and base plate cover.

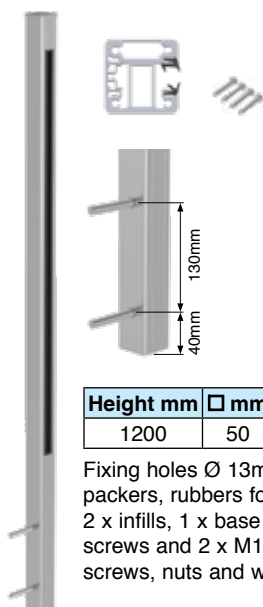
### BOLT-DOWN CORNER



Height mm	□ mm	Code
1000	50	6805793S501000

Supplied with packers, rubbers, handrail screws and base plate cover.

### SIDE-FIX END

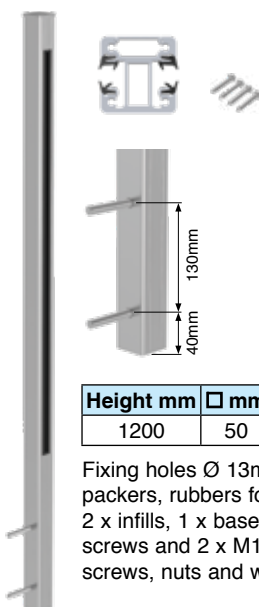


Also available in black, white & anthracite

Height mm	□ mm	Code
1200	50	6805794S501200

Fixing holes Ø 13mm. Supplied with packers, rubbers for 10.76mm glass, 2 x infills, 1 x base cover, handrail screws and 2 x M12 x 120mm fixing screws, nuts and washers.

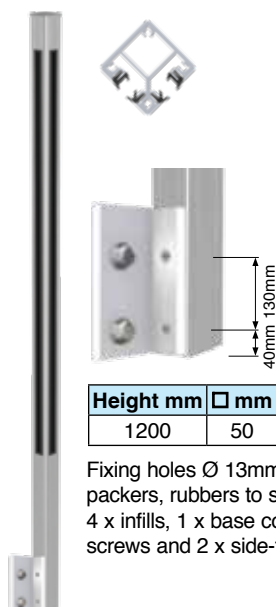
### SIDE-FIX MID



Height mm	□ mm	Code
1200	50	6805795S501200

Fixing holes Ø 13mm. Supplied with packers, rubbers for 10.76mm glass, 2 x infills, 1 x base cover, handrail screws and 2 x M12 x 120mm fixing screws, nuts and washers.

### SIDE-FIX CORNER



Height mm	□ mm	Code
1200	50	6805796S501200

Fixing holes Ø 13mm. Supplied with packers, rubbers to suit 10.76mm glass, 4 x infills, 1 x base cover, handrail screws and 2 x side-fix brackets.

## POST BLANKING CAPS

### END



Code
6805BCES50

### MID



Code
6805BCMS50

### CORNER



Code
6805BCCS50

### END CAP



Code
6805ECES50

### MID CAP



Code
6805ECMS50

### CORNER CAP



Code
6805ECCS50

## NOTCHED POST CAPS - brings post height to 1100mm

## HANDRAIL/POST LOCATION JIGS

### END/MID JIG

For drilling through handrail

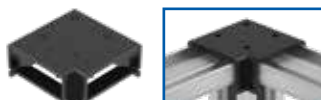


Code
6899732J

Plastic.

### CORNER JIG

For drilling through handrail



Code
6899733J

Plastic.

## BRACKET

### 90° CORNER

For use with side-fix posts

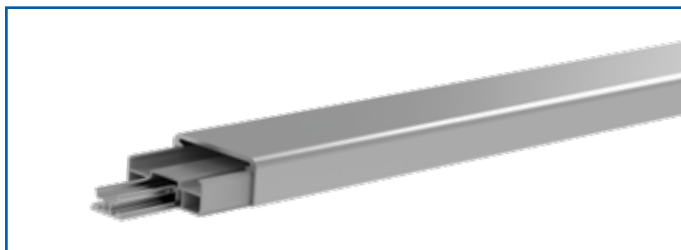


Code
680525350

Supplied with screws.

## HANDRAILS

## RECTANGULAR HANDRAIL



Length m	mm	Code
3.0	62 x 25	680570536225
5.8	60 x 25	68057056225

## OVAL HANDRAIL

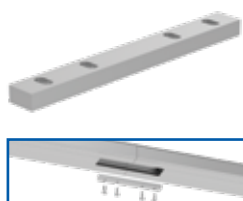


Length m	mm	Code
3.0	72 x 27	680570537227
5.8	72 x 27	68057057227

## HANDRAIL CONNECTORS

## IN-LINE CONNECTOR

For rectangular &amp; oval handrails

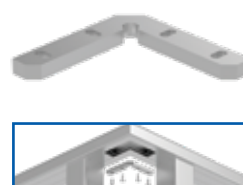


Code
6805412i

Internal fix. Supplied with four screws.

## 90° CORNER CONNECTOR

For rectangular &amp; oval handrails



Code
6805411i

Internal fix. Supplied with four screws.

## ADJUSTABLE HANDRAIL JOINERS

## VERTICAL - 35° UP/80° DOWN

For use with rectangular handrail



Code
68054166225

Supplied with four screws.

## HORIZONTAL +/- 80°

For use with rectangular handrail



Code
68054186225

Supplied with two screws.

## VERTICAL - 35° UP/80° DOWN

For use with oval handrail



Code
68054167227

Supplied with four screws.

## HORIZONTAL +/- 80°

For use with oval handrail



Code
68054187227

Supplied with four screws.

## HANDRAIL END CAPS

## END CAP

For use with rectangular handrail



Code
68054136225

Supplied with two screws.

## WALL BRACKET

For use with rectangular handrail



Code
68054156225

Supplied with four screws.

## END CAP

For use with oval handrail



Code
68054137227

Supplied with two screws.

## WALL BRACKET

For use with oval handrail



Code
68054157227

Supplied with four screws.

Product	Code
Rubber gasket set to suit 8.76mm glass H 6000mm	68RG6000876
Rubber gasket set to suit 10.76mm glass H 6000mm	68RG60001076
Eraser for cleaning marks and scratches on anodising	6899AE01
Assembly tool. For rubber sealing strips	6899RR01

For corners with no post use a 90° corner connector to strengthen the handrail.

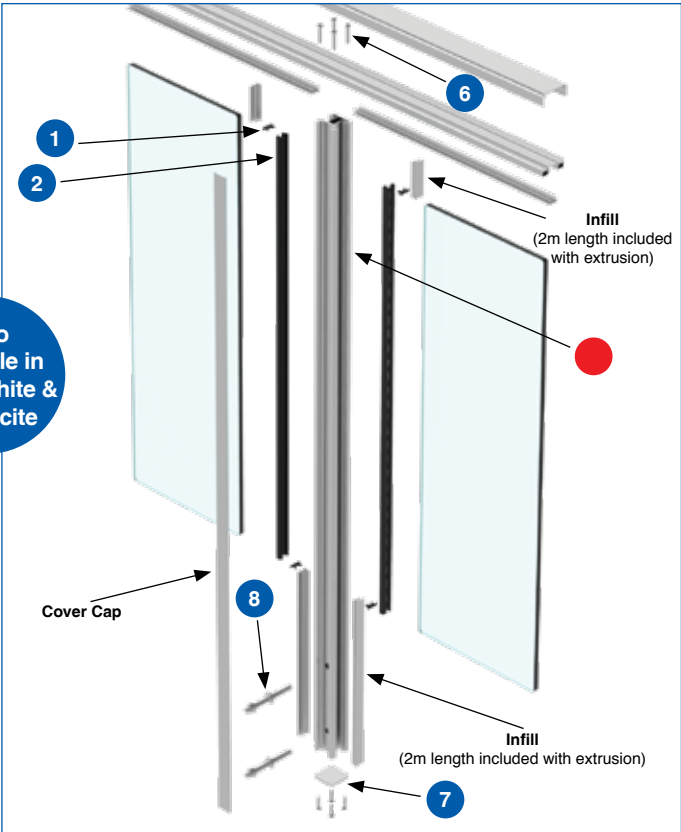
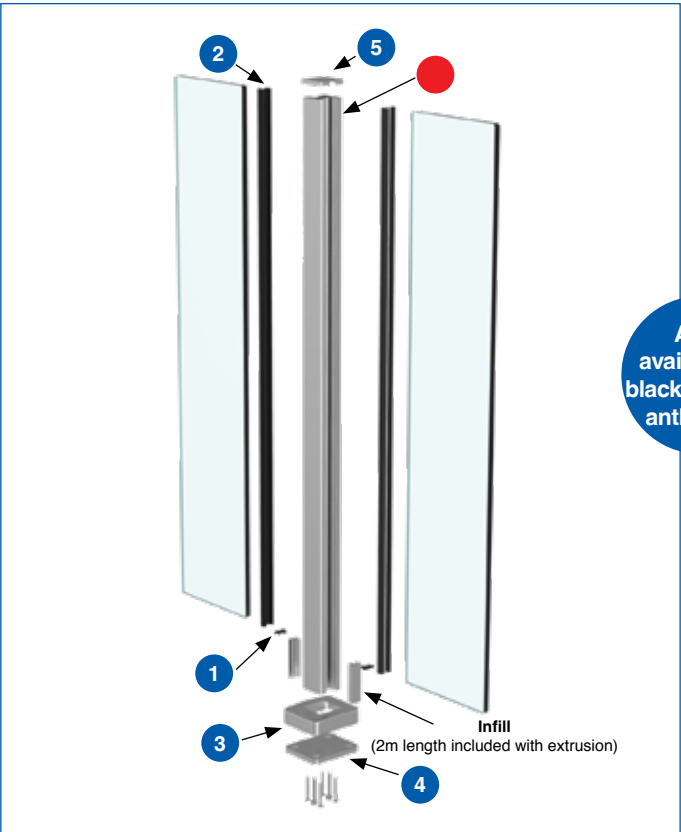


**IF NO HANDRAIL IS REQUIRED, 1100mm RUBBERS WILL NEED TO BE ORDERED.**

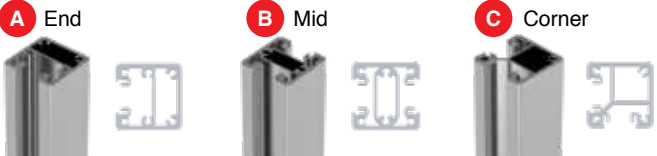
# MARANO® MAKE YOUR OWN POSTS

## EDGE

Create your own posts, for any height, using our individual components below.



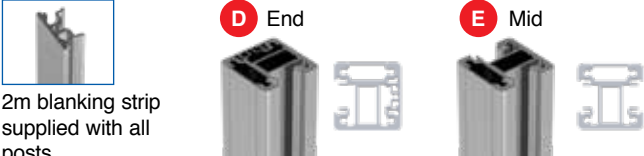
### CUT TO SIZE BOLT-DOWN EXTRUSION



Post	Height m	□ mm	Code
End	6	50	6805691S50
Mid	6	50	6805692S50
Corner	6	50	6805693S50

Supplied with 2m infill. Please order rubber gaskets separately.

### CUT TO SIZE SIDE-FIX EXTRUSION



Post	Height m	□ mm	Code
End	6	50	6805694S50
Mid	6	50	6805695S50

Supplied with 2m infill and 6m cover cap. Please order rubber gaskets separately.

## CHOOSE FROM THE COMPONENTS BELOW TO SUIT YOUR EXACT REQUIREMENTS.

### PACKERS



Code
68PP01

Pack of 10. Plastic.

### RUBBER GASKETS



Length m	Code
1.1	68RG1100
6.0	68RG6000

Sold in pairs, 1 x back rubber & 1 x glass retaining rubber.

### COVER PLATE

Use with bolt-down base plate



Code
680520850

### BASE PLATE

Use with bolt-down posts



Code
680520750

Supplied with 6 fixings to attach to extrusion.

### POST CAP



Code
6805PC01

### TOP RAIL FIXINGS



Code
68HF01

Pack of 4. For attaching handrail to post.

### POST BASE COVER

Use with side-fix posts



Code
6805PBC01

Supplied with 4 fixings.

### POST FIXINGS

Use with side-fix posts



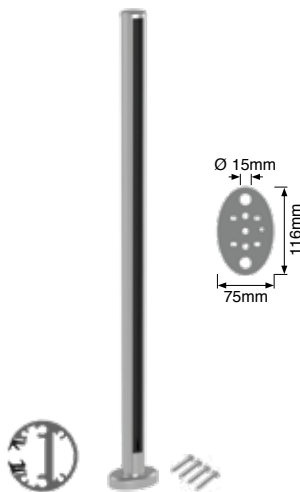
Code
68PF01

Sold in pairs.



### POSTS

#### BOLT-DOWN END



Height mm	Ø mm	Code
1100	54	6805791R54

Supplied with post caps, packers, rubbers, handrail screws and base plate cover.

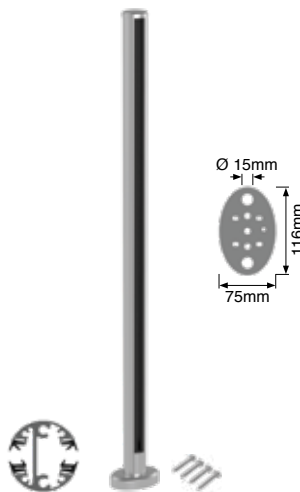
#### BASE PLATE COVER



Code
680520854

To suit Ø 54mm round post.

#### BOLT-DOWN MID



Height mm	Ø mm	Code
1100	54	6805792R54

Supplied with post caps, packers, rubbers, handrail screws and base plate cover.

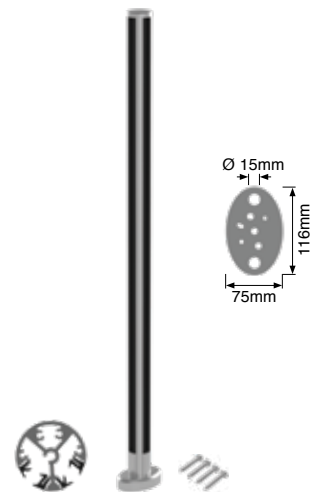
#### CLEAR FLOAT TOUGHENED GLASS PANEL For use without handrail



Height mm	Width mm	Code
1010	1174	18551010101174

Plastic.

#### BOLT-DOWN CORNER



Height mm	Ø mm	Code
1100	54	6805793R54

Supplied with post caps, packers, rubbers, handrail screws and base plate cover.

#### CLEAR FLOAT TOUGHENED GLASS PANEL For use with Marano top rails



Height mm	Width mm	Code
930	1174	1855109301174

Plastic.

### HANDRAIL/POST LOCATION JIGS

#### END/MID JIG

For drilling through handrail

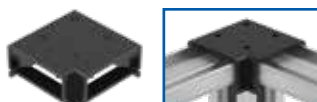


Code
6899732J54

Plastic.

#### CORNER JIG

For drilling through handrail



Code
6899733J54

Plastic.

### FIXINGS

#### CONCRETE BOLT

Self-tapping



Size mm	Code
M12 x 100	5002HCS12100

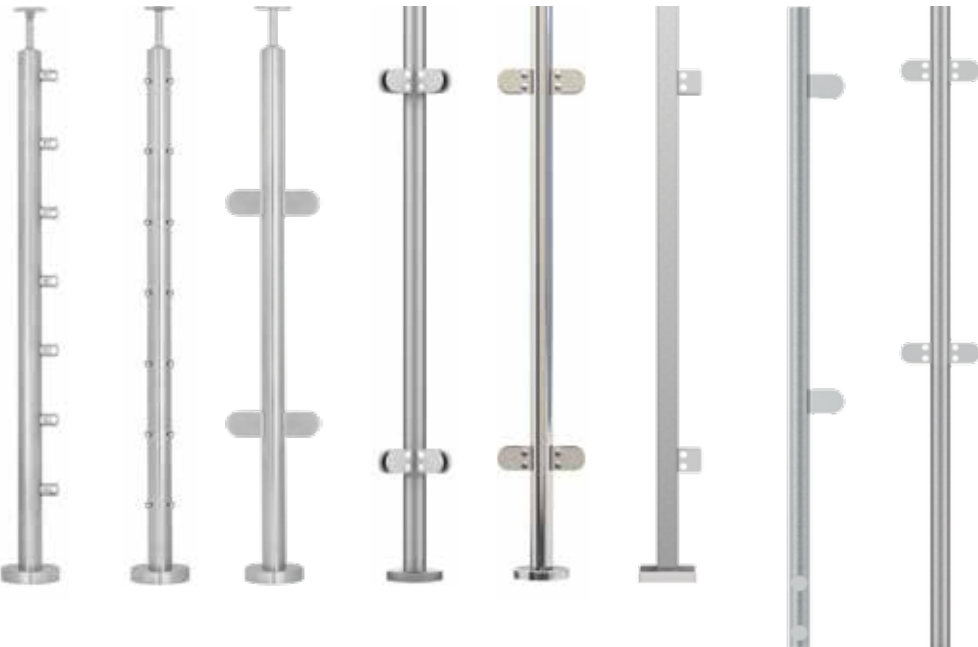
For cracked and non-cracked concrete.

FOR SQUARE POSTS SEE PAGE 30.

# PRE-ASSEMBLED POSTS



Save a huge amount of time and money with our extensive range of pre-assembled posts, supplied from stock. They are all tested to BS 6180. No drilling of tubes, no bolting on of glass clamps and no welding of base plates required. We've done the work for you!

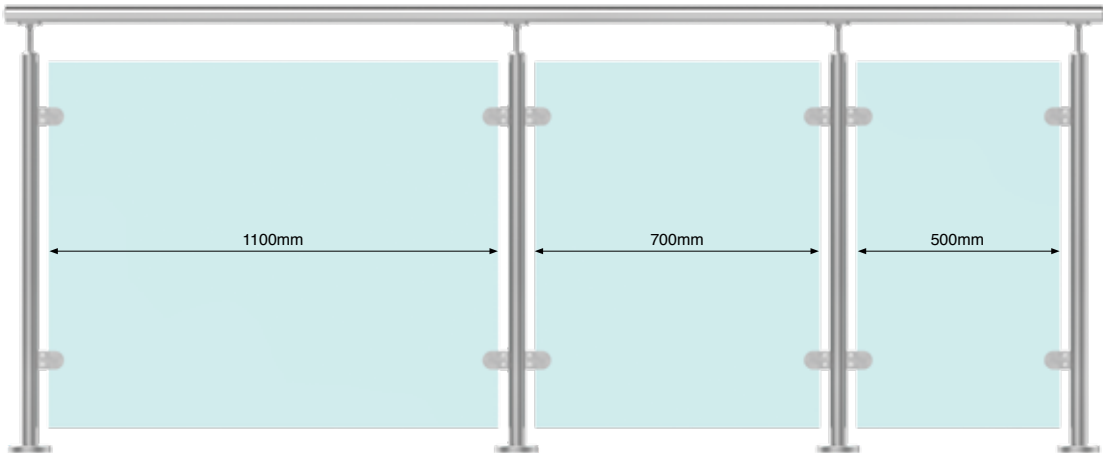


## STRAIGHT OUT OF THE BOX AND READY TO INSTALL:

- Ø 42.4 & 48.3mm round posts
- 40 x 40mm square posts
- Strand wire rope posts
- Crossbar holder posts
- Satin & mirror polish
- Stainless steel Grade 304 & 316

# STANDARD GLASS PANELS

We stock a large range of widths of 10mm toughened glass panels in 100mm increments to make your installations even quicker, easier and more cost effective. See page 37 for our full range.

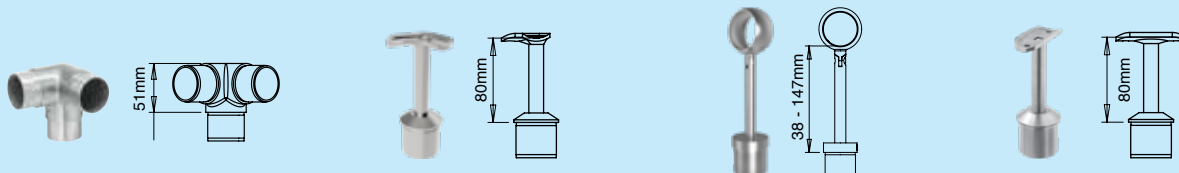


# PRE-ASSEMBLED POSTS

## CHOOSE YOUR OWN POST TOP

Our pre-assembled glass clamp posts are supplied without a saddle or post cap, so you can choose the exact design to suit your requirement. The choice of tops available allows you to pick and mix from a huge range of options that will allow you to end up with your very own bespoke solution.

### HERE ARE SOME USEFUL DIMENSIONS TO HELP DESIGN YOUR INSTALLATION..

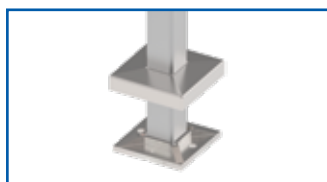


ALL OUR POSTS ARE DESIGNED TO GIVE AN INSTALLATION HEIGHT OF 1100mm OR MORE.

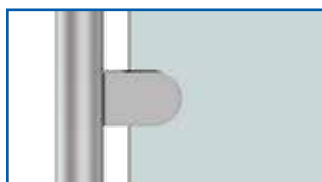
FOR FULL TECHNICAL DRAWINGS VISIT OUR WEBSITE. IF YOU DON'T SEE WHAT YOU NEED PLEASE ASK.



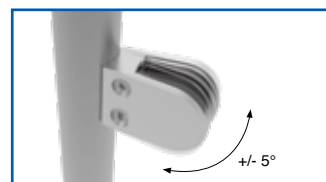
Welded base fitting complete with rubber 'O' ring and cover.



Welded base fitting complete with cover.

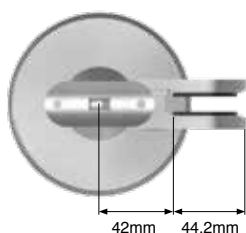


Glass clamp for 10mm glass (8 and 12mm rubbers available).

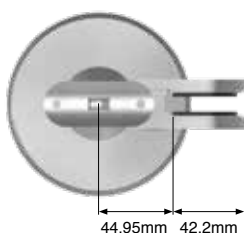


Variable fixing bolt.

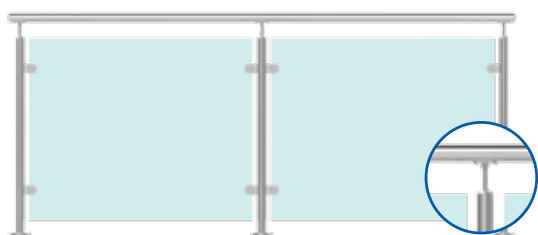
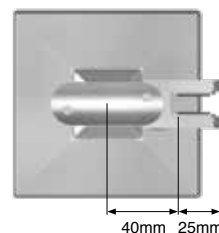
#### Ø 42.4mm POSTS



#### Ø 48.3mm POSTS

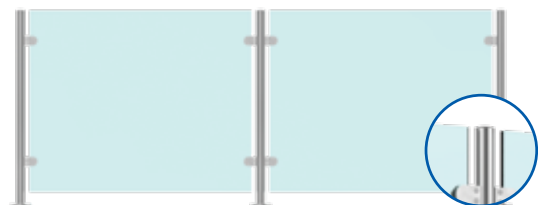


#### 40 x 40mm POSTS



### TIMELESS - STAINLESS STEEL POSTS AND GLASS PANELS WITH HANDRAIL

Our Timeless post systems that use 10mm glass panels and have a top rail, are all tested to BS6180 loading requirements.



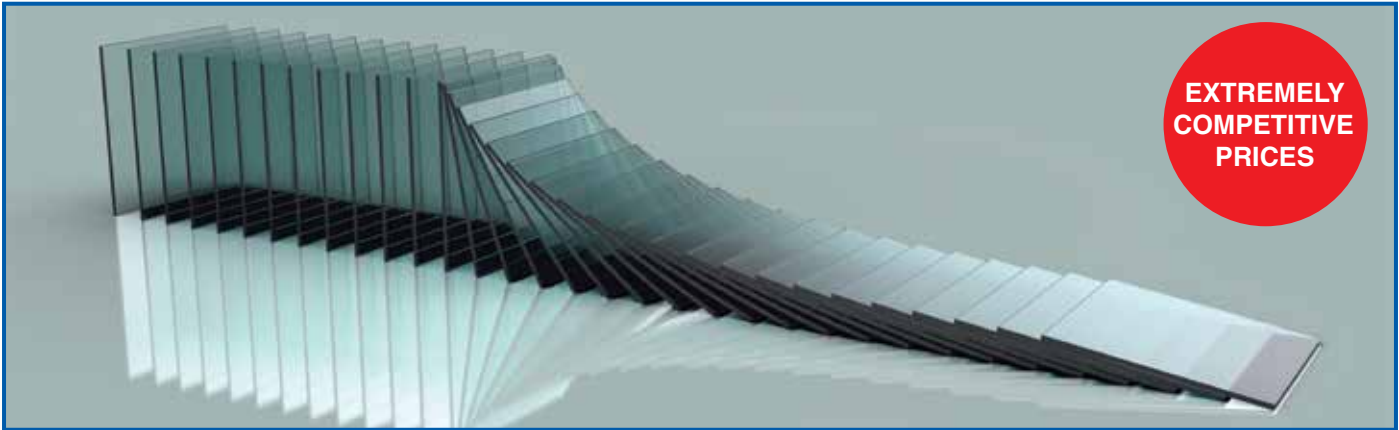
### CONTEMPLATION – STAINLESS STEEL POSTS AND GLASS PANELS WITHOUT HANDRAIL

Our Contemplation post systems that use 10mm glass panels and have no top rail, will not pass BS6180 loading requirements and should therefore only be used as demarcation, or in areas where the fall is not more than 600mm.

FOR OUR STANDARD STOCKED GLASS PANELS SEE PAGES 10 & 37.

# MADE TO ORDER GLASS

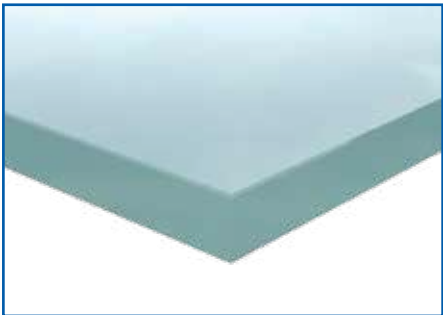
## SQUARE METRE PANELS



Our custom sized per square metre glass panels are polished on all edges and come with docked corners for safety and aesthetic reasons. Glass can be supplied with radiused corners, shaped, with cut-outs and drilled at extra cost. A range of coloured glass, etched glass and self-clean coating is also available. The current meterage rates can be checked online using the following codes and we can then prepare a detailed quote to meet your exact requirements. You will need to add 30% to the meterage price for shapes and cut-outs.

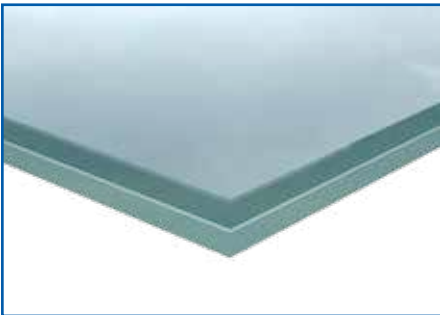
Consult with local building authorities and structural engineers to ensure correct glass specifications and fixings are used to achieve the required loadings. Where possible we have tested our systems and individual test reports are available online. For further information on the classification of building occupancy & glass loadings, visit our website.

### TOUGHENED GLASS



Thickness mm	Code
8	185508M
10	185510M
12	185512M
15	185515M
19	185519M
25	185525M

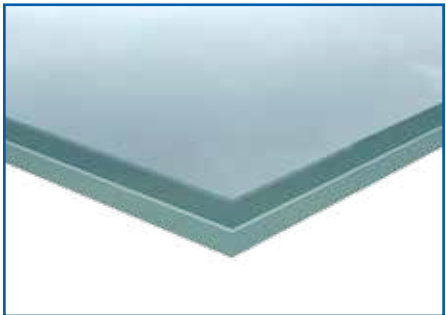
### TOUGHENED LAMINATED GLASS



Thickness mm	Code
11.52	1856115M
13.52	1856135M
17.50	1856175M
21.50	1856215M
25.50	1856255M

### SENTRYGLAS®

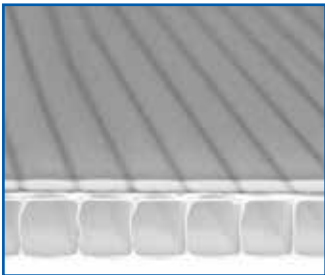
Ionoplast interlayer toughened glass



Thickness mm	Code
12.89	18571289M
16.89	18571689M
20.89	18572089M
25.50	1857255M

Up to 5 times stronger and 100 times stiffer than conventional interlayers.

## TEMPLATING SHEETS



We can provide suitable templating material that can be cut to suit any special shapes on site. This is sent to our factory for production to match the template exactly, using modern imaging scanning technology to duplicate your design. Price and availability for bespoke panels are available on application.

Height mm	Width mm	Thickness mm	Code
2440	1220	4	185900201

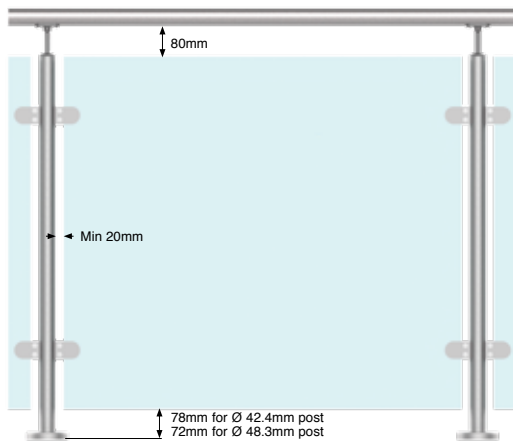
FOR UP TO DATE  
PRICES ON  
BESPOKE SIZES,  
HOLES OR SHAPES  
CONTACT US NOW.



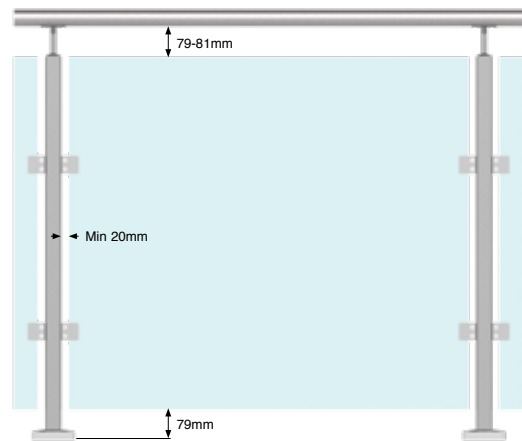
# STANDARD GLASS PANELS

## STANDARD GLASS PANELS FOR TIMELESS & CONTEMPLATION PRE-ASSEMBLED POSTS

### TIMELESS - ROUND POSTS



### TIMELESS - SQUARE POSTS



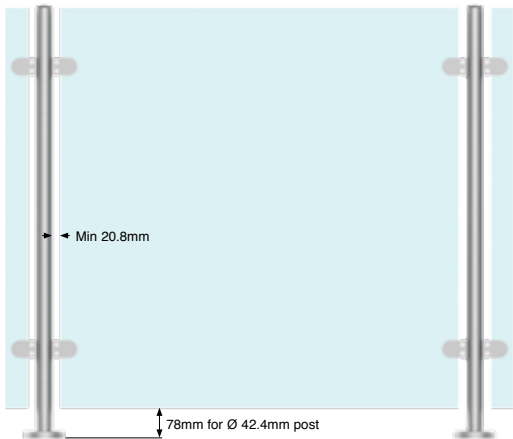
### TIMELESS - GLASS PANELS



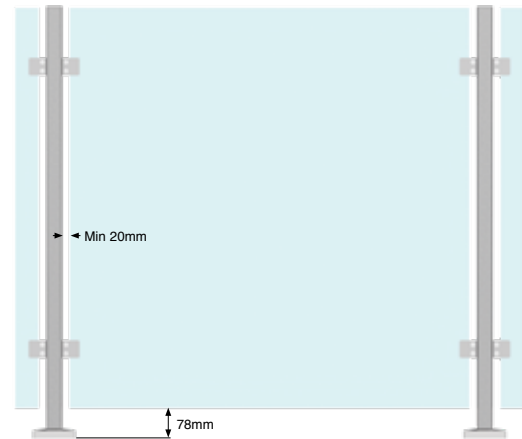
Thickness mm	Height mm	Width mm	Minimum* Post Centres For			Code
			Ø 42.4mm Post	Ø 48.3mm Post	□ 40mm Post	
10	900	100	184	190	180	185510100900
10	900	200	284	290	280	185510200900
10	900	300	384	390	380	185510300900
10	900	400	484	490	480	185510400900
10	900	500	584	590	580	185510500900
10	900	600	684	690	680	185510600900
10	900	700	784	790	780	185510700900
10	900	800	884	890	880	185510800900
10	900	900	984	990	980	185510900900
10	900	1000	1084	1090	1080	1855101000900
10	900	1100	1184	1190	1180	1855101100900

\*Minimum only applies to round posts, square posts are fixed centres.

