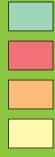
COLOUR GUIDE

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



Grade 316

Zamac (Zinc aluminium al

Zinc coated steel

Mild steel

Grade 304

Aluminiun

Duplex 2205 (Ultra marine stainle

ICONS

Throughout this section there are various icons to help you with your product selection.



Square Solid

Technical information that can be found on our website



Handy tip for quicker and more effortless installation



Important note, please read



UK standard for ladders for permanent access to high structures

TESTED TO BS 14122-4 Requirements for safe access to machines, where a fixed means of access is necessary



UK standard loading for buildings. Code of practice for dead & imposed loads



TESTED TO BS 8300 UK standard for flooring, stair treads and handrails for industrial use

Conforms to the requirements that handrails should not be cold to the touch **IANDRAILING**





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HANDRAIL TUBE





Tube	Style	Description	Technical	Page no
Mild Steel		Available in mild steel & BZP	 Ø: 48.3mm Mild steel length: 3.0m BZP length: 5.8m Thickness: 2.0mm 	459
Mild Steel		Available in zinc plated	Ø: 42.4mmLength: 6.0mThickness: 2.0mm	461
Mild Steel	0	Available in mild steel	 Ø: 33.7 - 48.3mm Length: 7.5m Thickness: 2.5 - 3.0mm 	465
Mild Steel		Available in BZP	 Ø: 33.7mm Length: 3.0m Thickness: 2.0mm 	473
GRP		Available in grey & yellow GRP	 Ø: 45 & 50mm Length: 6.0m Thickness: 5.0 & 6.0mm 	482
PVC Coated Mild Steel		 Available in grey & yellow PVC coated mild steel With fixing holes either end of the tube 	 Ø: 45mm Length: 790 - 1400mm Thickness: 4.0mm 	485
Galvanised Steel		PPC yellow	 Ø: 42.4 & 48.3mm Length: 6.5m Thickness: 3.2mm 	487
Galvanised Steel	and a second second	Hot dipped galvanised	 Ø: 26.9 - 60.3mm Length: 1.044 - 6.5m Thickness: 3.2mm 	487
Aluminium		Available in anodised aluminium, golden oak and walnut. wood effect	• Ø: 50mm • Length: 5.8m	527
Stainless Steel		 Available in stainless steel Grade 316 Satin polish 	 Width: 40mm Depth: 40mm Length: 2.9 & 5.8m Thickness: 2.5mm 	581
Stainless Steel		 Available in stainless steel Grade 304 & 316 Satin polish 	 Ø: 42.4 & 48.3mm Length: 0.95, 1.2, 3.0 & 6.0m Thickness: 2.0mm 	581
Stainless Steel Mirror Finish		 Available in stainless steel Grade 316 Mirror finish 	 Ø: 42.4 & 48.3mm Length: 3.0 & 6.0m Thickness: 2.0mm 	581
Stainless Steel		Available in stainless steel Grade 316	 Width: 40mm Depth: 10mm Length: 3.0 & 6.0m Thickness: 1.5mm 	583
Softwood		 Available in untreated, varnished, beech effect & wengé effect Solid wood 	Ø: 45mm Length: 2.0 & 3.0m	608
Hardwood		 Available in steamed beech, sapele, American white oak & European brown oak Solid wood 	 Ø: 48.3mm Length: 2.0 & 3.0m 	609



PRO-CAST STEEL

A great new range of cast steel handrail fittings. Suitable for welding, galvanising, powder coating and gluing. Only for use with our Ø 48.3 x 2mm steel tube. Some fittings also supplied in bright zinc plated.

SEAMLESS TUBE



Ø mm	Length m	Code
48.3	5.8	130148258
48.3	3.0	13024823*

Thickness 2mm. *BZP.

Ømm

48.3

Code

1301212D

ml

50

90° ELBOW ROUND CORNER	SCROLL END	ADJUSTABLE ELBOW
Ø mm Code	Ø mm Code	Ø mm Code
48.3 1301201D	48.3 1301221D	48.3 1301203D
	48.3 1302221D *	48.3 1302203D *
	*BZP.	*BZP.
BASE COVER PLATE	IN-LINE CONNECTOR	END CAP
0		
Ø mm Code	Ø mm Code	Ø mm Code
48.3 1301208D	48.3 1301206D	48.3 1301214D
48.3 1302208D *	48.3 1302206D *	48.3 1302214D *
*BZP.	*BZP.	*BZP.
HIGH STRENGTH GLUE For use with tube fittings	ADHESIVE ACTIVATOR Reduces curing time when used with Loctite 638	EXAMPLE OF BZP FINISH
AGCETTE Base Base Base Base Base Base Base Base		
	ROUND CORNERImage: constraint of the second s	ROUND CORNERImage: Second stateImage: Sec

ml

150

Code

18990087649

Code

HANDRAIL BRACKETS

FIXED SPIGOT

WALL/FLAT



Wall to Bracket Code Centre mm 171164 63

Solid disc fixing plate. BZP.

WALL/TUBE



Ø mm	Wall to Bracket Centre mm	Code
42.4	72	13i0223
	72 plated.	1310223



Wall to Bracket Centre mm	Code
63	171161
75	171163

Domed disc fixing plate. BZP.

WALL/TUBE



Ø mm	Wall to Bracket Centre mm	Code
42.4	63.5	1804305FC
48.3	63.5	1804305FD
42.4	63.5	1806305FC
48.3	63.5	1806305FD

WALL/FLAT

Wall to Bracket Centre mm	Code
63	171165

WALL/TUBE

Wall to Bracket

Centre mm

85

85

85

85

ø

Ø 5.5

20

Ø 10

Code

171181K

171180K

FLAT/TUBE

Code

1804305FCB

1804305FDB

1806305FCB

1806305FDB

Ø

mm

42.4

48.3

42.4

48.3

Ø 6.0

20

Wall to Bracket

Centre mm

85

85

Two Ø 6.6mm countersunk fixing plate holes.

WALL/TUBE





Wall to Bracket Centre mm	Code
63.5	1804305FF

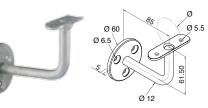
WALL/TUBE



Code	Wall to Bracket Centre mm	Ø mm
1804315FC	72	42.4
1804315FD	72	48.3
1806315FC	72	42.4
1806315FD	72	48.3

Supplied fitted with 8mm screw thread for wall fixing.

WALL/TUBE



Ømm	Wall to Bracket Centre mm	Code
42.4/48.3	85	171178K
42.4/48.3	85	171177K

Three Ø 6.5mm countersunk fixing plate holes.

Ø

mm

42.4

48.3

42.4

48.3

304

Ø Ø 5.5 Ø 82 Ø 5 3 ç Q 12

WALL/TUBE

Ømm	Wall to Bracket Centre mm	Code	
42.4/48.3	85	171179K	
Supplied with snap fit cover plate. Three			

Ø 5.3mm countersunk fixing plate holes.

ADJUSTABLE HEIGHT - FIXED SPIGOT





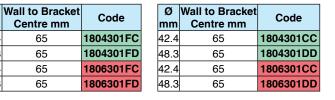


Zamac

Ømm

42.4/48.3

42.4/48.3



Ø mm	Wall to Bracket Centre mm	Code
42.4	68	1804303FC
48.3	68	1804303FD
42.4	68	1806303FC
48.3	68	1806303FD

GLASS/TUBE



Ø mm	Wall to Bracket Centre mm	Code
42.4	69	1804333FC
48.3	69	1804333FD
42.4	69	1806333FC
48.3	69	1806333FD

To suit up to 20mm glass. For thicker glass longer threaded lengths can be purchased.

Mild

steel

Aluminium

Duplex





HANDRAIL BRACKETS

HANDRAIL BRACKET WITH SADDLE

Fixed washer



1301301D

SIDE FIX HANDRAIL BRACKET With saddle



To Suit Ø mm	Code
42.4	171174C
48.3	171174D

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

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

ADJUSTABLE SPIGOT WALL/TUBE

To Suit Ø mm

42.4

48.3



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.





WE ALSO STOCK GALVANISED TUBE. SEE PAGE 487.

TUBULAR HANDRAIL BRACKETS

Ø mm	Code
33.7	171168B
42.4	171168C
48.3	171168D

Ø mm	Code
26.9	16143A
33.7	16143B
42.4	16143C
48.3	16143D

TUBULAR FLANGED HANDLE



H x W mm	Tube Ø mm	Code
230 x 64	20	171170
345 x 80	28	171171

HANDRAILING

ZINC PLATED HANDRAIL SADDLES

.....





Height mm	Ømm	Code	
75	42.4	13i031S1	
For use with code: 13i001600			

Zinc plated.



Height mm	Ømm	Code		
75	42.4	13i030S		
For use with code: 13i001600 . Zinc plated.				

Height mm	Ømm	Code
15	42.4	13i020
Zinc plated.		

Length m	Ømm	Code
6	42.4	13i0016000

2mm wall thickness. Zinc plated.

TUBULAR HANDRAIL STANDARDS



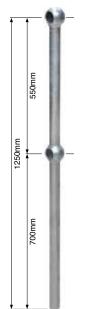
MILD STEEL OR GALVANISED TO FIT Ø 33.7, 42.4 & 48.3mm TUBE

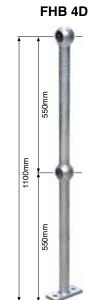


· Mild steel vented for galvanising

- M8 clamping screws fitted to balls
- Other dimensions can be supplied quickly, to order

FHB 1A





	500mm	
1100mm	-	9-
	600mm	
•	4	

FHB 5E

Ø mm	Code
33.7	25011
42.4	2501142
48.3	2501148
33.7	25021
42.4	2502142
48.3	2502148

HANDRAILING

Ømm	Code
33.7	25014
42.4	2501442
48.3	2501448
33.7	25024
42.4	2502442
48.3	2502448

.....

12mm flat drilled base plate. Ø 18mm holes for M16 bolts.
 33.7
 25025

 42.4
 2502542

 48.3
 2502548

 12mm flat drilled base plate.

Code

2501542

2501548

25015

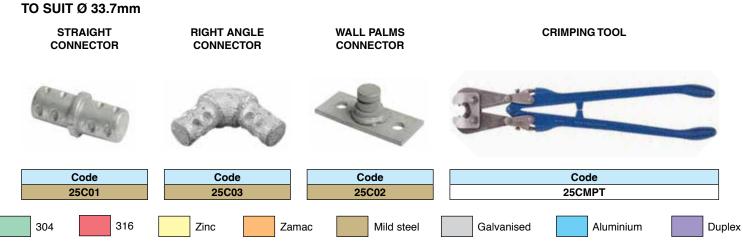
Ø 18mm holes for M16 bolts.

Ø mm 33.7

42.4

48.3

CRIMP CONNECTORS





TUBULAR HANDRAIL STANDARDS

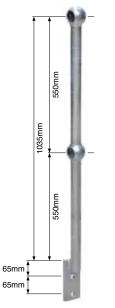
MILD STEEL OR GALVANISED TO FIT Ø 33.7, 42.4 & 48.3mm TUBE





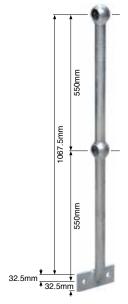


FHB 6F



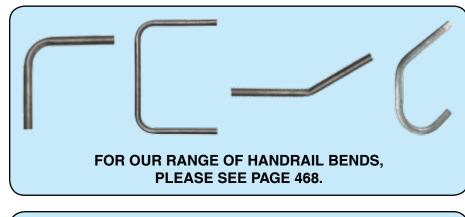
	Ømm	Code
	33.7	25013
	42.4	2501342
	48.3	2501348
	33.7	25023
ſ	42.4	2502342
ſ	48.3	2502348

12mm flat drilled base plate. \emptyset 18mm holes for M16 bolts.

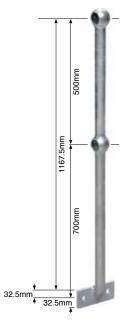


Ømm	Code
33.7	25012
42.4	2501242
48.3	2501248
33.7	25022
42.4	2502242
48.3	2502248

12mm flat drilled base plate. Ø 18mm holes for M16 bolts.



FOR OUR FULL RANGE OF GALVANISED TUBE, PLEASE SEE PAGE 487.



Ømm	Code
33.7	25016
42.4	2501642
48.3	2501648
33.7	25026
42.4	2502642
48.3	2502648

12mm flat drilled base plate. Ø 18mm holes for M16 bolts.



ADJUSTARAIL



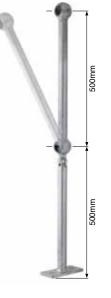
GALVANISED TO FIT Ø 33.7, 42.4 & 48.3mm TUBE



FHB 1A ADJUSTABLE

FHB 4D ADJUSTABLE





Code
25A25011
25A25011

48

OPEN STEEL

Ømm	Code
33.7	25A25024
42.4	25A2502442
48.3	25A2502448

12mm flat drilled base plate. Ø 18mm holes for M16 bolts.

	12mm flat drilled base plate.
	Ø 18mm holes for M16 bolts.
AN	TI-SLIP

Ømm

33.7

42.4

48.3

...

· Load tested

· No fabrications of raked specials required

FOR HANDRAIL BENDS, SEE PAGE 468.

F.H.BRUNDLE PATENTED DESIGN.

Flexible on site adjustment

FHB 3C ADJUSTABLE

500mm

500mm

180mm

 Delivery from stock Ball centres 500mm

Code	Ø mm
25A25023	33.7
25A2502342	42.4
25A2502348	12mm flat drilled

d base plate. Ø 18mm holes for M16 bolts.

FHB 2B ADJUSTABLE

500mm

500mm

Code

25A2502242

25A25022

DURBAR



WE STOCK A HUGE RANGE OF FLOORING & STAIR TREADS, PLEASE SEE FROM PAGE 422.

Zinc

316

Mild steel

Galvanised

TUBULAR HANDRAIL STANDARDS

MAKE YOUR OWN





GRUB SCREWS

TUBULAR HANDRAIL KNUCKLE

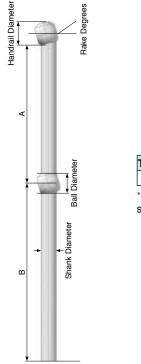
ROUND HOLLOW SECTION



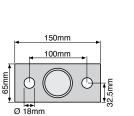
Code	Thickness mm	To Suit Ø mm
30063373	3.0	33.7
300642425	2.5	42.4
300642432	3.0	42.4
300648332	3.0	48.3

Length 7.5m.

RECTANGULAR RAKED FLAT BASE



Dimension B is to the bottom of the base plate if flat base or centre of top hole if side mount.



RECTANGULAR

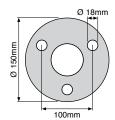
FLAT BASE

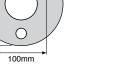
Thickness mm	Code	
12	25F0112*	
*Same plate as horizontal		

side palm.

12

ROUND BASE





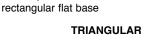
65mm

Ø 18mm

Thickness mm

12

*Same plate as



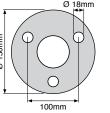
150mm

465

 (\neg)

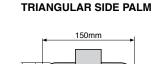
Code

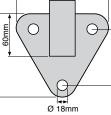
25F0112*



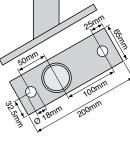
Thickness mm Code

25F0512





Thickness mm Code 25F0612 12



HANDRAILING

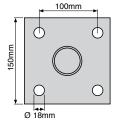
Code

25F0412

SQUARE BASE

Thickness mm

12



Thickness mm	Code
12	25F0712



To Suit Ø mm	Ø mm	Code
33.7	63	25K25
33.7	82	25K2576
42.4	82	25K32
48.3	82	25K40
48.3	95	25K40L



SIDE PALM

150mm 100mm



. . . .

Co	Length	Ø mm
25GR	8 x 16	33.7 x 63
25GR	8 x 25	33.7 x 82
25GR	8 x 20	42.4 x 82
25GR	8 x 20	48.3 x 82
25GB	8 x 25	48 3 x 95

	BASE OPTION
HORIZON	TAL

LONG

S

65mm

65mm

Thickness mm

12

g

32.5mm 65mm

SIDE PALM

35mm

₹ Ø

Code

25F0312

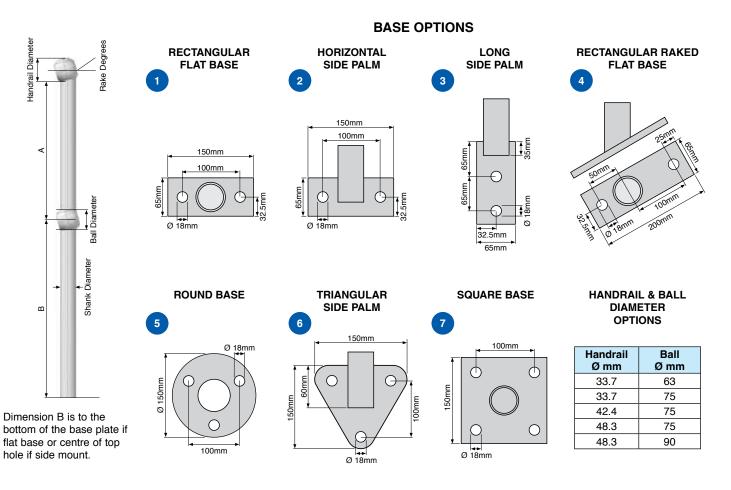
TUBULAR HANDRAIL STANDARDS

MADE TO ORDER FORM





MILD STEEL OR GALVANISED TO FIT Ø 33.7, 42.4 & 48.3mm TUBE



PLEASE STATE YOUR REQUIRED OPTION FROM THE COLUMNS BELOW

Qty	Base Type	Base Thickness mm	Post Ø mm	Handrail Ø mm*	Ball Ø mm*	Finish	Height mm	L/Hand R/Hand	Rake Degrees
	1-7	10 12 15 20	33.7 42.4 48.3	33.7 42.4 48.3	63 75 90	M/S Galv	A B	IVIIaliu	Degrees
10	5	12	42.4	42.4	75	Galv	500 400	L/Hand	25°
*See ha	ndrail ar	nd ball diameter options ta	able above.				· · · · · ·	1	

304

Zinc

316

Zamac

Galvanised

Duplex



HANDRAIL STANDARD GATES

SELF-CLOSING



SELF-CLOSING GATE & HANDRAIL STANDARD POSTS



SELF-CLOSING GATE - MADE TO ORDER

- · Supplied with hinge post & slam plate
- Galvanised
- Height 1100mm
- · Horizontal tube centres 550mm on horizontal rails
- Gate post centres 1070mm
- Lockable with padlock through Ø 15mm hole
- Base plate: 2 x Ø 18mm holes at 100mm centres
- · Image shows right hand opening inwards

Ømm	Base Plate mm	Left Hand	Right Hand
33.7	65 x 150 x 12	25SG01L	25SG01R
42.4	65 x 150 x 15	25SG02L	25SG02R
48.3	65 x 150 x 15	25SG03L	25SG03R

SELF-CLOSING UNIVERSAL GATE HINGES

Gate hinge set contains top and bottom hinge with adjustable closing speed, for welding to tubular and square sections.



- Made to size can be supplied with or without posts
- Suitable for welding to your existing posts or existing • ladder installations
- Supplied mild steel or galvanised

IF OUR SELF-CLOSING GATES DON'T MATCH YOUR REQUIREMENTS, WHY NOT WELD YOUR OWN?





HANDRAIL BENDS





F.H.Brundle is continually striving to make installations quicker and easier. Tubular bends in both galvanised and mild steel for Ø 33.7, 42.4 and 48.3mm tube will do just that. These bends are designed for Handrail Standards, Adjustarail and Tube Clamps. Joining bends to handrail tube couldn't be simpler.



316

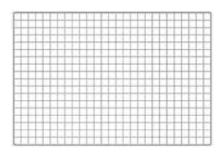
Zinc



MESH INFILL PANELS



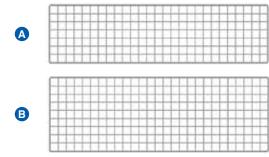
SINGLE MESH PANEL WITH BOTTOM TUBE



Mesh Inch	Mesh mm (approx)	Gauge g	Frame Ø mm	Panel H x W mm	Code
2 x 2	50 x 50	10	8	826 x 1082	0102008B
2 x 2	50 x 50	10	8	826 x 1382	0102004B



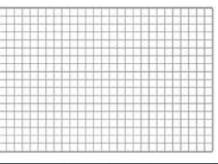
DOUBLE MESH PANEL



	Mesh Inch	Mesh mm (approx)	Gauge g		Panel H x W mm	Code
	2 x 2	50 x 50	10	8	369 x 1082	0102005B
A	2 x 2	50 x 50	10	8	369 x 1382	0102001B
B	2 x 2	50 x 50	10	8	470 x 1082	0102006B
B	2 x 2	50 x 50	10	8	470 x 1382	0102002B



SINGLE MESH PANEL



Mesh Inch	Mesh mm (approx)	Gauge g	Frame Ø mm	Panel H x W mm	Code
2 x 2	50 x 50	10	8	972 x 1082	0102007B
2 x 2	50 x 50	10	8	972 x 1382	0102003B



ACCESSORIES

MESH PANEL CLIP SINGLE

MESH PANEL CLIP DOUBLE





Ømm	Code		
42.4	16170C		
48.3 16170D			
Also available in stainless steel			

Also available in stainless steel Grade 316.

Ømm	Code

42.4	16171C			
48.3	16171D			
Also available in stainless steel				

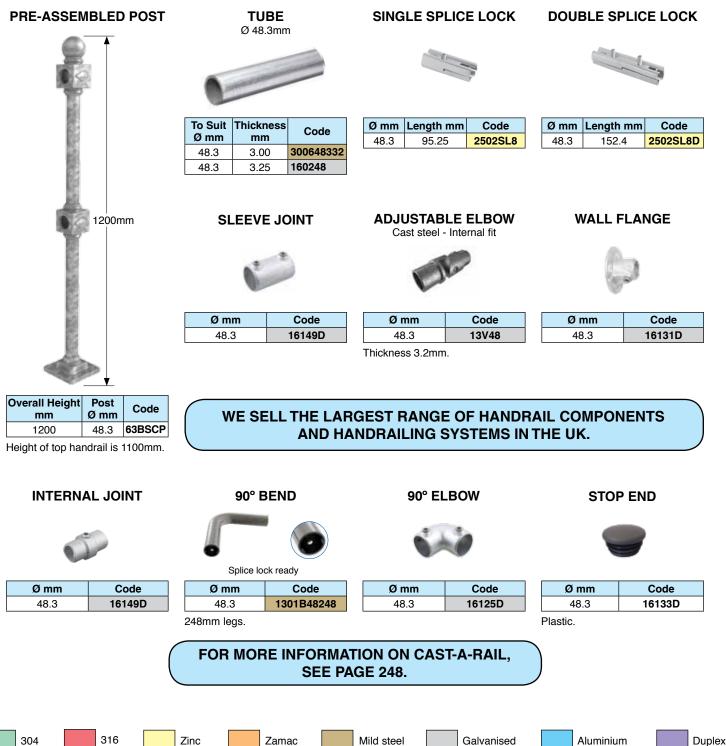
Also available in stainless steel Grade 316.

CAST-A-RAIL



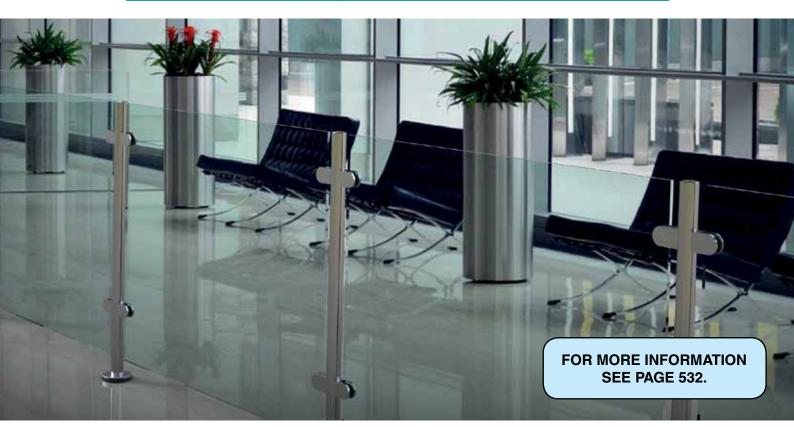


Cast-A-Rail is a self-assembly railing system suitable for welding and galvanising. The range works with fittings available exclusively from F.H.Brundle and provides a cost effective alternative railing solution to cast iron.



live configurator"

REAL TIME DESIGN

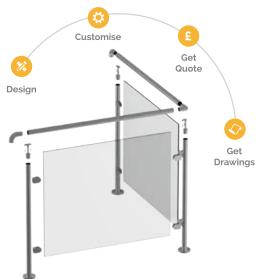


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Liveconfigurator[™] is an amazing tool which can save you valuable time and help avoid costly mistakes. It can provide you with a quote and detailed, accurate CAD drawings in minutes.

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- Get a quote in minutes
- Use 24/7 any day of the year
- For fabricators, designers, installers and architects
- Save hours of time drawing

- Automatically configure drawings to your dimensions
- Provide accurate, detailed layout drawings
- $\boldsymbol{\cdot}$ A choice of styles, layouts and components
- Makes installation easier and faster

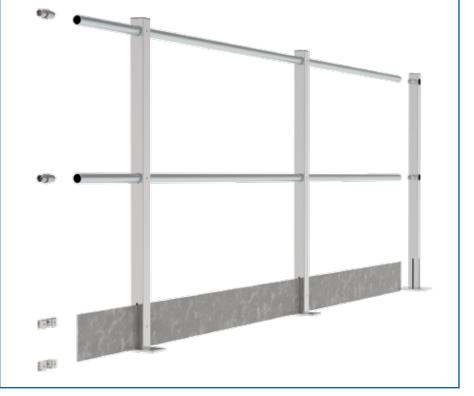
MEZZIRAIL® SYSTEM





The system is ideal for use on flooring, stair treads and handrails in industrial areas. Bright zinc plated posts are available in bolt-down and side-fix. Mezzirail[®] is designed to be used with 150 x 6mm kick plate. Powder coat for external use.

EXPLODED VIEW





Black ribbed plastic caps.

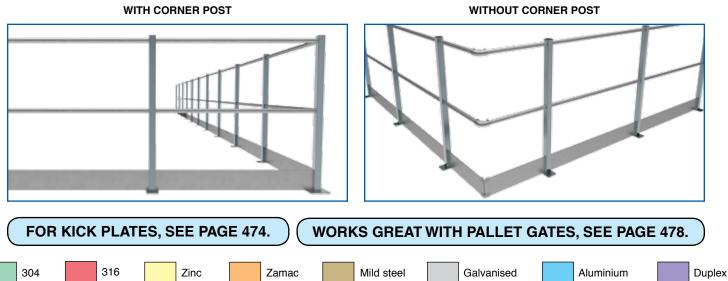


Grub screw prevents tube rotation.



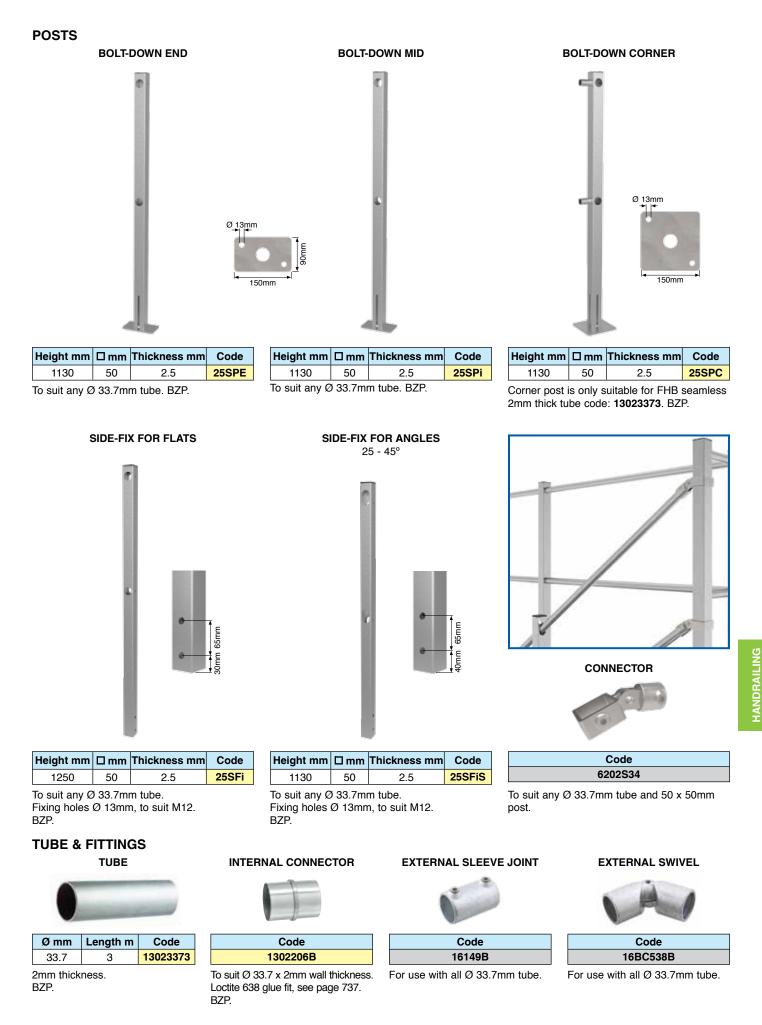
Kick plate slides through the post and secures with grub screw.

CORNER OPTIONS





MEZZIRAIL® SYSTEM



KICK PLATES



Profile	Plate	Description	Technical	Page no.
Flat		 Available in mild steel & galvanised Ideal for use with: Mezzirail[®] Handrail Standards Tube Clamp Posts 	 Length: 3m Height: 100 & 150mm Thickness: 6.0mm 	475
GRP		 Available in GRP yellow & black Ideal for use with: Mezzirail[®] Handrail Standards Tube Clamp Posts Warmagrip[®] GRP 	 Length: 3m Height: 150mm Thickness: 6.0mm 	475
GRP "W"		 Available in GRP Ideal for use with: Mezzirail[®] Handrail Standards Tube Clamp Posts GRP Fittings Warmagrip[®] GRP 	 Length: 6m Height: 100 & 150mm Width: 14mm Thickness: 3.0mm 	475
Folded		 Available in galvanised 1.5mm thick folded sheet Ideal for use with: Handrail Standards Tube Clamp Posts 	 Length: 3m Height: 100mm Thickness: 3.0mm 	475
C Section		 Available in galvanised Ideal for use with: Handrail Standards Tube Clamp Posts 	 Length: 3m Height: 150mm Width: 25mm Thickness: 2.2mm 	477

ANDRAILING



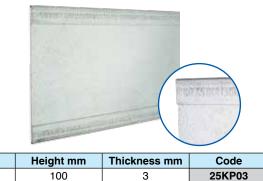
KICK PLATES



FLAT PROFILE GALVANISED KICK PLATE

Le	ngth m	Height mm	Thickness mm	Code
	3	100	6	25KP04
	3	150	6	25KP02

FOLDED KICK PLATE



1.5mm thick folded sheet.