### CONTEMPLATION - ROUND POSTS



### CONTEMPLATION - SQUARE POSTS



### CONTEMPLATION - GLASS PANELS



Thickness mm	Height mm	Width mm	Minimum* Post Centres For			Code
			Ø 42.4mm Post	Ø 48.3mm Post	□ 40mm Post	
10	1024	100	184	190	180	1855101001024
10	1024	200	284	290	280	1855102001024
10	1024	300	384	390	380	1855103001024
10	1024	400	484	490	480	1855104001024
10	1024	500	584	590	580	1855105001024
10	1024	600	684	690	680	1855106001024
10	1024	700	784	790	780	1855107001024
10	1024	800	884	890	880	1855108001024
10	1024	900	984	990	980	1855109001024
10	1024	1000	1084	1090	1080	18551010001024
10	1024	1100	1184	1190	1180	18551011001024

\*Minimum only applies to round posts, square posts are fixed centres.

# TIMELESS

## BOLT-DOWN ROUND POST - SATIN FINISH



### CHOOSE YOUR POST & TOP

END POST

MID POST

CORNER POST

Ø 42.4mm POST  
BASE PLATE

Ø 10.5mm  
Ø 6.5mm  
Ø 101mm

Ø 48.3mm POST  
BASE PLATE

Ø 10.5mm  
Ø 6.5mm  
Ø 116mm

Ø mm	A mm	Code
42.4	978	1804791C
48.3	972	1804791D
42.4	978	1806791C
48.3	972	1806791D

Dim A is post only with no top.  
Top fitting not included.

Ø mm	A mm	Code
42.4	978	1804792C
48.3	972	1804792D
42.4	978	1806792C
48.3	972	1806792D

Dim A is post only with no top.  
Top fitting not included.

Ø mm	A mm	Code
42.4	978	1804793C
48.3	972	1804793D
42.4	978	1806793C
48.3	972	1806793D

Dim A is post only with no top.  
Top fitting not included.

For our full range of tube see page 56.

### SELECT THE HANDRAIL SADDLE FOR USE IN THE TOP OF YOUR POST.

For our full range of saddles, see from page 59.

### HEX HEAD WITH FLANGE



Ø mm	Length mm	Code
M8	75	5002HCS875

### MULTI-FIX HEX HEAD BOLT



Ø mm	Length mm	Code
M10	75	5002MF10875

### HIGH STRENGTH RETAINER GLUE

For use with tube fittings



ml	Code
50	1899007638

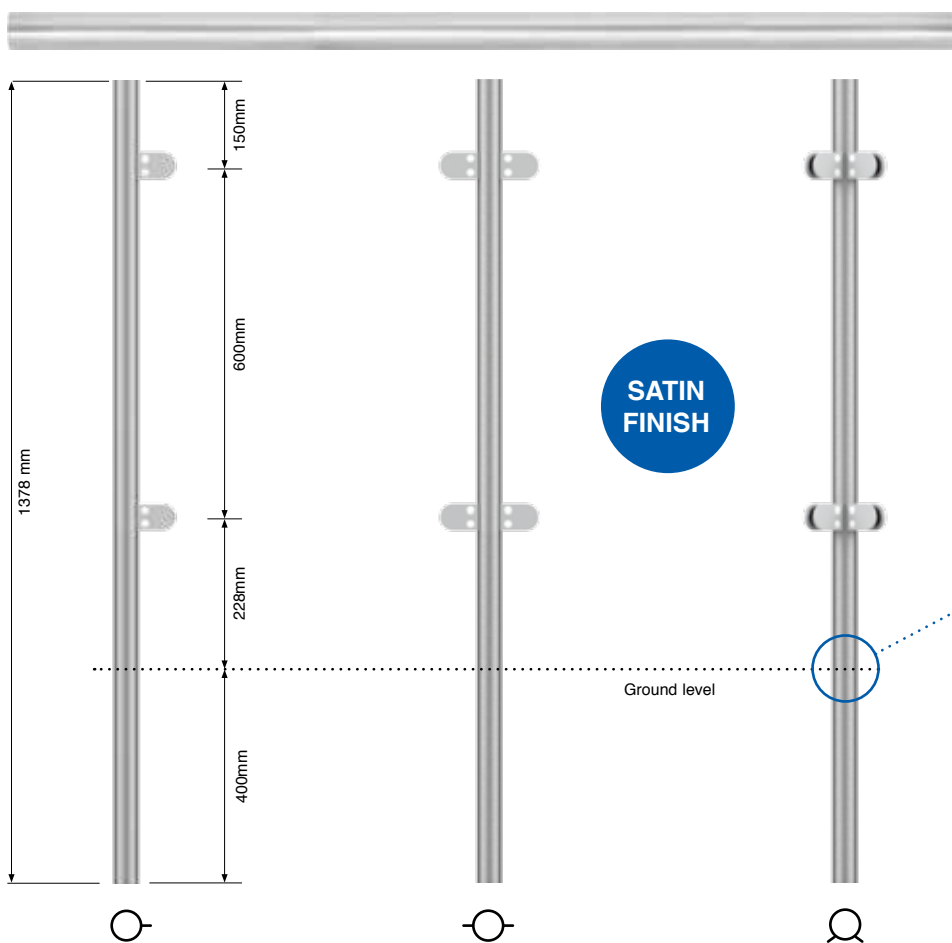


### CHOOSE YOUR POST & TOP

#### END POST

#### MID POST

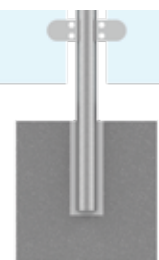
#### CORNER POST



#### CONCRETE-IN



#### CORE DRILL



Ø mm	Code
42.4	<b>1806781C</b>

Height of post only with no top.  
Top fitting not included.

#### DONUT COVER PLATE



Ø mm	Code
42.4	<b>1806247C</b>

Fit at time of installation. For  
silicone use code: **189901201**.

Ø mm	Code
42.4	<b>1806782C</b>

Height of post only with no top.  
Top fitting not included.

#### RETRO-FIT COVER PLATE



Ø mm	Code
42.4	<b>1806248C</b>

Retro-fitted after installation. For  
silicone use code: **189901201**.

Ø mm	Code
42.4	<b>1806783C</b>

Height of post only with no top.  
Top fitting not included.

#### COVER CAP



Ø mm	Code
42.4	<b>1806208C</b>

Fit at time of installation. For  
silicone use code: **189901201**.



These posts can be used with  
our side-fix fascia brackets.  
See our range on page 62.

# TIMELESS

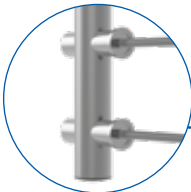
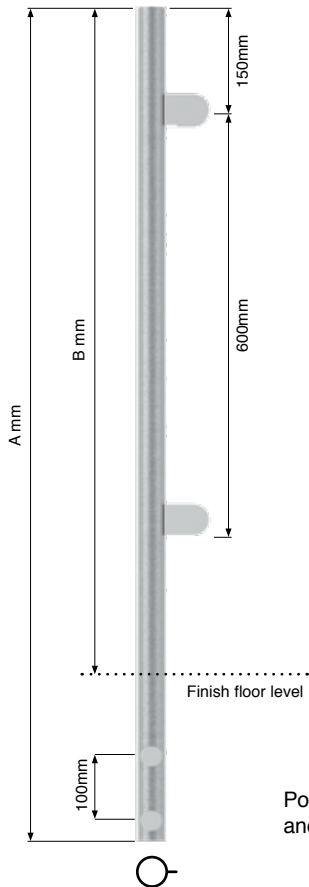
## SIDE-FIX ROUND POST - SATIN FINISH



### CHOOSE YOUR POST & TOP

#### END POST

#### MID POST



Posts supplied with fascia brackets and end cap for the base of the post.



Two M10 x 200mm threads.



For our full range of tube see page 56.

See handrail fittings for the top of your post on page 59.



When using side-fix posts glass should be drilled & security pins should be used. Code: **189900401** for 8 - 10mm thick glass or code: **189900402** for 12mm thick glass.



Requires a minimum Ø 10mm holes in glass.

Ø mm	A mm	B mm	Code
42.4	1178	978	1806794C
48.3	1172	972	1806794D

Dim A & B is post only with no top. Top fitting not included.

Ø mm	A mm	B mm	Code
42.4	1178	978	1806795C
48.3	1172	972	1806795D

Dim A & B is post only with no top. Top fitting not included.

#### RKER II HYBRID RESIN

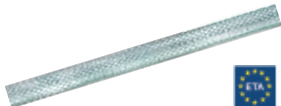


ml	Code
300	50RKER300

Suitable for use in dry and wet substrates and water filled holes

#### WIRE MESH SLEEVE

For use with R Stud



Ø mm	Sleeve Size mm	Code
M10	16 x 1000	50WMS101000



**FOR LOCTITE ADHESIVES & GLUE SEE PAGE 92.**

# CLEANING PRODUCTS

## 3-PART TEA STAINING CLEANER KIT

Keeps stainless handrail & fittings in top condition long after installation



Description	ml	Code
Demi water Spray	500	1899009DW
Stainless Steel Polish Spray	400	1899009SSP
R2U Stainless Steel Cleaner 500 ml Spray	500	1899009SSC

## PICKLING GEL

Helps remove rust, dirt and grime from stainless steel



kg	Code
2	18990094023

## STAINLESS STEEL CLEANER

Degreases & cleans surfaces ready for gluing



ml	Code
400	18990097063

## UNBLOCKING SPRAY



ml	Code
400	2912

Suitable for various hardware.

## STAINLESS CLEANING WIPE

Removes finger & hand marks left during installation



Code
189900901

## POLISHING CLOTHS

For removal of light scratches on stainless tube & fittings



Description	Code
Fine (grey)	189901101
Medium (red)	189901102

## BOND IT GLASS CLEANER

Fast acting all purpose cleaner with non-smear formulation



Litre	Code
1	1859GC1

Use with code: 29RT150.

## LOW LINT TEXTELINE CLOTHS

Pack of 150

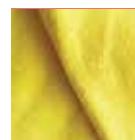


Code
29RT150

Ideal for use with code: 1859GC1.

## MICRO FIBRE CLOTH

Pack of 10



Colour	Size mm	Code
Yellow	400 x 400	29MFC40

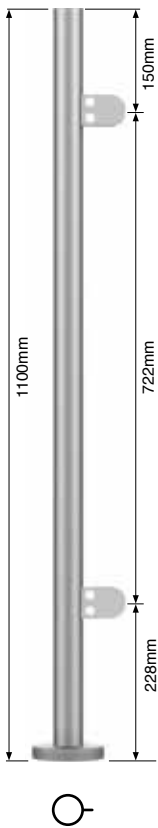
FOR OUR RANGE OF STAINLESS STEEL COMPONENTS SEE FROM PAGE 56.

# CONTEMPLATION

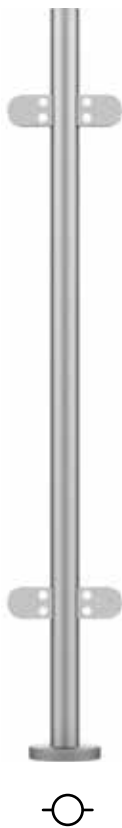
## BOLT-DOWN ROUND POST - SATIN FINISH



END POST



MID POST

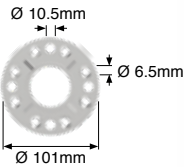


CORNER POST

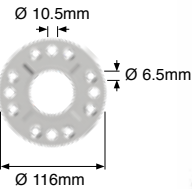


SATIN FINISH

Ø 42.4mm POST  
BASE PLATE



Ø 48.3mm POST  
BASE PLATE



### RANGE OF END CAPS

To be used with bolt-down and concrete-in posts. See page 56.



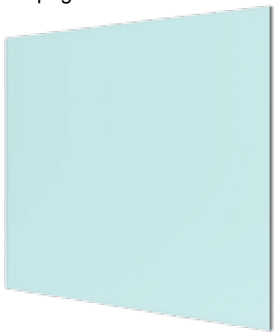
Raised Top



7 Groove Flat Top

### NEW GLASS PANELS

For our full range of standard glass panels to suit our Contemplation range, see page 37.



Ø mm	Code
42.4	1806761C
48.3	1806761D

Top fitting not included.

Ø mm	Code
42.4	1806762C
48.3	1806762D

Top fitting not included.

Ø mm	Code
42.4	1806763C
48.3	1806763D

Top fitting not included.

### CONCRETE FIXINGS

#### HEX HEAD WITH FLANGE



#### MULTI-FIX HEX HEAD BOLT



#### HIGH STRENGTH RETAINER GLUE

For use with tube fittings



#### ALLEN KEY

For glass clamps



Ø mm	Length mm	Code
M8	75	5002HCS875

Ø mm	Length mm	Code
M10	75	5002MF10875

ml	Code
50	1899007638

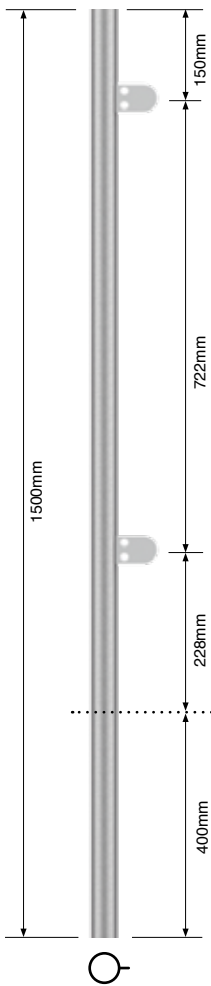
Code
189900606

# CONTEMPLATION

## CONCRETE-IN ROUND POST - SATIN FINISH



END POST



Ø mm	Code
42.4	1806751C

Top fitting not included.

MID POST



Ø mm	Code
42.4	1806752C

Top fitting not included.

CORNER POST

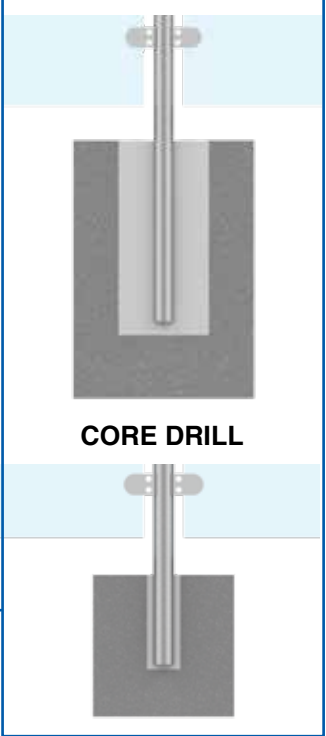


Ø mm	Code
42.4	1806753C

Top fitting not included.

SATIN FINISH

CONCRETE-IN



BALUSTER BRACKETS  
2 HOLE ROUND



Ø mm	Code
42.4	1806212C

For side-fixing posts.

DONUT COVER PLATE



Ø mm	Code
42.4	1806247C

Fit at time of installation. For silicone use code: 189901201.

RETRO-FIT COVER PLATE



Ø mm	Code
42.4	1806248C

Retro-fitted after installation. For silicone use code: 189901201.

COVER CAP



Ø mm	Code
42.4	1806208C

Fit at time of installation. For silicone use code: 189901201.

ADJUSTABLE CORNER  
INTERNAL / EXTERNAL



Ø mm	Code
42.4	1806253C

For side-fixing posts.

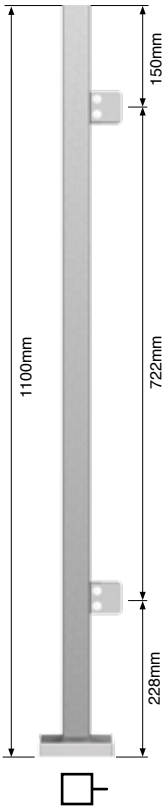
# CONTEMPLATION

## BOLT-DOWN SQUARE POST - SATIN FINISH



WE STOCK A RANGE OF STANDARD 10mm GLASS PANELS IN 100mm INCREMENTS TO REDUCES SUPPLY TIME, SEE PAGE 37.

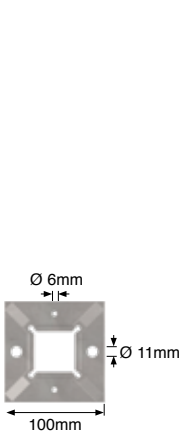
END POST



□ mm	Code
40	1806761S40

Top fitting not included.

MID POST



□ mm	Code
40	1806762S40

Top fitting not included.

CORNER POST



□ mm	Code
40	1806763S40

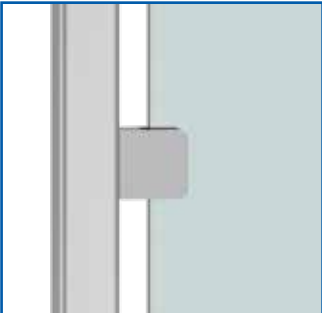
Top fitting not included.

FLAT TOP END CAP



Code: 1806215S40

ALL POSTS HAVE:



Glass clamps for 10mm glass (8mm rubbers available).



Welded base fitting complete with cover.

SATIN FINISH

### CONCRETE FIXINGS

#### HEX HEAD WITH FLANGE



Ø mm	Length mm	Code
M8	75	5002HCS875

#### MULTI-FIX HEX HEAD BOLT



Ø mm	Length mm	Code
M10	75	5002MF10875

#### THROUGH BOLT



Ø mm	Length mm	Code
M8	95	5006TB08100

FOR OUR FULL RANGE OF SQUARE FITTINGS SEE PAGE 69.

# TIMELESS & CONTEMPLATION

MAKE YOUR OWN POSTS



**PRE-ASSEMBLED PLAIN POST**



**STAINLESS STEEL TUBE**

No holes

For our full range of glue fit components see from page 56.

**Ø 42.4mm POST BASE PLATE**      **Ø 48.3mm POST BASE PLATE**

Ø mm	A mm	Code
48.3	972	1806799D
42.4	978	1806799C
42.4	1000	1804790C
48.3	1000	1804790D
42.4	1000	1806790C
48.3	1000	1806790D
42.4	1100	1806760C
48.3	1100	1806760D

Dim A is post only with no top. Top fitting not included.

For our full range of glue fit components see from page 56.

**FOR LOCTITE ADHESIVES & GLUE  
SEE PAGE 92.**

Ø mm	Height mm	Code
42.4	1000	1804708CB
48.3	1000	1804708DB
42.4	1000	1806708CB
48.3	1000	1806708DB
42.4	1200	1804708CL
48.3	1200	1804708DL
42.4	1200	1806708CL
48.3	1200	1806708DL
42.4	1500	1804708CXL
48.3	1500	1804708DXL
42.4	1500	1806708CXL
48.3	1500	1806708DXL

These posts can be drilled, bolted, cut to size, welded & more!



## CA'FOSCARI COLLECTION



## YOSEMITE COLLECTION

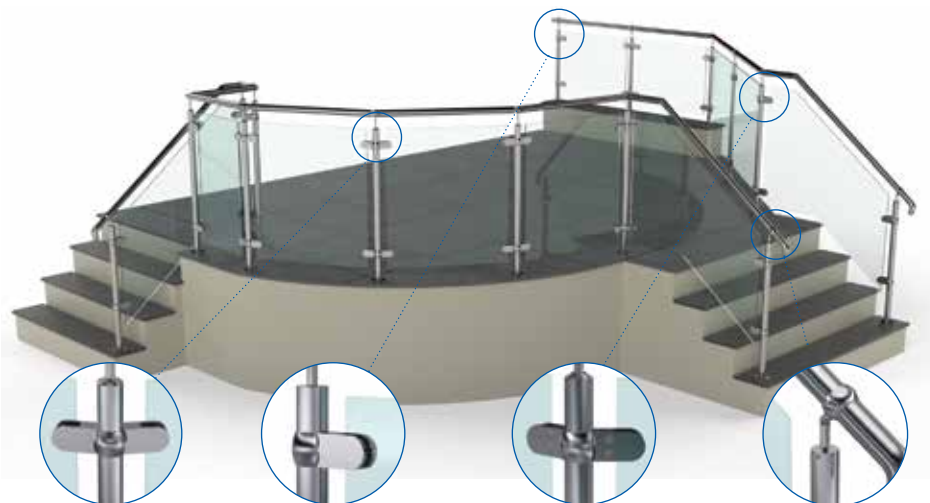


Our La Fabbrica range of porcelain stoneware reaches new heights in style and engineering, taking all the beauty and charm of the finest timbers. Safe, sustainable, versatile, and refined, Italian excellence with unbeatable quality

- Stunning wood effect Italian porcelain from one of Italy's top design houses
- A1 and A2fl-s1 fire rated
- Low surface temperatures
- Ideal for elevated patios, all decking applications, and all types of balconies
- Build your dream elevated stone patio without the need for expensive retaining walls and backfill materials
- 1000mm joist spacing for 30mm boards & tile support trays
- Dramatic reduction in hard landscaping costs
- Perimeter base section allows for our wide range of handrail systems to be fully integrated into your project

**FOR MORE INFORMATION ON OUR SYNERGISED™ PORCELAIN TILES SEE PAGE 97.**

# SLEEVE FIT BRACKETS



Mid bracket  
Code: **1806522C**

End bracket  
Code: **1806521C**

Adjustable  
corner bracket  
Code: **1806523C**

Adjustable handrail  
support bracket  
Code: **1806314CC**

## END BRACKET



Ø mm	Code
42.4	<b>1806521C</b>
48.3	<b>1806521D</b>

Supplied with M8 bolt for fixing glass clamps.

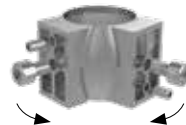
## MID BRACKET



Ø mm	Code
42.4	<b>1806522C</b>
48.3	<b>1806522D</b>

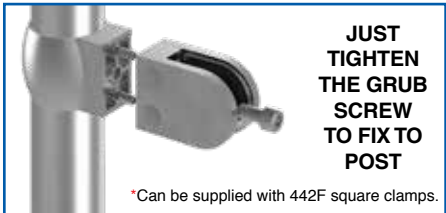
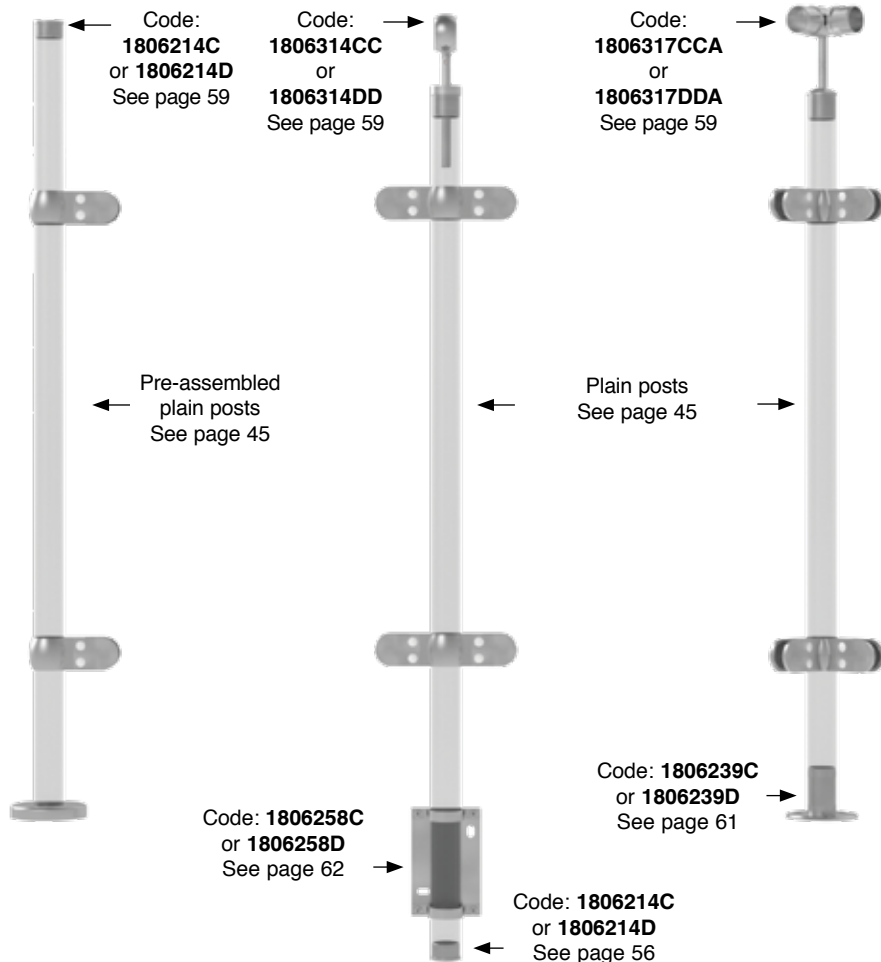
Supplied with M8 bolt for fixing glass clamps.

## 75 - 185° ADJUSTABLE CORNER BRACKET



Ø mm	Code
42.4	<b>1806523C</b>
48.3	<b>1806523D</b>

Supplied with M8 bolt for fixing glass clamps.



## CREATE A WIDE RANGE OF POSTS WITH NO DRILLING!

- 1 Select your post height.
- 2 Choose your post top (End caps page 56, railing saddles page 59)
- 3 Choose your Glass clamp (401F page 64, 442F page 65)
- 4 Choose your base (Bolt-down page 61, side-fix page 62)

**JUST SLIDE EVERYTHING INTO PLACE & TIGHTEN!**

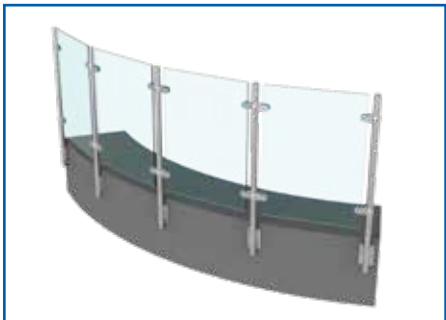


Image shows sleeve fit brackets being used on a curve.

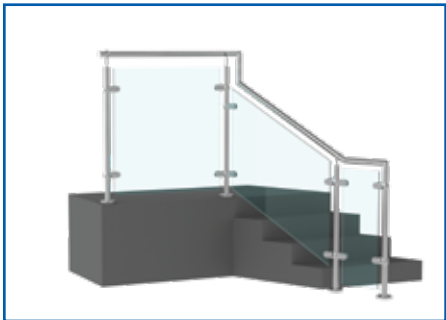


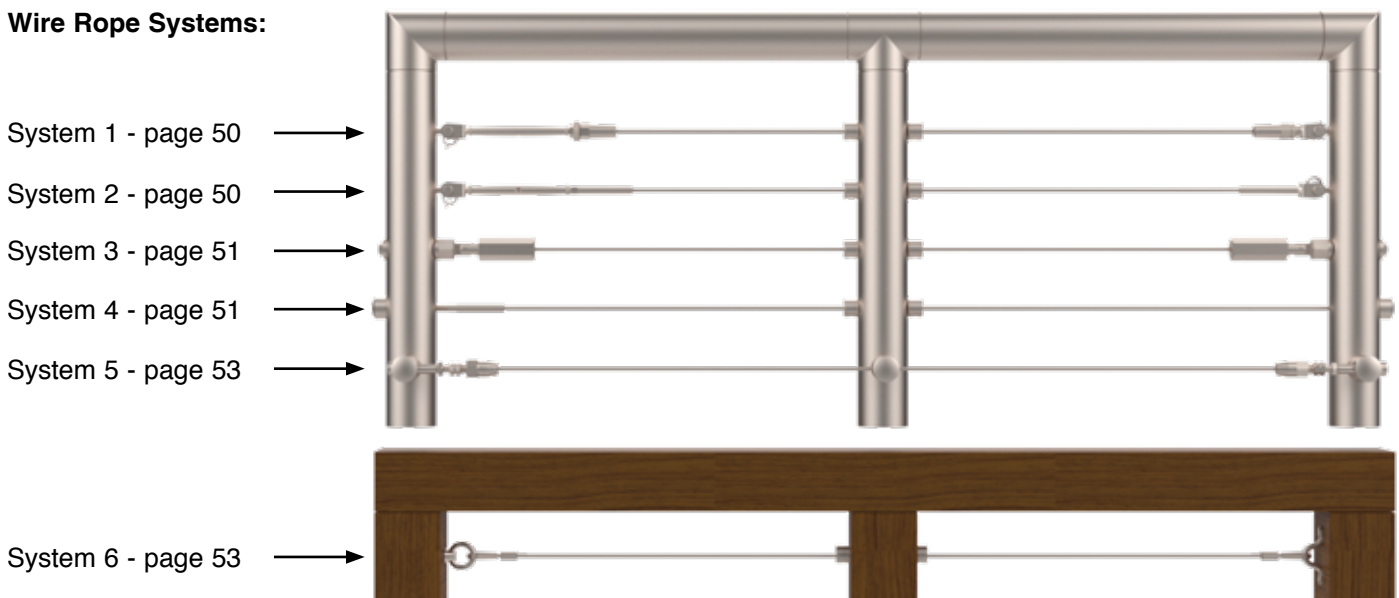
Image shows sleeve fit brackets being used on a staircase.

# WIRE ROPE SYSTEM



Stainless steel Ø 3 and 6mm strand wire rope system is a simple and cost effective alternative to our crossbar system. It can be fixed to most surfaces including wood, metal and brick and is ideal for external applications in residential and commercial environments. Suitable for self assembly and simple to install using self locking, crimped or glued connectors.