Length m

3

GRP KICK PLATE



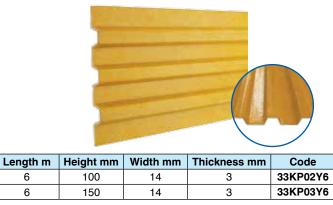
Colour	Length m	Height mm	Thickness mm	Code
Yellow	3	150	6	33KP01Y3
Black	3	150	6	33KP01B3

FLAT PROFILE MILD STEEL KICK PLATE



Length m	Height mm	Thickness mm	Code
4	100	3	30031003
4	150	3	3003150341
6	100	6	30031006
6	150	6	30031506

GRP YELLOW "W" KICK PLATE



Can be used with GRP foot code: 33132DY. See page 482 for GRP foot.

KICK PLATE CLAMP



Туре	Code
С	16142C
D	16142D

KICK PLATE FIXINGS





These fixings are ideal to secure any of the kick plates found on page 475.



KICK PLATES WORK GREAT WITH OUR MEZZIRAIL SYSTEM, SEE PAGE 472.

304

316

Zinc

Zamac

Mild steel

Galvanised

Duplex



KICK PLATE

C SECTION SYSTEM



As the installation of kick plates has become more prevalent in mezzanines around factories, warehouses and the work place, so has our range of accessories to help the installer retro fit and conform to changing building regulations.

C SECTION KICK PLATE





Length m	Height mm	Width mm	Thickness mm	Code
3	150	25	2.2	25KF3000

ADJUSTABLE CONNECTOR



END CAP

POST CONNECTOR



Code	Code	To Suit Ø mm	Code
25KFPH	25KFPE	33.7	25KFSP25
Plastic.	Plastic.	42.4 - 48.3	25KFSP40

FOR OUR FULL RANGE OF FIXINGS SEE PAGE 710.

PALLET GATES



MEZZANINE PALLET SAFETY GATES



Pallet gates have been designed to provide a safe access solution for loading and unloading pallets onto mezzanine floors or raised working surfaces. Designed to fit seamlessly into a guardrail or barrier and toe-board mounted on a mezzanine for safe working at height. In the event of damage from a forklift, the design allows individual fittings to easily be replaced, using our tube clamp fittings.

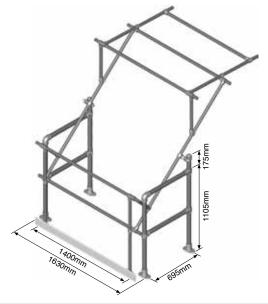
FEATURES & BENEFITS

- · Modular system using standard components
- Available in galvanised or aluminium
- Complies with EN 14122-3 & OSHA requirements for • assured safe operation
- · Built using tube clamp fittings, TUV approved components for quality assurance
- Cycle tested for 50,000 openings for assured durability
- Salt spray tested for corrosion resistance (over 200 hours) to allow continuous operation even in corrosive environments
- No welded parts so any damage can be easily repaired
- Minimal number of moving parts for lower maintenance ٠ Will be supplied part-assembled to facilitate on site •
- installation
- · Balanced for a positive open & close action

STANDARD FRAME



NARROW FRAME For use on mezzanines where space is limited



Sides Ø mm	Gate Ø mm	Max. Pallet H m	Max. Pallet W x D m	Code
48.3	33.7	1.8	1.4 x 1.48	1603PBD
48.3	33.7	1.8	1.4 x 1.48	1603PBDY*

*Polyester powder coated yellow RAL 1021.

1485m

Sides Ø mm	Gate Ø mm	Max. Pallet H m	Max. Pallet W x D m	Code		
48.3	33.7	1.6	1.4 x 1.48	1603PAD		
48.3	33.7	1.6	1.4 x 1.48	1603PADY*		
*Polycotor powder costed vollow PAL 1021						

Zinc

Polvester powder coated vellow RAL 1021.

316

304

Mild steel

Duplex



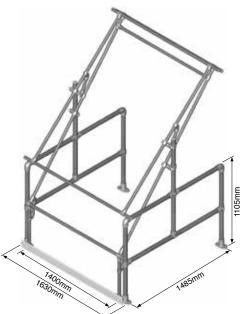
PALLET GATES

MEZZANINE PALLET SAFETY GATES



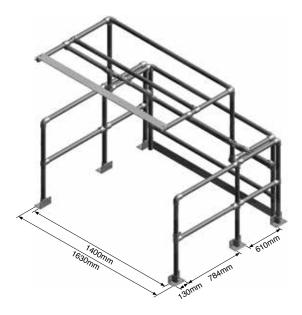
 TALL FRAME

 The cantilever design provides maximum height with minimal ceiling height requirement



Sides Ø mm	Gate Ø mm	Max. Pallet H m	Max. Pallet W x D m	Code
48.3	33.7	2.2	1.4 x 1.48	1603PCD
48.3	33.7	2.2	1.4 x 1.48	1603PCDY*

EXTRA WIDE FRAME
Provides maximum load width, whilst also
offering 2m head clearance for workers



	Sides Ø mm	Gate Ø mm	Max. Pallet H m	Max. Pallet W x D m	Code
Γ	48.3	48.3	1.6	1.95 x 1.4	1603PDDA
Toe-board mounted on all sides to protect gates from pallet contact.					

*Polyester powder coated yellow RAL 1021.

PALLET GATES ARE IDEAL TO USE WITH OUR MEZZIRAIL® SYSTEM, SEE PAGE 472.







SAFETY GATES

SELF-CLOSING



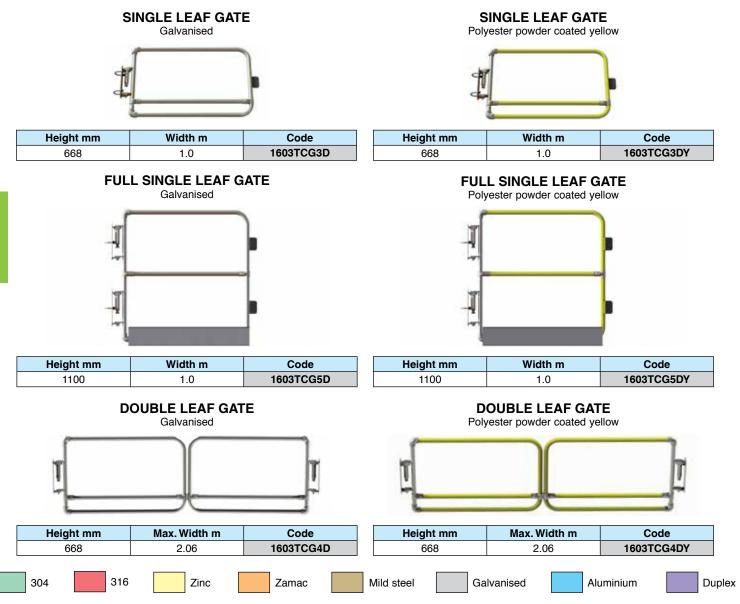


A fully adjustable range of self-closing safety gates which have been designed to easily fit to new or existing structures where a gate is required. Our gates are spring loaded so will automatically close behind the user, thus maintaining a safe barrier. Gates can easily be cut to size on site for a perfect fit.

FEATURES & BENEFITS

- · Spring loaded gates automatically close
- · Galvanised or polyester powder coated yellow
- Comply with test requirements of EN 13374 Class A & EN 14122 Part 3 & Part 4, & OSHA
- Reversible, hinges can be on the left or right hand side of an opening to allow easy installation
- · Quick & easy to assemble

- Fully adjustable height & widthEasily cut to size on site
- Can be used for external & internal applications
- Can fit round or square surfaces
- To suit Ø 33.7, 42.4 & 48.3mm
- Retro-fits to existing structures
- Single gates are supplied with welded on slam plate



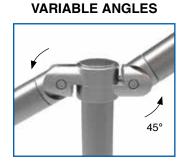


FLEXIRAIL® SYSTEM



The most flexible handrailing solution for stairs, gradients and around corners. Made with Ø 48.3 x 3.2mm galvanised tube.

TOP/MID RAIL



BOLT-DOWN POST With steel end cap

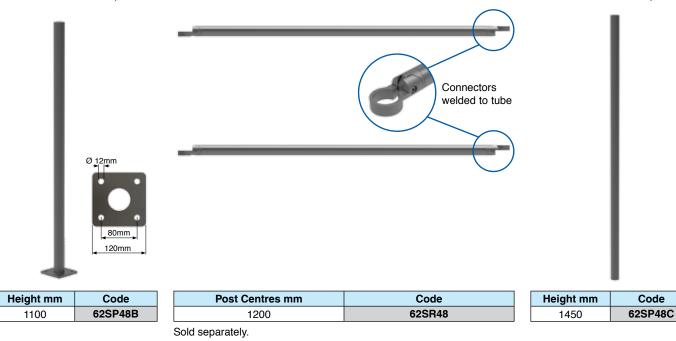


VARIABLE CORNERS

EXPLODED VIEW



CONCRETE-IN POST With steel end cap



MESH INFILL PANELS

641.																					
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Flexirail is compatible with all of our mesh infill panels, see pages 469.

INTERNAL JOINT



CONNECTOR



Suitable for	Code
Welding	62R48
Glue Fit	6202R48

For shorter post centres cut rail and join using

an internal joint.

GRP FITTINGS





A cost effective, warm to the touch modular GRP handrail system; it is lightweight and easy to install with low maintenance costs. Simply cut tube and fix on site.

90° SHORT TEE

9 8

ColourØ mmCodeYellow5033101DYRequires 2 fixings.

BASE FOOT



ColourØ mmCodeYellow5033132DY

Fixing holes Ø 13mm. Can be used with GRP 'W' profile kick plate.

60° SHORT TEE



ColourØ mmCodeYellow5033129DYRequires 2 fixings.

RAILING FLANGE



ColourØ mmCodeYellow5033104DYRequires 3 fixings.

90° LONG TEE

TOP RAIL CORNER



ColourØ mmCodeYellow5033128DYRequires 3 fixings.

J



ColourØ mmCodeYellow5033130DYRequires 3 fixings.

TUBE



 Colour
 Ø mm
 Code

 Yellow
 50
 335065Y

 6m length. 5mm thickness. For

plastic cap use code: **3203505**.

90° MID RAIL CROSS With centre vertical tube



ColourØ mmCodeYellow5033119DYRequires 3 fixings.

MID RAIL CORNER With through centre tube



ColourØ mmCodeYellow5033116DYRequires 4 fixings.

60° ELBOW



ColourØ mmCodeYellow5033124DYRequires 2 fixings.



Colour Ø mm

50

Requires 2 fixings.

Yellow

Colour Ø mm

Requires 2 fixings.

Yellow

50

SINGLE

ADJUSTABLE

ColourØ mmCodeYellow5033764DYRequires 1 fixing.

FIXING SET



 Length mm
 Code

 50
 3399M6X60

M6. For rivet tool use code: 189900667.

90° ELBOW

Code 33125DY

Code

33173DY

SIDE MOUNT

Colour	Ømm	Code					
Yellow	50	33146DY					
Fixing holes Ø 8mm.							

DOUBLE





ColourØ mmCodeYellow5033167DYRequires 3 fixings.

ADJUSTABLE

EXTERNAL ELBOW



ColourØ mmCodeYellow5033166DYRequires 1 fixing.





WARMAGRIP™

A "WARM TO THE TOUCH" DDA COMPLIANT HANDRAIL COMPONENT SYSTEM



AVAILABLE IN THREE OPTIONS:

WARMAGRIP[™] GRP TUBE & PVC FITTINGS

This option is based on the supply of standard PVC coated fittings and long lengths of GRP tube that can be cut down on site to suit varying post centres. The fittings are then glued to the steel core of the handrail fittings.

WARMAGRIP[™] PVC TUBE & PVC FITTINGS

This option is based on the supply of standard PVC coated fittings and standard pre-cut lengths of PVC coated tube. The system is bolted together using special security fixings.

WARMAGRIP[™] ORIGINAL

This option is based on the supply of standard PVC coated steel fittings and standard lengths of pre drilled PVC coated tube. The system is bolted together using special security fixings.

Both GRP & PVC solutions are available as post mounted or wall mounted. They provide two smooth continuous handrails. They will also allow our post mounted handrail brackets to be fixed using different methods:



Fix handrail brackets into our standard posts.



Pre-drill steel RHS post and then bolt handrail bracket from the inside of the RHS section. Use a plastic cap, from our **3201** range to conceal hole, see page 31.



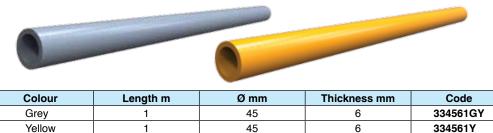
Bolt handrail brackets onto steel work fitted with a suitable lug.

FOR MORE DETAILS ON OUR 3 WARMAGRIP[™] SYSTEMS SEE PAGES 484 - 486.

WARMAGRIP[™] GRP

A "WARM TO THE TOUCH" DDA COMPLIANT HANDRAIL COMPONENT SYSTEM

GRP HANDRAIL TUBE



45

45

1203

1203

PVC SCROLL END

Code

52RD025G

52RD025Y

DUE TO THE USE OF A PVC COATING **ON THE HANDRAIL FITTINGS AND GRP ON THE** HANDRAIL TUBES. THERE MAY BE A SLIGHT COLOUR VARIATION.

POSTS

Grey

Yellow

BOLT-DOWN

6

6

120mm

Code

33BP001B*

33BP001

Ø 10.5mm

🗆 mm

50

50

Code

52RD027G

52RD027Y

1100mm height to the top of handrail. 650mm

height to the top of the mid-rail. *Polyester

powder coated gloss black RAL 9005. BZP.

PVC WALL MOUNTED ELBOW



50

50

1100mm height to the top of handrail. 650mm

height to the top of the mid-rail. *Polyester

powder coated gloss black RAL 9005. BZP.

33SP001

33SP001B*

6

6

FITTINGS

334566GY

334566Y



Colour	Code					
Grey	52RD028G					
Yellow	52RD028Y					

Screw fitting size is M10.



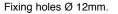
Colour	Code
Grey	52RD026G
Yellow	52RD026Y

Fixing holes Ø 12mm.

PVC 90° ELBOW



Colour	Code
Grey	52RD002G
Yellow	52RD002Y



ACCESSORIES

Colour

Grey

Yellow

Height mm

1026

1026

FITTINGS

HANDRAILING





Colour

Yellow

Grey

Colour	Code
Grey	52HFCG
Yellow	52HFCY

Plastic.

PVC WALL MOUNTED HANDRAIL BRACKET							

Colour	Code
Grey	52RD026G
Yellow	52RD026Y

PVC VARIABLE ELBOW

Code
52RD002G
52RD002Y

ADHESIVE 310ml

Code

52RD024G

52RD024Y

Code
3399001GY
3399001

For use with a sealant gun.

Colour

Grey

Yellow



WARMAGRIP[™] PVC

2 mm steel core tube

4mm thick high quality PVC coating

A "WARM TO THE TOUCH" DDA COMPLIANT HANDRAIL COMPONENT SYSTEM

PVC HANDRAIL TUBE

•				•
Length mm	Ømm	Thickness mm	Grey Code	Yellow Code
790	45	6	52A014G790	52A014Y790
800	45	6	52A014G800	52A014Y800
845	45	6	52A014G845	52A014Y845
890	45	6	52A014G890	52A014Y890
900	45	6	52A014G900	52A014Y900
990	45	6	52A014G990	52A014Y990
1400	45	6	52A014G1400	52A014Y1400

POSTS



Height mm	🗆 mm	Code
1026	50	33BP001
1026	50	33BP001B*

1100mm height to the top of handrail. 650mm height to the top of the mid-rail. *Polyester powder coated gloss black RAL 9005. BZP.