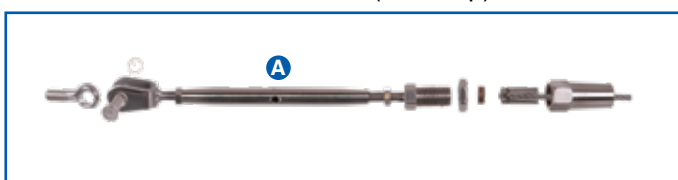
## Wire Rope Systems:



**PLEASE NOTE THAT OUR POSTS ARE NOT TO BE USED WITH 6mm WIRE.**

	System 1 (Swageless)	System 2 (Swaged)	System 3 (Swageless)	System 4 (Swaged)	System 5 (Swageless)	System 6 (Swaged)
3mm wire	✓	✓	✓	✓	✓	✓
Grade 316	✓	✓	✓	✓	✓	✓
Face fix	–	–	–	–	✓	–
In line	✓	✓	✓	✓	–	✓
Pre-assembled posts	✓	✓	–	–	–	–
Bespoke posts	–	–	✓	✓	✓	✓
Bespoke posts on stairs	✓	✓	✓	✓	✓	✓
Wooden posts	–	–	–	–	–	✓
Square posts	✓	✓	–	✓	✓	✓
Ø 42.4mm posts	✓	✓	✓	✓	✓	–
Ø 48.3mm posts	✓	✓	✓	✓	✓	–

## SWAGELESS (no crimp)



**A** Tension the wire by inserting a screwdriver and rotating.

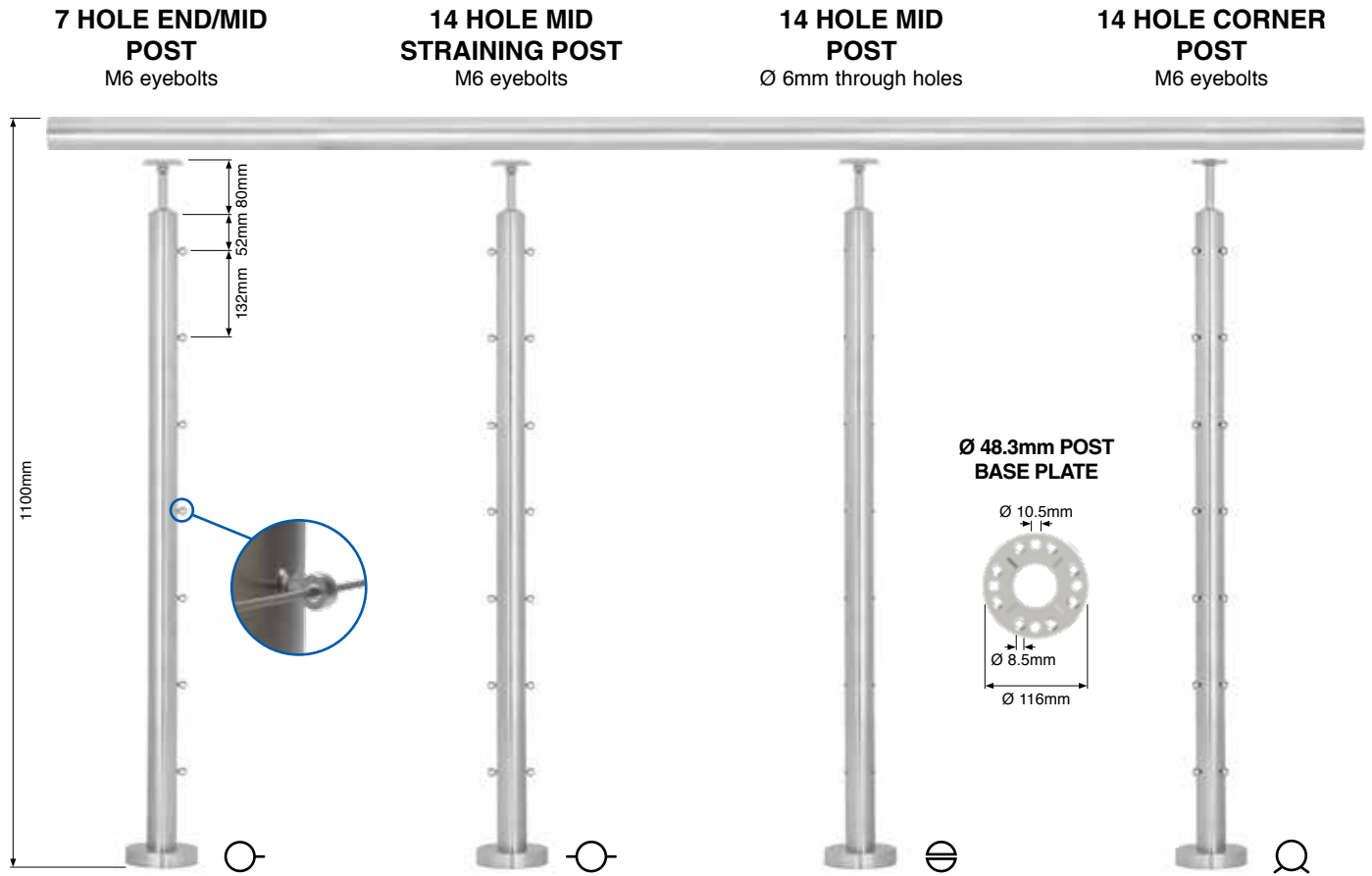
## SWAGED (crimp)



**A** Secure the wire by crimping or gluing. **B** Swaged connector.

# WIRE ROPE SYSTEM

## POSTS & FITTINGS



Ø mm	Code
48.3	1806741D

For use with Ø 3mm wire only.

Ø mm	Code
48.3	1806742D

For use with Ø 3mm wire only.

Ø mm	Code
48.3	1806742DT

For use with Ø 3mm wire only.

Ø mm	Code
48.3	1806743D

For use with Ø 3mm wire only.

### THIMBLE



To Suit Wire Ø mm	Code
3	1806610
6	1806670

### FERRULE



To Suit Wire Ø mm	Code
3	1806609
3	1301609
6	1806669

### LOCKING COLLAR



To Suit Wire Ø mm	Code
3	1806604
6	1806664

### EYEBOLT CONNECTOR



To Suit Wire Ø mm	Code
3	1806603
3	1301603
6	1806663*

M6 thread. \*M10 thread.

### POST FITTING ADAPTOR RING



Ø mm	Code
42.4	1804335C
48.3	1804335D
42.4	1806335C
48.3	1806335D

M6 thread.

### SWAGELESS CABLE TENSIONER



To Suit Wire Ø mm	Code
3	1806611
6	1806671

### SWAGELESS BUCKLE



To Suit Wire Ø mm	Code
3	1806612
6	1806672

### SWAGED CABLE TENSIONER



To Suit Wire Ø mm	Code
3	1806601
6	1806661

### SWAGED BUCKLE CONNECTOR



To Suit Wire Ø mm	Code
3	1806602
6	1806662

# WIRE ROPE SYSTEM

## FITTINGS & TOOLS

### CABLE TENSIONER

For flat runs



To Suit Wire Ø mm	Size mm	Code
3	Flat	1806617
3	42.4	1806617C
3	48.3	1806617D
6	Flat	1806667
6	42.4	1806667C
6	48.3	1806667D

Includes 1 x threaded cable tensioner, cover cap and end fitting.

### CABLE TENSIONER

For stairs and slopes



To Suit Wire Ø mm	Size mm	Code
3	Flat	1806618
3	42.4	1806618C
3	48.3	1806618D
6	Flat	1806677
6	42.4	1806677C
6	48.3	1806677D

Includes 1 x threaded cable tensioner, cover cap and end fitting.

### UPWARD ANGLED WIRE ROPE HOLDER

For angles + / - 35°



To Suit Wire Ø mm	Size mm	Code
3	Flat	1806622
3	42.4	1806622C
3	48.3	1806622D
6	Flat	1806682
6	42.4	1806682C
6	48.3	1806682D

### DOWNWARD ANGLED WIRE ROPE HOLDER

For angles + / - 35°



To Suit Wire Ø mm	Size mm	Code
3	Flat	1806621
3	42.4	1806621C
3	48.3	1806621D
6	Flat	1806681
6	42.4	1806681C
6	48.3	1806681D

### CABLE TENSIONER

Through fitting



To Suit Wire Ø mm	Size mm	Code
3	N/A	1806613
6	N/A	1806673

### ANGLED WIRE ROPE HOLDER

Left hand side



Tighteners to secure wire.

To Suit Wire Ø mm	Size mm	Code
3 and 6	Flat	1806615
3	42.4	1806615C
3	48.3	1806615D

Order screws code: 189900603.

### ANGLED WIRE ROPE HOLDER

Middle



To Suit Wire Ø mm	Size mm	Code
3	Flat	1806616
3	42.4	1806616C
3	48.3	1806616D
6	Flat	1806676

Order screws code: 189900603.

### ANGLED WIRE ROPE HOLDER

Right hand side



To Suit Wire Ø mm	Size mm	Code
3 and 6	Flat	1806614
3	42.4	1806614C
3	48.3	1806614D

Order screws code: 189900603.

### WIRE ROPE

1 x 19 strands



Length m	Thickness mm	Code
10	3	180660510
10	6	180666510
50	3	180660550
50	6	180666550
100	3	1806605100
100	6	1806665100

### ARTICULATED WIRE TENSIONER



Ø mm	To Suit Wire Ø mm	Code
42.4	3	1804607C
42.4	3	1806607C
48.3	3	1806607D

Secured with grub screw.

### PAD EYE



To Suit Wire Ø mm	Code
3	1806608
6	1806668

Fixing holes Ø 4.5mm.

### EYEBOLT WOODSCREW THREAD



To Suit Wire Ø mm	Code
3	1806606
6	1806666

### COVER CAP

With locking ends



To Suit Wire Ø mm	Code
3 and 6	1806619

### END FITTING



To Suit Wire Ø mm	Code
3	1806624
6	1806684

### CABLE RELEASE TOOL

For end fitting



To Suit Wire Ø mm	Code
3	1806620
6	1806680

### COUNTER SUNK SCREW



Ø x L mm	Code
M6 x 20	189900603

### CRIMPING TOOL



Code
189900102

### HYDRAULIC CRIMPING TOOL



Code
189900103

### WIRE CUTTING TOOL



Code
080569

### INSTANT ADHESIVE

For gluing wire in crimped connectors

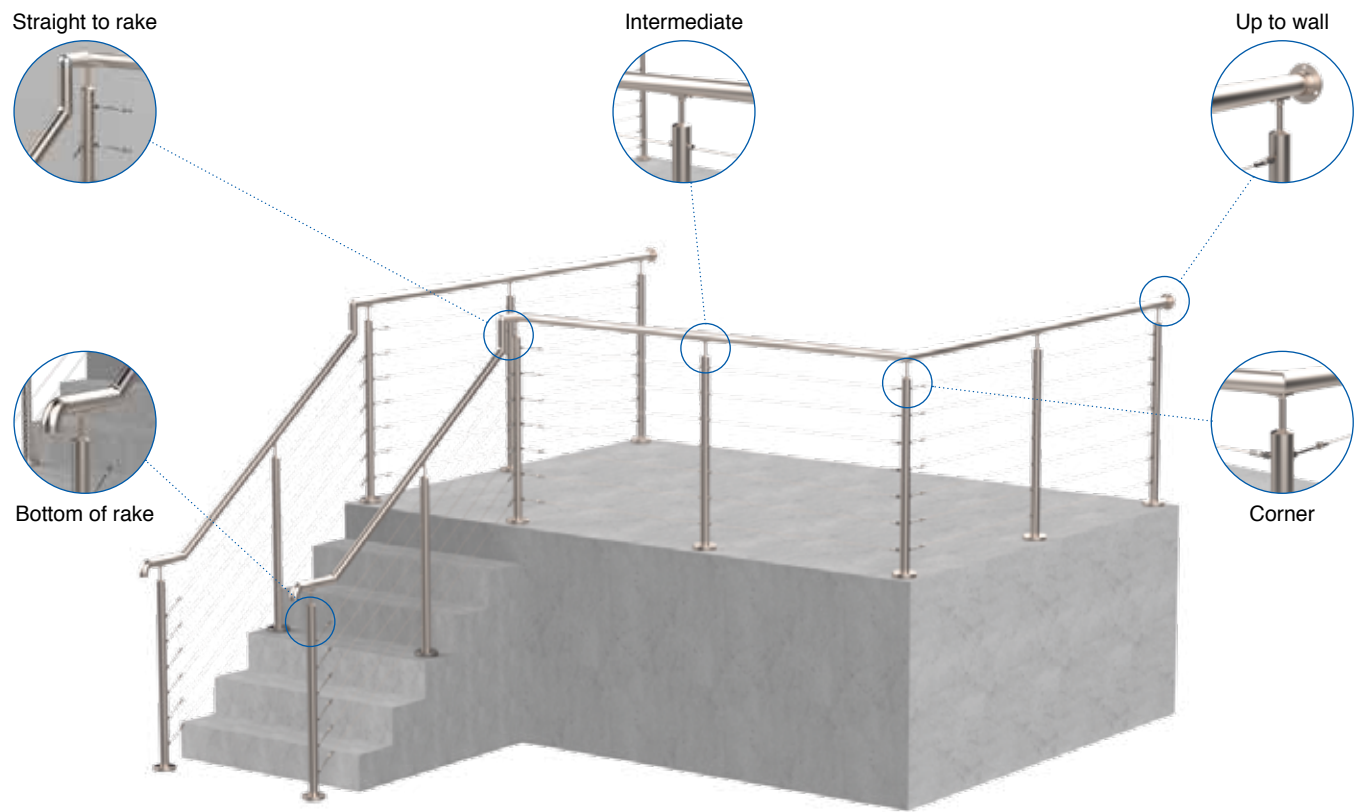


ml	Code
50	1899007454

Supplied with plunger and needle for accurate application.

# WIRE ROPE SYSTEM

## SYSTEM 1 & 2 IN-LINE



### LOCKING COLLAR



To Suit Wire Ø mm	Code
3	1806604

### EYEBOLT CONNECTOR



Thread mm	To Suit Wire Ø mm	Code
M6	3	1806603

M6 thread.

### POST FITTING ADAPTOR RING



Ø mm	Code
42.4	1804335C
48.3	1804335D
42.4	1806335C
48.3	1806335D

No need to  
drill posts.



Example of post fitting adaptor ring  
with 6mm eye bolt code: **1806663**  
and swaged buckle connector  
code: **1806602**

### SWAGELESS CABLE TENSIONER



To Suit Wire Ø mm	Code
3	1806611

### SWAGELESS BUCKLE



To Suit Wire Ø mm	Code
3	1806612

### SWAGED CABLE TENSIONER



To Suit Wire Ø mm	Code
3	1806601

### SWAGED BUCKLE CONNECTOR

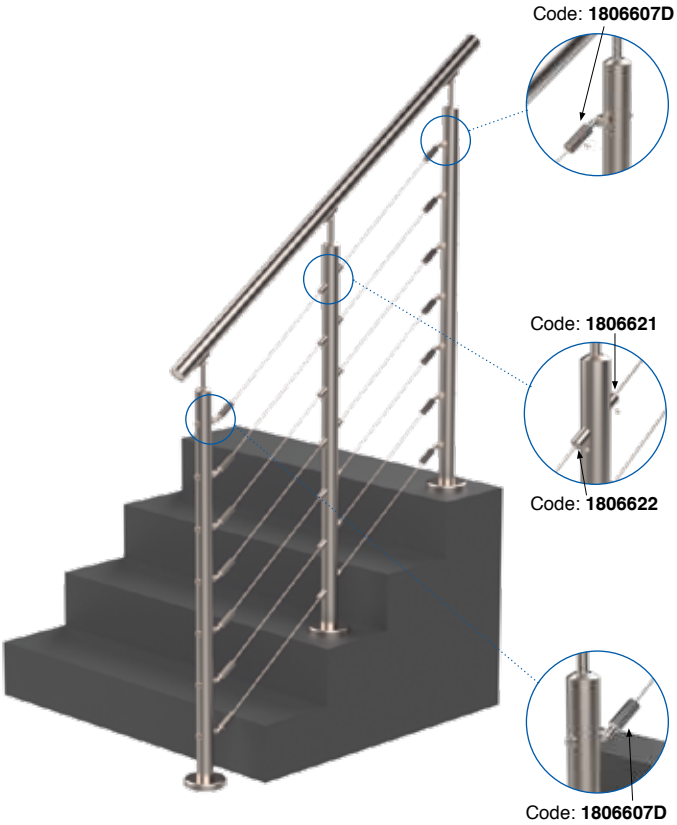
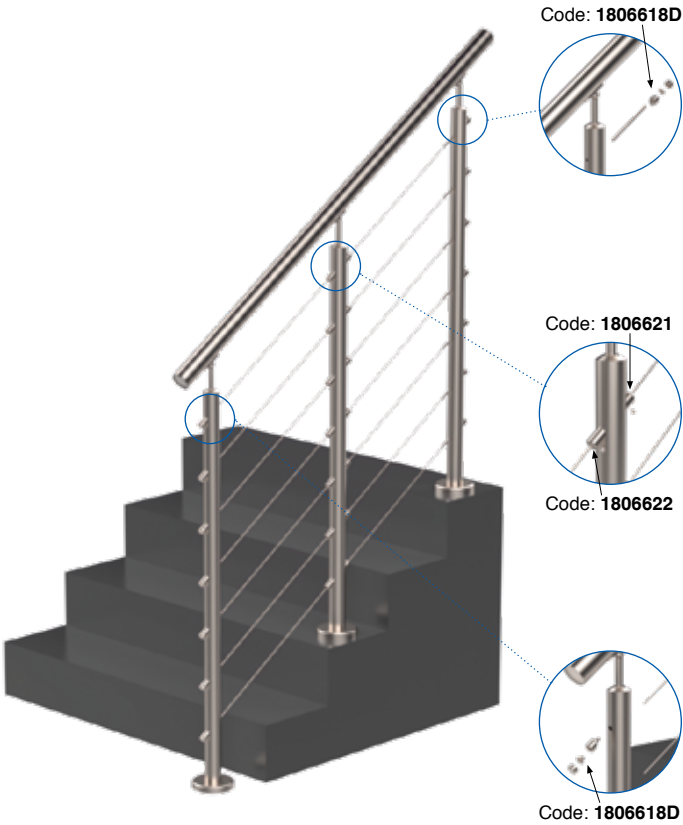


To Suit Wire Ø mm	Code
3	1806602

**SWAGELESS CONNECTORS CAN BE SECURED USING THE 454 LOCTITE ADHESIVE  
CODE: 1899007454. WHEN LEFT FOR 72 HOURS THEY WILL BE ABLE TO CARRY A LOAD OF 322KGS.  
SO IN A 7 WIRE SYSTEM THE INFILL AT ONE END OF THE POST CAN RESIST OVER 2 TONNES!**

# WIRE ROPE SYSTEM

## SYSTEM 3 & 4 FOR STAIRS



### CABLE TENSIONER

For stairs and slopes



To Suit Wire Ø mm	Size mm	Code
3	Flat	1806618
3	42.4	1806618C
3	48.3	1806618D

Includes 1 x threaded cable tensioner, cover cap and end fitting.

### UPWARD ANGLED WIRE ROPE HOLDER

For angles + / - 35°



To Suit Wire Ø mm	Size mm	Code
3	Flat	1806622
3	42.4	1806622C
3	48.3	1806622D

### DOWNWARD ANGLED WIRE ROPE HOLDER

For angles + / - 35°



To Suit Wire Ø mm	Size mm	Code
3	Flat	1806621
3	42.4	1806621C
3	48.3	1806621D

### ARTICULATED WIRE TENSIONER

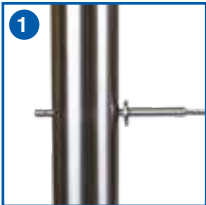


Ø mm	To Suit Wire Ø mm	Code
42.4	3	1806607C
48.3	3	1806607D

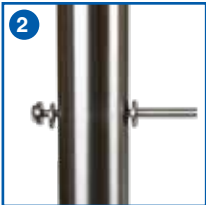
Secured with grub screw.

**FOR CABLE RELEASE TOOL SEE PAGE 49.**

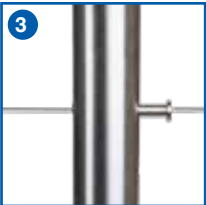
### INSTALLATION USING CABLE TENSIONER



1 Crimp wire into cable tensioner and insert through pre-drilled hole on starter post.



2 Add washer and nut and loosely tighten.



3 Insert end fitting through end post, pull tight, cut wire flush with fitting.



4 Screw on cover cap.



5 Tighten nut on starter post to bring the wire under tension.



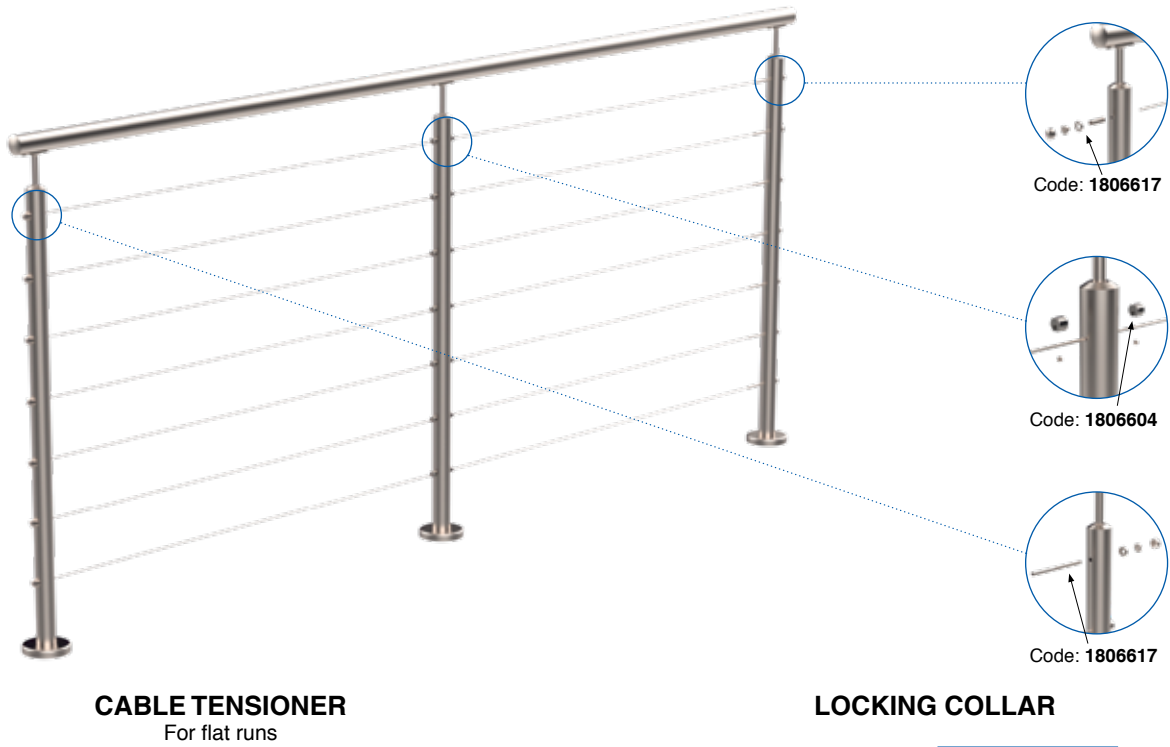
6 Cut excess protruding thread and screw on cover cap.

**FOR LOCTITE ADHESIVES & GLUE SEE PAGE 92.**

**FOR A FULL RANGE OF STAINLESS STEEL TUBE, HANDRAIL FITTINGS & ACCESSORIES SEE FROM PAGE 56.**

# WIRE ROPE SYSTEM

## SYSTEM 3 FOR FLAT RUNS



To Suit Wire Ø mm	Size mm	Code
3	Flat	1806617
3	42.4	1806617C
3	48.3	1806617D

Includes 1 x threaded cable tensioner, cover cap and end fitting.

To Suit Wire Ø mm	Code
3	1806604

FOR WIRE ROPE SEE PAGE 49.

## UNIVERSAL STRAND WIRE COMPONENTS

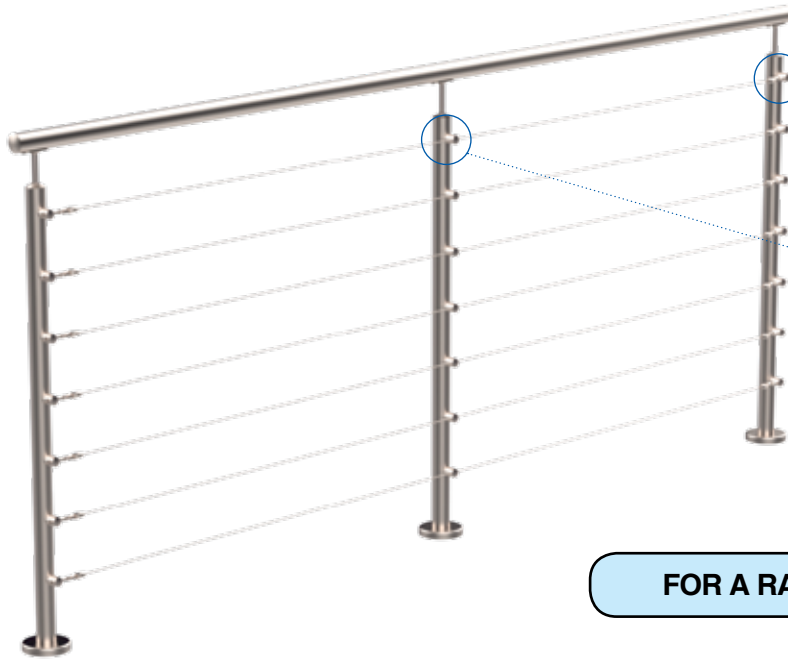


Make your own handrailing, in stainless, aluminium or mild steel and create your infills using our range of universal components to suit Ø 3 & 6mm wire.



# WIRE ROPE SYSTEM

## SYSTEM 5 FOR EXTERNAL FACE OF POST



Code: 1806614

Code: 1806613

Code: 1806616

FOR A RANGE OF POSTS SEE PAGE 48.

### CABLE TENSIONER Through fitting



To Suit Wire Ø mm	Code
3	1806613

### ANGLED WIRE ROPE HOLDER Left hand side



Tighteners to secure wire.

To Suit Wire Ø mm	Size mm	Code
3 and 6	Flat	1806615
3	42.4	1806615C
3	48.3	1806615D

Order screws code: 189900603.

### ANGLED WIRE ROPE HOLDER Middle



To Suit Wire Ø mm	Size mm	Code
3	Flat	1806616
3	42.4	1806616C
3	48.3	1806616D

Order screws code: 189900603.

### ANGLED WIRE ROPE HOLDER Right hand side



To Suit Wire Ø mm	Size mm	Code
3 and 6	Flat	1806614
3	42.4	1806614C
3	48.3	1806614D

Order screws code: 189900603.

## SYSTEM 6 FOR WOODEN POSTS



### THIMBLE



To Suit Wire Ø mm	Code
3	1806610

### FERRULE



To Suit Wire Ø mm	Code
3	1806609
3	1301609

### PAD EYE



To Suit Wire Ø mm	Code
3	1806608

Fixing holes Ø 4.5mm.

### EYEBOLT WOODSCREW THREAD



To Suit Wire Ø mm	Code
3	1806606

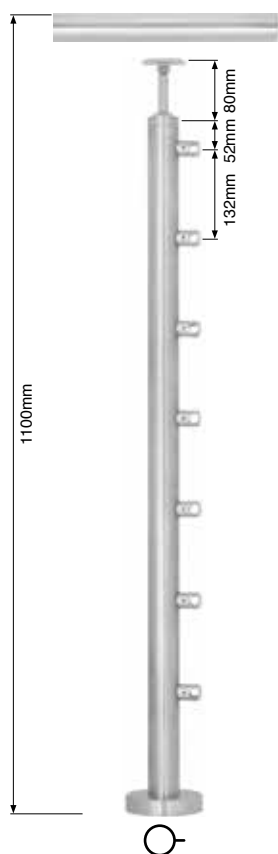
FOR LOCTITE ADHESIVES & GLUE SEE PAGE 92.

# CROSSBAR SYSTEM



Our crossbar system can provide a modern handrail and balustrade for many applications. Offering another practical alternative to a glazed balustrade. Flexible components allow for 7 rails to be fitted as standard.

## ROUND 7 HOLE POST



Ø mm	Code
42.4	1806737C
48.3	1806737D

Fitted with 12mm bar/tube holders.

## SOLID BAR



Ø mm	Code
12	1804500
12	1806500

3m length.

## CROSSBAR HOLDER

Flat mounting



Code
1804501F
1806501F

Ø 12.2mm through hole requires M6 button head fixing bolt code: 5006BS06X20.

## ANGLE JOINT CONNECTOR



Code
1804507
1806507

## HOLLOW TUBE



Ø mm	Code
12	1804510
12	1806510

3m length. 1mm wall thickness.

## CROSSBAR HOLDER

Tube mounting



Ø mm	Code
42.4	1804501C
48.3	1804501D
42.4	1806501C
48.3	1806501D

Ø 12.2mm through hole requires M6 button head fixing bolt code: 5006BS06X20.

## ADJUSTABLE CROSSBAR HOLDER



Ø mm	Code
Flat	1806509F

Requires 6mm button head fixing bolt code: 5006BS06X20.

## TUBE CONNECTOR



Ø mm	Code
12	1804524
12	1806524

## SOLID END BALL



Ø mm	Code
20	1301502
20	1804502
20	1806502

## 90° ELBOW RADIUS CORNER



Ø mm	Code
12	1804525
12	1806525

## HEX HEAD WITH FLANGE



Metric Ø x L mm	Length mm	Code
M8 x 75	75	5002HCS875

## MULTI-FIX HEX HEAD BOLT



Ø mm	Length mm	Code
M10	75	5002MF10875

## THROUGH BOLT



Ø mm	Length mm	Code
M8	95	5006TB08100

## ALLEN KEY & BUTTON HEAD BOLT



Description	Ø x L mm	Code
Allen Key	—	189900607
Bolt	M6 x 20	5006BS06X20

# RECTANGULAR HANDRAIL SYSTEM

TYPE 40 x 10mm



Our new 40 x 10mm rectangular handrailing system adds a contemporary look to your installation. It's easy to glue together and can work with any number of flat top saddle handrail brackets.

## RECTANGULAR HANDRAIL



Length m	Code
3.0	18067044010
6.0	18067004010

1.5mm wall thickness.

## JOINER



Code
18062064010

## 90° JOINER



Code
18062024010

## ADJUSTABLE CONNECTOR



Code
18062274010

## END CAP



Code
18062144010

## HANDRAIL BRACKET

Wall mounting



Code
18063054010

## ADJUSTABLE HANDRAIL BRACKET

Glass/flat



Ø mm	To Suit	Code
50	Flat	1806334FF

82mm distance from glass to centre of bracket. To suit 12 - 30mm glass thickness.

## ADJUSTABLE HANDRAIL BRACKET

Wall/flat



□ mm	To Suit	Code
40	Flat	1806303S40F

92mm distance from wall to centre of bracket. Requires threaded dowel code: 189900622 for wall fixing.

**FOR LOCTITE ADHESIVES & GLUE  
SEE BELOW.**

## ADHESIVES

### HIGH STRENGTH RETAINER GLUE

For use with tube fittings



ml	Code
50	1899007638

### ADHESIVE ACTIVATOR

Reduces curing time when used with Loctite 638



ml	Code
150	18990087649

### INSTANT ADHESIVE

Supplied with plunger and needle for accurate application. For use as thread lock adhesive



ml	Code
50	1899007454

**LOCTITE**

# TUBE & BAR

## HOLLOW TUBE FOR HANDRAILS & POSTS



1.0m LENGTH

Ø mm	Code
42.4	1804708CB
48.3	1804708DB
42.4	1806708CB
48.3	1806708DB

2mm wall thickness.

1.2m LENGTH

Ø mm	Code
42.4	1804708CL
48.3	1804708DL
42.4	1806708CL
48.3	1806708DL

2mm wall thickness.

1.5m LENGTH

Ø mm	Code
42.4	1804708CXL
48.3	1804708DXL
42.4	1806708CXL
48.3	1806708DXL

2mm wall thickness.

3.0m LENGTH

Ø mm	Code
42.4	1804704C
48.3	1804704D
42.4	1806704C
48.3	1806704D

2mm wall thickness.

6.0m LENGTH

Ø mm	Code
42.4	1804700C
48.3	1804700D
42.4	1806700C
48.3	1806700D

2mm wall thickness.

### HOLLOW TUBE



### SOLID BAR



### SPLIT TUBE



### SQUARE HOLLOW TUBE



Ø mm	Length m	Code
12	3	1804510
12	3	1806510

1mm wall thickness.

Ø mm	Length m	Code
12	3	1804500
12	3	1806500

Ø mm	Length m	Code
18	3	1504P011

1.25mm wall thickness.

□ mm	Length m	Code
40	2.9	1806704S40
40	5.8	1806700S40

2.5mm wall thickness.

ALL STAINLESS FITTINGS ARE SUPPLIED IN A SATIN POLISH FINISH GRIT 320.  
THEY CAN ALSO BE SUPPLIED IN A MIRROR POLISH FINISH.

## END CAPS

### FLAT TOP



Ø mm	Code
42.4	1804214C
48.3	1804214D
42.4	1806214C
48.3	1806214D

### 7 GROOVE FLAT TOP



Ø mm	Code
42.4	1806274C
48.3	1806274D

Glue fit.

### RAISED TOP



Ø mm	Code
42.4	1804215C
48.3	1804215D
42.4	1806215C
48.3	1806215D

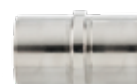
### DOME TOP



Ø mm	Code
42.4	1804216C
48.3	1804216D
42.4	1806216C
48.3	1806216D

FOR LOCTITE ADHESIVES & GLUE  
SEE PAGE 92.

FOR OUR RANGE OF MIRROR FINISH COMPONENTS SEE FROM PAGE 74.



# HANDRAIL BRACKETS

## WELDABLE HANDRAIL BRACKET

Fixed washer



Code
<b>1301301</b>

To fit square: □ 40, 50, 60, 70 and 75mm.  
To fit round: Ø 42.4, 48.3 and 60.3mm.

## WELDABLE HANDRAIL BRACKET

Adjustable washer



Code
<b>1301301A</b>

To fit square: □ 40, 50, 60, 70 and 75mm.  
To fit round: Ø 42.4, 48.3 and 60.3mm.

## HANDRAIL BRACKET WITH SADDLE

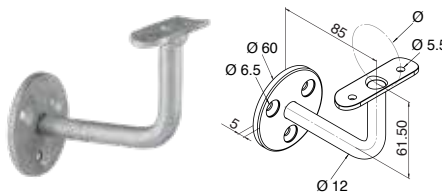
Fixed washer



To Suit Ø mm	Code
42.4	<b>1301301C</b>
48.3	<b>1301301D</b>

To fit square: □ 40, 50, 60, 70 and 75mm. To fit round: Ø 42.4, 48.3 and 60.3mm.

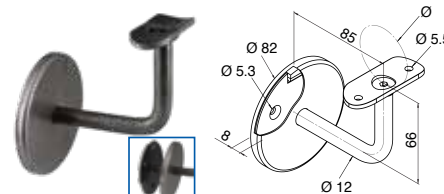
### WALL/TUBE



Ø mm	Code
42.4 or 48.3	<b>171178K</b>
42.4 or 48.3	<b>171177K</b>

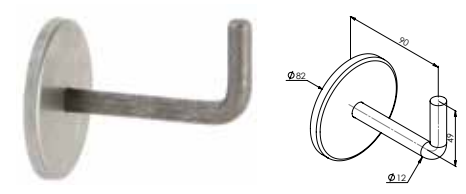
Three Ø 6.5mm countersunk fixing plate holes.

### WALL/TUBE



Ø mm	Code
42.4 or 48.3	<b>171179K</b>

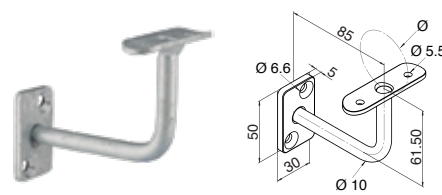
Supplied with snap fit cover plate. Three Ø 5.3mm countersunk fixing plate holes.



Description	Code
Cover Plate & Bracket	<b>171167</b>
Bracket only	<b>171167B</b>
Cover Plate only	<b>171162C</b>

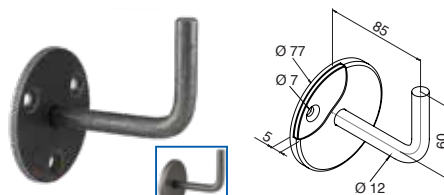
90mm distance from wall to centre of bracket.

### WALL/TUBE



Ø mm	Code
42.4 or 48.3	<b>171181K</b>
42.4 or 48.3	<b>171180K</b>

Two Ø 6.6mm countersunk fixing plate holes.



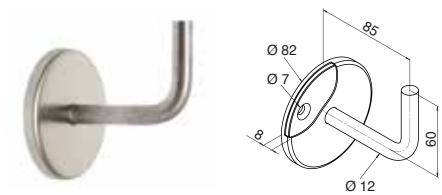
Description	Code
Bracket Only	<b>171182K</b>
Cover Plate & Bracket	<b>171182</b>

Three Ø 7mm countersunk fixing plate holes.



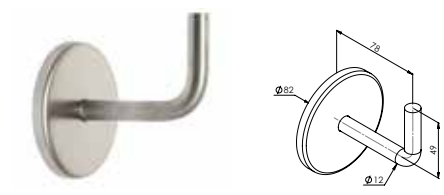
Description	Code
Cover Plate & Bracket	<b>171162</b>
Bracket only	<b>171162B</b>
Cover Plate only	<b>171162C</b>

76mm distance from wall to centre of bracket.



Code
<b>171166K</b>
<b>171169K</b>

Three Ø 7mm countersunk fixing plate holes.



Description	Code
Cover Plate & Bracket	<b>171166</b>
Cover Plate & Bracket	<b>171169</b>

76mm distance from wall to centre of bracket.

## UNIVERSAL PLUG & SCREW JARS



Size Ø mm	Pack Qty	Code
6	500	<b>50UPS6R</b>

6 x 28mm plugs, 4.5 x 40mm screws.

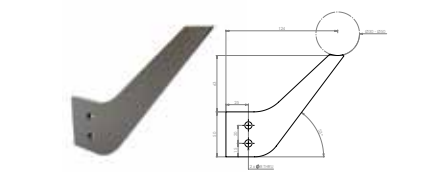


Size Ø mm	Pack Qty	Code
7	450	<b>50UPS7B</b>

7 x 30mm plugs, 4.0 x 40mm screws.

## SIDE FIX HANDRAIL BRACKET

Without saddle

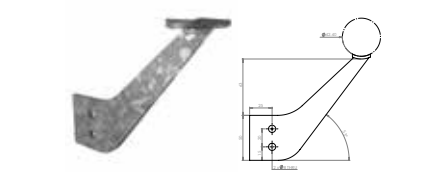


Code
<b>171174</b>

99mm distance from centre of fixing holes to centre of bracket.

## SIDE FIX HANDRAIL BRACKET

With saddle



To Suit Ø mm	Code
42.4	<b>171174C</b>
48.3	<b>171174D</b>

99mm distance from centre of fixing holes to centre of bracket.

# HANDRAIL BRACKETS

## ADJUSTABLE HEIGHT - FIXED SPIGOT

FLAT/TUBE



Ø mm	Code
48.3	1806301FD

65mm distance from flat to centre of bracket.

WALL/TUBE



Ø mm	Code
42.4	1804303FC
48.3	1804303FD
42.4	1806303FC
48.3	1806303FD

68mm distance from wall to centre of bracket.

GLASS/TUBE



Ø mm	Code
42.4	1804333FC
48.3	1804333FD
42.4	1806333FC
48.3	1806333FD

82mm distance from glass to centre of bracket. To suit 12 - 30mm glass thickness.

## FIXED SPIGOT

WALL/TUBE



Ø mm	Code
42.4	1804305FC
48.3	1804305FD
42.4	1806305FC
48.3	1806305FD

63.5mm distance from wall to centre of bracket.

WALL/TUBE



Ø mm	Code
42.4	1804305FCB
48.3	1804305FDB
42.4	1806305FCB
48.3	1806305FDB

85mm distance from wall to centre of bracket.

WALL/FLAT



Code
1804305FF

63.5mm distance from wall to centre of bracket.

WALL/TUBE



Ø mm	Code
42.4	1804315FC
48.3	1804315FD
42.4	1806315FC
48.3	1806315FD

72mm distance from wall to centre of bracket. Supplied with 8mm screw thread for wall fixing.

## ADJUSTABLE SPIGOT WALL/TUBE



Adjustable angle

Ø mm	Code
42.4	1804308FC
48.3	1804308FD
42.4	1806308FC
48.3	1806308FD

85mm distance from wall to centre of bracket.

## SATIN POLISH WELDABLE HANDRAIL BRACKET & COVER PLATE



Code
171166
171169

76mm distance from wall to centre of bracket.

## HANDRAIL BRACKET PLATE & RUBBERS

To suit glass balustrading



Ø mm	Glass mm	Code
50	8 - 19	1804358G
50	8 - 19	1806358G

Glass hole size Ø 22mm. M8 thread.

## ALLEN KEY

For tightening grub screws in handrail brackets



Code
189900607

## FIXINGS

### COUNTERSUNK SCREW

For fixing flat saddles



Ø x L mm	Code
M5 x 20	189900619

Self-tapping. Pilot holes required. Use drill bit code: 189901004.

### PAN HEAD SCREW

For fixing Ø 42.4 & 48.3mm saddles



Ø x L mm	Code
M5 x 20	189900620

Self-tapping. Pilot holes required. Use drill bit code: 189901004.

### BUTTON HEAD BOLT

For fixing handrail brackets in threaded holes



Ø x L mm	Code
M5 x 20	5006BS05X20
M6 x 20	5006BS06X20

Pilot holes required.

# RAILING SADDLES

## FIXED SPIGOT

FLOOR/TUBE



Ø mm	Code
42.4	1804307FC
48.3	1804307FD
42.4	1806307FC
48.3	1806307FD

Height 62mm.

TUBE/TUBE



Ø mm	Code
42.4	1804310CC
48.3	1804310DD
42.4	1806310CC
48.3	1806310DD

90° TUBE/TUBE



Ø mm	Code
42.4	1804311CC
48.3	1804311DD
42.4	1806311CC
48.3	1806311DD

For 201 type elbows used with handrails.

## ADJUSTABLE SPIGOTS

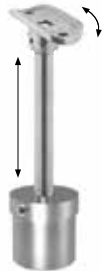
TUBE/TUBE



Adjustable angle

Ø mm	Code
42.4	1804312CC
48.3	1804312DD
42.4	1806312CC
48.3	1806312DD

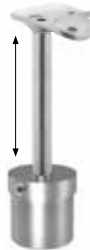
TUBE/TUBE



Adjustable angle and height

Ø mm	Code
42.4	1806322CC
48.3	1806322DD

90° FIXED SADDLE  
TUBE/TUBE



Adjustable height

Ø mm	Code
42.4	1806321CC
48.3	1806321DD

ADJUSTABLE HANDRAIL  
SUPPORT BRACKET



Adjustable angle

Ø mm	Code
42.4	1804314CC
48.3	1804314DD
42.4	1806314CC
48.3	1806314DD

## HANDRAIL SUPPORT BRACKETS

HANDRAIL BRACKET WITH  
90° FIXED ELBOW



Ø mm	Code
42.4	1804311CCA
48.3	1804311DDA
42.4	1806311CCA
48.3	1806311DDA

HANDRAIL BRACKET WITH  
+/- 90° ADJUSTABLE ELBOW



Adjustable angle

Ø mm	Code
42.4	1804317CCA
48.3	1804317DDA
42.4	1806317CCA
48.3	1806317DDA

## FIXED SADDLE

90° CORNER TOP



Ø mm	Code
42.4	1804356C
48.3	1804356D
48.3	1806356D
Flat	1804356F
Flat	1806356F

135° ROUND  
CORNER TOP



Ø mm	Code
42.4	1804354C
48.3	1804354D
48.3	1806354D
Flat	1804354F
Flat	1806354F

STRAIGHT TOP



Ø mm	Code
42.4	1804351C
48.3	1804351D
42.4	1806351C
48.3	1806351D
Flat	1804351F
Flat	1806351F

## PAN HEAD THREAD ROLLING BOLT

For fixing railing saddles to tube



Ø x L mm	Code
M5 x 20	189900686

Self-tapping. Pilot holes required. Use drill bit code: 189901005.

## COBALT DRILL BIT

To suit 5mm screws & bolts



Description	Code
4.2mm drill for self-tapping screw	189901004
4.5mm drill for thread rolling bolt	189901005

FOR LOCTITE ADHESIVES & GLUE SEE PAGE 92.

# TUBE FITTINGS

**90° ELBOW  
RADIUSED CORNER**



Ø mm	Code
42.4	1804200C
48.3	1804200D
42.4	1806200C
48.3	1806200D

**90° ELBOW  
ROUND CORNER**



Ø mm	Code
42.4	1804201C
48.3	1804201D
42.4	1806201C
48.3	1806201D

**90° ELBOW  
SQUARE CORNER**



Ø mm	Code
42.4	1804202C
48.3	1804202D
42.4	1806202C
48.3	1806202D

**135° ELBOW**



Ø mm	Code
42.4	1804220C
48.3	1804220D
42.4	1806220C
48.3	1806220D

**90° WELDABLE  
ELBOW**



Ø mm	Code
42.4	1804E42
48.3	1804E48
42.4	1806E42
48.3	1806E48

**ADJ. ELBOW  
+/- 90°**



Ø mm	Code
42.4	1804203C
48.3	1804203D
42.4	1806203C
48.3	1806203D

**ADJ. ELBOW  
SMOOTH 0 - 70°**



Ø mm	Code
42.4	1804227C
48.3	1804227D
42.4	1806227C
48.3	1806227D

**ROTATING ELBOW**



Ø mm	Code
42.4	1804233C
48.3	1804233D
42.4	1806233C
48.3	1806233D

**ADJ. HANDRAIL  
ADAPTOR 0 - 70°**



Ø mm	Code
42.4	1806316CC
48.3	1806316DD

**TUBE ADAPTOR**



Ø mm	Code
42.4	1804313CC
48.3	1804313DD
42.4	1806313CC
48.3	1806313DD

**3 WAY CORNER**



Ø mm	Code
42.4	1804204C
48.3	1804204D
42.4	1806204C
48.3	1806204D

**LONG TEE**



Ø mm	Code
42.4	1804205C
48.3	1804205D
42.4	1806205C
48.3	1806205D

**4 WAY CROSS**



Ø mm	Code
42.4	1804222C
48.3	1804222D
42.4	1806222C
48.3	1806222D

**IN-LINE  
CONNECTOR**



Ø mm	Code
42.4	1804206C
48.3	1804206D
42.4	1806206C
48.3	1806206D

**SCROLL END**



Ø mm	Code
42.4	1804221C
48.3	1804221D
42.4	1806221C
48.3	1806221D

**EXTENDED SCROLL END**



Ø mm	Length mm	Code
42.4	400	1804EA42180
48.3	400	1804EA48180
42.4	400	1806EA42180
48.3	400	1806EA48180

**PANEL INFILL ADAPTOR**



Ø mm	Code
42.4	1804503C
48.3	1804503D
42.4	1806503C
48.3	1806503D

**FOR OUR  
RANGE OF  
SQUARE FITTINGS  
SEE PAGE 69.**

**FOR LOCTITE  
ADHESIVES & GLUE  
SEE PAGE 92.**

Requires 6mm fixing bolt code:  
**5006BS06X20**. Suits material  
1.5 - 10mm thick.

# FLANGES & BASE PLATES

**EXTERNAL ROUND  
TUBE FLANGE**



Ø mm	Code
42.4	1804209C
48.3	1804209D
42.4	1806209C
48.3	1806209D

**SQUARE EDGE  
TUBE FLANGE**



Ø mm	Code
42.4	1804210C
48.3	1804210D
42.4	1806210C
48.3	1806210D

**WELDABLE ROUND  
WALL FLANGE**



Ø mm	Code
42.4	1804217C
48.3	1804217D
42.4	1806217C
48.3	1806217D

**COVER PLATE**  
To suit 217



Ø mm	Code
42.4	1804218C
48.3	1804218D
42.4	1806218C
48.3	1806218D

**ADJUSTABLE INTERNAL  
FIT BASE FLANGE +/- 55°**



Ø mm	Code
42.4	1804234C
48.3	1804234D
42.4	1806234C
48.3	1806234D

**INTERNAL FIT  
FLOOR BASE**  
Glue fix



Ø mm	Code
42.4	1804225C
48.3	1804225D
42.4	1806225C
48.3	1806225D

**WELD ON ROUND  
BASE PLATE**  
With 'O' ring & cover



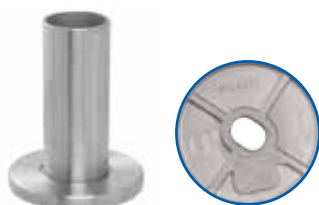
Ø mm	Code
42.4	1804228C
48.3	1804228D
42.4	1806228C
48.3	1806228D

**ADJUSTABLE ELBOW  
TUBE FLANGE**



Ø mm	Code
42.4	1804229C
48.3	1804229D
42.4	1806229C
48.3	1806229D

**INTERNAL FIT TUBE FLANGE**  
Glue fix, no cover plate required



Ø mm	Code
42.4	1804237C
48.3	1804237D
42.4	1806237C
48.3	1806237D

**INTERNAL FIT TUBE FLANGE**  
Glue fix



Ø mm	Code
42.4	1804235C
48.3	1804235D
42.4	1806235C
48.3	1806235D

**INTERNAL FIT TUBE FLANGE**  
Hammer fix



Ø mm	Code
42.4	1804239C
48.3	1804239D
42.4	1806239C
48.3	1806239D

**WELD ON ROUND  
BASE PLATE**



Ø mm	Code
42.4	1804207C
48.3	1804207D
42.4	1806207C
48.3	1806207D

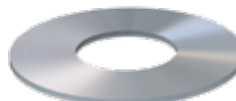
**COVER CAP**



Ø mm	To Suit 207 Code	To Suit 225 Code	To Suit 235 Code
42.4	1804208C	1804226C	1804236C
48.3	1804208D	1804226D	1804236D
42.4	1806208C	1806226C	1806236C
48.3	1806208D	1806226D	1806236D

Fit at time of installation. For silicone use code: **189901201**.

**DONUT  
COVER PLATE**



Ø mm	Code
42.4	1806247C
48.3	1806247D

Fit at time of installation. For silicone use code: **189901201**.

**RETRO-FIT  
COVER PLATE**



Ø mm	Code
42.4	1806248C
48.3	1806248D

Retro-fitted after installation. For silicone use code: **189901201**.

# BALUSTER BRACKETS

## 2 HOLE ROUND



Ø mm	Code
42.4	1804212C
48.3	1804212D
42.4	1806212C
48.3	1806212D

## 2 HOLE ROUND With tube support spigot



Ø mm	Code
42.4	1804219C
48.3	1804219D
42.4	1806219C
48.3	1806219D

## 2 HOLE ROUND FOLDED Weld fix



Ø mm	Code
42.4	1806256C
48.3	1806256D

## ADJUSTABLE CORNER - INTERNAL/EXTERNAL



Ø mm	Code
42.4	1806253C
48.3	1806253D

## RECTANGULAR BACK



Ø mm	Code
42.4	1806213C
48.3	1806213D

## FASCIA BRACKET



Ø mm	Code
42.4	1806258C
48.3	1806258D

## WALL BRACKET



Ø mm	Code
48.3	1806257D

## TUBE SUPPORT



Ø mm	Code
48.3	1806519D

For extra support.

## SINGLE SIDE SUPPORT



Ø mm	Code
42.4	1804511C
42.4	1806511C
48.3	1806511D

## DOUBLE SIDE SUPPORT



Ø mm	Code
42.4	1804512C
42.4	1806512C
48.3	1806512D

## TUBE TO WALL CONNECTOR



Ø mm	Code
42.4	1804255C
48.3	1804255D
42.4	1806255C
48.3	1806255D



IMAGE SHOWS TUBE TO WALL  
CONNECTOR CODE: 1804255C.

# GLASS CLAMPS

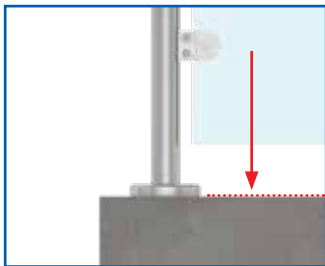
FOR OUR GLASS RANGE,  
SEE PAGES 10, 11 & 37.



The most popular method for providing a glazed balustrade, while at the same time keeping the outlook open and views beyond visible. Glass clamps are simple to install and are offered in either a square or radiused option, providing a glazed system between posts. Compatible with 8 to 21.5mm thick glass, clamps can be used over any length of installation as well as slopes and staircases.

## GLASS FIXING INFORMATION

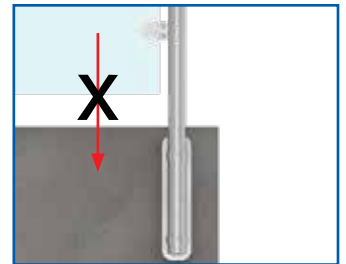
If using glass clamps in any installation where the glass is fixed to the outside of a staircase and overhanging, then security pins (code: **189900401** or **189900402**) and drilled glass must be used.



**X** Pin - **189900401** or **189900402** not required



**✓** Pin - **189900401** or **189900402** required  
Requires a minimum Ø 10mm holes in glass.



- Cast Zamac clamps are a cheaper alternative to stainless steel. Available in a mirror finish, satin finish or mill finish (suitable for powder coating). Not for external use.
- Cast Aluminium clamps are a new innovation, that can be used internally or externally.
- Cast Stainless 304 clamps are available in satin polish and are for internal use.
- Cast Stainless 316 clamps are available in both mirror and satin polish and for external use.
- Cast Duplex 2205 (ultra marine) for external applications, ideal for use in close proximity to the coast.

**Cast Zamac**



**Cast Aluminium**



**Grade 304**



**Grade 316**



**Duplex 2205**



## SHELF CLAMP

**SATIN FINISH SMALL**



Back	Glass mm	Code
Flat	8	<b>1806400F</b>

Not suitable for handrailing applications. Typical uses are for display and shelving.  
H 20 x L 40 x D 16mm. For 6mm rubbers, order code: **1899001S06**.



# GLASS CLAMPS

SATIN FINISH



SATIN POLISH EFFECT



ECONOMY  
VERSION

MIRROR FINISH



Back	Glass mm	Ø mm	Code
Round	8 - 10	42.4	1802401C
Round	8 - 12	48.3	1802401D
Round	8 - 12	42.4	1804401C
Round	8 - 12	48.3	1804401D
Round	8 - 12	42.4	1806401C
Round	8 - 12	48.3	1806401D
Flat	8 - 10	-	1802401F
Flat	8 - 12	-	1804401F
Flat	8 - 12	-	1806401F

Supplied with 10mm rubbers, for other sizes refer to D Rubbers table. Type 401.

Back	Glass mm	Ø mm	Code
Round	10	42.4	05CL1260C304
Round	10	48.3	05CL1260D304
Round	10	42.4	05CL1260C316
Round	10	48.3	05CL1260D316
Flat	10	-	05CL1260F304
Flat	10	-	05CL1260F316

Supplied with 10mm rubbers. Only for use with 10mm glass. Type 401.

Back	Glass mm	Ø mm	Code
Flat	8 - 10	-	1802401FP

Supplied with 10mm rubbers, for other sizes refer to D Rubbers table. Type 401.

MIRROR FINISH



MIRROR FINISH



ECONOMY  
VERSION

RAW FINISH



Back	Glass mm	Ø mm	Code
Round	8 - 10	42.4	1806401CM
Round	8 - 10	48.3	1806401DM
Flat	8 - 10	-	1806401FM

Supplied with 10mm rubbers, for other sizes refer to D Rubbers table. Type 401.

Back	Glass mm	Ø mm	Code
Round	10	42.4	05CL1260C316M
Round	10	48.3	05CL1260D316M
Flat	10	-	05CL1260F316M

Supplied with 10mm rubbers. Only for use with 10mm glass. Type 401.

Back	Glass mm	Ø mm	Code
Round	8 - 10	42.4	1802401CZ
Round	8 - 10	48.3	1802401DZ
Flat	8 - 10	-	1802401FZ

Supplied with 10mm rubbers, for other sizes refer to D Rubbers table. Type 401. Suitable for powder coating.

PPC MATT BLACK



SATIN FINISH  
180° DOUBLE



SATIN FINISH  
90° DOUBLE



SATIN FINISH  
Flat back



Back	Glass mm	Ø mm	Code
Round	8 - 10	42.4	1805401CB
Round	8 - 10	48.3	1805401DB
Flat	8 - 12	-	1805401FB

Supplied with 10mm rubbers, for other sizes refer to D Rubbers table. Type 401. Cast aluminium.

Glass mm	Code
8 - 12	1804401180
8 - 10	1806401180

H 45 x L 107 x D 28mm. Supplied with 10mm rubbers, for other sizes refer to D Rubbers table. Type 401.

Glass mm	Code
8 - 12	1804401190
8 - 12	1806401190

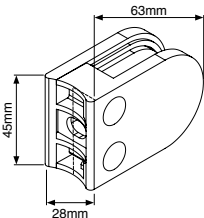
H 45 x L 73 x W 73 x D 28mm. Supplied with 10mm rubbers, for other sizes refer to D Rubbers table. Type 401.

Glass mm	Code
15.0 - 21.5	1806440F

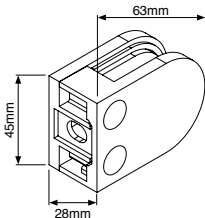
H 70 x L 60 x D 41mm. Supplied with 15mm rubbers, for other sizes refer to D Rubbers table. Type 440.

## DIMENSION DRAWINGS

401 ROUND BACK



401 FLAT BACK



## D RUBBERS

Glass Clamp Code Group	Glass mm	Code
400	6.00	1899001S06
	8.00	189900108
401	8.76	18990010876
	10.00	189900110
	12.00	189900112
	15.00	1899001L15
440	17.50	1899001L175
	19.00	1899001L19
	21.50	1899001L215

# GLASS CLAMPS

**SATIN FINISH**



Back	Glass mm	Ø mm	Code
Round	6 - 10	42.4	1806442C
Round	6 - 10	48.3	1806442D
Flat	6 - 10	-	1806442F

Supplied with 10mm rubbers, for other sizes refer to Square Rubbers table. Type 442.

**SATIN FINISH**



Back	Glass mm	Ø mm	Code
Round	8 - 12	42.4	1804402C
Round	8 - 12	48.3	1804402D
Round	8 - 12	42.4	1806402C
Round	8 - 12	48.3	1806402D
Flat	8 - 12	-	1802402F
Flat	8 - 12	-	1804402F
Flat	8 - 12	-	1806402F

Supplied with 10mm rubbers, for other sizes refer to Square Rubbers table. Type 402.

**SATIN FINISH  
180° DOUBLE**



Glass mm	Code
6 - 10	1806442180

H 45 x L 70 x D 27.6mm.  
Supplied with 10mm rubbers, for other sizes refer to Square Rubbers table. Type 442.

**SATIN FINISH  
90° DOUBLE**



Glass mm	Code
6 - 10	180644290

H 45 x W 60 x D 27.5mm.  
Supplied with 10mm rubbers, for other sizes refer to Square Rubbers table. Type 442.

**SATIN FINISH  
Flat back**



Glass mm	Code
15.0 - 21.5	1806445F

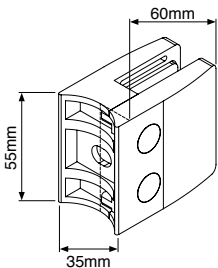
H 70 x L 60 x D 44mm. Supplied with 15mm rubbers, for other sizes refer to Square Rubbers table. Type 445.

**SQUARE RUBBERS**

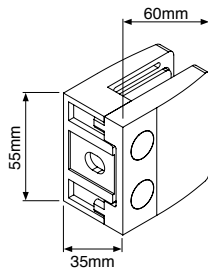
Glass Clamp Code Group	Glass mm	Code
442	6.00	189944206
	8.00	189944208
	10.00	189944210
402	8.00	189900208
	10.00	189900210
	12.00	189900212
445	15.0	1899002L15
	17.5	1899002L175
	19.0	1899002L19
	21.5	1899002L215

## DIMENSION DRAWINGS

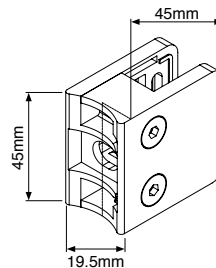
**402 ROUND BACK**



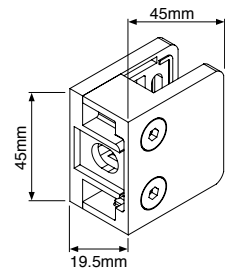
**402 FLAT BACK**



**442 ROUND BACK**



**442 FLAT BACK**



## FIXINGS

**METAL SECURITY PINS**  
For Glass



Glass mm	Code
8 - 10	189900401
12	189900402

Requires a minimum  
Ø 10mm hole in glass.

**PLASTIC SCREW  
COVER CAPS**



Colour	Code
Grey	189900501
Silver	189900502

**VARIABLE FIXING BOLT**  
To give +/- 5° adjustment  
on round back clamps



Description	Code
M8 x 20mm	189900602A
Allen Key*	189900606

\*Allen key is used for  
glass clamps.

**SOCKET HEAD  
CAP SCREW**  
For fixing glass clamps  
into posts



Size mm	Code
M8 x 20	13i0323*
M6 x 20	189900601
M8 x 20	189900602

\*Zinc plated.

**ALLEN KEY**







To suit	Code
8mm bolts	189900605
6mm bolts	189900608

# STIFFENERS

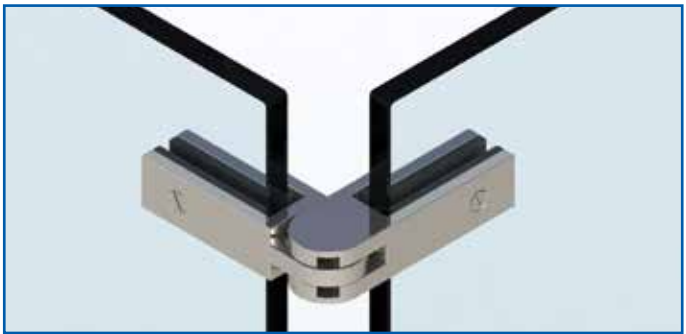


**FEATURES:**

- To join glass panels & tie glass panels back to the building
- To suit 10 - 21.5mm glass thickness
- Made from cast steel or duplex 2205 ultra marine stainless
- Available in a BZP with satin polish

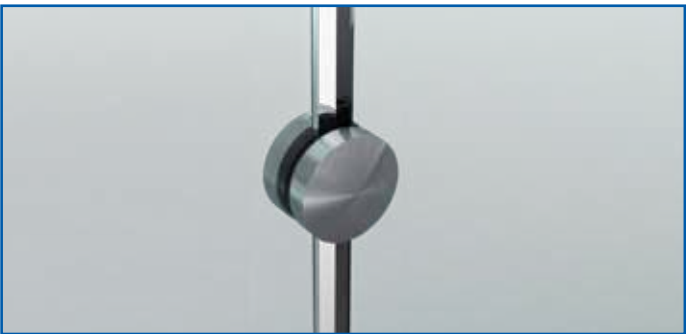





Glass mm	Code	Glass mm	Code	Glass mm	Code	Glass mm	Code
10.00 - 12.00	182242112	10.00 - 12.00	182242212	10.00 - 12.00	182242312	10.00 - 12.00	182242012
13.52 - 15.00	182242115	13.52 - 15.00	182242215	13.52 - 15.00	182242315	13.52 - 15.00	182242015
16.76 - 19.00	182242119	16.76 - 19.00	182242219	16.76 - 19.00	182242319	16.76 - 19.00	182242019
20.00 - 21.50	182242122	20.00 - 21.50	182242222	20.00 - 21.50	182242322	20.00 - 21.50	182242022



# GLASS CONNECTOR

**DOMED FRONT & BACK**



Ø mm	Glass mm	Code
50	12 - 21.5	1806454

# WELDABLE GLASS CLAMPS



An economic alternative to the traditional glass clamp system. They not only look good, but are easy to install with no on-site fixing and if required the mild steel clamps can be galvanised and powder coated after fabrication.

## SPECIFICATION:

- Stainless steel Grade 316 M8 dome nut & countersunk bolt

### SHORT SINGLE



Size mm	Code
80 x 40 x 6	1801405F
80 x 40 x 6	1801407F*
80 x 40 x 6	1806405F

\*With stainless steel discs.

- Rubber washer
- 6mm plate & disc

### LONG SINGLE



Size mm	Code
120 x 40 x 6	1801406F
120 x 40 x 6	1801408F*
120 x 40 x 6	1806406F

\*With stainless steel discs.

- Suits 8 - 12mm glass thickness
- Mild steel & stainless steel

### STRAIGHT DOUBLE



Size mm	Code
160 x 40 x 6	1801409F
160 x 40 x 6	1806409F

### INTERNAL CORNER



Size mm	Code
80 x 80 x 40 x 6	1801409IC

### EXTERNAL CORNER



Size mm	Code
80 x 80 x 40 x 6	1801409EC



### NYLON SPACER



Ø mm	Code
15	1899405NS

### ROUND DISC



Ø mm	Code
40	1899405RD

### RUBBER INLAY



Ø mm	Code
40	1899405Ri

### BOLT & DOME NUT



Ø x Length mm	Code
M8 x 34.6	1899405TA

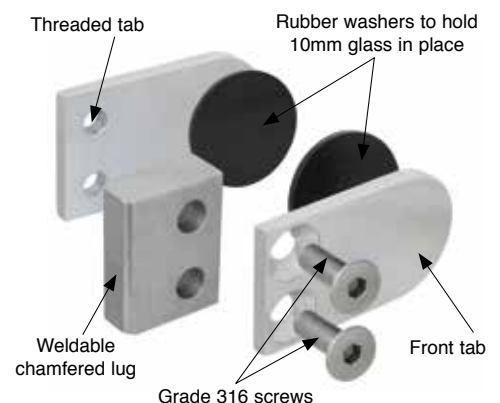
## SPECIFICATION:

- Weldable lug
- No pre-drilled glass required
- For square or round steel posts
- Stainless steel Grade 316 flush 8mm screw
- Size 40 x 80 x 26mm
- Suitable for 10mm glass



Description	Code
BZP tabs with cast steel lug	1801401F
Satin polished 316 tabs with cast steel lug	1801401F316
Satin polished 316 tabs with cast stainless steel 316 lug	1806401W
Spare rubber washer for 1801401F clamp	1899001RW

Only use where glass does not overhang an edge/balcony.