Colour

Yellow

1 fixing bolt supplied.

Grey

PVC SCROLL END

FITTINGS

PVC WALL MOUNTED ELBOW

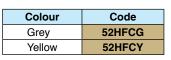


Fixing holes Ø 12mm. 1 fixing bolt supplied.

ACCESSORIES

HANDRAIL FIXING CAPS





Plastic.



SIDE-FIX

1100mm height to the top of handrail. 650mm height to the top of the mid-rail. *Polyester powder coated gloss black RAL 9005. BZP.

FITTINGS

fittings.

PVC POST MOUNTED HANDRAIL BRACKET

Fixings included with



Screw fitting size is M10. 2 fixing bolts supplied.

PVC WALL MOUNTED HANDRAIL BRACKET



Colour	Code
Grey	52A026G
Yellow	52A026Y

Fixing holes Ø 12mm. 2 fixing bolts supplied.

PVC VARIABLE ELBOW





PVC 90° ELBOW

Grey 52A002G Yellow 52A002Y

2 fixing bolts supplied.

DEBURRING TOOL Code 5299001







Code

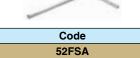
52A025G

52A025Y

SECURITY FIXING TOOL

Yellow

2 fixing bolts supplied.



WARMAGRIP[™] ORIGINAL

A "WARM TO THE TOUCH" DDA COMPLIANT HANDRAIL COMPONENT

PVC HANDRAIL TUBE

0

		BRUNDLE
SYSTEM		
27	6	
24	Ū	

	Length mm	Ømm	Thickness mm	Grey Code	Yellow Code
A	790	45	6	52A014G790	52A014Y790
B	800	45	6	52A014G800	52A014Y800
C	845	45	6	52A014G845	52A014Y845
D	890	45	6	52A014G890	52A014Y890
0	900	45	6	52A014G900	52A014Y900
0	990	45	6	52A014G990	52A014Y990
G	1400	45	6	52A014G1400	52A014Y1400

CHOICE OF TOP RAIL FITTINGS HAND RAIL BEND



Code

52A002G

52A002Y

Code

52A021G

52A021Y

CHOICE OF BASE FITTINGS

2 fixing bolts supplied.

BASE FOOT

FLANGE

CHOICE OF MID RAIL FITTINGS

2 fixing bolts supplied.

MID RAIL SINGLE

Colour

Yellow

Grey

21

Colour

Yellow

Grey



Colour

Yellow

Colour

Grey

15

Colour

Yellow

Grev

Yellow

52A003Y

Code

52A004G

52A004Y

Code

52A015G

52A015Y

2 fixing bolts supplied.

SIDE MOUNT

BRACKET

2 fixing bolts supplied.

ADJUSTABLE MID

RAIL SINGLE

Grey



22

Code 52A022G Grey 52A022Y Yellow

90° TEE

3 fixing bolts supplied.

MID RAIL DOUBLE



Colour Code Grey 52A020G Yellow 52A020Y 3 fixing bolts supplied.

24

HANDRAIL & ADJUSTABLE CONNECTOR FITTINGS



Г

19

Colour

Yellow

111

Colour

Grey

Yellow

Grey

Е

ADJUSTABLE TEE

Code

52A019G

52A019Y

Code

3 fixing bolts supplied.

ADJUSTABLE MID

RAIL DOUBLE

Colour Code Grev 52A024G Yellow 52A024Y

2 fixing bolts supplied.



Colour Code Grev 52A026G Yellow 52A026Y

2 fixing bolts supplied.



Colour Code Grev 52A027G Yellow 52A027Y

1 fixing bolt supplied.

DEBURRING TOOL

Code

Colour Code Grey 52A023G Yellow 52A023Y

3 fixing bolts supplied.

SCROLL END



1 fixing bolt supplied.

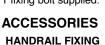
FIXING SET



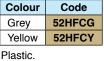
40 52SFS 50 52LFS Supplied with components.

18

Colour Code Grev 52A018G Yellow 52A018Y 1 fixing bolt supplied.







304

316



Zinc

1 fixing bolt supplied.





Zamac



SECURITY FIXING TOOL

Mild steel



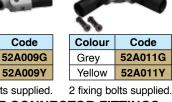
5299001 Hand held.

Galvanised

Aluminium

Duplex







3 WAY ELBOW

6

3 fixing bolts supplied. MID RAIL CORNER

111

Colour

Grey

Yellow

63.4° MID RAIL DOUBLE

Code

52A001G

52A001Y

63.4° TEE





GALVANISED TUBE

TUBE CLAMPS - EASY TO USE

Tube Clamp fittings are manufactured with simplicity and ease of use in mind. Specialised skills are not required. No welding, no bending, no threading, just an Allen key to tighten the set screws and you can join tubes together in a matter of seconds. The comprehensive range of fittings and sizes means Tube Clamps can be used in a wide variety of temporary or permanent applications. For example in the construction of:

HANDRAILS

- SAFETY BARRIERS
- AWNINGS AND CARPORTS
- SUPPORT STRUCTURES
- CHILDREN'S PLAY EQUIPMENT

MARKET STALLS

- EXHIBITION STANDS
- TEMPORARY BUILDINGS
- LIGHTING GRIDS



HANDRAILING

TUBE – EASY TO ORDER

As with the fittings we've also made ordering simple. Each illustration carries a number - for example 16101. Look under the type column and you will see that this fitting is available in five different sizes A, B, C, D and E. Each of these letters refers to the size of the tube on which the fitting is to be used as indicated below. No letter after the fitting number indicates that size is not available at the time of printing. For example 16191 is only available to suit size D tubing.

PALLET OR GARMENT RACKING

GALVANISED TUBE

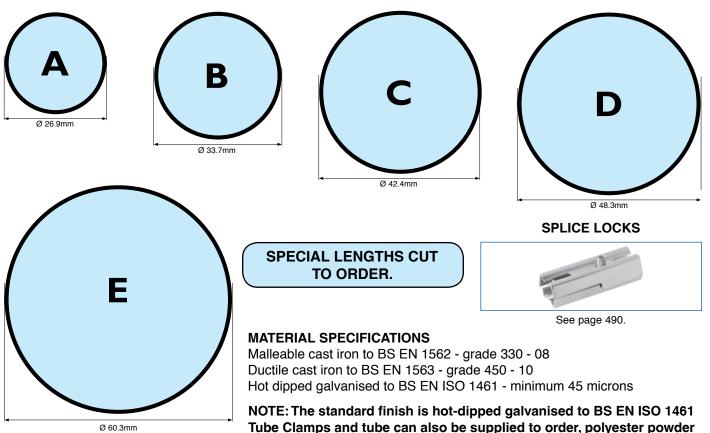
LENGTH OF GALVANISED TUBE STOCKED

Туре	Ømm	1.044m	1.050m	1.075m	1.15m	1.45m	2.0m	3.0m	6.5m
Α	26.9	-	-	-	-	-	-	16022530	160225
В	33.7	-	-	1602341075*	-	-	16023420	16023430	160234
С	42.4	-	1602421050*	1602421075	1602421150**	1602421450***	16024220	16024230	160242
D	48.3	1602481044*	-	1602481075	1602481150**	1602481450***	16024820	16024830	160248
E	60.3	-	-	-	-	-	-	-	160260

*To give 1100mm high posts. **To give 1.2m post centres. ***To give 1.5m post centres. 3.25 thickness.

LENGTH OF POLYESTER POWDER COATED YELLOW GALVANISED TUBE STOCKED

Туре	Ø mm	6.5m	
С	42.4	160242Y	
D	48.3	160248Y	



487

coated in a range of colours.

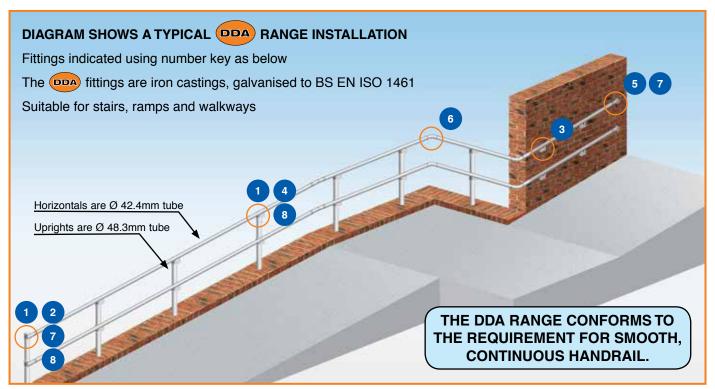
DDA HANDRAIL FITTINGS



FOR DISABLED ACCESS

The DDA Range &

Designed to satisfy the requirements of Part 'M' of the Building Regulations 2004.

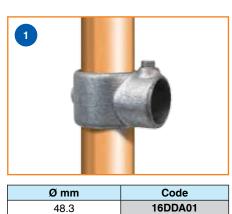


For uprights use type D tube (Ø 48.3mm) for horizontal use type C tube (Ø 42.4mm).

UPRIGHT CONNECTOR

HANDRAIL CURVE For use with 16DDA01

WALL BRACKET



INTERMEDIATE BRACKET For use with 16DDA01



ø mm	Code
42.4	16DDA04

Zinc

316

304

2	

Ø mm	Code
42.4	16DDA02

WALL MOUNTED HANDRAIL JOINER



Ø mm	Code
42.4	16DDA03

```
END RETURN
For use with 16150C
```





Duplex

Zamac

Ømm

42.4

Mild steel

Code

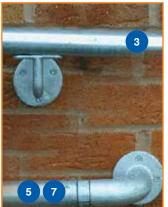
1699580C

Galvanised



DDA HANDRAIL FITTINGS









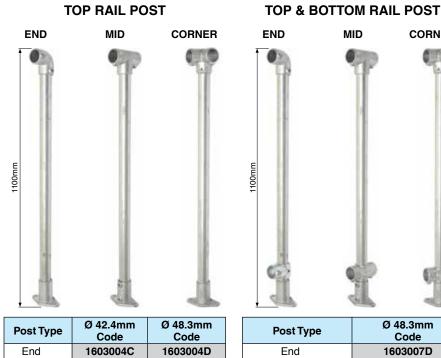


TUBE CLAMP POSTS





CORNER



1603005D

1603006D

TOP	&	MID	RAIL	POST
-----	---	-----	------	------



Post Type	Ø 42.4mm Code	Ø 48.3mm Code	
End	1603001C	1603001D	
Mid	1603002C	1603002D	
Corner	1603003C	1603003D	

Mid rail fitting is adjustable in height.

POSTS WORK REALLY GREAT WITH MESH INFILL PANELS, PLEASE SEE PAGE 469.

Bottom rail fitting is adjustable in height.

Mid

Corner

Ø 48.3mm

Code 1603007D

1603008D

1603009D

Mid

Corner

SPLICE LOCKS

1603005C

1603006C

FOR JOINING TUBE

Effective joint stiffeners, splice locks are proven to be the best mechanical splice available for pipe and tubular handrail joints.

SINGLE SPLICE LOCK		DOUBLE SPLICE LOCK				
Ømm	Length mm	Code	Ømm	Length mm	Code	
33.7	95.25	2502SL6	42.4	152.4	2502SL7D	Shown upside down for illustration purposes
42.4	95.25	2502SL7	48.3	152.4	2502SL8D	
48.3	95.25	2502SL8				
60.3	95.25	25SL9				View our video on You Tube
304	316	Zinc	Zamac	Mild s	teel	Galvanised Aluminium Duple



TUBE CLAMPS



SHORT TEE

ADD ON SHORT TEE

LONG TEE

CORNER



Туре	Code
A	16101A
В	16101B
С	16101C
D	16101D
E	16101E

L/H SLOPING DOWN SIDE OUTLET TEE 30 - 45° slope



Туре	Code
A	-
В	-
С	16A116LHC
D	16A116LHD
E	-

ACUTE ANGLE ELBOW 11 - 30° slope



Туре	Code
А	-
В	-
С	16A122C
D	16A122D
E	-



Туре	Code
A	-
В	-
С	16A101C
D	16A101D
E	-

R/H SLOPING DOWN SIDE OUTLET TEE 30 - 45° slope



Туре	Code
А	-
В	-
С	16A116RHC
D	16A116RHD
E	-

ACUTE ANGLE ELBOW 40 - 70° slope

Туре	Code		
А	-		
B	-		
	- - 16123C		
В	- - 16123C 16123D		



Туре	Code
A	16104A
В	16104B
С	16104C
D	16104D
E	16104E

TWO SOCKET CROSS With centre vertical tube



Туре	Code
A	16119A
В	16119B
С	16119C
D	16119D
E	16119E

VARIABLE ELBOW 15 - 60° from horizontal



.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0040
A	-
В	16124B
С	16124C
D	16124D
E	-

With through centre tube

Туре	Code
А	16116A
В	16116B
С	16116C
D	16116D
E	16116E

ACUTE ANGLE ELBOW



Туре	Code
A	-
В	-
С	16122C
D	16122D
F	-

HANDRAILING

VARIABLE ELBOW 11 - 30° slope

-	
0	0

Туре	Code
А	-
В	-
С	16A124C
D	16A124D
E	-

B size to suit Ø 33.7mm tube C size to suit Ø 42.4mm tube (A) size to suit Ø 26.9mm tube

(D) size to suit Ø 48.3mm tube (E) size to suit Ø 60.3mm tube

	6	
de	Туре	
19A	A	
	_	



90° ELBOW

Туре	Code
А	16125A
В	16125B
С	16125C
D	16125D
E	16125E

ADJUSTABLE SHORT TEE

30 - 60° slope



Туре	Code
А	-
В	16129B
С	16129C
D	16129D
E	-

STOP END





Code	Туре
16128A	A
16128B	В
16128C	С
16128D	D
16128E	E

TWO SOCKET CROSS With adjustable centre 30 - 45°



Туре	Code
А	-
В	16130B
С	16130C
D	16130D
E	-

GROUND SOCKET

L/H SLOPING DOWN SIDE OUTLET ELBOW 30 - 45° slope



Туре	Code
А	-
В	-
С	16A128LHC
D	16A128LHD
E	-

WALL FLANGE

Туре

A В

С

D

Е

Туре

А В

С

D

Е

Code

16131A

16131B

16131C

16131D

16131E

Code 16135A

16135B

16135C

16135D

16135E

CLAMP ON TEE

SIDE OUTLET ELBOW 30 - 45° slope

R/H SLOPING DOWN



Туре	Code
А	-
В	-
С	16A128RHC
D	16A128RHD
E	-

RAILING BASE FLANGE



Туре	Code
Α	16132A
В	16132B
С	16132C
D	16132D
E	16132E

GATE EYE



Туре	Code
А	16138A
В	16138B
С	16138C
D	16138D
E	-

HANDRAIL BRACKET



Туре	Code
А	16143A
В	16143B
С	16143C
D	16143D
E	-

*These fittings are not to be used as a base plate for guardrails or dependent structures No structure should be built using swivel fittings only

Туре	Code	
A	16133A	
В	16133B	
С	16133C	
D	16133D	
E	16133E	
Plastic.		