# TIMELESS

## BOLT-DOWN SQUARE POST - SATIN FINISH



### CHOOSE YOUR POST & TOP

END POST

□ mm	Code
40	1806731S40

MID POST

□ mm	Code
40	1806732S40

CORNER POST

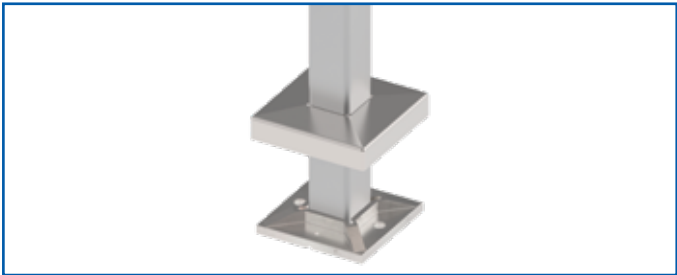
□ mm	Code
40	1806733S40

SATIN FINISH

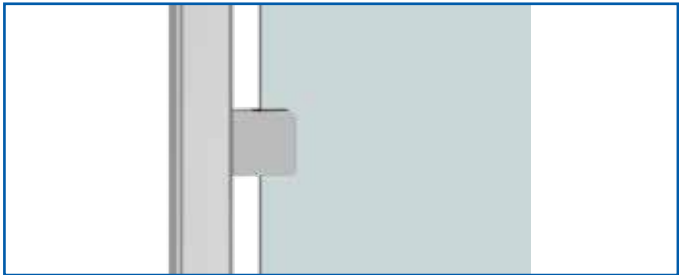
For compatible handrail fittings see page 69.

WE STOCK A RANGE OF STANDARD 10mm GLASS PANELS IN 100mm INCREMENTS TO REDUCE SUPPLY TIME, SEE PAGE 37.

### ALL POSTS HAVE:



Welded base fitting complete with cover.



Glass clamps for 10mm glass (8mm rubbers available).

# SQUARE FITTINGS

**ADJUSTABLE SPIGOT  
SADDLE**  
Tube/tube



□ mm	To Suit Ø mm	Code
40	42.4	1806312S40C

**90° FIXED SPIGOT  
SADDLE**  
Tube/tube



□ mm	To Suit Ø mm	Code
40	42.4	1806311S40C

**ADJUSTABLE SPIGOT  
SADDLE**  
Tube/flat



□ mm	To Suit Ø mm	Code
40	Flat	1806312S40F

**90° FIXED SPIGOT  
SADDLE**  
Tube/flat



□ mm	To Suit Ø mm	Code
40	Flat	1806311S40F

**ADJUSTABLE HANDRAIL  
BRACKET**  
Wall/tube



□ mm	To Suit Ø mm	Code
40	42.4	1806303S40C

**ADJUSTABLE HANDRAIL  
BRACKET**  
Wall/flat



□ mm	To Suit	Code
40	Flat	1806303S40F

**2 HOLE BALUSTER  
BRACKET**



□ mm	Code
40	1806256S40

**SQUARE BALUSTRADE  
BRACKET**



□ mm	Code
40	1806213S40

Weld fix.

**90° ELBOW**



□ mm	Code
40	1806202S40

**3 WAY CORNER**



□ mm	Code
40	1806204S40

**LONG TEE**



□ mm	Code
40	1806205S40

**ADJUSTABLE  
ELBOW**



□ mm	Code
40	1806227S40

**IN-LINE  
CONNECTOR**



□ mm	Code
40	1806206S40

**FLAT TOP  
END CAP**



□ mm	Code
40	1806215S40

**COVER PLATE**



□ mm	Code
40	1806208S40

**WELD ON BASE  
PLATE**



□ mm	Code
40	1806207S40

**WALL FLANGE**



□ mm	Code
40	1806209S40

**TUBE**



Length m	Code
2.9	1806704S40
5.8	1806700S40

To suit code: 1806207S40.

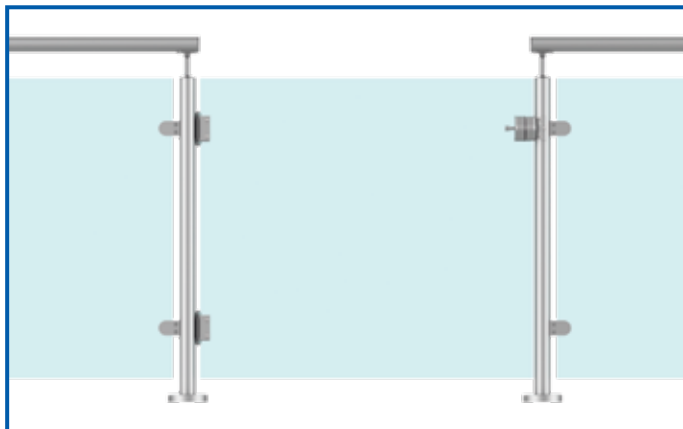
□ 40 x 40mm. 2.5mm wall thickness.

**FOR SQUARE GLASS CLAMPS  
SEE PAGE 65.**

**FOR LOCTITE ADHESIVES & GLUE  
SEE PAGE 92.**

# GLASS GATE HARDWARE

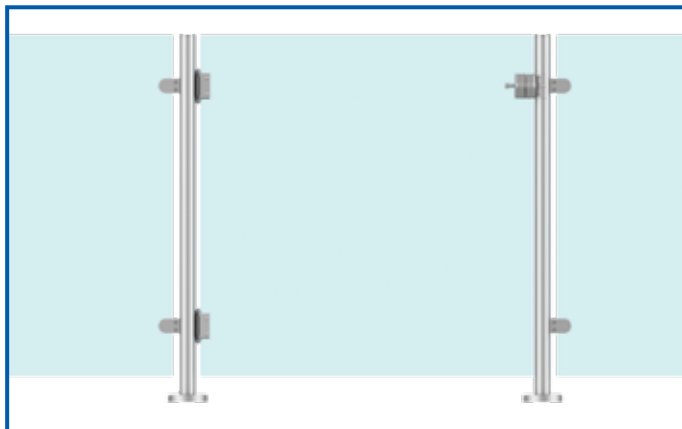
## TIMELESS



Panel	Thickness mm	Height mm	Width mm	Code
Gate	10	900	1000	<b>185510GSP01</b>

Gives 1100mm handrail height when used on a flat surface with saddles and top rail. Achievable with round or square posts and fittings.

## CONTEMPLATION



Panel	Thickness mm	Height mm	Width mm	Code
Gate	10	1024	1000	<b>185510GSP61</b>

Gives 1100mm glass height when used on a flat surface with end caps. Achievable with round or square posts and fittings.

## HINGES & LATCHES

### MAGNETIC LATCH

Glass to round post



To Suit Glass mm	Code
8 - 12	<b>1806518C</b>

### SELF-CLOSING HINGE

Glass to round post



To Suit Glass mm	Code
8 - 12	<b>1806516C</b>

Sold in pairs.

### MAGNETIC LATCH

Glass to square post



To Suit Glass mm	Code
8 - 12	<b>1806518F</b>

### SELF-CLOSING HINGE

Glass to square post



To Suit Glass mm	Code
8 - 10	<b>1806516F</b>

Sold in pairs.

### MAGNETIC LATCH

Glass to glass



To Suit Glass mm	Code
8 - 12	<b>1806517</b>

Holes required in glass, screws compress plate onto glass. For use where there are no posts..

### SELF-CLOSING HINGE

Glass to glass



To Suit Glass mm	Code
8 - 12	<b>1806515</b>

Sold in pairs. For use where there are no posts.

### SELF-CLOSING GLASS GATE HINGE



Type	To Suit Ø mm	Code
Vinyl	50	<b>05GC09</b>

For fixing 8 and 10mm glass weighing up to 25kg on to round posts. Glass needs to be pre-drilled. Sold in pairs.

### SELF-CLOSING SAFETY GATE HINGE



Description	Code
For stainless tube	<b>18SGH</b>

Weldable.

## LATCH & CATCH



Ø mm	Code
42.4	<b>1806513C</b>
48.3	<b>1806513D</b>

## GATE HINGE PIN & BOLT



Ø mm	Code
42.4	<b>1806514C</b>
48.3	<b>1806514D</b>

**FOR OUR FULL RANGE OF STANDARD 10mm GLASS PANELS SEE PAGE 37.**

# CLEANING PRODUCTS

## 3-PART TEA STAINING CLEANER KIT

Keeps stainless handrail & fittings in top condition long after installation



Description	ml	Code
Demi water Spray	500	1899009DW
Stainless Steel Polish Spray	400	1899009SSP
R2U Stainless Steel Cleaner 500 ml Spray	500	1899009SSC

## PICKLING GEL

Helps remove rust, dirt and grime from stainless steel



kg	Code
2	18990094023

## STAINLESS STEEL CLEANER

Degreases & cleans surfaces ready for gluing



ml	Code
400	18990097063

## UNBLOCKING SPRAY



ml	Code
400	2912

Suitable for various hardware.

## STAINLESS CLEANING WIPE

Removes finger & hand marks left during installation



Code
189900901

## POLISHING CLOTHS

For removal of light scratches on stainless tube & fittings



Description	Code
Fine (grey)	189901101
Medium (red)	189901102

## BOND IT GLASS CLEANER

Fast acting all purpose cleaner with non-smear formulation



Litre	Code
1	1859GC1

Use with code: 29RT150.

## LOW LINT TEXTELINE CLOTHS

Pack of 150

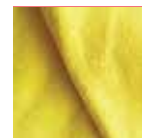


Code
29RT150

Ideal for use with code: 1859GC1.

## MICRO FIBRE CLOTH

Pack of 10



Colour	Size mm	Code
Yellow	400 x 400	29MFC40

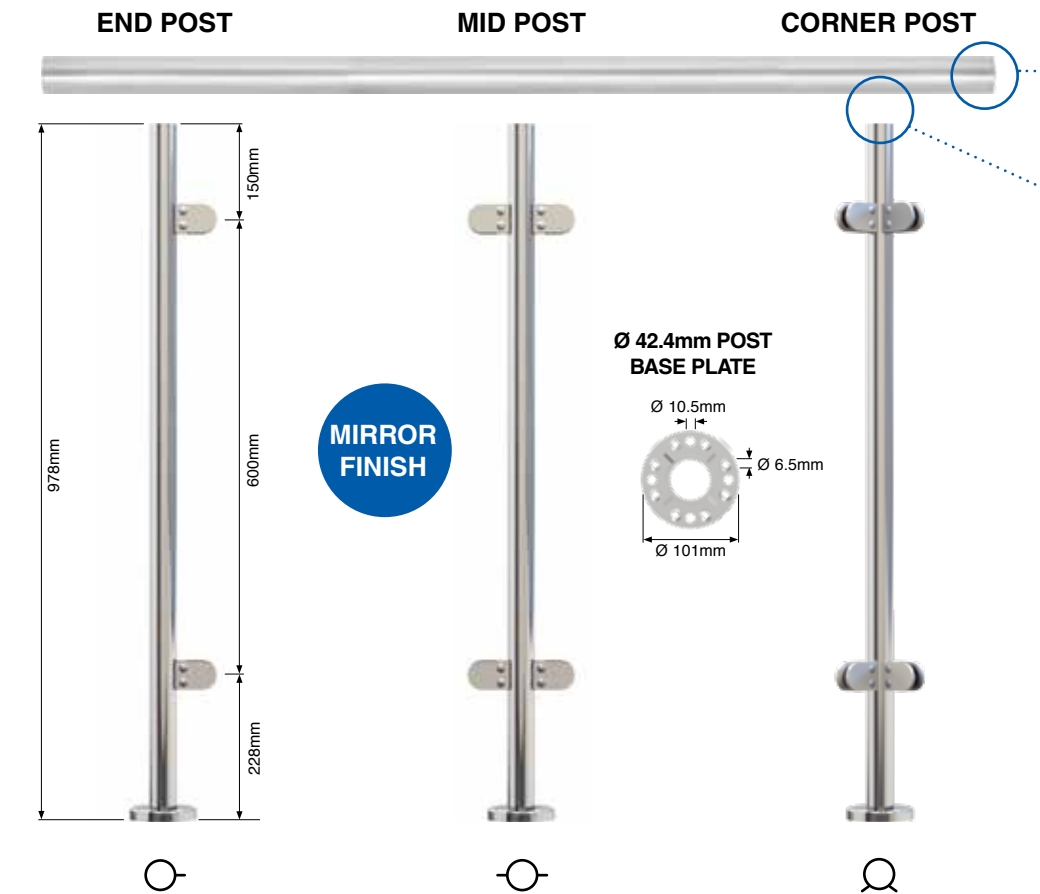
FOR OUR RANGE OF STAINLESS STEEL COMPONENTS SEE FROM PAGE 56.

# TIMELESS

## BOLT-DOWN ROUND POST - MIRROR FINISH



### CHOOSE YOUR POST & TOP



Ø mm	Code
42.4	1806791CM

Ø mm	Code
42.4	1806792CM

Ø mm	Code
42.4	1806793CM

### 3-PART TEA STAINING CLEANER KIT

Keeps stainless handrail & fittings in top condition long after installation



Description	ml	Code
Demi water Spray	500	1899009DW
Stainless Steel Polish Spray	400	1899009SSP
R2U Stainless Steel Cleaner 500 ml Spray	500	1899009SSC

### STAINLESS STEEL CLEANER

Degreases & cleans surfaces ready for gluing



ml	Code
400	18990097063

### BOND IT GLASS CLEANER

Fast acting all purpose cleaner with non smear formulation



Litre	Code
1	1859GC1

FOR LOCTITE ADHESIVES & GLUE SEE PAGE 92.

# CONTEMPLATION

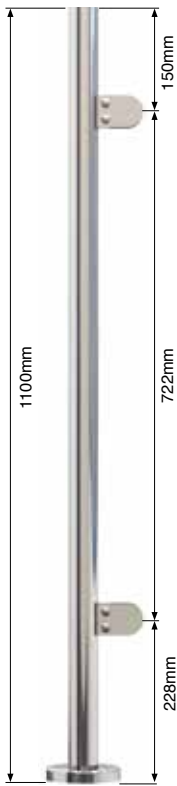
## BOLT-DOWN ROUND POST - MIRROR FINISH



END POST

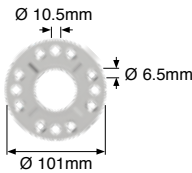
MID POST

CORNER POST



MIRROR  
FINISH

Ø 42.4mm POST  
BASE PLATE



### RANGE OF END CAPS

To be used with bolt-down and concrete-in posts. See page 74.



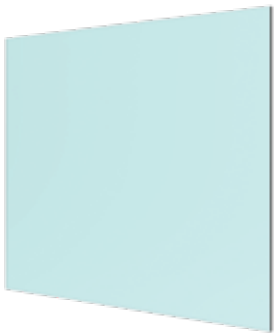
Raised Top



7 Groove Flat Top

### NEW GLASS PANELS

For our full range of standard glass panels to suit our Contemplation range, see page 37.



Ø mm	Code
42.4	1806761CM

Top fitting not included.

Ø mm	Code
42.4	1806762CM

Top fitting not included.

Ø mm	Code
42.4	1806763CM

Top fitting not included.

### CONCRETE FIXINGS

#### HEX HEAD WITH FLANGE



Ø mm	Length mm	Code
M8	75	5002HCS875

#### MULTI-FIX HEX HEAD BOLT



Ø mm	Length mm	Code
M10	75	5002MF10875

#### THROUGH BOLT



Ø mm	Length mm	Code
M8	95	5006TB08100

### ALLEN KEY

For glass clamps



Code
189900606

# MIRROR FINISH FITTINGS

**HANDRAIL BRACKET FIXED SPIGOT**  
Wall/tube



Ø mm	Wall to Bracket Centre mm	Code
42.4	85	171176CM
48.3	85	171176DM

**90° FIXED SPIGOT SADDLE**  
Tube/tube



Ø mm	Code
42.4	1806311CCM

**ADJUSTABLE SPIGOT SADDLE**  
Tube/tube



Ø mm	Code
42.4	1806312CCM

**90° ELBOW ROUND CORNER**



Ø mm	Code
42.4	1806201CM

**ADJUSTABLE ELBOW**



Ø mm	Code
42.4	1806203CM

**ADJUSTABLE ELBOW SMOOTH**



Ø mm	Code
42.4	1806227CM

**SCROLL END**



Ø mm	Code
42.4	1806221CM

**IN-LINE CONNECTOR**



Ø mm	Code
42.4	1806206CM

**EXTERNAL ROUND TUBE FLANGE**



Ø mm	Code
42.4	1806209CM

**2 HOLE BALUSTER BRACKET**



Ø mm	Code
42.4	1806212CM

**WELD ON BASE PLATE**  
With 'O' ring & cover



Ø mm	Code
42.4	1806228CM

**COVER PLATE**

To suit 235C, see page 45



Ø mm	Code
42.4	1806236CM

**RAISED TOP END CAP**



Ø mm	Code
42.4	1806215CM

**7 GROOVE FLAT TOP END CAP**



Ø mm	Code
42.4	1806274CM
48.3	1806274DM

Glue fit.

**TUBE**



Ø mm	Length m	Code
42.4	3	1806704CM
42.4	6	1806700CM
48.3	3	1806704DM
48.3	6	1806700DM

2mm thickness.

**FOR MIRROR FINISH PRE-ASSEMBLED POSTS SEE FROM PAGE 72.**

**FOR LOCTITE ADHESIVES & GLUE SEE PAGE 92.**

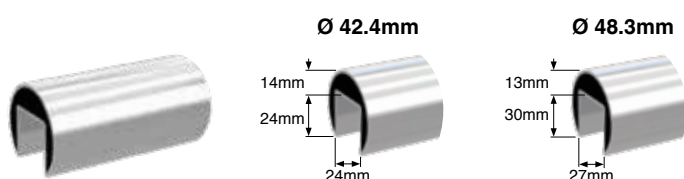
# MIRROR FINISH SPLIT TUBE RAIL SYSTEM

Ø 42.4 & 48.3mm PROFILES



**SPLIT TUBE**

**GASKET**



**3m LENGTH**

Ø mm	Code
42.4	18067053CM
48.3	18067053DM

1.5mm wall thickness.

**6m LENGTH**

Ø mm	Code
42.4	1806705CM
48.3	1806705DM

1.5mm wall thickness.



**Ø 42.4mm**

Glass Thickness mm	Code
8 - 11	189903811C
11.5 - 13.5	189903115135C
15	18990315C
16 - 17.5	18990316175C
19	18990319C
20 - 21.5	18990320215C

**Ø 48.3mm**

Glass Thickness mm	Code
8 - 11	189903811D
11.5 - 13.5	189903115135D
15	18990315D
16 - 17.5	18990316175D
19	18990319D
20 - 21.5	18990320215D

**90° HORIZONTAL CORNER**



Ø mm	Code
42.4	1806411CM
48.3	1806411DM

**25 - 55° DOWNWARDS  
ADJUSTABLE CONNECTOR**



Ø mm	Code
42.4	1806416CM
48.3	1806416DM

**25 - 55° UPWARDS  
ADJUSTABLE CONNECTOR**



Ø mm	Code
42.4	1806417CM
48.3	1806417DM

**END CAP**



Ø mm	Code
42.4	1806413CM
48.3	1806413DM

**WALL/FLOOR FLANGE**



Ø mm	Code
42.4	1806415CM
48.3	1806415DM

**TUBE ADAPTOR**



Ø mm	Code
42.4	1806414CM

**IN-LINE CONNECTOR**



Ø mm	Code
42.4	1806412CM
48.3	1806412DM

**FOR OUR FULL RANGE OF BALUSTRADE SYSTEMS SEE PAGE 9.**



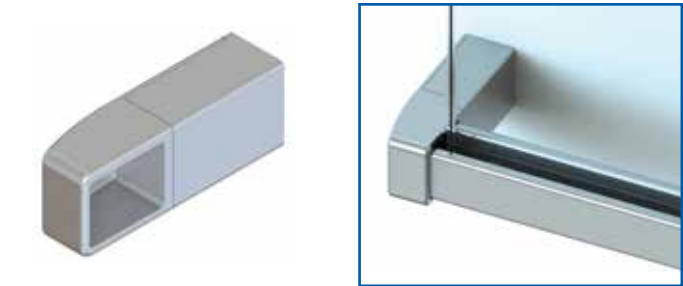
# ELEGANCE JULIET BALCONY



**FEATURES:**

- To suit 40 x 30mm rectangular top rail system, see page 26
- No welding required
- Designed for 12 - 21.5mm glass
- Reduced visual impact
- Glass is 80mm off the wall
- All products are satin polish finish

**BRACKET SET**



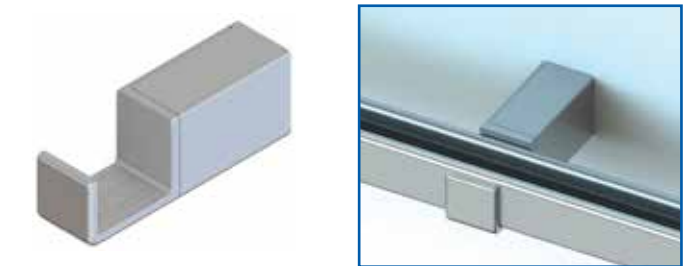
Fixing Holes Ø mm	Code
12	1822JBS4030

Sold in pairs, left & right hand side.

**EXPLODED BRACKET**

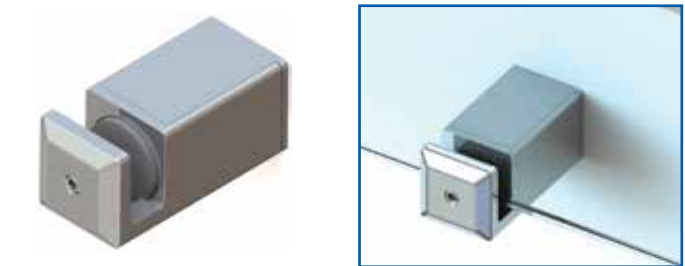


**CENTRE SUPPORT BRACKET**



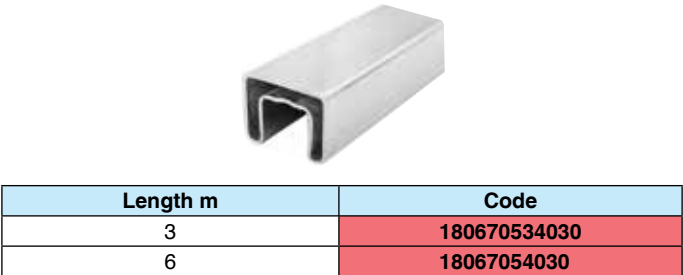
Fixing Hole Ø mm	Code
12	1822CSB4030

**GLASS SUPPORT BRACKET**



Fixing Hole mm	Code
13 x 22	1822GSBS

**SPLIT TUBE**



Length m	Code
3	180670534030
6	18067054030

**GASKET**



To Suit Glass mm	Length m	Code
8 - 11	1	189903811C
11.5 - 13.5	1	189903115135C
15	1	18990315C
16 - 17.5	1	18990316175C
19	1	18990319C
20 - 21.5	1	18990320215C

**FOR OUR FULL RANGE OF GLASS PANELS SEE PAGES 10, 11 & 37.**

# ELEGANCE ROMEO BALCONY



## FEATURES:

- To suit 60 x 30mm oval top rail system, see page 27
- No welding required
- Designed for 12 - 21.5mm glass
- Reduced visual impact
- Glass is 80mm off the wall
- All products are satin polish finish

## BRACKET SET



Fixing Hole Ø mm	Code
12	1822JBS6030

Sold in pairs, left & right hand side.

## EXPLODED BRACKET



## CENTRE SUPPORT BRACKET



Fixing Hole Ø mm	Code
12	1822CSB6030

## GLASS SUPPORT BRACKET



Fixing Hole mm	Code
13 x 22	1822GSBR

## SPLIT TUBE



Length m	Code
3	180670536030
6	18067056030

## GASKET



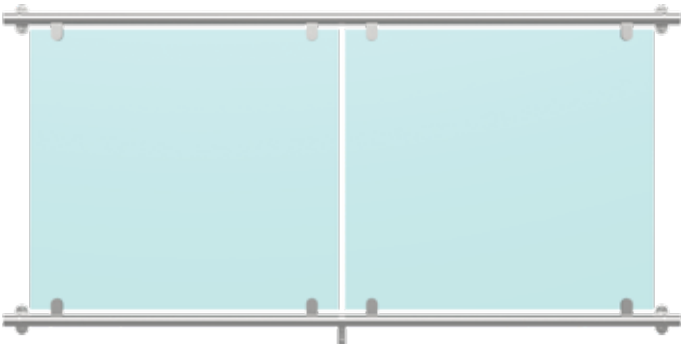
To Suit Glass mm	Length m	Code
8 - 11	1	189903811C
11.5 - 13.5	1	189903115135C
15	1	18990315C
16 - 17.5	1	18990316175C
19	1	18990319C
20 - 21.5	1	18990320215C

**FOR OUR FULL RANGE OF GLASS  
PANELS SEE PAGES 10, 11 & 37.**

# VERONA JULIET BALCONY



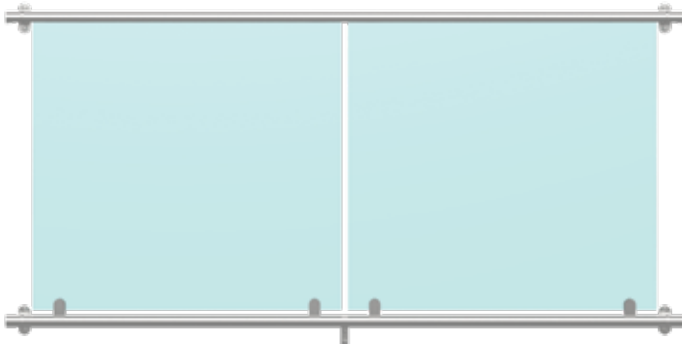
GLASS CLAMPS ON TOP & BOTTOM RAIL KIT



Rail	Opening Width mm	Overall Width mm	Ø mm	Glass mm	Code
Top	2300	2650	48.3	10	1806814D
Bottom	2300	2650	48.3	10	1806818D

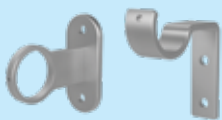
Please order glass panels separately. Supplied with four wall brackets and one trellis bracket.

SPLIT TUBE ON TOP RAIL & GLASS CLAMPS ON BOTTOM RAIL KIT



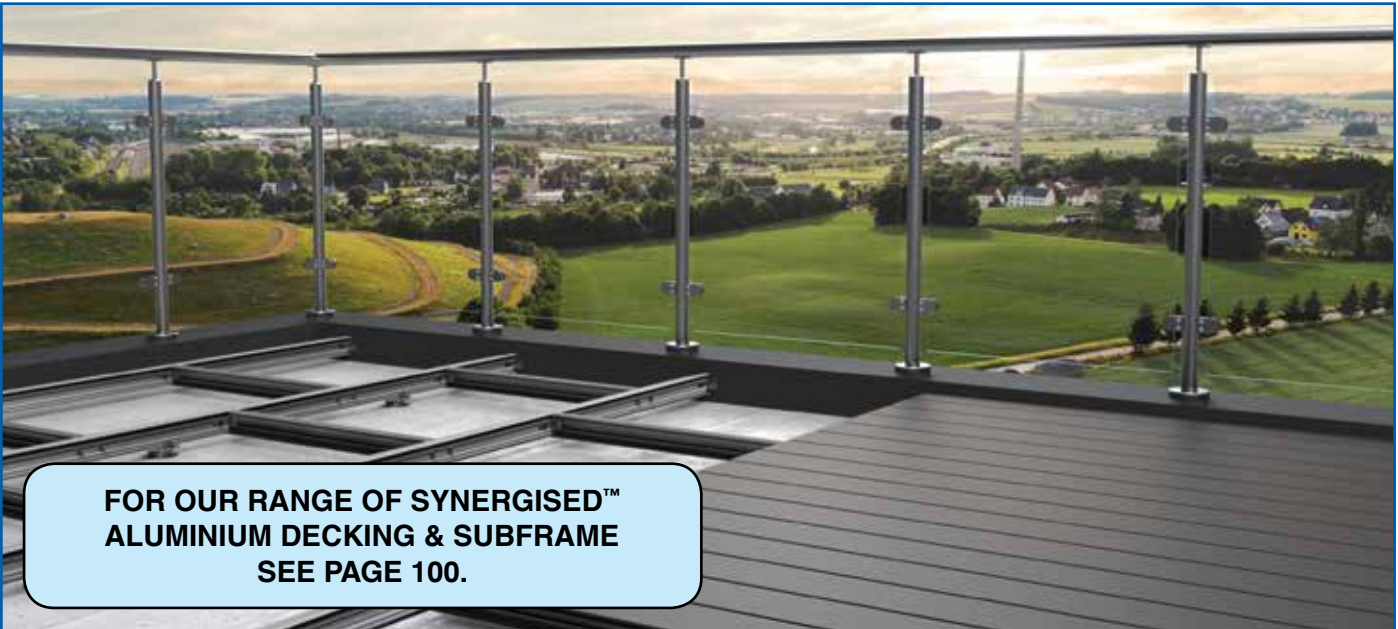
Rail	Opening Width mm	Overall Width mm	Ø mm	Glass mm	Code
Top	2300	2650	48.3	10	1806816D
Bottom	2300	2650	48.3	10	1806818D

Please order glass panels separately. Supplied with four wall brackets and one trellis bracket.



FOR EXTRA WALL OR TUBE  
SUPPORT BRACKETS  
SEE PAGE 62.

FOR OUR FULL RANGE OF GLASS  
PANELS SEE PAGES 10, 11 & 37.





Fortitude Traditional railings are one of the easiest, most versatile, off the shelf handrail solutions on the market today. The range consists of a series of railing panels, posts and brackets that can provide a number of different design solutions. Available in either a long lasting, UV resistant, stylish black sand or white gloss finish.

The steel panels can be cut to size on site, to suit different post centres. The innovative and unique steel raking panel can be adjusted, to allow the installation of railings on stairs and gradients, without needing to pre-fabricate. The panels are cleverly designed to conceal the pivot points of each spindle.

Our Fortitude Contemplation range of posts with glass clamps and 10mm standard glass panels, provide an off the shelf, stylish handrailing system, which maximises the view from your deck. There is nothing to stop the mixing of Traditional steel panels and Contemplation glass panels, to open up the view in specific sections of an installation.

The two styles of Contemporary Glass Panels or Slats, are supplied in a kit with an aluminium top and bottom rail, that cleverly integrates the glass into the design. The glass is available in a clear or grey tint. If you wish to cut the kits to length, glass can be supplied made to order to suit.



# FORTITUDE™

## INTRODUCTION TO THE RANGE

Available in two polyester powder coated finishes, a contemporary black sand and an elegant white gloss. Fortitude is a high quality, long lasting handrailing solution. It is made from pre-galvanised steel, which is then sprayed with a protective zinc phosphate coating, then treated with a further coating, before finally getting treated with a high quality Akzo Nobel UV resistant powder coated finish.

**FORTITUDE RAILINGS • PURE QUALITY • PREMIUM FINISH**

1. Made from pre-galv steel

2. Zinc Phosphate pre-treatment

3. Electro coated

4. Quality Akzo Nobel powder coated finish

For ease and simplicity all our brackets are supplied with suitable fixings for use on steel or wooden posts.