GATE HINGE



Туре	Code
A	16140A
В	16140B
С	16140C
D	16140D
E	-



Туре	Code
А	-
В	16134B
С	16134C
D	16134D
E	-

RAILING SIDE SUPPORT



Туре	Code
А	-
В	16141B
С	16141C
D	16141D
E	-

KICK PLATE CLAMP



Туре	Code
A	-
В	-
С	16142C
D	16142D
E	-





Duplex



RAILING SIDE SUPPORT Vertical base



Туре	Code
А	-
В	16144B
С	16144C
D	16144D
F	-

SHORT SWIVEL TEE Used in pairs



Туре	Code
A	16148A
В	16148B
С	16148C
D	16148D
E	16148E

ANGLE BASE FLANGE 30 - 45° slope



Туре	Code
А	-
В	-
С	16A151C
D	16A151D
E	-

LONG TEE Allows slope up to 11°



Туре	Code
А	-
В	-
С	16155C
D	16155D
E	-

RAILING SIDE SUPPORT Horizontal base



Туре	Code
А	-
В	16145B
С	16145C
D	16145D
E	-

SLEEVE JOINT

Code

16149A

16149B

16149C

16149D

16149E

Code

_

16152C

Туре

А

В

С

D

Е

Туре

А

В

С

D

Е

BASE FLANGE

Allows slope up to 11°





Туре	Code
A	-
В	16146B
С	16146C
D	16146D
E	-

INTERNAL JOINT

Code

16150B

16150C

16150D

-

Code

16153C

16153D

-

Туре

А

В

С

D

Е

Туре

А

В

С

D

SHORT TEE

Allows slope up to 11°

INTERNAL SWIVEL TEE



Туре	Code
А	-
В	16147B
С	16147C
D	16147D
E	-

ANGLE BASE FLANGE 11 - 30° slope



Туре	Code
А	-
В	-
С	16151C
D	16151D
E	-

ELBOW Allows slope up to 11°

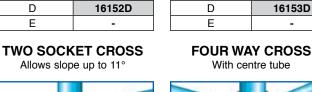


Туре	Code
A	-
В	-
С	16154C
D	16154D
E	-

CLAMP ON CROSSOVER



Туре	Code
A	16160A
В	16160B
С	16160C
D	16160D
E	16160E





Туре	Code
А	-
В	-
С	16156C
D	16156D
E	-

With centre tube



Туре	Code
A	16158A
В	16158B
С	16158C
D	16158D
E	16158E

HANDRAILING

B size to suit Ø 33.7mm tube C size to suit Ø 42.4mm tube (A) size to suit Ø 26.9mm tube (D) size to suit Ø 48.3mm tube (E) size to suit Ø 60.3mm tube

90° CROSSOVER





16161E

DOUBLE SWIVEL COMBINATION

Е



21.5 mm	Code
А	16167A
В	16167B
С	16167C
D	16167D
E	16167E

SWIVEL BASE

Code

16169A

16169B

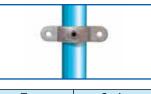
16169C

16169D 16169E



Туре	Code
C/B	16161CB
D/B	16161DB
D/C	16161DC
	-

DOUBLE MALE SECTION OF SWIVEL



Туре	Code
А	16167AM
В	16167BM
С	16167CM
D	16167DM
E	16167EM

SWIVEL BASE SECTION

Code

16169M

ADD ON CROSSOVER



Code	Туре
-	A
-	В
16A161C	С
16A161D	D
-	E

90° CORNER SWIVEL COMBINATION



Туре	Code
A	16168A
В	16168B
С	16168C
D	16168D
E	-

MESH PANEL CLIP SINGLE

Available in stainless steel Grade 316



Туре	Code
A	16170A
В	16170B
С	16170C
D	16170D
E	16170E

SINGLE MALE SECTION OF SWIVEL



Туре	Code
А	16173AM
В	16173BM
С	16173CM
D	16173DM
E	16173EM

R COMBINATION SOCKET

Tee & crossover



Туре	Code
А	16165A
В	16165B
С	16165C
D	16165D

90° CORNER SWIVEL MALE COMBINATION



Туре	Code
А	16168AM
В	16168BM
С	16168CM
D	16168DM
E	-

MESH PANEL CLIP DOUBLE

Available in stainless steel Grade 316



Туре	Code
А	16171A
В	16171B
С	16171C
D	16171D
E	16171E

SWIVEL TEE



Туре	Code
А	-
В	-
С	-
D	16174D
E	-

*These fittings are not to be used as a base plate for guardrails or dependent structures No structure should be built using swivel fittings only



SINGLE SWIVEL

Туре

А

В

С

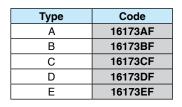
D

Е

Туре	Code
А	16173A
В	16173B
С	16173C
D	16173D
E	16173E









SWIVEL ELBOW



Туре	Code
А	-
В	-
C	-
D	16175D
E	-

LOCKING COLLAR

SIDE OUTLET TEE



Туре	Code
А	16176A
В	16176B
С	16176C
D	16176D
E	16176E



THREE SOCKET TEE 11 - 30° slope



Туре	Code
A	-
В	-
С	16177C
D	16177D
E	-

45° TEE

TWO SOCKET CROSS

TUBE CLAMPS

11 - 30° slope



Туре	Code
А	-
В	-
С	16178C
D	16178D
E	-

271/2° EAVES FITTING



Туре	Code
А	16179A
В	16179B
С	16179C
D	16179D
E	16179E

271/2° RIDGE FITTING

Туре

A В

С

D

Е

Туре

Α

В С D Е

ADJUSTABLE ELBOW

Internal fit

Code

-

16191D

Code



Туре	Code
A	16182A
В	16182B
С	16182C
D	16182D
E	-

BASE FLANGE WEATHER SHIELD

SLOPING DOWN TEE

30 - 45° slope

Code

16192B

16192C

16192D

Code

-



туре	Code
А	-
В	16184B
С	16184C
D	16184D
E	-

ADJUSTABLE FIXING BRACKET



Туре	Code
A	-
В	16199B
С	16199C
D	16199D
E	-

SLOPING UP TEE 30 - 45° slope



Туре	Code
A	-
В	-
С	16A204C
D	16A204D
E	-



Туре	Code
А	-
В	-
С	-
D	16185D
E	-

IN-LINE SWIVEL FITTING



Туре	Code
A	-
В	16BC538B
С	16BC538C
D	16BC538D
E	-

SLOPING DOWN/UP CROSS 30 - 45° slope



Туре	Code
А	-
В	-
С	16219C
D	16219D
E	-

-	В	-	E
-	С	16204C	(
13V48	D	16204D	[
-	E	-	E

Туре

А

Туре

А

В

С

D

Е

(B) size to suit Ø 33.7mm tube (C) size to suit Ø 42.4mm tube (A) size to suit Ø 26.9mm tube (D) size to suit Ø 48.3mm tube (E) size to suit Ø 60.3mm tube

495

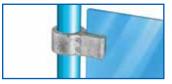


SINGLE SOCKET TEE 11 - 30° slope



Туре	Code
А	-
В	-
С	16229C
D	16229D
E	-

SINGLE **GLASS CLAMP**



Туре	Code	
А	-	
В	-	
С	16401C	
D	16401D	
E	-	

STAIR TREAD BRACKET



METAL STOP ENDS

Туре	Code
A	16236A
В	16236B
С	16236C
D	16236D
E	-

DOUBLE **GLASS CLAMP**



Туре	Code
A	-
В	-
С	16402C
D	16402D
E	-

LADDER WALL CLAMP

METAL DRIVE IN PLUG



Туре	Code
А	-
В	-
С	-
D	-
E	16136E

EXPANDING FITTING Also available in C/D



Туре	Code
A	-
В	-
С	16750C
D	16750D
E	-

CRADLE

THREE SOCKET TEE

30 - 45° slope

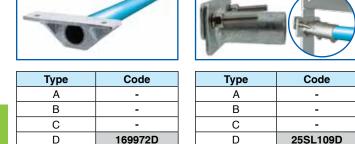


Туре	Code
А	-
В	-
С	16277C
D	16277D
E	-

PALLET FLANGE



Туре	Code
А	-
В	-
С	-
D	169931D
E	-



25SL109D D Е

Туре	Code	1
А	-	
В	-	
С	-	
D	16KG135D	
F	-	

FOR OUR RANGE **OF GALVANISED** TUBE, SEE PAGE 487.

GRUB SCREW PROTECTORS

ALLEN KEY



RATCHET SET

Duplex

Туре	Code	Туре	Code	Туре	Code	Туре	Code
A	16231A	A - B	16305BC	A - C	16232ABC	A - E	16233
B - C	16231BC	C - E	16305DE	D - E	16232D		
D - E	16231DE	Plastic.					

*These fittings are not to be used as a base plate for guardrails or dependent structures No structure should be built using swivel fittings only

304	316	Zinc	Zamac	Mild steel	Galvanised	Aluminium



GRUB SCREWS

Е

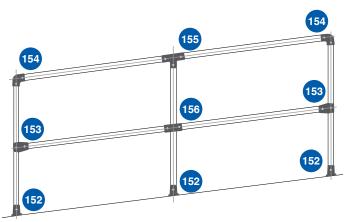
FIXINGS & TOOLS





TUBE CLAMP SLOPE FITTINGS





For railings on slopes and ramps between 0 - 70°. Available to suit Ø 42.4 and 48.3mm tube (C and D size).

N.B. The tolerance on standard Tube Clamp fittings is between 3° and 5°.

153

FOR SLOPES UP TO 11°

BASE FLANGE

152	0.0	
	and the second s	

Туре	Code
С	16152C
D	16152D

0

SHORT TEE

Туре	Code
С	16153C
D	16153D

TWO SOCKET CROSS

ELBOW



Туре	Code
С	16154C
D	16154D

LONG TEE



Туре	Code
С	16155C
D	16155D

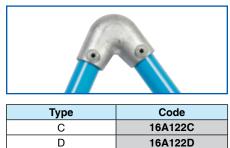
FOR SLOPES 11 - 30°

ANGLE BASE FLANGE



Туре	Code
С	16151C
D	16151D

ACUTE ANGLE ELBOW



 Type
 Code

 C
 16156C

 D
 16156D



2 Called

THREE SOCKET TEE

Туре	Code
С	16177C
D	16177D

VARIABLE ELBOW

Type Code C 16A124C D 16A124D





- , , , , , , , , , , , , , , , , , , ,	
С	16178C
D	16178D



TUBE CLAMP SLOPE FITTINGS



FOR SLOPES 30 - 45°

L/H SLOPING DOWN SIDE OUTLET TEE



Туре	Code
С	16A116LHC
D	16A116LHD

L/H SLOPING DOWN SIDE OUTLET ELBOW



Туре	Code
С	16A128LHC
D	16A128LHD

ANGLE BASE FLANGE

Туре	Code
С	16A151C
D	16A151D

SLOPING DOWN/UP CROSS

Туре	Code
Туре С	16219C
D	16219D

FOR SLOPES 30° & ABOVE

VARIABLE ELBOW 15 - 60° from horizontal



Туре	Code
В	16124B
С	16124C
D	16124D

R/H SLOPING DOWN SIDE OUTLET TEE



Туре	Code
С	16A116RHC
D	16A116RHD

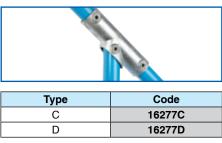
R/H SLOPING DOWN SIDE OUTLET ELBOW

Туре	Code
С	16A128RHC
D	16A128RHD

SLOPING DOWN TEE

Code
16204C
16204D

THREE SOCKET TEE



ADJUSTABLE SHORT TEE 30 - 60° slope

|--|

Туре	Code
В	16129B
С	16129C
D	16129D

ACUTE ANGLE ELBOW



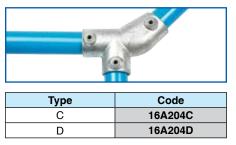
Туре	Code
С	16122C
D	16122D

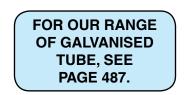
TWO SOCKET CROSS With adjustable centre 30 - 45°



Туре	Code
В	16130B
С	16130C
D	16130D

SLOPING UP TEE





ACUTE ANGLE ELBOW 40 - 70° slope



Туре	Code
С	16123C
D	16123D

FOR SLOPES GREATER THAN 30°, SEE PAGE 500.

304

316

Zamac

Zinc

Mild steel

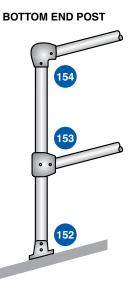
Duplex

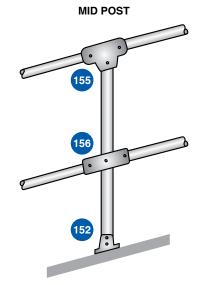


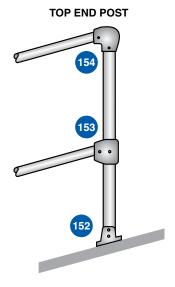
APPLICATION GUIDE

CONSTRUCTION OF AN IN-LINE GUARDRAIL - SLOPING

FOR SLOPES 0 - 11°

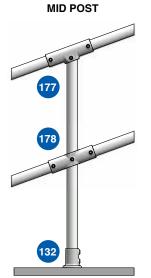






FOR SLOPES 11 - 30°









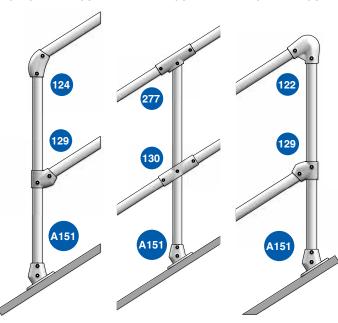
TOP END POST

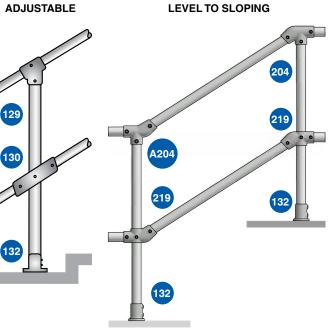
FOR SLOPES 30 - 45°

BOTTOM END POST

MID POST

TOP END POST

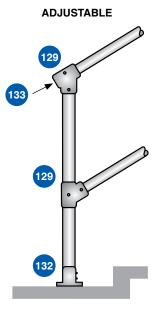


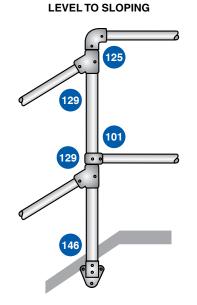


APPLICATION GUIDE

CONSTRUCTION OF AN IN-LINE GUARDRAIL - SLOPING

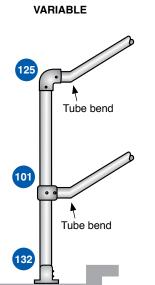
FOR SLOPES 30 - 60°

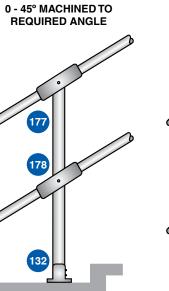


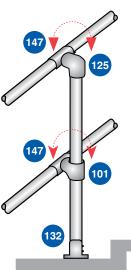




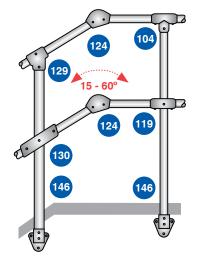
VARIABLE SLOPES





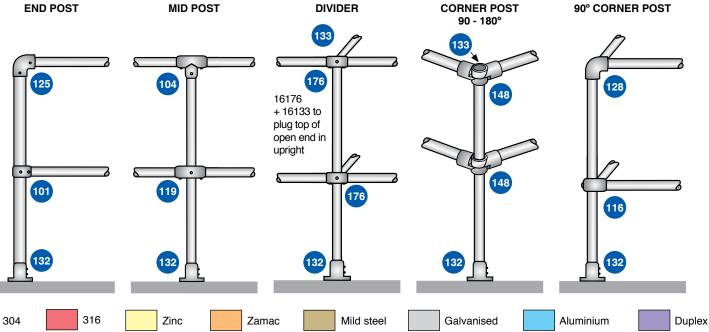


360° ROTATION



LEVEL TO SLOPING USING 124

CONSTRUCTION OF AN IN-LINE GUARDRAIL - LEVEL END POST 125





GLASS CLAMPS

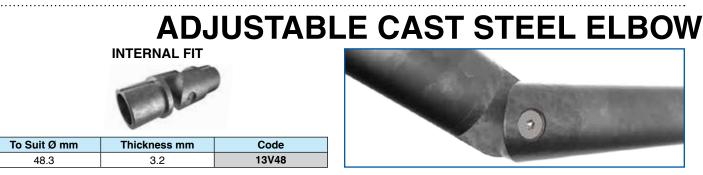




Suits 10mm glass/lug.