**BRACKET FOR STEEL POSTS**



**BRACKET FOR BRICK PILLARS**



**BRACKET FOR WOODEN POSTS**



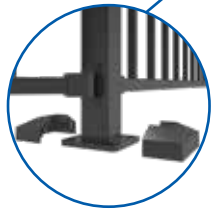
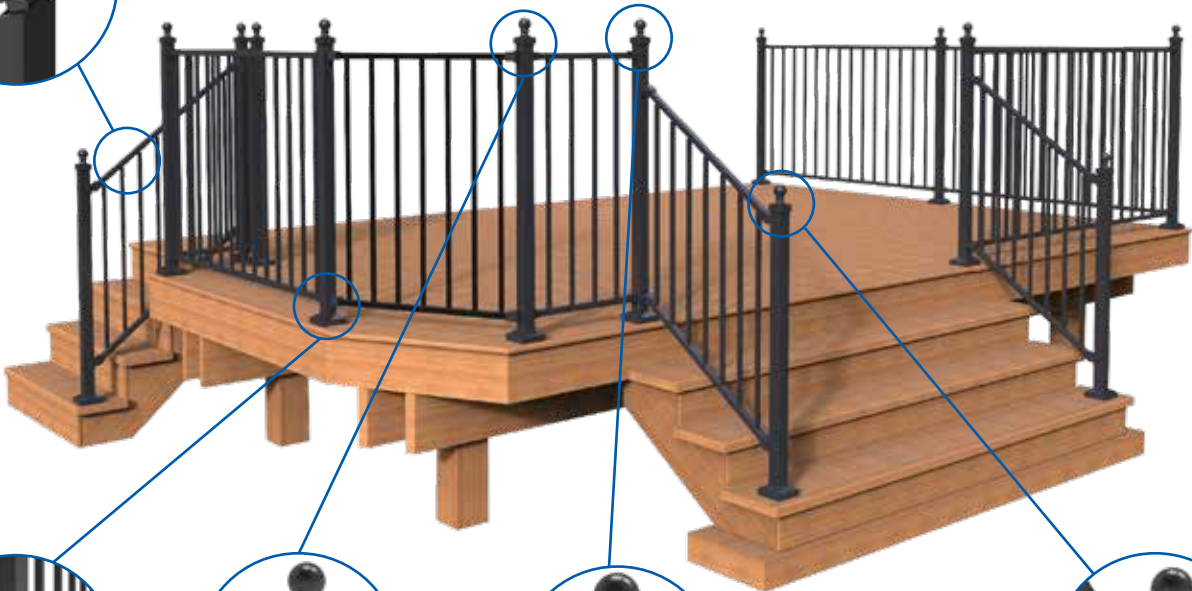
**GLASS CLAMPS FOR STEEL POSTS**



Raking panels adjust to max. 40°



**TO COMPLEMENT YOUR FORTITUDE HANDRAIL, WHY NOT TAKE A LOOK AT OUR COMPOSITE DECK BOARDS ON PAGE 105.**



Posts include a two part cover cap



Corner brackets adjust to 120°



Post caps easily slide on top of the posts

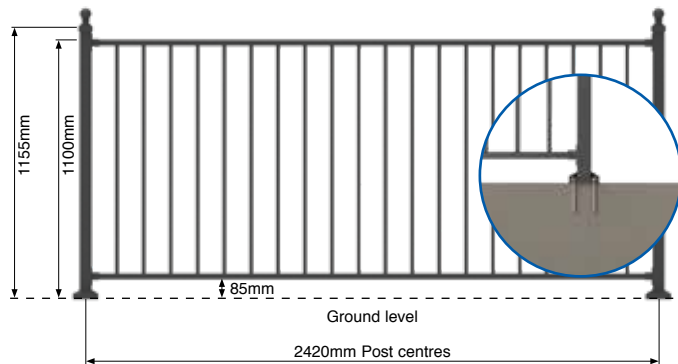


Stair bracket can adjust to 60° up or down & angle adaptor can adjust to 40°

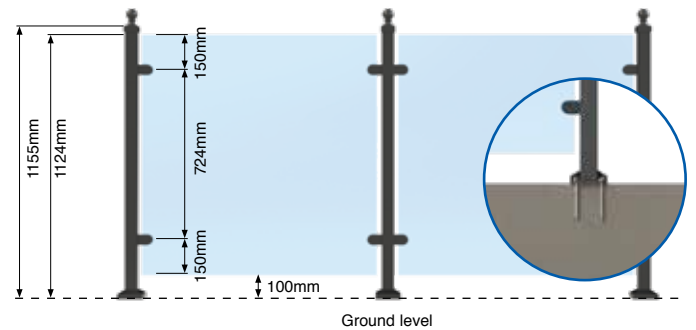


### APPLICATION SCENARIOS

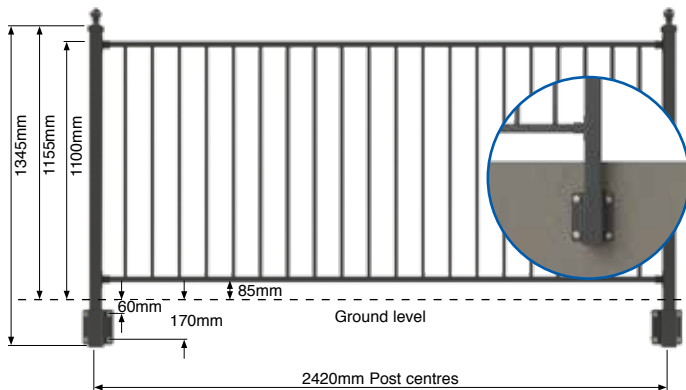
#### BOLT-DOWN POSTS



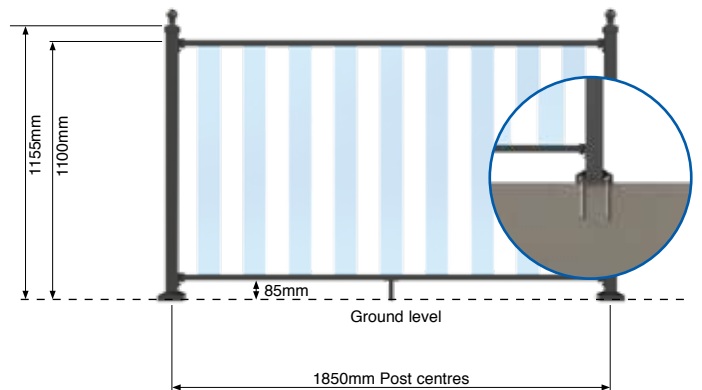
#### PRE-ASSEMBLED POSTS WITH GLASS CLAMPS



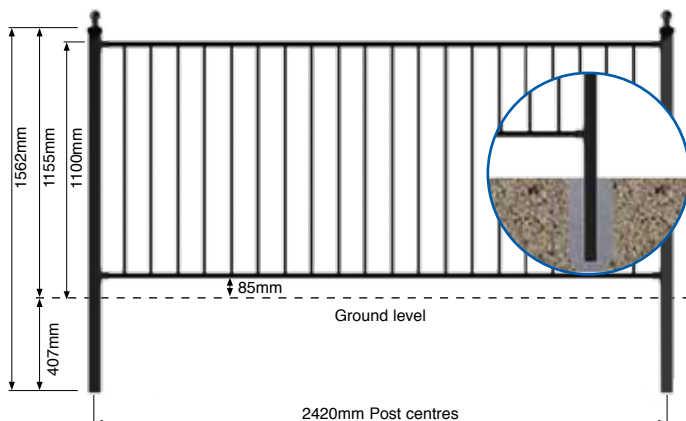
#### SIDE-FIX POSTS WITH FASCIA BRACKETS



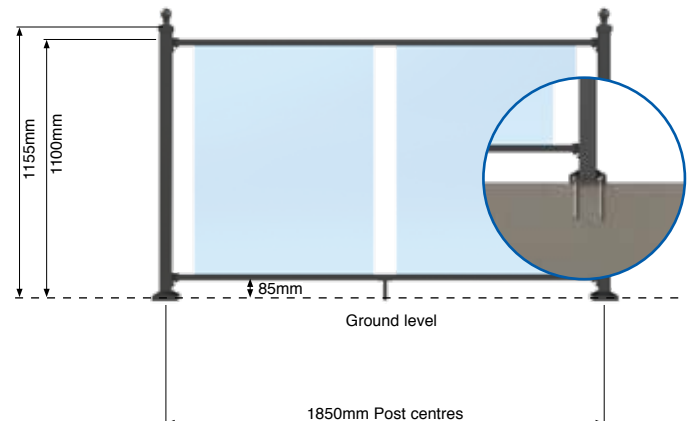
#### CHANNEL KIT WITH GLASS SLATS



#### CONCRETE-IN POSTS



#### CHANNEL KIT WITH GLASS PANELS



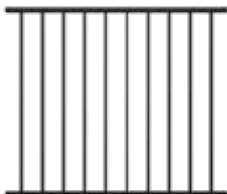
# FORTITUDE™

## TRADITIONAL RAILING PANELS

### STEEL RAILINGS

#### FIXED RAILING PANEL

To give 1100mm high railings

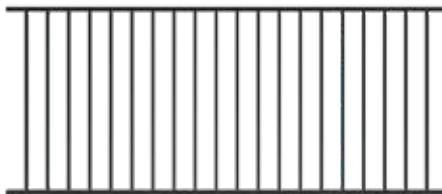


Colour	Height mm	Width mm	Code
Black Sand	1016	1200	64FR1012B

Horizontal rails: □ 25mm x 1.5mm wall thickness.  
Infill bars: □ 16mm x 1.2mm wall thickness.

#### FIXED RAILING PANEL

To give 1100mm high railings

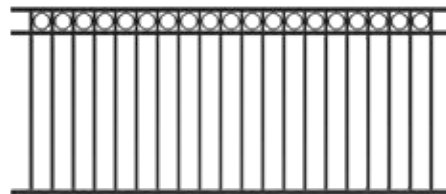


Colour	Height mm	Width mm	Code
Black Sand	1016	2370	64FR10B
White Gloss	1016	2370	64FR10W

Horizontal rails: □ 25mm x 1.5mm wall thickness.  
Infill bars: □ 16mm x 1.2mm wall thickness.

#### FIXED CIRCLES RAILING PANEL

To give 1100mm high railings

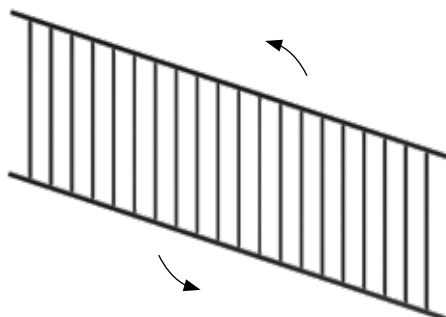


Colour	Height mm	Width mm	Code
Black Sand	1016	2370	64FRC10B
White Gloss	1016	2370	64FRC10W

Horizontal rails: □ 25mm x 1.5mm wall thickness.  
Infill bars: □ 16mm x 1.2mm wall thickness.  
Circles: Ø 96 x 8mm.

#### ADJUSTABLE RAKING PANEL

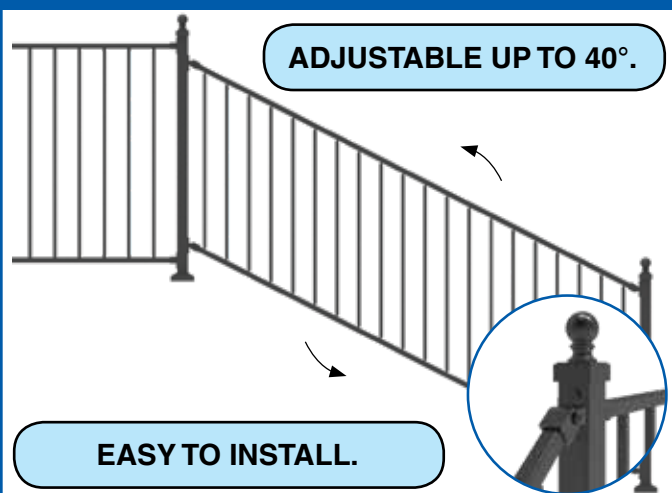
For stairs & slopes, up to 40°



Colour	Height mm	Width mm	Code
Black Sand	863	2320	64ARP10B
White Gloss	863	2320	64ARP10W

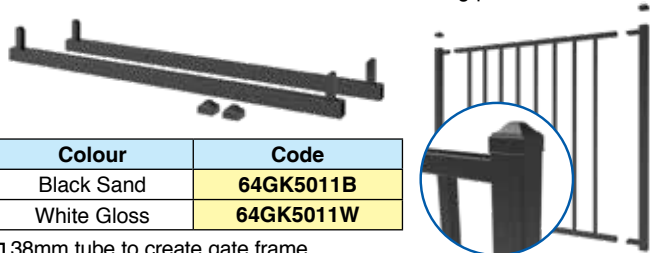
Horizontal rails: □ 25mm x 1.5mm wall thickness. Infill bars: □ 16mm x 1.2mm wall thickness.

#### A TIME & MONEY SAVING SOLUTION FOR STAIRS OR SLOPES



#### RAILING GATE KIT

To be used with a cut to size railing panel



Colour	Code
Black Sand	64GK5011B
White Gloss	64GK5011W

□ 38mm tube to create gate frame.



#### UNSPRUNG HINGE

Suitable for 25 - 50mm posts



H x W mm	Code
90 x 70	09FA30
110 x 75	09FA31

Maximum gate weight 50kg per pair. Polymer.

#### GATE HINGE

With 2 legs



Size mm	Code (Pair)
23 / 23	09FA20

Maximum gate weight 52kg per pair. Polymer.

#### MAGNA-LATCH

General purpose magnetic gate latch

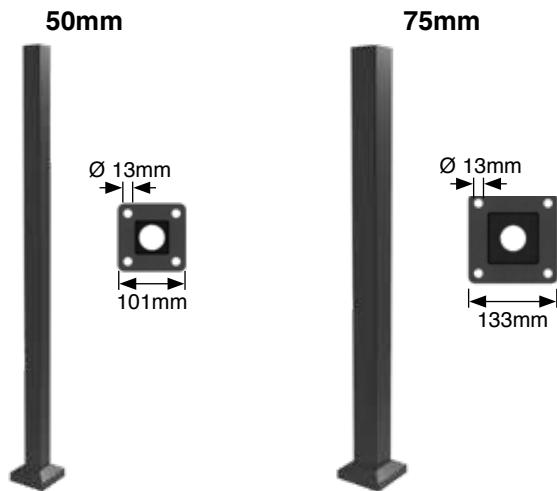


Code
09FA27

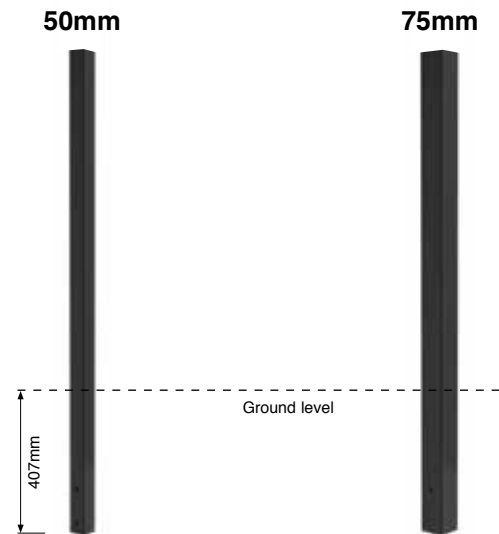
Non-lockable. Side Pull. Polymer.

FOR OUR RANGE OF POSTS SEE PAGE 83.

### BOLT-DOWN STEEL POSTS



### CONCRETE-IN



Colour	Height mm	□ mm	Thickness mm	Code
Black Sand	1155	50	2.3	64PB5011B
Black Sand	1155	75	2.3	64PB7511B
White Gloss	1155	50	2.3	64PB5011W
White Gloss	1155	75	2.3	64PB7511W
Black Sand	1155	50	3.0	59PBF5011BS
Black Sand	1155	75	3.0	59PBF7511BS
White Gloss	1155	50	3.0	59PBF5011W
White Gloss	1155	75	3.0	59PBF7511W

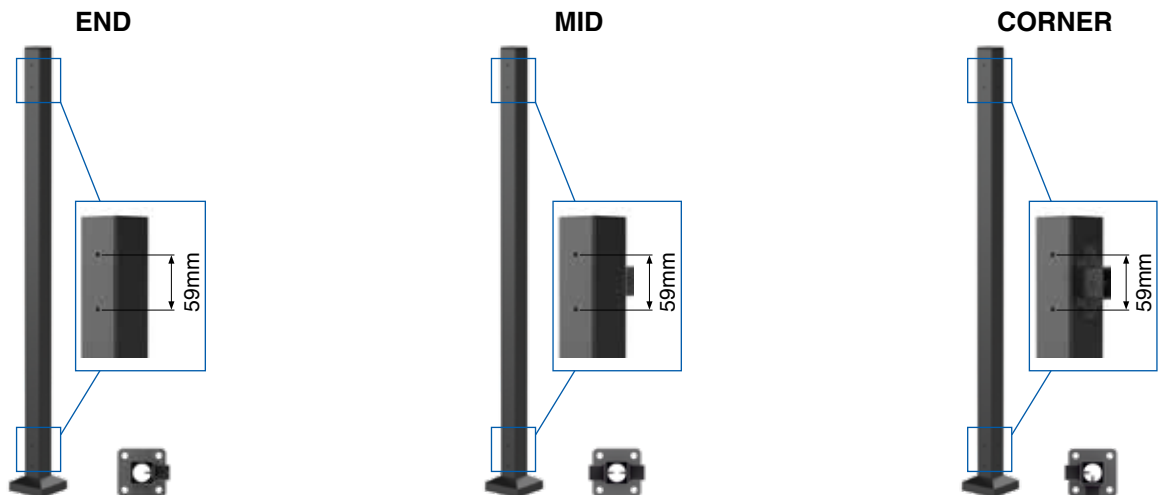
Colour	Height mm	□ mm	Code
Black Sand	1562	50	64PC5011B
Black Sand	1562	75	64PC7511B

2.3mm thickness. Supplied with protective cap.

**FOR POST CAPS & BRACKETS SEE PAGE 85.**

Supplied with base cover plate & protective cap. For fixing bolts use code: **5002HCS1075**.

### PRE-DRILLED BOLT-DOWN



**ONLY FOR USE WITH SUPERIOR HORIZONTAL ANGLE BRACKET OR SUPERIOR UNIVERSAL BRACKET.**

Description	Colour	Height mm	□ 50mm Code	□ 75mm Code
End	Black Sand	1155	64PBE5011B	64PBE7511B
Mid	Black Sand	1155	64PBM5011B	64PBM7511B
Corner	Black Sand	1155	64PBC5011B	64PBC7511B

2.3mm thickness. Supplied with base cover plate & protective cap. Ø 5mm pre-drilled holes. For use with fixed panels. Gives 1100mm high handrail on flat surfaces. For fixing bolts use code: **5002HCS1075**.

### HEX HEAD WITH FLANGE

R-LX-HF-ZF



Description	Size mm	Code
For fixing fascia mount brackets	M10 x 75	5002HCS1075
For bolt-down & 75mm side-fix	M12 x 75	5002HCS1275

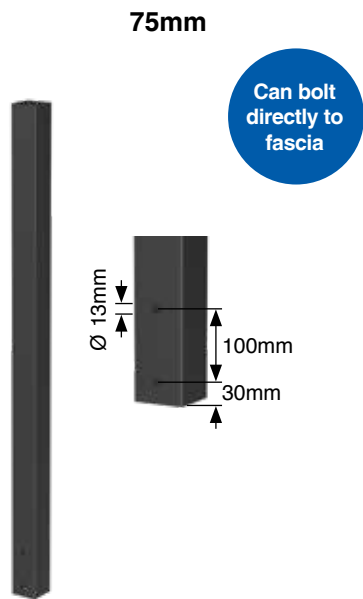
For cracked and non-cracked concrete. Wood fixings available on request.

**FOR RAILING PANELS  
SEE PAGE 82.**

# FORTITUDE™

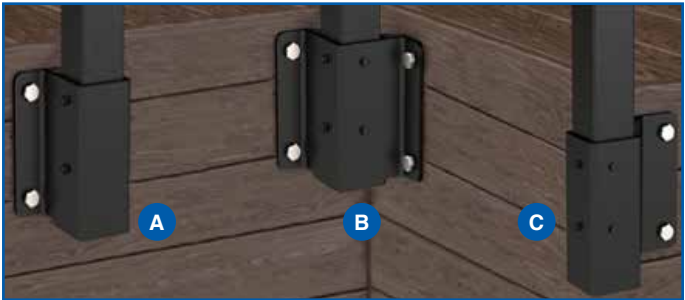
## POSTS

### SIDE-FIX POST



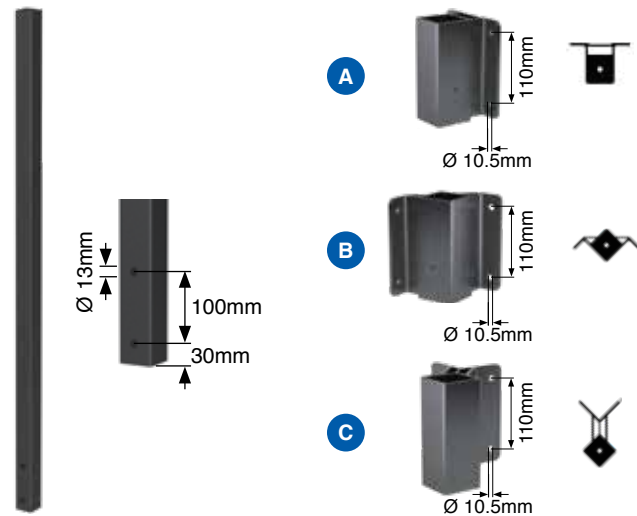
Colour	Size □ mm	Height mm	Code
Black Sand	75	1345	59PSF7513BS
White Gloss			59PSF7513W

3mm thickness. Post cap sold separately, see page 83.



### SIDE-FIX POST AND FASCIA BRACKETS

#### 50mm FASCIA BRACKETS



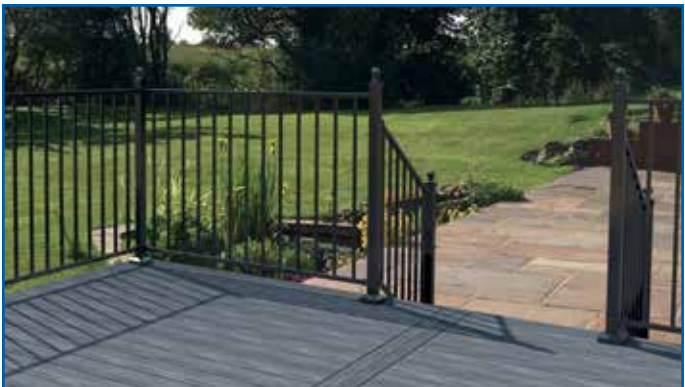
Colour	Size □ mm	Height mm	Code
Black Sand	50	1345	59PSF5013BS
White Gloss			59PSF5013W

3mm thickness. Post cap sold separately, see page 83.

### FASCIA BRACKETS

Bracket	Description	Colour	Size □ mm	Code
A	End/Mid	Black sand	50	59FMM50BS
		White Gloss		59FMM50W
B	Inside Corner	Black sand	50	59FMIC50BS
		White Gloss		59FMIC50W
C	Outside Corner	Black Sand	50	59FMOC50BS
		White Gloss		59FMOC50W

Supplied with 4 x M5 self-drilling screw to secure post in place. Suitable for use with 50mm square posts.



## POST CAPS, BRACKETS & GATE KIT

### BALL POST CAP



50mm cap.



75mm cap.

Colour	To Suit □ mm	Code
Black Sand	50	64CB50B
White Gloss	50	64CB50W
Black Sand	75	64CB75B
White Gloss	75	64CB75W

### PRESSED POST CAP



Colour	To Suit □ mm	Code
Black Sand	50	64CD50B
White Gloss	50	64CD50W
Black Sand	75	64CD75B
White Gloss	75	64CD75W

### PYRAMID POST CAP



Colour	To Suit □ mm	Code
Black Sand	50	64CP50B
White Gloss	50	64CP50W
Black Sand	75	64CP75B
White Gloss	75	64CP75W

### CHOICE UNIVERSAL BRACKET

For use with fixed & raking panels



Colour	To Suit □ mm	Code
Black Sand	25	64CUB25B
White Gloss	25	64CUB25W

Supplied as a pack of 4, with steel & wood fixings.

### CHOICE ANGLE ADAPTOR

For horizontal & vertical angle applications, using the choice universal bracket, 40° left/right & up/down



Colour	Code
Black Sand	64CAA25B
White Gloss	64CAA25W

Supplied as a pack of 4, with set screws to screw to the universal bracket.

### SUPERIOR STAIR BRACKET

For use with raking panel, 60° up & down



Colour	To Suit □ mm	Code
Black Sand	25	64SSB25B
White Gloss	25	64SSB25W

Supplied as a pack of 4, with steel & wood fixings.

### SUPERIOR HORIZONTAL ANGLE BRACKET

For use with fixed panels, 60° left & right



Colour	To Suit □ mm	Code
Black Sand	25	64SCB25B
White Gloss	25	64SCB25W

Supplied as a pack of 4, with steel & wood fixings.

### SUPERIOR UNIVERSAL BRACKET

For use with fixed panels



Colour	To Suit □ mm	Code
Black Sand	25	64SUB25B
White Gloss	25	64SUB25W

Supplied as a pack of 4, with steel & wood fixings.

### CAP RAIL CLIP

For wooden handrail



Colour	To Suit □ mm	Code
Black Sand	25	64CR25B
White Gloss	25	64CR25W

Supplied as a pack of 4, with wood/composite fixings.

## TOUCH UP PAINTS

### SPRAY



Colour	ml	Code
Black Sand	400	29PC400SBS
Gloss White - RAL 9016	400	29PC400SW

### BRUSHABLE



Colour	ml	Code
Black Sand	125	29PC125TBS
Gloss White - RAL 9016	125	29PC125TW

Supplied with brush.

## DRILLING TEMPLATES

### UNIVERSAL BRACKET TEMPLATE

To ensure quick & easy positioning of brackets



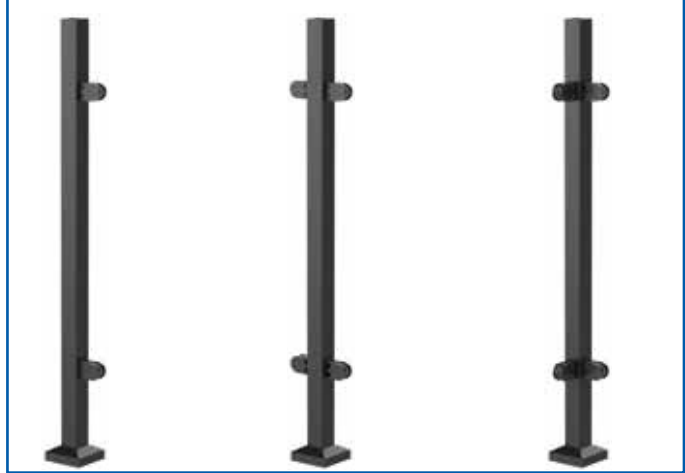
Code
64UT25

# FORTITUDE™

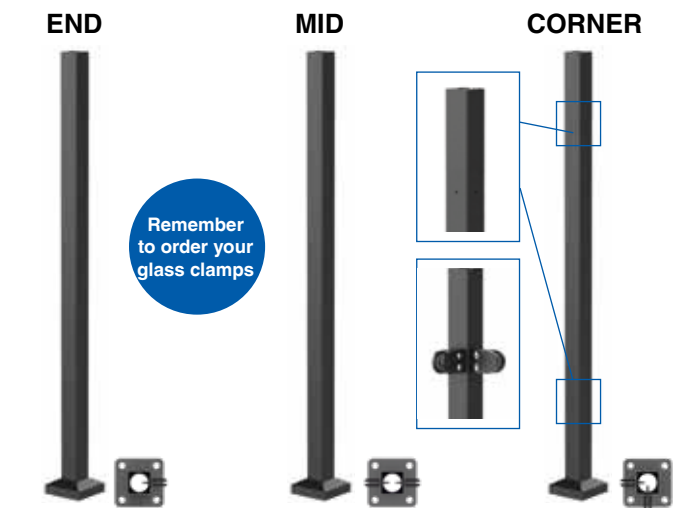
## CONTEMPLATION



IMAGE SHOWS ASSEMBLED POSTS



PRE-DRILLED POSTS FOR GLASS CLAMPS



Description	Colour	Height mm	□ 50mm Code	□ 75mm Code
End	Black Sand	1155	64PB76150B	64PB76175B
Mid	Black Sand	1155	64PB76250B	64PB76275B
Corner	Black Sand	1155	64PB76350B	64PB76375B

2.3mm thickness. Supplied with base cover plate & protective cap. Pre-drilled holes for use with glass clamps code: **1805401FBS**. For fixing bolts use code: **5002HCS1075**.

**FOR OUR GLASS SLATS & PANEL SYSTEMS  
SEE PAGE 87.**

GLASS PANELS

1024mm height x 10mm thickness

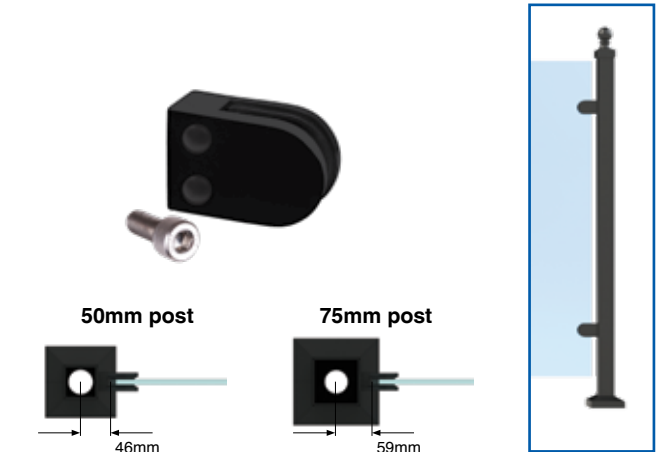


Width mm	Code
100	1855101001024
200	1855102001024
300	1855103001024
400	1855104001024
500	1855105001024
600	1855106001024
700	1855107001024
800	1855108001024
900	1855109001024
1000	18551010001024
1100	18551011001024

Gives 1100mm high handrail on flat surfaces.

ROUND GLASS CLAMP

Flat back



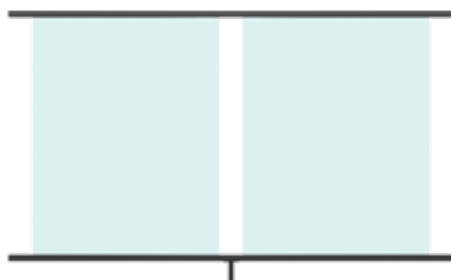
Colour	To Suit Glass	Code
Black Sand	10mm	1805401FBS

Supplied as a pack of 4, with cover caps and bolts for fixing to post. Cast aluminium.

**CHOOSE YOUR POST CAP FROM PAGE 85.**



### GLASS PANELS SYSTEM



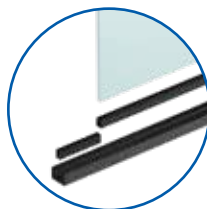
To achieve this look, order:

- 1 x channel kit, colour options below
- 2 x glass panels 760 x 1000 x 8mm, code: **1855087601000**
- 1 x railing bracket (pack of 4) colour options below

#### RAILING KIT

To suit 8mm glass panels

Don't forget to order railing brackets!



Finish/Colour	Length m	Height mm	Width mm	Code
Mill finish	1.8	25	38	<b>59AC3818R</b>
Black Gloss	1.8	25	38	<b>59AC3818BG</b>
Black Sand	1.8	25	38	<b>59AC3818BS</b>
White Gloss	1.8	25	38	<b>59AC3818W</b>

Kit includes 2 x channels, 4 x gaskets, 6 x wedges, 1 x support foot with 1 x wood screw and 2 x self-drilling screws. Glass and railing brackets sold separately.

#### RAILING BRACKET

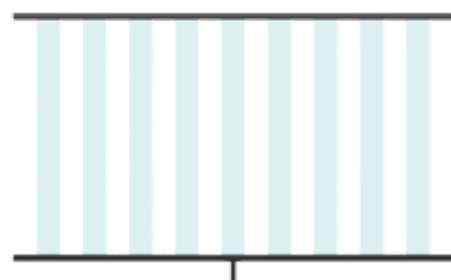
Pack of 4



Finish/Colour	To suit □ mm	Code
Mill finish	25 x 38	<b>59BR3825R</b>
Black Gloss	25 x 38	<b>59BR3825B</b>
Black Sand	25 x 38	<b>59BR3825BS</b>
White Gloss	25 x 38	<b>59BR3825W</b>

Supplied as a pack of 4, with 12 x self-drilling screws.

### GLASS SLATS SYSTEM

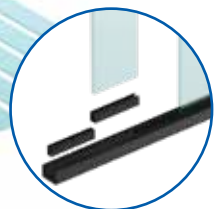
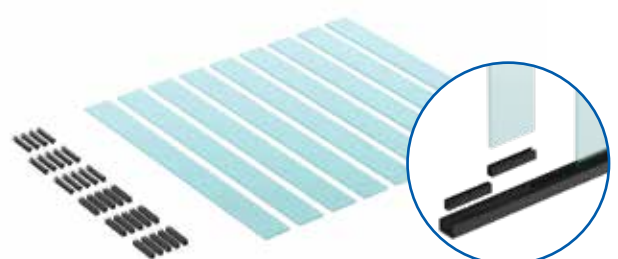


To achieve this look, order:

- 1 x channel kit, colour options below
- 1 x glass slats kit, see glass colour options right
- 1 x railing bracket (pack of 4) colour options below

#### GLASS SLATS KIT

For use with Channel Kit



Glass	Height m	Width mm	Thickness mm	Code
Clear	1.0	95	8	<b>59GP188C</b>
Grey Tinted	1.0	95	8	<b>59GP188T</b>

Kit includes 9 x slats, 18 x gaskets and 14 x wedges to cover a 1.8m length.

#### BOLT-DOWN

#### CONCRETE-IN

#### SIDE-FIX



FOR OUR RANGE OF POSTS SEE PAGE 83.

# CONCRETE SCREWS & BOLTS

## COUNTERSUNK SCREW CR-LX-CS-ZF



### FEATURES

- ETA 17/0806
- Zinc flake
- Self-tapping
- Completely removable for possible reuse
- Non-expansion
- For use with cracked & non-cracked concrete

### APPLICATIONS

- Through-fixing
- Temporary anchorage
- Framework support systems
- Balustrading & handrails
- Fencing & gates manufacturing & installation
- Racking systems
- Public seating
- Scaffolding

Drill Size mm	Thread Ø mm	Length mm	Max Fixture Thickness mm	CE	Code
5	6.3	75	32	✓	5002CCS575
6	7.5	75	32	✓	5002CCS675
8	10.0	75	25	✓	5002CCS875
10	12.5	75	20	✓	5002CCS1075
10	10.0	100	50	✓	5002CCS8100
12	12.5	100	45	✓	5002CCS10100

## HEX HEAD WITH FLANGE R-LX-HF-ZF



### FEATURES

- ETA 17/0806
- Zinc flake
- Self-tapping
- Completely removable for possible reuse
- Non-expansion
- For use with cracked & non-cracked concrete

### APPLICATIONS

- Through-fixing
- Temporary anchorage
- Framework support systems
- Balustrading & handrails
- Fencing & gates manufacturing & installation
- Racking systems
- Public seating
- Scaffolding

Drill Size mm	Ø mm	Length mm	Max Fixture Thickness mm	CE	Code
5	6.3	75	50	✓	5002HCS575
6	7.5	75	35	✓	5002HCS675
8	10.0	75	25	✓	5002HCS875
10	12.5	75	20	✓	5002HCS1075
12	14.9	75	10	✓	5002HCS1275
8	10.0	100	50	✓	5002HCS8100
10	12.5	100	45	✓	5002HCS10100
12	14.9	100	35	✓	5002HCS12100
14	17.0	115	40	✓	5002HCS14115

## MULTI-FIX HEX HEAD BOLT



### APPLICATIONS

- Heavy duty non-expansion anchor
- New solution for heavy duty anchoring into concrete, brick, stone, wood & concrete block replacing the need for traditional anchors
- For use in pre-drilled shallow concrete holes

- Unique patented concave thread design which taps its own thread & provides rapid, low torque installation with exceptional pull-out resistance
- High low parallel threads for ease of insertion and high pull out values
- It allows the user to adjust or remove & use again

Ø mm	Length mm	Code
M10	60	5002MF10860
M10	75	5002MF10875
M10	100	5002MF108100
M10	150	5002MF108150
M12	75	5002MF121075
M12	100	5002MF1210100

Ø mm	Length mm	Code
M12	130	5002MF1210130
M12	150	5002MF1210150
M14	75	5002MF141275
M14	100	5002MF1412100
M14	150	5002MF1412150

# ANCHORS & BOLTS



## THROUGH BOLT

### APPLICATIONS

- ETA option 1 to attach objects or structures to cracked or non-cracked concrete

Drill Size Ø mm	Anchor Length mm	Max Fixture Thickness mm	Code
8	90	30	16248
10	95	35	162410
12	100	25	162412
16	105	10	162416
20	125	5	162420

Zinc plated..



## THROUGH BOLT R-XPTii



### APPLICATIONS

- ETA option 1 to attach objects or structures to cracked or non-cracked concrete

Drill Size Ø mm	Anchor Length mm	Max Fixture Thickness mm	Code
8	95	45	5006TB08100
10	95	35	5006TB10100
12	100	25	5006TB12100
16	125	5	5006TB16125
20	125	5	5006TB20125



## CONTERSUNK THROUGH BOLT R-SPLII-C



### APPLICATIONS

- Used to firmly affix steel to concrete

Thread Ø mm	Drill Size Ø mm	Anchor Length mm	Max Fixture Thickness mm	CE	Code
M6	10	80	25	✓	50CSSA0680
M8	12	90	26	✓	50CSSA0890
M10	15	100	27	✓	50CSSA10100
M12	18	125	33	✓	50CSSA12120



## LOOSE BOLT WITH SHIELD ANCHOR R-RBL



### APPLICATIONS

- Used to attach objects or structures to concrete

Thread Ø mm	Drill Size Ø mm	Anchor Length mm	Max Fixture Thickness mm	CE	Code
M8	14	65	40	✓	5006LB0860
M10	16	90	25	✓	5006LB1085
M12	20	100	25	✓	5006LB12100

# CHEMICAL FIXINGS & CLEANING TOOLS

**ROCKITE CONCRETE COMPOUND**  
Fast setting hydraulic style cement for interior use

**HOLE CLEANING BLOW PUMP**

**HOLE CLEANING BRUSH**



kg	Code
2.2	189900665

Code
50HCBP

Size mm	Code
M8	50HCBM08
M10	50HCBM10
M12	50HCBM12

# ANCHORS, BOLTS & STUDDING



## TARMAC FIXING With rubber sleeve

### APPLICATIONS

- Specialist rubber fixing designed for fixing steel to Tarmac or Asphalt surfaces and many other surfaces/materials

Thread Ø mm	Overall Length mm	Hole Ø mm	Wall Thickness mm	Flange Thickness mm	Flange Ø mm	Required Tightening Torque Nm	Bolt Code	Fixing Sleeve Code
M8	50	18	25.0 - 35.0	1.6	20.0	8	50HS08X80TF	1205TF08R
M10	55	20	25.0 - 35.0	1.3	22.5	10	50HS10X80TF	1205TF10R
M12	125	24	35.0 - 45.0	1.3	27.0	15	50HS12X80TF	1205TF12R

BZP.



## R-STUD With hex head



### APPLICATIONS

- Used to firmly affix steel to concrete

Thread Ø mm	Drill Size Ø mm	Anchor Length mm	Code
M8	10	110	5002RS8110
M10	12	130	5002RS10130
M12	14	160	5002RS12160
M16	18	190	5002RS16190
M20	24	260	5002RS20260
M8	10	110	5006RS8110
M10	12	130	5006RS10130
M12	14	160	5006RS12160
M16	18	190	5006RS16190



## WIRE MESH SLEEVE For use with R-Studs

### APPLICATIONS

- Used to firmly affix steel to concrete

Sleeve Size mm	Stud Size	CE	Code
12 x1000	M8	✓	50WMS081000
16 x1000	M10	✓	50WMS101000
22 x1000	M16	✓	50WMS161000
26 x1000	M20	✓	50WMS201000



## RESIN SOCKET For use with adjustable stand-off adaptor



### APPLICATIONS

- Used to firmly affix steel to concrete

Thread Ø mm	Drill Size Ø mm	Overall Length mm	CE	Code
M10	20	100	✓	5004RS10100F

Stainless steel Grade 304 socket and 316 bolt.

# CHEMICAL FIXINGS

## RKEM+ CHEMICAL FIXING

A high performance, styrene free system that is suitable for use in concrete & other solid hollow masonry structures



ml	Code
300	05RKEM

## RKER II HYBRID RESIN

Suitable for use in dry & wet substrates & water filled holes



ml	Code
300	50RKER300

## RKER II MIXER NOZZLES

Special 14 element mixing nozzle allows for proper mixing of the resin, which ensures the reliability of the curing process



Code
50RKERMN

# ACCESSORIES

## THREADED RODS



Ø mm	Length mm	Code
M6	1000	50TR06X1
M6	3000	50TR06X3
M8	1000	50TR08X1
M8	3000	50TR08X3
M10	1000	50TR10X1

BZP.

Ø mm	Length mm	Code
M10	3000	50TR10X3
M12	1000	50TR12X1
M12	3000	50TR12X3
M16	3000	50TR16X3
M20	3000	50TR20X3

BZP.

Ø mm	Length mm	Code
M6	1000	5006TR06X1
M6	3000	5006TR06X3
M8	1000	5006TR08X1
M8	3000	5006TR08X3
M10	1000	5006TR10X1
M10	3000	5006TR10X3

Ø mm	Length mm	Code
M12	150	189900641
M12	1000	5006TR12X1
M12	3000	5006TR12X3
M16	3000	5006TR16X3
M20	3000	5006TR20X3

## STUDDING CONNECTORS



Ø mm	Code
M6	50RC06
M10	50RC10
M12	50RC12

## ADDAX PLUS SDS BIT



Length mm	Ø mm	Code
210	8	50SDS08210
210	10	50SDS10210
210	12	50SDS12210

# UNIVERSAL PLUGS & SCREWS



Size Ø mm	Pack Qty	Code
6	500	50UPS6R

6 x 28mm plugs, 4.5 x 40mm screws.



Size Ø mm	Pack Qty	Code
7	450	50UPS7B

7 x 30mm plugs, 4.0 x 40mm screws.

# UNIVERSAL FRAME FIXING (R-FFS)

The unique expansion zone ensures optimal anchorage depth, guaranteeing the highest fastener load capacity. Thanks to this, it can be used in all types of substrates with minimum installation times. High load capacities and the use of steel class 6.8 make it recommended for light steel structures like balustrades and handrails.

## FEATURES

- Hexagonal head with collar
- R90 fire resistance and A1 fire classification allow the product to be used in most applications
- High shear strength thanks to the use of steel grade 6.8

Plug Ø mm	Plug Length mm	Screw Length mm	Max Fixture Thickness		Code
			40mm	50mm	
10	50	59	10	—	5002FFS1050
10	60	69	20	10	5002FFS1060

Drill size Ø 12mm.



Please note the plastic plug is fitted through the fixture so the screw has no contact with the material eliminating cross contamination from dissimilar metals.

- Quick installation thanks to 2 reduced anchoring depths: 40 mm in concrete and solid brick\* (categories A and B\*) 50 mm in substrates with hollow brick and aerated concrete (categories C and D)
- Use a punch-tool to increase a performance in aerated concrete

## BASE MATERIALS

- Cracked and non-cracked concrete  $\geq$  C12/15 (Use category A)
- Solid brick or solid sand-lime brick (Use category B)
- Hollow brick or hollow sand-lime brick (Use category C)
- Aerated or hollow lightweight concrete block (Use category D)



\*Solid brick based on RAD data, 50 mm anchoring according to data in ETA.

# ADHESIVES & SEALANTS

**HIGH STRENGTH RETAINER GLUE**  
For use with tube fittings



**LOCTITE**

ml	Code
50	1899007638

**ADHESIVE ACTIVATOR**  
Reduces curing time when used with Loctite 638



ml	Code
150	18990087649

**INSTANT ADHESIVE**  
Supplied with plunger and needle for accurate application. For use as thread lock adhesive



ml	Code
50	1899007454

**LOCTITE SILICONE SEALANT**  
Gives an all-round waterproof seal



**LOCTITE**

Colour	ml	Code
Clear	310	18990125366
Black	310	18990125368

**SILICONE SEALANT**  
Gives an all-round waterproof seal



Colour	ml	Code
Clear	310	189901201
Black	310	189901202

**SEALANT GUN**



Code
189900666

# CLEANING PRODUCTS

**3-PART TEA STAINING  
CLEANER KIT**  
Keeps stainless handrail & fittings in  
top condition long after installation



Description	ml	Code
Demi water Spray	500	1899009DW
Stainless Steel Polish Spray	400	1899009SSP
R2U Stainless Steel Cleaner 500 ml Spray	500	1899009SSC

**PICKLING  
GEL**  
Helps remove rust, dirt and grime from  
stainless steel



kg	Code
2	18990094023

**STAINLESS STEEL  
CLEANER**  
Degreases & cleans surfaces  
ready for gluing



ml	Code
400	18990097063

**UNBLOCKING SPRAY**



ml	Code
400	2912

Suitable for various hardware.

# CLEANING PRODUCTS

## STAINLESS CLEANING WIPE

Removes finger & hand marks left during installation



Code
189900901

## POLISHING CLOTHS

For removal of light scratches on stainless tube & fittings



Description	Code
Fine (grey)	189901101
Medium (red)	189901102

## BOND IT GLASS CLEANER

Fast acting all purpose cleaner with non-smear formulation



Litre	Code
1	1859GC1

Use with code: 29RT150.

## LOW LINT TEXTELINE CLOTHS

Pack of 150

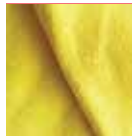


Code
29RT150

Ideal for use with code: 1859GC1.

## MICRO FIBRE CLOTH

Pack of 10



Colour	Size mm	Code
Yellow	400 x 400	29MFC40

**FOR OUR RANGE  
OF STAINLESS STEEL  
COMPONENTS  
SEE FROM PAGE 56.**

# PROTECTIVE CLOTHING

## LATEX GLOVES

Size 8



Code
185900101

Based around a 10 gauge 100% Kevlar liner with a natural rubber latex crinkle coating that provides good grip in wet or dry conditions, abrasion & tear resistant. The thumb is fully coated to protect the most vulnerable part of the hand.

## HEAVY DUTY MITTENS

For razor barb



Code
080618

## RED SUPERIOR GAUNTLET



Code
60EAD009

## DOUBLE HEAD RUBBER SUCTION CUP



Suction Cups Ø mm	Max. lift kg	Code
120	70	185900104

For use in hand lift applications only. All are fitted with a rubber suction which will not damage contact surface during the lifting action.

**YOU CAN ORDER ONLINE 24 HOURS A DAY, 7 DAYS A WEEK.  
VISIT OUR WEBSITE.**

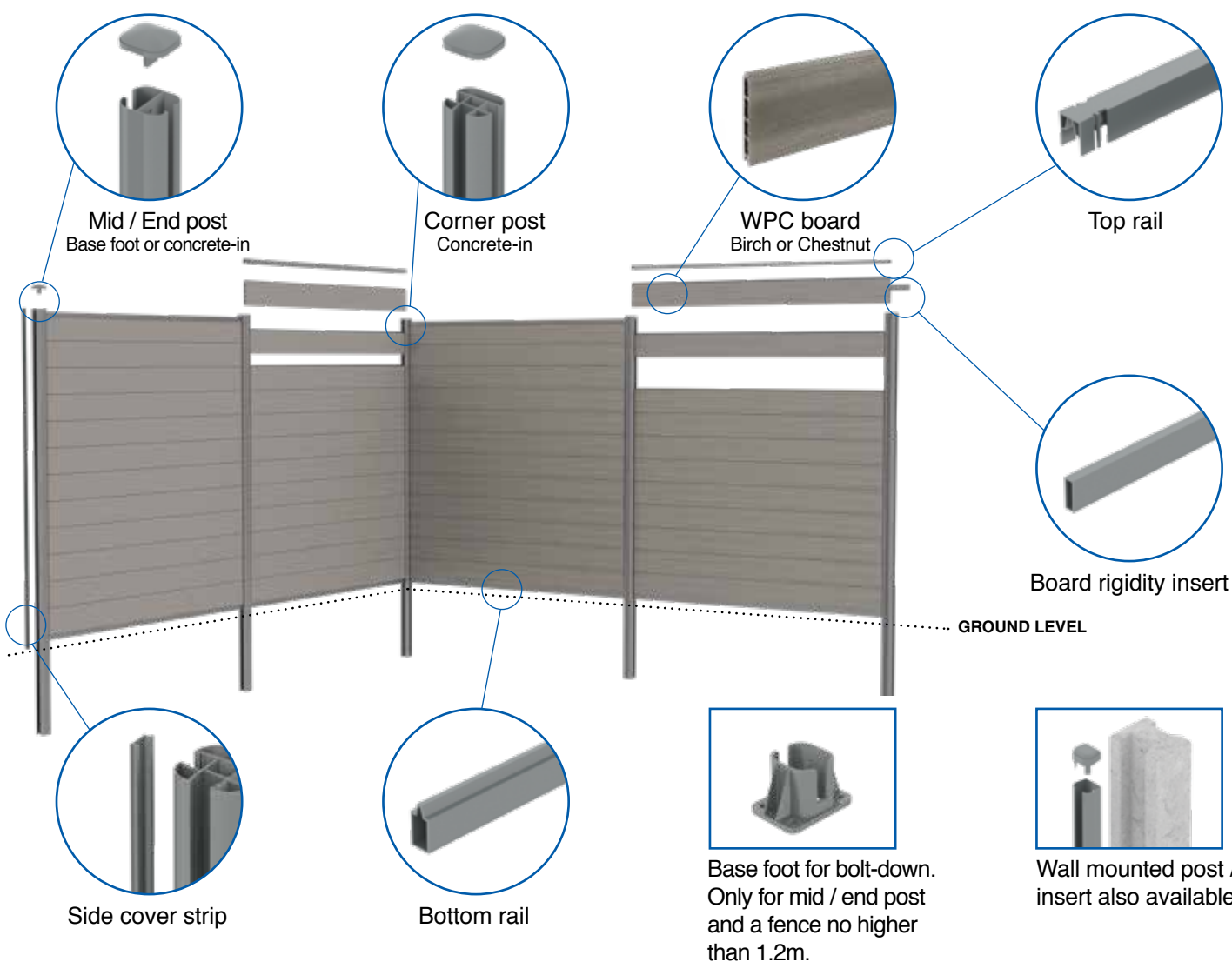
# RINATO™ WPC FENCING

THE LOOK OF WOOD WITHOUT THE HASSLE



Our Rinato WPC fencing system looks amazing and is both easy to use and cost effective. It will also enhance any garden and create a contemporary focal point. This versatile recycled composite system is an eco-friendly product made from combining waste wood particles and thermoplastic resin. It is waterproof, strong and easy to maintain. We have bolt-down and concrete-in aluminium post options, and if you would like to use our WPC fencing between your existing concrete posts we have inserts to fit them. We have two colours to choose from: Chestnut or Birch.

- Long-lasting & low maintenance
- Boards available in 2 colours - Birch or Chestnut
- Standard fence height 1.8m with 1.8m post centres
- Aluminium concrete-in or bolt-down post options available
- Posts & boards can be cut to create a lower or narrower fence
- No more frost damaged, cracked or chipped concrete posts
- Panels are built quickly using tongue & groove boards
- Easy to carry & deliver; much lighter than concrete posts
- Recycled, eco-friendly FSC® certified wood
- Wall mounted post / insert available for pre-existing posts



# RINATO™ WPC FENCING

THE LOOK OF WOOD WITHOUT THE HASSLE

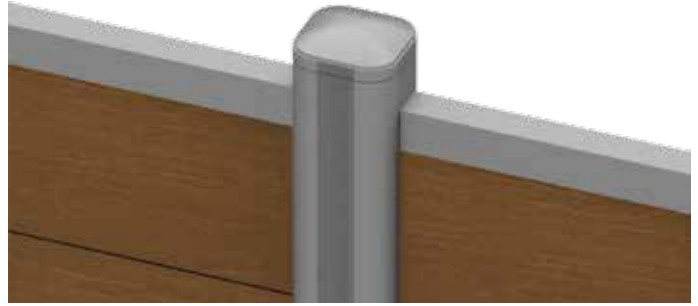
## BIRCH - PRICE PER METRE RUN WITH CONCRETE-IN MID / END POSTS



Fence Height m	Code
1.8	72FP18BM

Metre price includes concrete in posts, WPC boards and panel pack. Please add any additional corner or end posts required to the order.

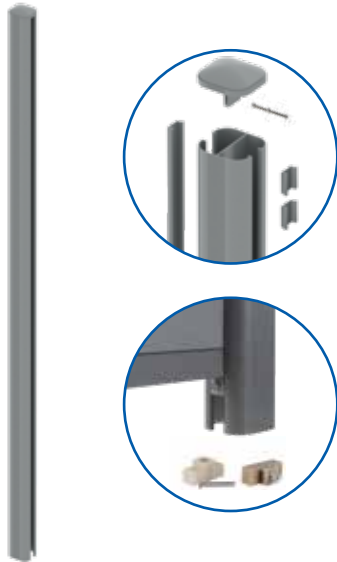
## CHESTNUT - PRICE PER METRE RUN WITH CONCRETE-IN MID / END POSTS



Fence Height m	Code
1.8	72FP18CM

Metre price includes concrete in posts, WPC boards and panel pack. Please add any additional corner or end posts required to the order.

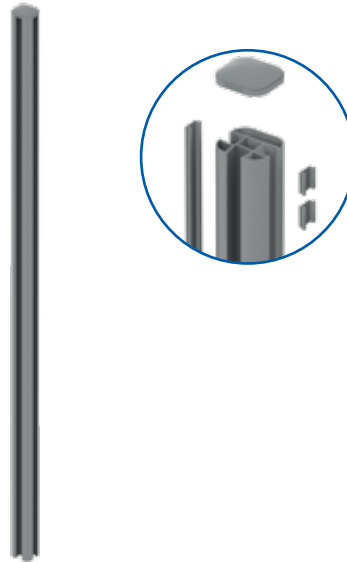
### MID / END POST Bolt-down or concrete-in



Colour	Fence Height m	H x W x D mm	Code
Grey	1.8	2400 x 73 x 66	72PC18iG

Includes 1 x post cap with screw, 2 x plastic height setting pieces with 2 x screws, 1 x long side cover strip & 2 x short side cover strips. Aluminium PPC RAL 7012.

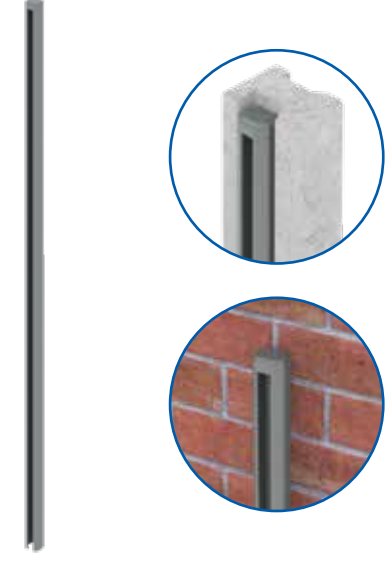
### CORNER POST Concrete-in



Colour	Fence Height m	H x W x D mm	Code
Grey	1.8	2400 x 73 x 66	72PC18CG

Includes 1 x post cap, 1 x long side cover strip and 2 x short side cover strips. Aluminium PPC RAL 7012.

### WALL MOUNTED POST / INSERT For use with pre-existing concrete post or wall mounting.

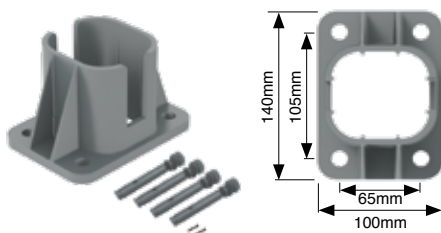


Colour	Fence Height m	H x W x D mm	Code
Grey	1.8	1905 x 48 x 40	72Pi18G

Includes 1 x post cap and 2 x post cap screws. Fix with screws & plugs or glue, depending on your posts and preference. Aluminium PPC RAL 7012.

### BASE FOOT

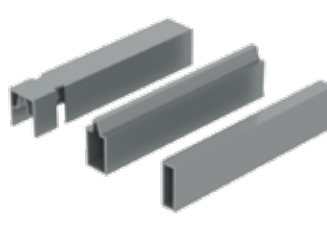
For use with Mid / End post only, for a fence no higher than 1.2m.



Colour	H x W x D mm	Code
Grey	90 x 100 x 140	72BFG

Includes 2 x screws and 4 x anchor sleeves. Aluminium PPC RAL 7012.

### PANEL PACK



Colour	Code
Grey	72FPR18G

Includes 1 x top rail, 1 x bottom rail and 3 x board rigidity inserts. Aluminium PPC RAL 7012.

### WPC DOUBLE-SIDED BOARD

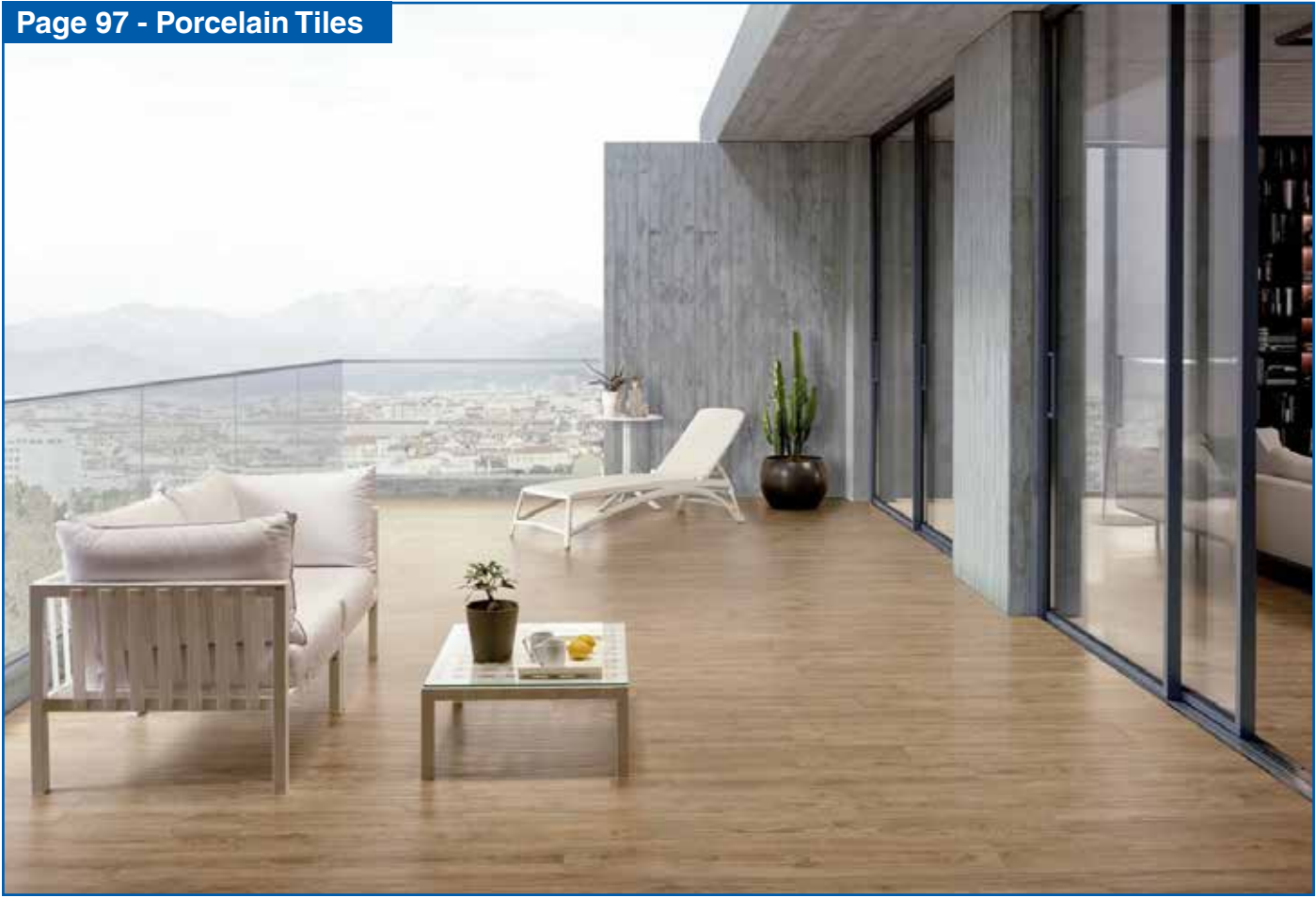
Smooth & realistic wood grain effect



Colour	L x H x T mm	Code
Birch	1783 x 150* x 21	72FPS18B
Chestnut		72FPS18C

Includes 6 x boards per pack. \*Overall height 159mm; to the shoulder 150mm.

Page 97 - Porcelain Tiles



Page 100 - Aluminium Deck Boards



# SYNERGISED™ PORCELAIN TILES

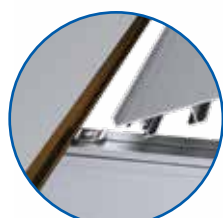
## EXTERNAL DECKING SOLUTIONS



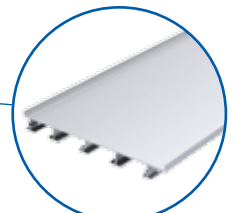
As part of our Synergised framing & decking program the La Fabbrica range of porcelain stoneware reaches new heights in style and engineering, taking all the beauty and charm of the finest timbers. Safe, sustainable, versatile, and refined, Italian excellence with unbeatable quality. The tiles can flow seamlessly from inside your house to outside, changing only the surface texture with the designs dominated by the warmth and texture of wood. Whether on flat ground, a raised patio or high-rise balcony, you can now step out of your house onto porcelain tiles that look like natural wood. And it's fire rated too covering all current and proposed fire regulations.

Ca' Foscari recreates the warmth and natural appearance of textured wood, while the knots and veining in Yosemite convey the warm and traditional recreation of wood. Both offer elegant and contemporary style to any setting, whether residential or commercial it offers a long lasting low maintenance solution.

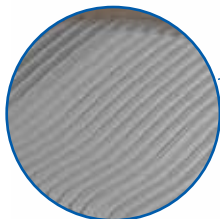
- Stunning wood effect Italian porcelain from one of Italy's top design houses
- A1 and A2fl-s1 fire rated
- Low surface temperatures
- Ideal for elevated patios, all decking applications, and all types of balconies
- Build your dream elevated stone patio without the need for expensive retaining walls and backfill materials
- 1000mm joist spacing for 30mm boards & tile support trays
- Dramatic reduction in hard landscaping costs
- Perimeter base section allows for our wide range of handrail systems to be fully integrated into your project



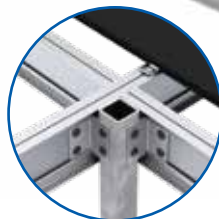
Tile Tray  
Capping Profile



Tile Tray



Tile Adhesive



Tile Spacer Bar

For raised subframes

### NEW RAISED PATIO



### EXISTING SUBFRAME



### CANTILEVER BALCONY



### CONCRETE INSET BALCONY



THE PERIMETER BASE SECTION ALLOWS FOR OUR WIDE RANGE OF HANDRAIL SYSTEMS TO BE FULLY INTEGRATED. SEE PAGE 103.

# SYNERGISED™ PORCELAIN TILES

## EXTERNAL DECKING SOLUTIONS



### CA'FOSCARI COLLECTION

AVANA



Code
79P1221AE

CANAPE



Code
79P1221CE

LINO



Code
79P1221LE

MORO



Code
79P1221ME

TOBACCO



Code
79P1221TE

Tile size: L 1200 x W 200 x D 10mm. Supplied as box of 4.

### ACCESSORIES

TILE TRAY PROFILE



JOINING PLATE



TILE ADHESIVE



L x W x D mm	Code
3600 x 200 x 30	79TT30

Requires 2 joining plates per join, code: **79DJP**. Mill finish.

Quantity	Code
100	79DJP

2 per join. For use with tile tray code: **79TT30**.

Description	ml	Code
Fire rated	300	79FRTA
General Purpose	290	79GPTA

# SYNERGISED™ PORCELAIN TILES

EXTERNAL DECKING SOLUTIONS



## YOSEMITE COLLECTION

MULBERRY



Code
79P1221YME

OLIVE



Code
79P1221YOE

SHELL



Code
79P1221YSE

TAN



Code
79P1221YTE

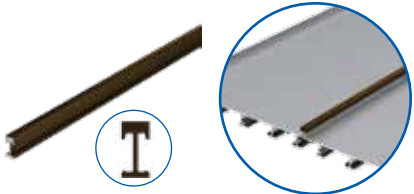
WALNUT



Code
79P1221YWE


Tile size: L 1200 x W 200 x D 10mm. Supplied as box of 4.