Suits 10mm glass/lug.

Exploded view.



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S III

СНЕСКОИТ

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- View purchase history
- Create quotes

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RSJ POST SYSTEM



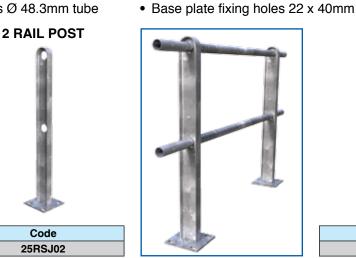


SPECIFICATION:

- Upright 50 x 100mm
- Galvanised
- Suits Ø 48.3mm tube

Code

25RSJ02





Overall height 1130mm

• Base plate 200 x 200mm

3 RAIL POST Code 25RSJ03



FOR OUR RANGE OF GALVANISED

TUBE, PLEASE SEE PAGE 487.

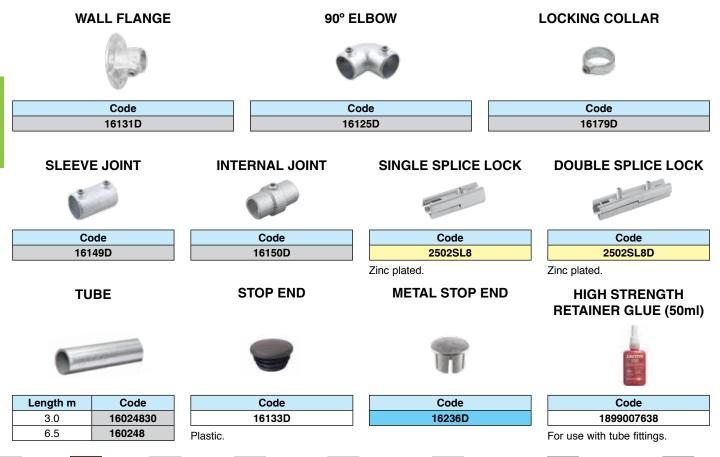


304

316

Zinc

Zamac



Mild steel

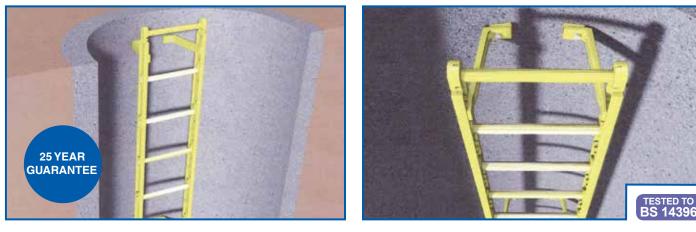
Galvanised

Aluminium



EASYLADDER KIT

FULLY MODULAR



Our grey modular ladder system is designed for potable and stormwater, whereas our yellow ladder system is for use in sewage or foulwater applications. Made from nylon PBT (Polybutylene terephthalate) with 35% glass filled makes this incredibly lightweight at approximately 4kg per linear metre when compared to steel alternatives, and our modular design allows you to minimise transportation costs and difficulties.

FEATURES:

- · Fully modular design
- · Easily transportable
- · Cost effective alternative to steel

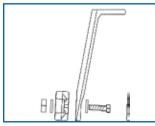
- Incredibly lightweight
 - Easy to install
- Suitable for round & rectangular chambers



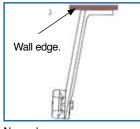
Colour	Code
Yellow	25P60Y
Black	25P60B
Grey	25P60G

Kit includes 2 x 600mm long stiles, 2 x rungs, 2 x wall brackets, 4 x locking wedges, 2 x stainless steel lock nuts, bolts and washers for fixing wall brackets to stiles. Nylon.

BIRDS EYE VIEW OF RIDGE STAY WITH WEDGE INSTRUCTIONS



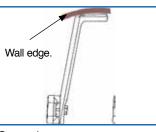
Attach stay to the ladder.



No wedge use: For rectangular cross section where the diameter is greater than 3m.

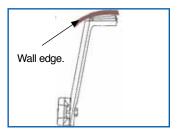


Image shows a constructed ladder kit.



One wedge use:

For rectangular cross section where the diameter is greater than 2m and less than 3m.



Two wedge use: For rectangular cross section where the diameter is less than 2m.

ORIGINAL LADDER KIT





The original ladder kit is of a safe, simple modular design offering individual parts which bolt together to form a complete ladder. This system tries to eliminate the need for expensive site surveys and the preparation of detailed drawings which add to delivery time. It is flexible, easy to install and will solve virtually any access problem. Available from 2 - 6m, ladders are supplied "flat-pack" for ease of transportation.







FULL LADDER KITS

Rise Size mm	Code
2000 - 2300	25AX2000
2400 - 2700	25AX2500
2800 - 3200	25AX3000
3300 - 3800	25AX3500
3900 - 4300	25AX4000
4400 - 5200	25AX4500
5300 - 6000	25AX5500

FOR EUROPEAN LADDER KIT, PLEASE SEE PAGES 506.



304

Zinc

316

Zamac

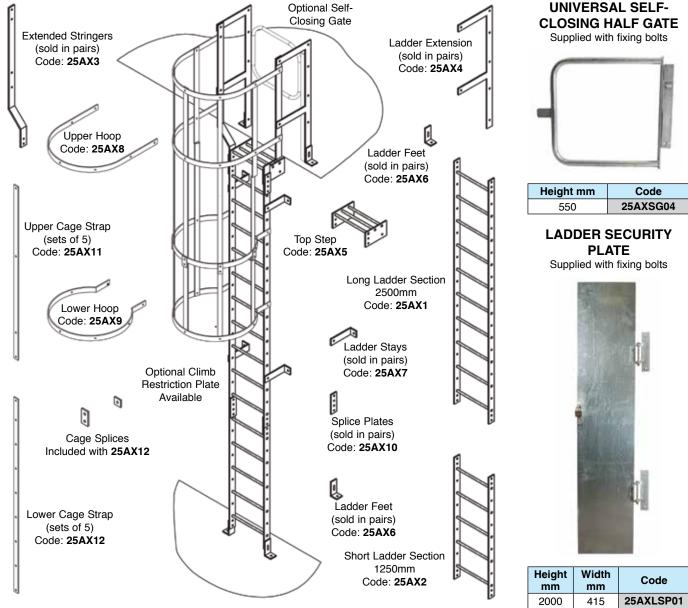
Galvanised

Duplex

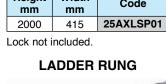


ORIGINAL LADDER KIT

LADDER RUNGS & SELF-CLOSING GATE AS AN OPTIONAL EXTRA



Component Description	Code
Long ladder section - 2500mm	25AX1
Short ladder section - 1250mm	25AX2
Extended stringers (sold in pairs) - includes four M12 x 35mm bolts	25AX3
Ladder extension (sold in pairs) - includes ladder feet and four M12 x 35mm bolts	25AX4
Top step - includes four M12 x 50mm bolts	25AX5
Ladder feet (sold in pairs) - includes four M12 x 35mm bolts	25AX6
Ladder stays (sold in pairs) - includes four M12 x 35mm bolts	25AX7
Upper hoop - Ø 700 x 750mm with holes - includes five M12 x 36mm bolts	25AX8
Lower hoop - Ø 700 x 750mm with holes - includes five M12 x 36mm bolts	25AX9
Splice plates (sold in pairs) - includes six M12 x 35mm bolts	25AX10
Upper cage strap (sets of 5)	25AX11
Lower cage strap (set of 5) - includes cage splices and ten M12 x 50mm bolts	25AX12





Length mm	H x W mm	Code
2100	30 x 30	25R01

UPPER HOOP Without holes



ØxLmm	Bar Size mm	Code
700 x 750	50 x 8	25GC11

5

LOWER HOOP

Without holes

Ø x L mm	Bar Size mm	Code
700 x 750	50 x 8	25GC12

505

LADDER WALL CLAMP



125 x 51mm back plate. 70 x Ø 11.7mm thread.

EUROPEAN LADDER KIT

ENHANCED SLIP RESISTANT RUNGS INCLUDED



Developed from the Original Ladder Kits, but with extra safety in mind. These European Kits have been designed with enhanced slip resistant ladder rungs, produced from punched ladder rung O2-30 / 30. This pattern has surface holes of Ø 9mm punched up and 5mm drainage holes affording both high slip resistance properties and excellent drainage. As with the original kits, these are available in 2 - 6m ladders and are supplied "flat-pack" for ease of transportation.

Components are generally compatible to BS EN ISO 14122-4:2004+A1:2010 (E). Ladder sections have been independently tested and they comply with the loading requirements and performance tests as detailed in BS EN 131-2:2010+A1:2012.

FULL LADDER KITS

Rise Size mm	Code
1825 - 2150	25EX2000
2200 - 2650	25EX2500
2700 - 3150	25EX3000
3200 - 3650	25EX3500
3700 - 4150	25EX4000
4200 - 4650	25EX4500
4700 - 5150	25EX5000
5200 - 5650	25EX5500
5700 - 6000	25EX6000

IT IS RECOMMENDED THAT OPERATIVES USING **VERTICAL LADDERS WEAR PROTECTIVE GLOVES.**

FULL HEIGHT SELF-CLOSING GATE CODE: 25AXSG05 CONFORMS WITH BS EN 14122-4.

Self-closing gate not supplied. Use code: 25AXSG05.

HANDRAILING



Zinc



IF YOU DON'T SEE WHAT YOU NEED PLEASE ASK OUR SALES TEAM.

Mild steel

Zamac

304

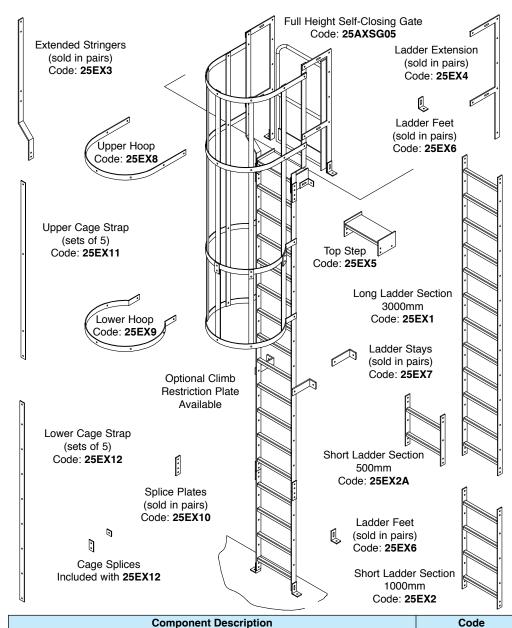
316

Galvanised

BRUNDLE

EUROPEAN LADDER KIT





CLOS	SING FL	L SELF- JLL GATE fixing bolts
Height	mm	Code
110	0	25AXSG05
	PLAT	ECURITY FE fixing bolts
Height	Width	
Height	Width	Code

2000	415
Lock not i	ncluded.

25EX1

25EX2

25EX3

25EX4

25EX5

25EX6

25EX7

25EX8

25EX9

25EX10 25EX11

25EX12

25EX2A

LADDER RUNG



Length mm	H x W mm	Code
2100	30 x 30	25R01

UPPER HOOP Without holes

Top step - includes four M12 x 50mm bolts

Long ladder section - 3000mm

Short ladder section - 1000mm

Extended stringers (sold in pairs) - includes four M12 x 35mm bolts

Ladder feet (sold in pairs) - includes four M12 x 35mm bolts

Splice plates (sold in pairs) - includes six M12 x 35mm bolts

Ladder stays (sold in pairs) - includes four M12 x 35mm bolts

Ladder extension (sold in pairs) - includes ladder feet and four M12 x 35mm bolts

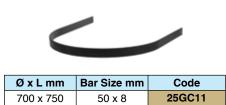
Upper hoop - Ø 700 x 750mm with holes - includes five M12 x 36mm bolts

Lower hoop - Ø 700 x 750mm with holes - includes five M12 x 36mm bolts

Lower cage strap (set of 5) - includes cage splices and ten M12 x 50mm bolts

Short ladder section - 500mm

Upper cage strap (sets of 5)





LOWER HOOP

Bar Size mm	Code
50 x 8	25GC12
ĺ	

1		Code:25E	
Ømm	Plate H x	W mm	Code
48.3	75 x 1	25	25SL109D

HANDRAILING

125 x 51mm back plate. 70 x Ø 11.7mm thread.

ROOF EDGE PROTECTION



NO FIXINGS REQUIRED



Roof Edge Protection is a system that requires no fixings or drilling and subsequently no repair to the roof membrane. It is suitable for flat or nearly flat roofs. The system operates on a counterbalance principle using curved PVC counterweights as the main component. A galvanised malleable iron foot supports the handrail post, this includes an integral toeplate facility which is a fundamental requirement if there is no perimeter edge upstand.

CURVED POST

100mm

Ømm

48.3

Code

16131D

Zamac

WALL FLANGE

Ømm

48.3

Zinc

Code

16RE00G40SS

Code

16149D

Galvanised

SLEEVE JOINT

Ømm

48.3

Mild steel

FEATURES:

- TUV Certificate no. Z1A 04 03 50796 001
- Satisfies the CEN harmonised European standard BS EN ISO 14122-3:2001
- Rapid installation
- 25kg maximum component weight
- No welding or bending required on site

UPRIGHT POST

• No special tools required

100mm

Ømm

48.3

Ømm

48.3

304

90° ELBOW

Code

16125D

316

· Bolt on toeplate facility to comply with HSG 33

Code 16RE00G40

• For use on asphalt, coated steel sheet or concrete mineral felt roofs. The system is effectively maintenance free with galvanised to BS EN ISO 1461 malleable iron fittings, PVC counterweights & galvanised tube



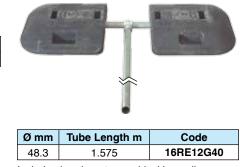
COUNTERWEIGHT



Ømm	Tube Length m	Code
48.3	1.075	16RE11G40SS
48.3	1.575	16RE11G40

Includes locking collar. Recycled PVC moulding.

RUN END COUNTERWEIGHT



Includes bar, long tee and locking collars. Recycled PVC moulding.

Aluminium

Duplex



FOLDSHIELD® SYSTEM

FREE STANDING ROOF EDGE PROTECTION



Foldshield[®] is the perfect solution for free standing edge protection when working on roofs. It can be easily folded, so it does not reduce the buildings aesthetics. Designed for use on slopes up to 10°, this folding system is suitable for use on asphalt, concrete, mineral felt or PVC sheet covered roofs and complies with the requirements of EN 13374.

FEATURES & BENEFITS

- · Galvanised
- Suits Ø 48.3mm tube
- Complies to EN 13374 & 14122
- Recycled PVC feet do not penetrate the roof membrane
- Folds down when not in use
- Does not spoil building aesthetics
- · System can be raised & lowered in sections





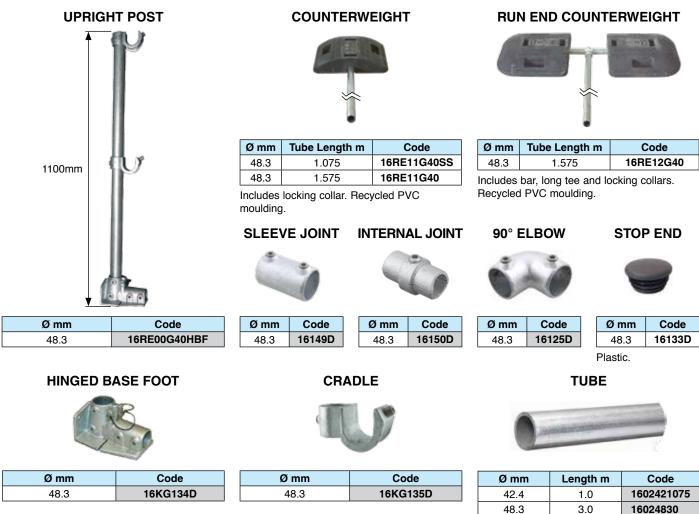
HANDRAILING

160248

6.5

The guard rail can easily be lifted into place when work is in progress and then quickly folded back down when finished. A simple locking pin is all that needs to be removed from the fitting to allow it to pivot.

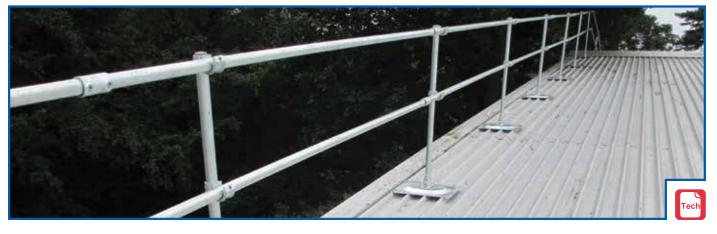
48.3



TOPFIX SYSTEM

ROOF EDGE PROTECTION FOR STANDING SEAM & METAL ROOFS

BRUNDLE



Topfix provides a roof edge protection solution for metal profile and standing seam roofs up to 45° pitch. The specially designed base plate, which incorporates multiple fixing centres, allows installation to a wide range of popular roofs. Base plates for standing seam roofs are fixed using non-penetrative 2-part clamps and metal profile roofs are fixed with minimal penetrations using rivets and butyl sealing strip to maintain the roof's integrity.

FEATURES & BENEFITS

316

Zinc

Zamac

304

- Galvanised
- Suits Ø 48.3mm tube
- Complies with the test requirements of BS EN 14122 Part 3 & EN 13374 Class A
- Fixing centres for standing seam roofs: 305, 400 & 500mm
- Fixing centres for trapezoidal profile roof panels: 310, 333, 400 & 500mm
- Easier specification means less site visits
- Non-penetrative solution for standing seam roofs
- Watertight fixings for metal profile roofs



Mild steel

Galvanised

Duplex

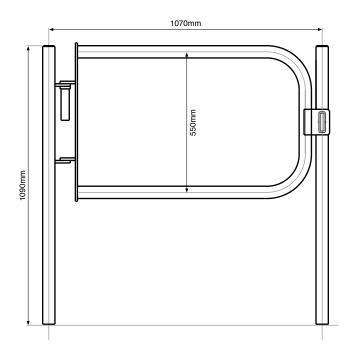
Aluminium



SELF-CLOSING FABRICATED GATES



SELF-CLOSING GATE



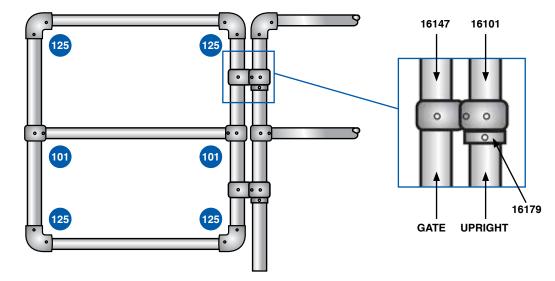
FOR USE WITH TUBE CLAMPS & ROOF EDGE PROTECTION SYSTEM.

- · Supplied with hinge, post and slam post
- Galvanised
- Height 1100mm when tube clamp fitted
- Lockable with padlock through Ø 15mm hole
- · Gate post centres 1070mm
- Not supplied with base fittings
- Image shows left hand opening inwards

FROM	
STOCK	

Ø mm	Left Hand	Right Hand
33.7	1603TCG1B	1603TCG2B
42.4	1603TCG1C	1603TCG2C
48.3	1603TCG1D	1603TCG2D

GATE CONSTRUCTION



HEAVY DUTY GATE HINGE

- Tighten the setscrew on the **16147** to the gate
- Tighten the setscrew on the **16101** to the **16147**
- Tighten the setscrew on the **16179** to the upright
- Leave the setscrew on the **16101** to the upright loose

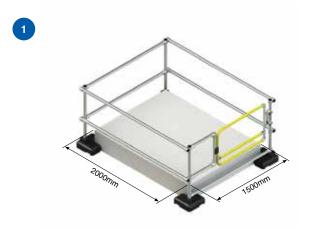
ROOF DOME MAXI

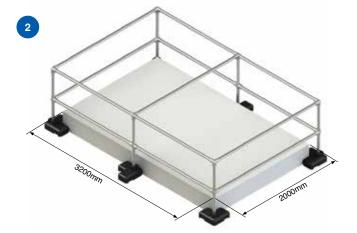


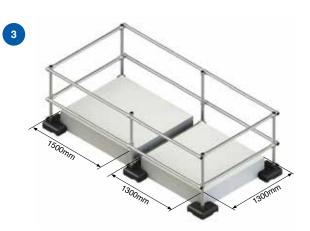
SKYLIGHT FALL PROTECTION



Roof Dome Maxi is a modular system designed specifically to prevent falls through skylights, roof hatches, and other roof openings. Sturdy recycled PVC bases lock the posts into position around the corners of a skylight then Tube Clamp fittings and tube are used to construct a rigid frame. Additionally, a gate can be incorporated for access to roof hatches.

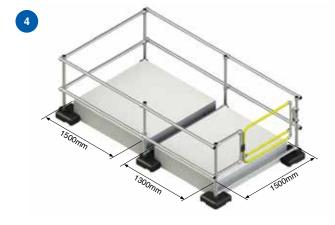






COMPLETELY FREE-STANDING & ELIMINATES THE RISK OF DAMAGE TO THE ROOF MEMBRANE.

Kit	L x W mm	Code
1	2000 x 1500	16KDH3
2	4000 x 2000	16KDK3
3	3200 x 1500	16KDH2
4	3200 x 1500	16KDH1



FEATURES

- · Modular system using standard components
- Made from Ø 48.3mm tube (size D)
- Galvanised to BS EN ISO 1461
- Complies with EN 14122 pt3
- Recycled PVC feet
- Suitable for use on all roof surfaces with a maximum pitch of 3°



FORTITUDE[™]

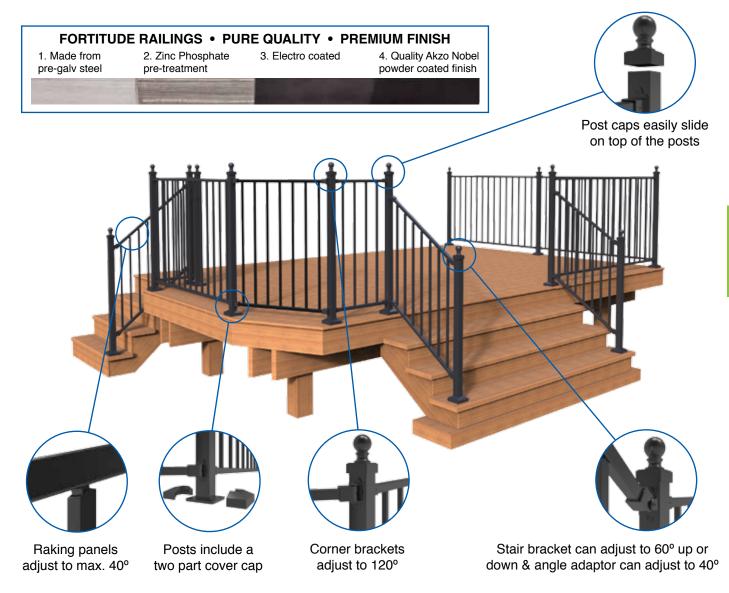
TRADITIONAL RAILING



Fortitude railings are one of the easiest to install, most versatile, off the shelf handrail solutions on the market today. The range consists of a series of railing panels and brackets that can suit many different requirements. The panels can be cut to size on site to suit different post centres. The Fortitude raking panel cleverly allows installation of railings on stairs and gradients, whilst concealing the pivot points of each spindle.

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

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.

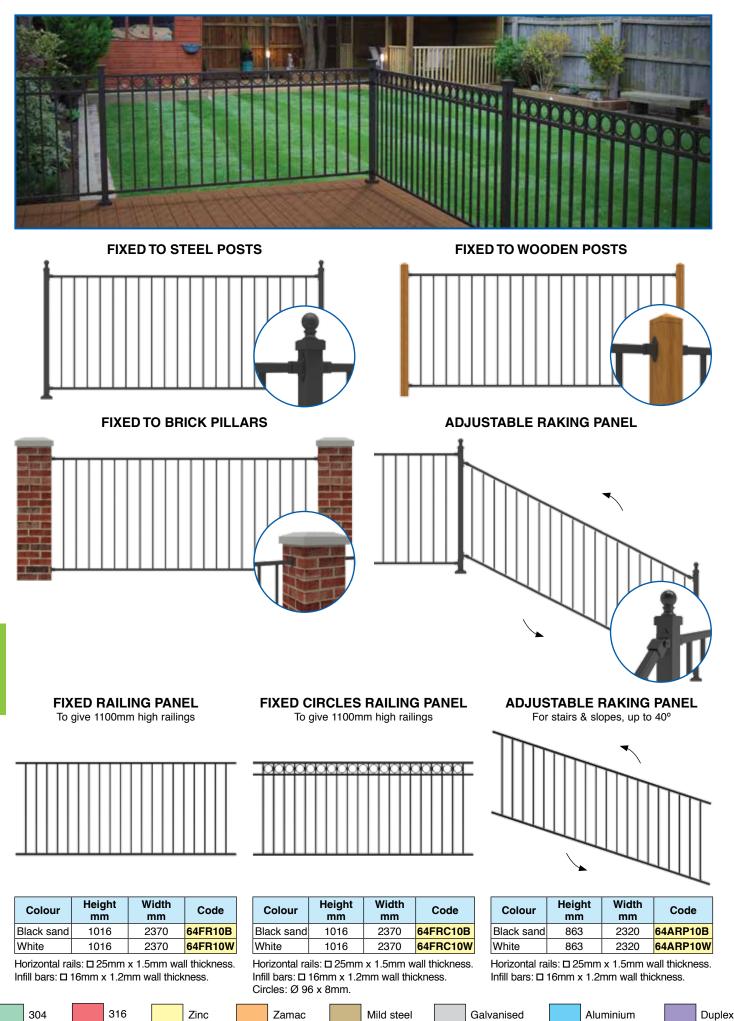


FORTITUDE™

TRADITIONAL RAILING

HANDRAILING

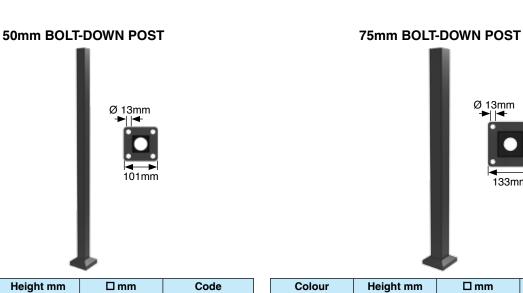




FORTITUDE[™]

TRADITIONAL RAILING

POSTS



Colour	Height mm	🗆 mm	Code
Black sand	1155	50	64PB5011B
White	1155	50	64PB5011W
Supplied with base cover plate & protective cap. 2.3mm nominal thickness.			

Black sand	1155	75	64PB7511B
White	1155	75	64PB7511W
Supplied with base cover plate & protective cap. 2.3mm nominal thickness.			

FOR BRACKETS SEE PAGE 516.

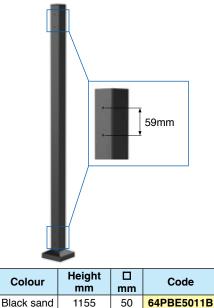
PRE-DRILLED POSTS

Code



- Ø 5mm pre-drilled holes for ease of use
- · For use with fixed panels
- · Gives 1100mm high handrail on flat surfaces

BOLT-DOWN END POST



64PBE7511B Black sand 1155 75 2.3mm nominal thickness.

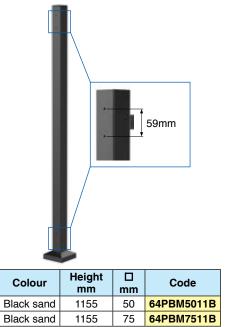


Image shows application of a pre-drilled corner post with superior universal bracket.

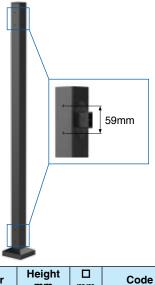
- · For use with Superior Horizontal Angle Bracket or Superior Universal Bracket
- · Supplied with base, cover plate & protective cap

BOLT-DOWN MID POST

BOLT-DOWN CORNER POST



2.3mm nominal thickness.



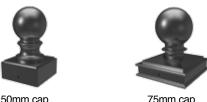
Colour	mm	mm	Code
Black sand	1155	50	64PBC5011B
Black sand	1155	75	64PBC7511B

FORTITUDE[™]



TRADITIONAL RAILING

BALL POST CAP



50mm cap

oonin oup.		· on in oup
Colour	To Suit □mm	Code
Black sand	50	64CB50B
White	50	64CB50W
Black sand	75	64CB75B
White	75	64CB75W

CHOICE UNIVERSAL BRACKET

For use with fixed & raking panels

PRESSED POST CAP



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

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



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

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

SUPERIOR HORIZONTAL ANGLE BRACKET

For use with fixed panels, 60° left & right

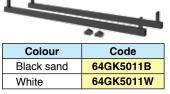


Colour	To Suit □ mm	Code
Black sand	25	64SCB25B
White	25	64SCB25W

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

RAILING GATE KIT

To be used with a cut to size railing panel



^{□ 38}mm tube to create gate frame.



304

316

Zinc



Zamac

Colour	Code
Black sand	64CAA25B
White	64CAA25W

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

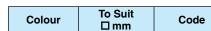
SUPERIOR UNIVERSAL BRACKET

For use with fixed panels



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

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



Black sand 25 64CR25B 25 64CR25W White

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

UNIVERSAL BRACKET TEMPLATE

To ensure quick & easy positioning of brackets



ACCESSORIES

Mild steel

Description	Code
Black sand 125ml touch up kit with brush	29PC125TBS
White RAL 9016 125ml touch up kit with brush	29PC125TW
Black sand 400ml touch up spray paint	29PC400SBS
White RAL 9016 400ml touch up spray paint	29PC400SW

PYRAMID POST CAP



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

SUPERIOR STAIR BRACKET

For use with raking panel, 60° up & down



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

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

CAP RAIL CLIP

For wooden handrail



Galvanised	

Aluminium

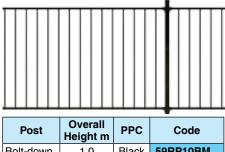


SIMPLICITY RAILINGS



Aluminium railings are quick and simple to install with no welding required. This system is polyester powder coated gloss black RAL 9005 and also gloss white RAL 9010, which makes it ideal for indoor and outdoor use. Railings are not designed for use on balconies or where the fall is greater than 600mm.