TILE TRAY CAPPING PROFILE



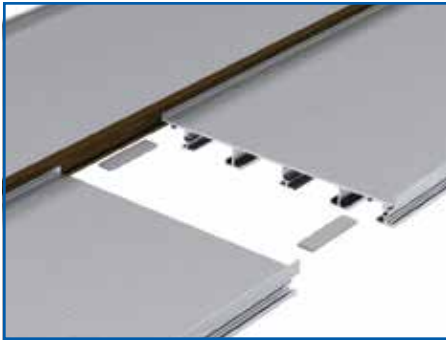
L x W mm	Code
3600 x 8	79TCP

TILE SPACER BAR



L x W mm	Code
200 x 4	79FSB200

EXPLODED VIEW OF TILE TRAY ASSEMBLY



For use with tile tray profile code: **79TT30**.  
Aluminium Grade GT547. Bronze anodised finish.

Bronze anodised finish.

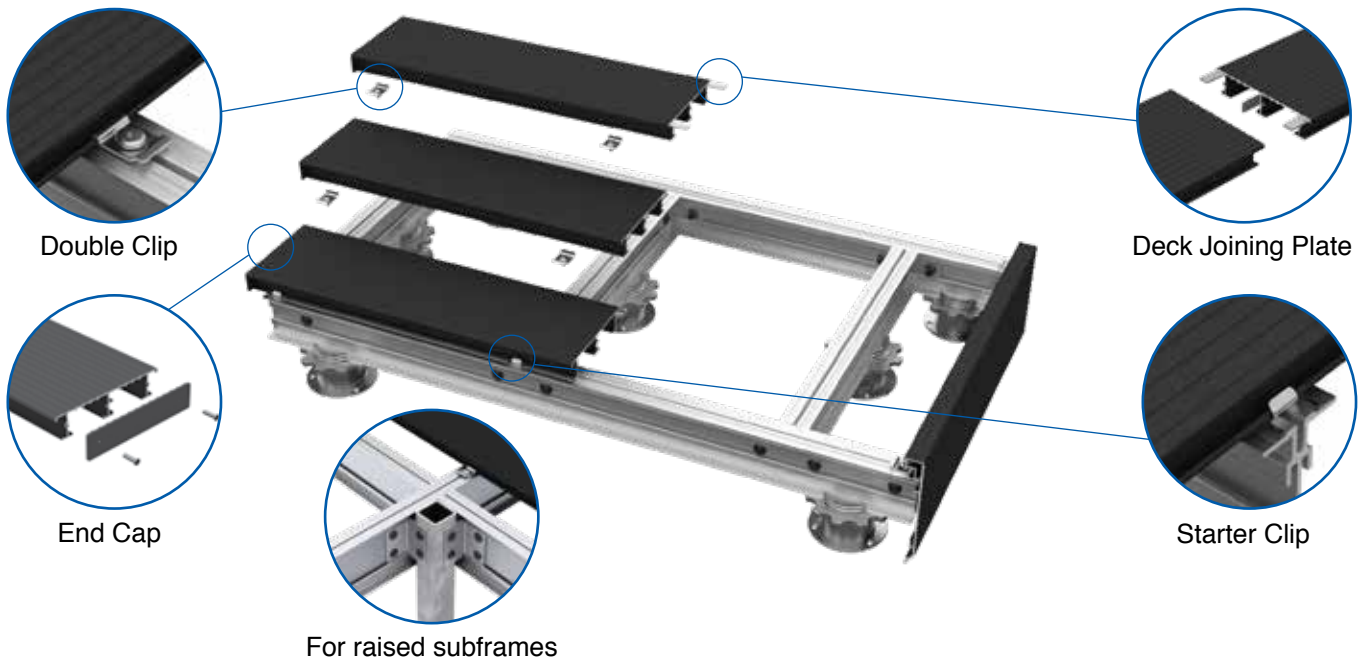
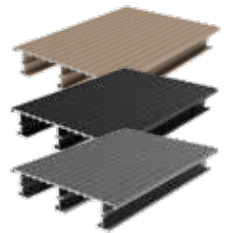
# SYNERGISED™ DECKING SYSTEM

INNOVATIVE FIRE RATED ALUMINIUM DECKING SOLUTIONS



The Synergised range of aluminium deck products has been tested by the UK's leading fire test centre to EN 13823, EN 13501 and EN ISO 1716. All elements of the Synergised System achieve Euroclass Classifications of A1 and A2fl-s1. Available in 3 contemporary colours and manufactured from structural grade 6063 T6 aluminium with a 100 micron Qualicoat™ premium powder coating, these are the ideal decking solution for both residential and commercial high footfall environments such as high rise balconies, walkways, terraces, pubs, gardens and much more. Installation couldn't be easier, with our innovative cradle base and joist support system that offers up to 50% cost saving compared to other solutions. Once installed the system is long lasting and low maintenance with a manufacturer's limited warranty.

- A1 and A2fl-s1 fire rated
- Made from structural grade 6063 T6 aluminium
- Ideal for high rise concrete balconies & terraces
- Up to 50% cost saving when compared to other systems
- 100 micron Qualicoat™ premium powder coating
- Adjustable cradle and deck support system
- Cradle spacing up to 1800mm
- Low surface temperatures
- Long lasting and low maintenance
- Lightweight and easy to install
- Mill finish subframes and cradles
- 10 year warranty on powder coating



**HIGH RISE BUILDINGS**



**CONCRETE BALCONY & TERRACE**



**TIMBER REPLACEMENT**



**COMMERCIAL & HIGH FOOTFALL BUILDINGS**

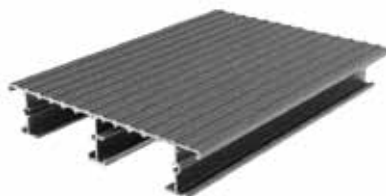


# SYNERGISED™ DECKING SYSTEM

INNOVATIVE FIRE RATED ALUMINIUM DECKING SOLUTIONS

## DECK BOARDS

### ANTHRACITE



Length mm	Width mm	Depth mm	Code
3600	145	30	79DB30A

RAL 7016.

### BLACK



Length mm	Width mm	Depth mm	Code
3600	145	30	79DB30B

RAL 9005.

### SERENGETI SAND

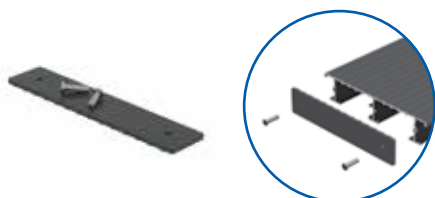


Length mm	Width mm	Depth mm	Code
3600	145	30	79DB30SS

RAL 1019.

## END CAPS

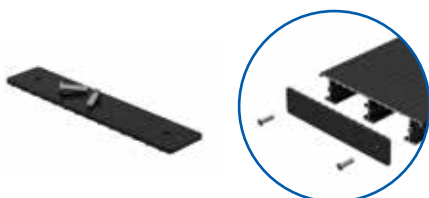
### ANTHRACITE



Code
79DBEC30A

RAL 7016. Supplied with all fixings. Requires Torx15 bit, code: 79TX001.

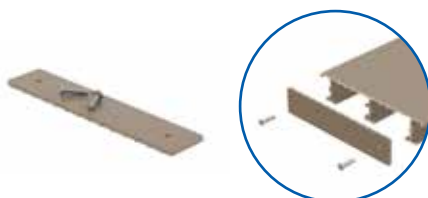
### BLACK



Code
79DBEC30B

RAL 9005. Supplied with all fixings. Requires Torx15 bit, code: 79TX001.

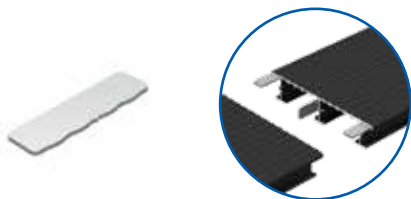
### SERENGETI SAND



Code
79DBEC30SS

RAL 1019. Supplied with all fixings. Requires Torx15 bit, code: 79TX001.

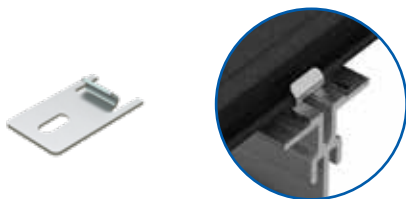
## DECK JOINING PLATE



Quantity	Code
100	79DJP

3 per join.

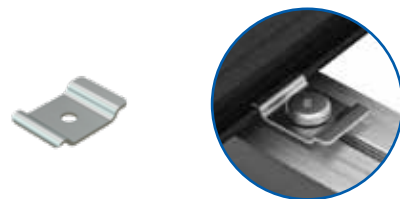
## STARTER CLIP



Quantity	Code
1	79DSC01

Use 4 per full length board. For screws, use code: 79SS.

## DOUBLE CLIP



Quantity	Code
1	79DC01

Use 4 per full length board. Leaves 5mm gap between deck boards. For screws, use code: 79SS.

## SCREWS

For starter, double clips & joist mounting clips



Quantity	Code
100	79SS

## TORX15 BIT

For end cap fixings



Quantity	Code
1	79TX001

25mm long.

## TORX40 BIT

For 90° brackets fixings



Quantity	Code
1	79TX002

25mm long.

## TOUCH UP PAINT

For deck boards



Colour	ml	Code
Anthracite RAL 7016	400	29PC400SASY
Black RAL 9005	400	29PC400SBSY
Serengeti Sand RAL 1019	400	29PC400SSSY

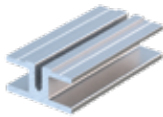
FULL INSTALLATION INSTRUCTIONS AVAILABLE ONLINE.

# SYNERGISED™ DECKING SYSTEM

## SUBFRAME & ADJUSTABLE CRADLES

### JOISTS

#### 20mm PROFILE



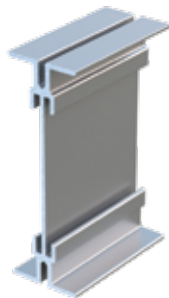
Length mm	Width mm	Height mm	Code
3600	40	20	79J020

#### 70mm PROFILE



Length mm	Width mm	Height mm	Code
3600	40	70	79J070

#### 120mm PROFILE

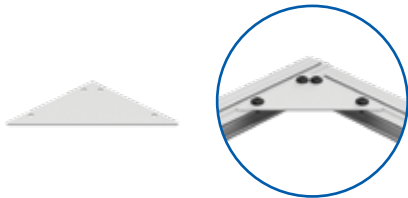


Length mm	Width mm	Height mm	Code
3600	40	120	79J120

### JOIST JOINING KITS

#### CORNER BRACE

To suit 20 / 70mm joist profiles

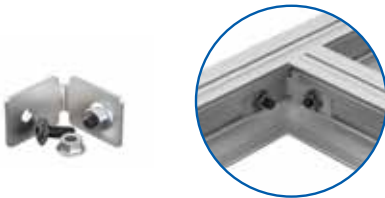


Quantity	Code
1	79CB20

Supplied with all fixings. Drill 3.5mm pilot holes into joists. Requires Pozzi-Drive bit to tighten.

#### 90° BRACKET

To suit 70mm joist profile



Quantity	Code
4	79JBK70

Supplied with all fixings. Drill 8.5mm pilot holes into joists. Requires Torx40 bit, code: 79TX002.

#### 90° BRACKET

To suit 120mm joist profile

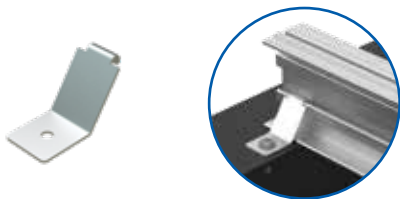


Quantity	Code
4	79JBK120

Supplied with all fixings. Drill 8.5mm pilot holes into joists. Requires Torx40 bit, code: 79TX002.

### JOIST MOUNTING CLIP

To suit 70 / 120mm joist profiles



Quantity	Code
1	79MP01

Used to mount the joist to the floor, existing subframe or to stack joists. For screws to stack joist to joist, use code: 79SS.

### ADJUSTABLE CRADLES

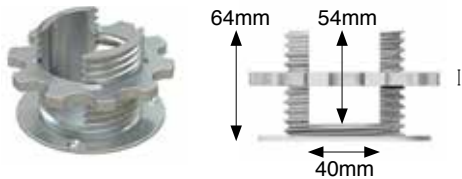
#### 45mm



Code
79PED45

Minimum height 45mm. Maximum height 160mm.

#### 64mm

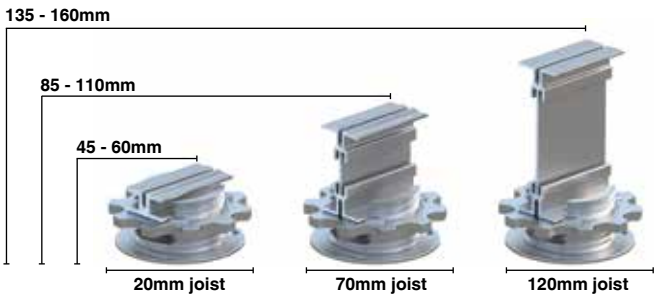


Code
79PED64

Minimum height 64mm. Maximum height 180mm.

#### 45mm Cradle

Minimum - Maximum Height



#### 64mm Cradle

Minimum - Maximum Height

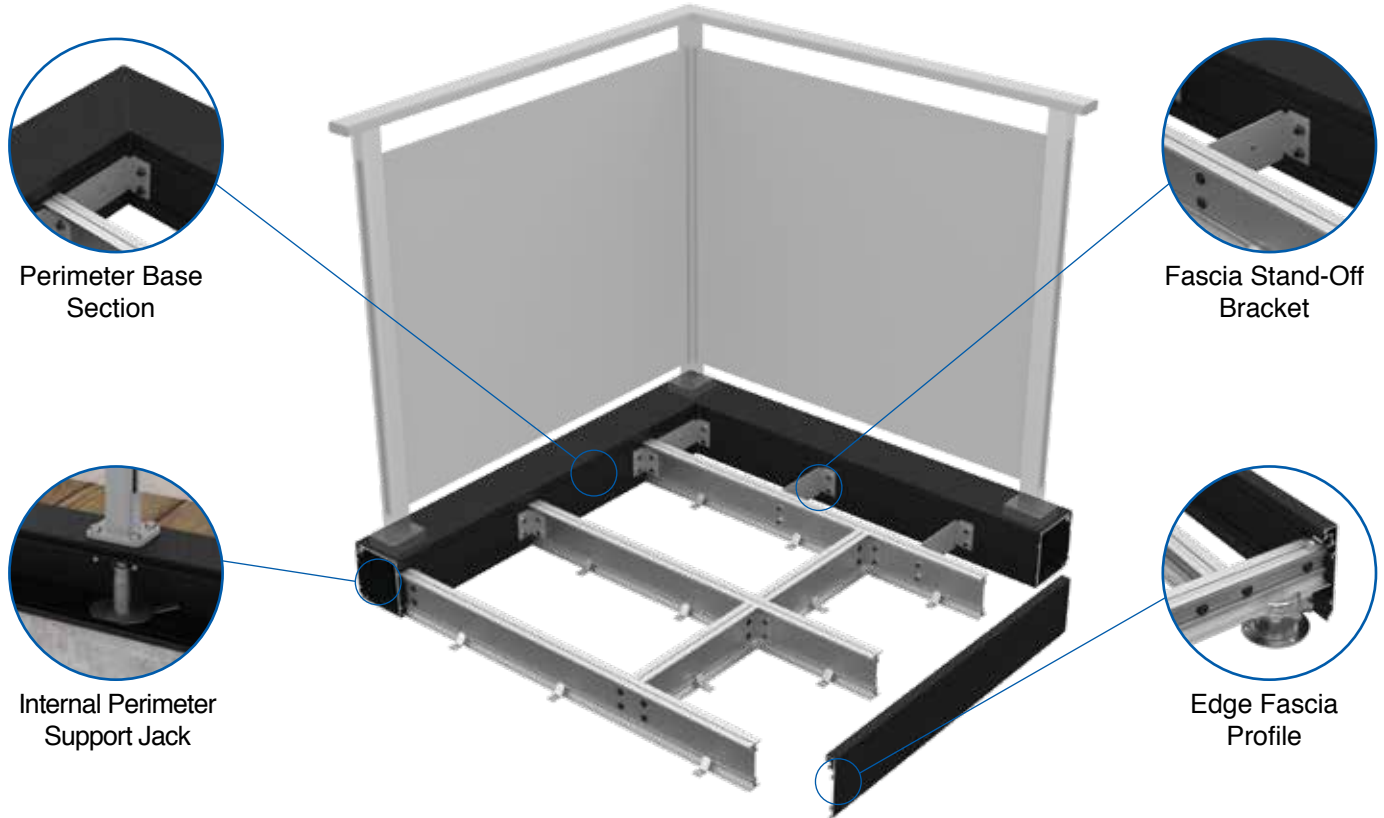


# SYNERGISED™ DECKING SYSTEM

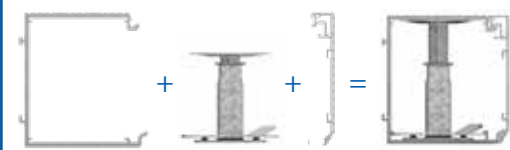
## PERIMETER BASE SYSTEM

Our unique innovative perimeter base section, bolts directly to the Synergised subframe. It allows for a wide range of our base fix handrailing solutions to be bolted down to the perimeter, to provide a safe, stunning edge protection where there is a fall of more than 600mm. The Internal Perimeter Support Jack provides the strength required to allow handrailing systems to reach the desired residential 0.74kn loading requirements, as per BS6180.

If handrailing is not required, then our Edge Fascia Profile can be fitted to discreetly hide the subframe. The Edge Fascia Profile is supplied powder coated black, to contrast stylishly with the range of ceramic tiles and handrailing solutions, it also perfectly matches the perimeter base section when used alongside on the same project



### PERIMETER BASE SECTION ASSEMBLY



### FOR RAISED SUBFRAMES



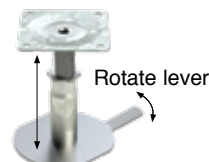
#### PERIMETER BASE SECTION



#### EDGE FASCIA PROFILE



#### INTERNAL PERIMETER SUPPORT JACK



#### FASCIA STAND-OFF BRACKET



L x W x D mm	Code
3600 x 150 x 130	<b>79PPB150B</b>

For use with edge fascia profile code: **79EFB100**. Polyester powder coated black RAL 9005.

L x D mm	Code
3600 x 100	<b>79EFB100</b>

Polyester powder coated black RAL 9005.

Code
<b>79PBSP01</b>

Adjust to desired height and rotate lever to lock in place.

Code
<b>79TBC</b>

For use with perimeter base section code: **79PB150B**. Stainless steel.

**FOR A WIDE RANGE OF HANDRAIL SYSTEMS VISIT OUR WEBSITE.**

# CREATE A STUNNING FINISH WITH RINATO™ DECK BOARDS


















# RINATO™ DECK BOARDS

THE LOOK OF WOOD WITHOUT THE HASSLE



With our range of composite deck boards there is a style, colour and price to suit everyone. These boards are easy to install and look fantastic. As well as being environmentally friendly, all our decking is virtually maintenance free, is incredibly durable and will remain so for years to come. Experience the beauty of wood without the hassle.

## FEATURES

- |  |   |   |
|--|---|---|
|  Virtually maintenance free      |  Anti-slip resistance tested     |  Solid & hollow core options |
|  Does not absorb moisture        |  Mould free                      |  Made from recycled material |
|  Easy to keep clean & stain free |  Rot free                        |  Recyclable                  |
|  Excellent UV resistance       |  Easy to install               |  Non-toxic                 |
|  Splinter free                 |  Workability - similar to wood |  Flammability tested       |

## AVAILABLE IN TWO RANGES:

**NATURAL** - Features a 360 degree wrap around Polymer Capstock shield that encapsulates the hollow core deck board and gives it year-round protection against the elements and is suitable for a variety of outdoor uses. Available in 3 colours and with an enhanced natural woodgrain effect one side and traditional flat sanded effect the other.

**VICTORIA** - Uses less composite material thanks to the 'M' design on the underside, making the board lighter and more economic, the perfect cost-friendly choice for every garden, balcony or patio. Available in 4 colours, boards are single-sided with a choice of natural woodgrain effect or a traditional grooved effect across all the colours.

**All our deck boards are supported with a warranty.**



NATURAL DECK BOARDS



CEDAR DAWN

PLATINUM ASH

TWILIGHT GREY



DECK BOARDS - DOUBLE-SIDED

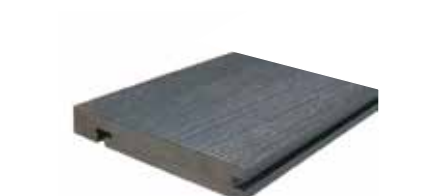
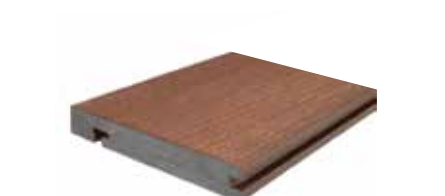


Length m	Width mm	Depth mm	Code
3.66	140	22	70CD001

Length m	Width mm	Depth mm	Code
3.66	140	22	70PA001

Length m	Width mm	Depth mm	Code
3.66	140	22	70TG001

STARTER BOARDS (Used at the start of a run to hide starter clips)



Length m	Width mm	Depth mm	Code
3.66	140	22	70CD005

Length m	Width mm	Depth mm	Code
3.66	140	22	70PA005

Length m	Width mm	Depth mm	Code
3.66	140	22	70TG005

FASCIA BOARDS



Length m	Width mm	Depth mm	Code
3.66	10	70	70CD004

Length m	Width mm	Depth mm	Code
3.66	70	10	70PA004

Length m	Width mm	Depth mm	Code
3.66	10	70	70TG004

### L SHAPED TRIMS

CEDAR DAWN



PLATINUM ASH



TWILIGHT GREY



Length m	Width mm	Depth mm	Code
3.66	50	50	70CD003

Length m	Width mm	Depth mm	Code
3.66	50	50	70PA003

Length m	Width mm	Depth mm	Code
3.66	50	50	70TG003

### FIXINGS

#### STARTER CLIP

- Used to start a run of deck boards
- Supplied in packs of 10 with screws



#### DOUBLE CLIP

- 1mm gap between deck boards
- Supplied in packs of 50 with screws



#### PLASTIC DOUBLE CLIP

- 7mm gap between deck boards
- Supplied in packs of 100 with screws



Pack Quantity	Code
10	66SC01

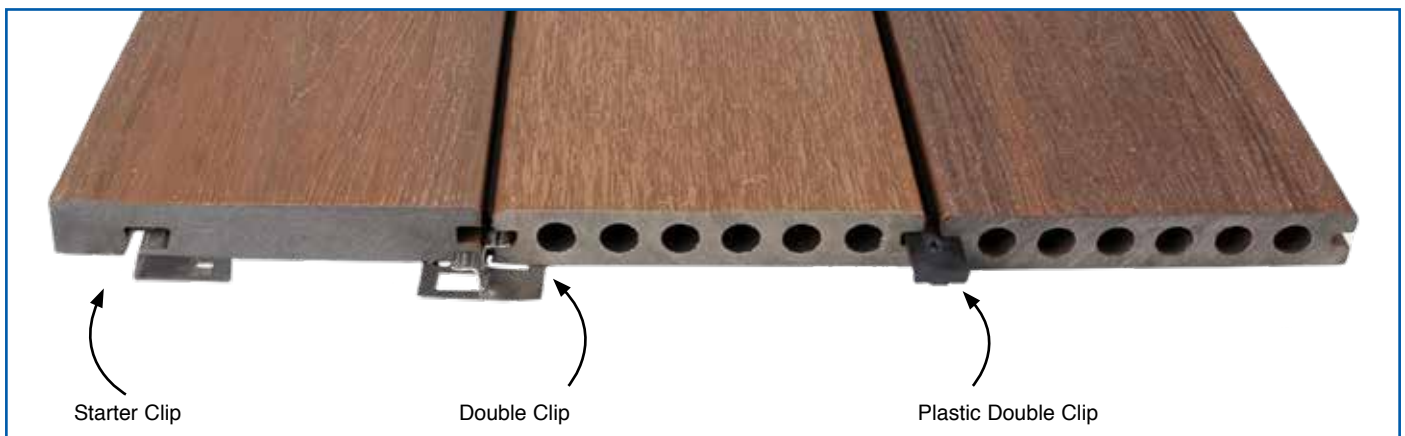
10 clips are recommended for each perimeter/ starter board.

Pack Quantity	Code
50	66DC01

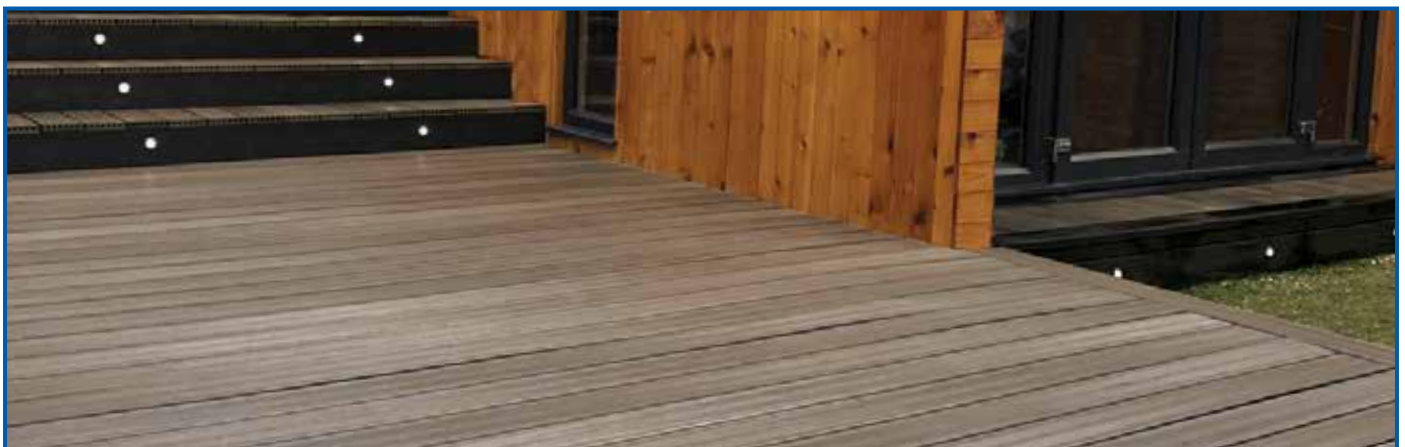
9 clips are recommended for each board length.

Pack Quantity	Code
100	70FCP01

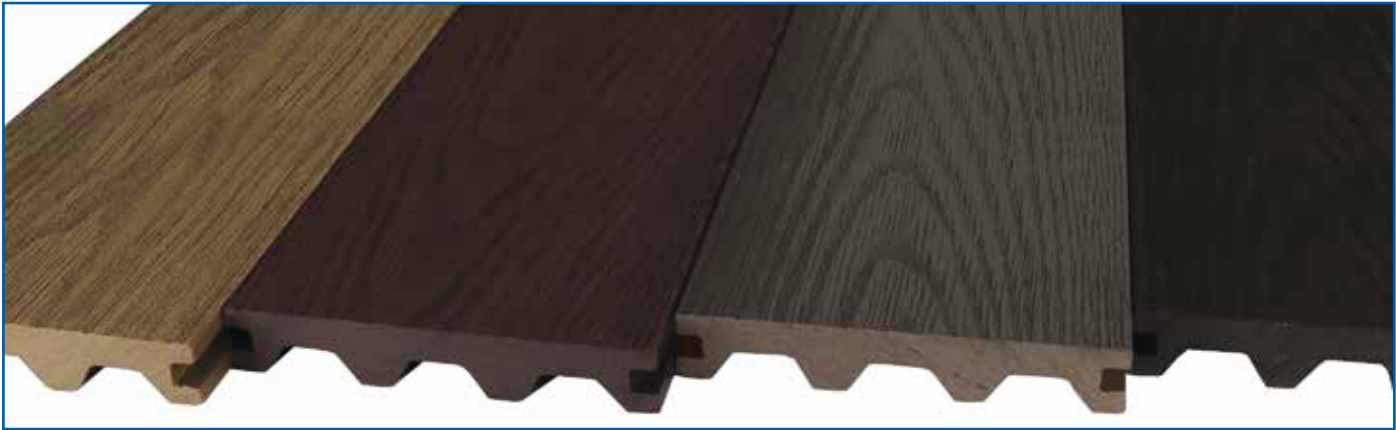
9 clips are recommended for each board length.



FOR OUR FULL RANGE OF FIXING CLIPS SEE PAGE 109.



VICTORIA DECK BOARDS

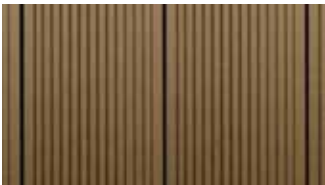


TEAK

REDWOOD

GREY

EBONY



WOOD GRAIN DECK BOARD

Length m	Width mm	Depth mm	Code
3.6	135	23	71T004

WOOD GRAIN DECK BOARD

Length m	Width mm	Depth mm	Code
3.6	135	23	71R004

WOOD GRAIN DECK BOARD

Length m	Width mm	Depth mm	Code
3.6	135	23	71G004

WOOD GRAIN DECK BOARD

Length m	Width mm	Depth mm	Code
3.6	135	23	71E004

GROOVED DECK BOARD

Length m	Width mm	Depth mm	Code
3.6	135	23	71T003

GROOVED DECK BOARD

Length m	Width mm	Depth mm	Code
3.6	135	23	71R003

GROOVED DECK BOARD

Length m	Width mm	Depth mm	Code
3.6	135	23	71G003

GROOVED DECK BOARD

Length m	Width mm	Depth mm	Code
3.6	135	23	71E003

STARTER BOARDS - ONLY FOR THE VICTORIA RANGE



Length m	Width mm	Depth mm	Code
2.4	168	23	71T005

Length m	Width mm	Depth mm	Code
2.4	168	23	71R005

Length m	Width mm	Depth mm	Code
2.4	168	23	71G005

Length m	Width mm	Depth mm	Code
2.4	168	23	71E005

FIXINGS

STARTER CLIP

- Screws sold separately
- Stainless steel & PPC black



Pack Quantity	Code
1	71SC003
25	71SC003P

10 clips are recommended for each perimeter/starter board.

DOUBLE CLIP

- 7mm gap between deck boards
- Screws sold separately
- Stainless steel & PPC black



Pack Quantity	Code
1	71DC003
100	71DC003P

12 clips are recommended for each board length.

## FULL RANGE OF FIXING CLIPS



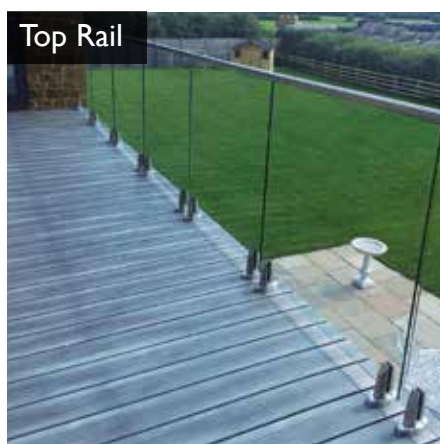
No.	Type	Material	Colour	Gap Between Boards mm	Number of Clips per Pack	Number of Clips Needed per sq/m	Clip Code	Screws Included	Screw Code
1	Starter Clip	Stainless Steel	Silver	0	10	N/A	66SC01	Yes	N/A
2	Double Clip	Stainless Steel	Silver	1	50	18	66DC01	Yes	N/A
3	Double Clip	Plastic	Black	7	100	18	70FCP01	Yes	N/A
4	Starter Clip	Stainless Steel	Black	7	1	N/A	71SC003	No	71SS003*
	Starter Clip	Stainless Steel	Black	0	25	N/A	71SC003P	No	71SS003*
5	Double Clip	Stainless Steel	Black	7	1	18	71DC003	No	71SS003*
	Double Clip	Stainless Steel	Black	7	100	18	71DC003P	No	71SS003*
6	Double Clip	Nylon	Black	7	100	18	71DCN003P	No	71SS003*

\*Supplied in a pack of 100. For screw driver bit use code: 66TX001.

**NB.** We recommend 9 clips per board length when using Natural boards and 12 clips per board length when using Victoria boards.

We also recommend using 10 starter clips per perimeter/starter board across the range.

## A RANGE OF HANDRAILING PERFECTLY DESIGNED FOR DECKING



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***Stylish, durable and cost effective***



May 2021



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