PRICE PER METRE RUN



Post	Height m	PPC	Code
Bolt-down	1.0	Black	59RP10BM
Bolt-down	1.0	White	59RP10WM
Concrete-in	1.2	Black	59RP11CBM
Bolt-down	1.2	Black	59RP11BM

Supplied with posts, caps, brackets and fixings. Please order an extra post to finish the run.

CONCRETE-IN POST

Height

mm

1600

mm

50

Code

59PC12B





Overall Height m		Height mm	Width mm	Code
1.0	Black	900	2400	59RP10B
1.0	White	900	2400	59RP10W
1.2	Black	1100	2400	59RP12B

25 x 38 x 2.5mm horizontal rails.

Ø 16 x 1.2mm infill bars.

Overall

Height m

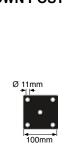
1.0

1.0

1.2

2.5mm thickness

BOLT-DOWN POST



mm

50

50

50

Code

59PB105B

59PB105W

59PB125B

 $38 \ x \ 25 \ x \ 1.5 \text{mm}$ frame. Ø 16 x 1.2 mm infill bars. Please order hinges and latches below.

Height Width

mm

962

962

962

mm

900

900

1100

Code

59SLG10B

59SLG10W

59SLG12B

Overall

Height m

1.0

1.0

1.2

PPC

Black

White

Black

GATE

RAILING BRACKET Pack of 4



PPC	To suit 🗖 mm	Code	
Black 25 x 38 59BR3825B			
White 25 x 38 59BR3825W			
pplied as a pack of 4, with 12 x self-drilling			

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



PPC	🗆 mm	Code
Black	50	59PT50B
White	50	59PT50W
Hammer fit.		

Overall

Height m

1.2

ACCESSORIES

PPC

Black

Product	Code
Magnetic latch. Supplied with fixings. Polymer	Non-lockable: 09FA27. Lockable: 09FA28.
Hinge. Supplied in pairs. Please order 8 x 59SC519B. Polymer	09FA30
Lockable drop bar. Supplied with fixings	09FA29
Self-drilling screw. M5 x 19mm long. Dacromet coated	Black gloss: 59SC519B. White gloss: 59SC519W

Height

mm

1050

1050

1250

PPC

Black

White

Black







Marano® railings are a range 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:

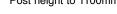
- · Fully assembled posts
- Aluminium & satin anodised finish
- To suit 10mm glass
- Suitable for indoor & outdoor installations
- · Quick, safe & easy installation

• Glass panel is H 930 x W 1174mm

SQUARE POSTS WITH HANDRAIL Railing height 1125mm

- · 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

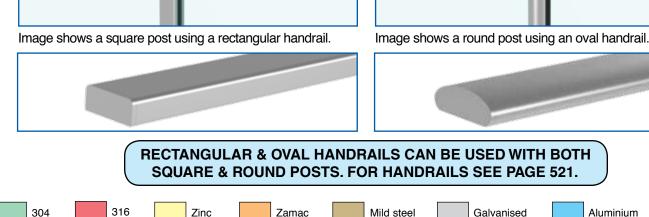
SQUARE POSTS WITHOUT HANDRAIL Post height to 1100mm





- Glass panel is H 1005 x W 1174mm
- You will need to buy blanking caps or notched post caps to suit design.





304

Zinc

Zamac

Mild steel

Galvanised

Aluminium

Duplex

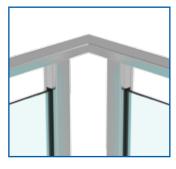


SQUARE



HOW TO TACKLE CORNERS

MITRED CUT NO POST



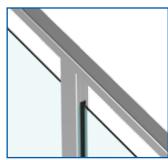
MITRED CUT WITH POST



HOW TO TACKLE GRADIENTS

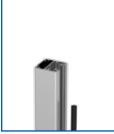
MITRED CUT HANDRAIL

MITRED CUT POST

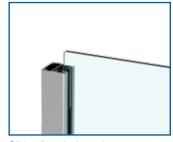


FITTING GLASS

Fitting glass is easy with our 4 step guide.



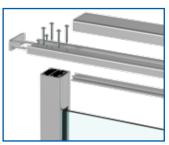
Fit back rubber to the post.



Slide glass in from the top between posts.



Fit glass retaining rubber, top packer & infill.

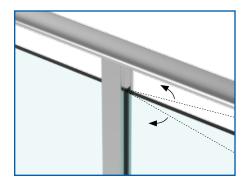


Fit the handrail (using the location jig, see page, 521). Slide on the handrail under-cap and top handrail.

HANDRAILI

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

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 OUR RANGE OF GLASS, SEE PAGE 617.

INSTALLATION GUIDE & VIDEO ARE AVAILABLE AT

www.fhbrundle.co.uk

SQUARE





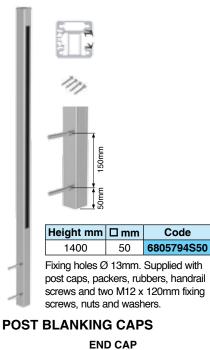
BOLT-DOWN END

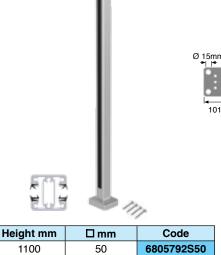


ſ	Height mm	🗆 mm	Code		
	1100	50	6805791S50		
Supplied with post caps, packers, rubbers,			S	51	

handrail screws and cover plate.

SIDE-FIX END

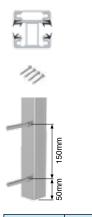




BOLT-DOWN MID

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

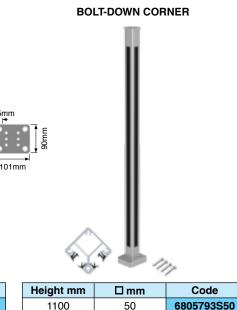
SIDE-FIX MID



Height mm	🗆 mm	Code
1400	50	6805795S50

Fixing holes Ø 13mm. Supplied with post caps, packers, rubbers, handrail screws and two M12 x 120mm fixing screws, nuts and washers.

MID CAP



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

CLEAR FLOAT TOUGHENED GLASS PANEL For use with no handrail



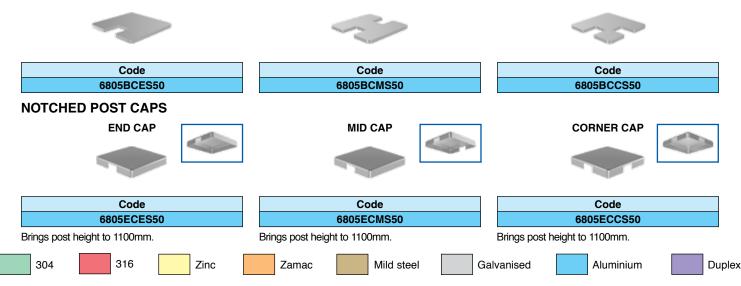
Height mm	Width mm	Code
1010	1174	18551010101174

CLEAR FLOAT TOUGHENED GLASS PANEL For use with Marano top rails



Height mm	Height mm Width mm Code	
930	1174	1855109301174

CORNER CAP





Code

680570537227

68057057227

SQUARE

HANDRAILS

Plastic.

HANDRAIL FITTINGS END CAP

For use with rectangular handrail

Code

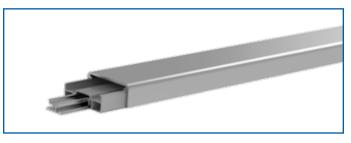
68054136225

C 2 2 3

Supplied with two screws.

RECTANGULAR HANDRAIL

OVAL HANDRAIL



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

6899732J

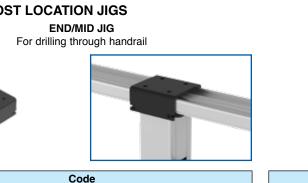
IN-LINE CONNECTOR

For use with rectangular & oval handrails

Code

6805412I

HANDRAIL/POST LOCATION JIGS



WALL BRACKET

For use with rectangular handrail

Code

68054156225

Li

Supplied with four screws.

CORNER JIG For drilling through handrail

Code

6899733J

 \bigcirc mm

72 x 27

72 x 27



Length m

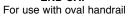
3.0

5.8



Plastic.

END CAP



Code

68054137227



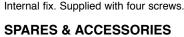
WALL BRACKET

HANDRAILING

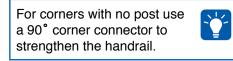


Code 6805411I

Internal fix. Supplied with four screws.



Product	Code
Base plate. For use with bolt-down posts	680520750
Cover plate. For use with bolt-down base plate	680520850
Blanking strip. For use with side-fix mid posts. 1.4m long	68BS1400
Rubber gasket set H 1100mm	68RG1100
Rubber gasket set H 6000mm	68RG6000
Packers. For use with posts. Pack of 10. Plastic	68PP01
Eraser for cleaning marks and scratches on anodising	6899AE01
Assembly tool. For rubber sealing strips	6899RR01

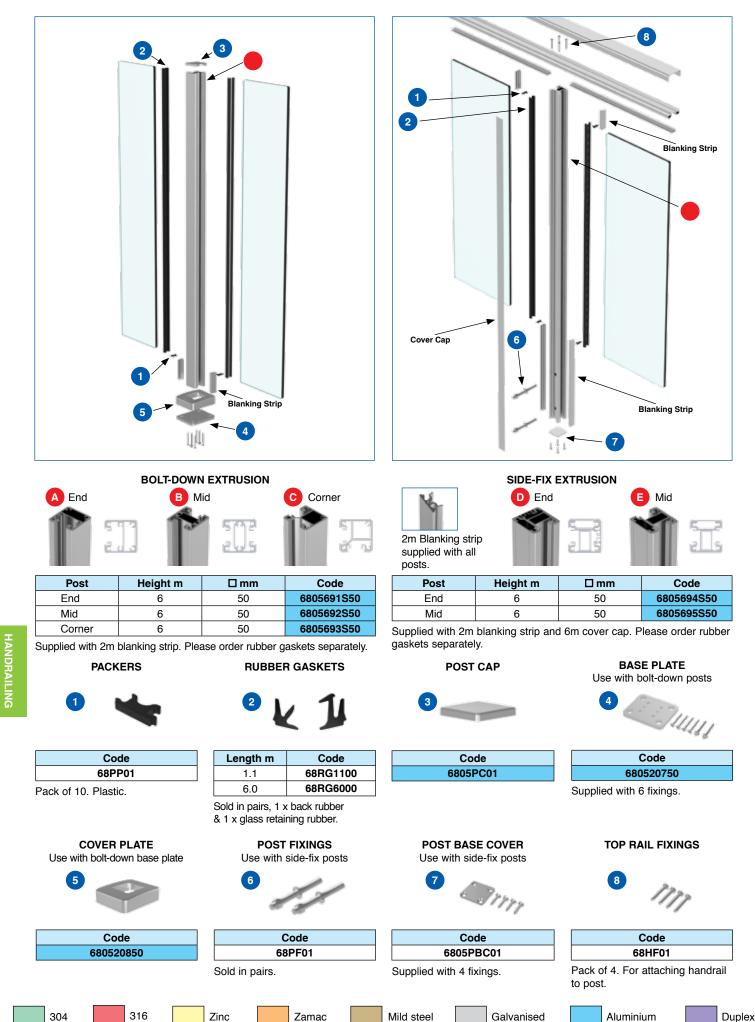


IF NO HANDRAIL IS REQUIRED, 1100mm RUBBERS WILL NEED TO BE ORDERED.

MARANO® MAKE YOUR OWN POSTS



SQUARE

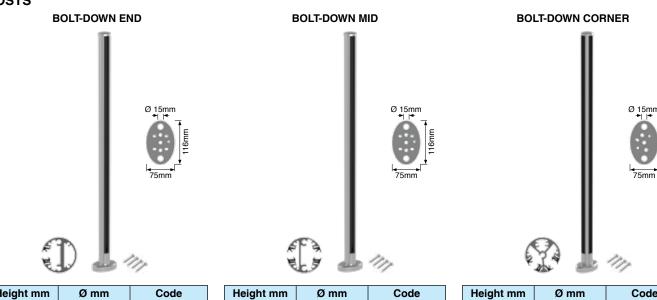




ROUND





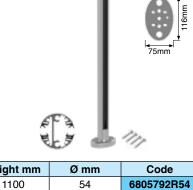


Height mm	Ømm	Code		
1100	54	6805791R54		
Supplied with post caps, packers, rubbers,				

handrail screws and cover plate.

HANDRAILS

RECTANGULAR HANDRAIL



Height mm	Ø mm	Code		
1100	6805793R54			
Supplied with post caps, packers, rubbers, handrail screws and cover plate.				

75mm

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

OVAL HANDRAIL



680520854 To suit Ø 54mm round post.

Plastic.

6899732J54

523

Plastic.

6899733J54

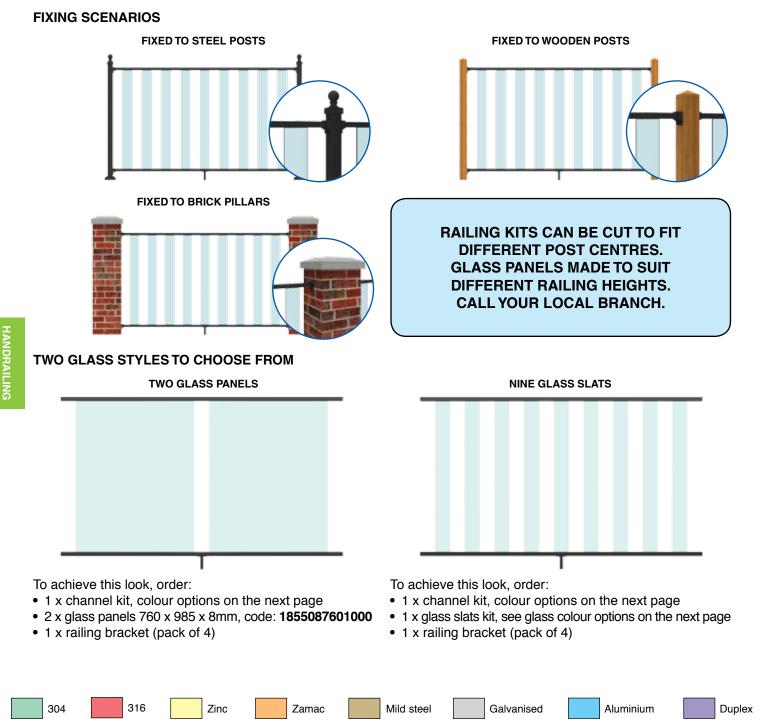


CONTEMPORARY





Marano[®] Contemporary railings offer style and sophistication without compromising the views. With its simple slide technology, the channel is quick and easy to install. Choose from 3 polyester powder coated channel colours: black gloss RAL 9005, black sand and white gloss RAL 9016, these are also available in a mill/raw finish. A choice of two glass sizes: 2 x 760mm glass panels or 9 x 95mm glass slats.





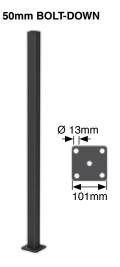
CONTEMPORARY



Finish/PPC	Length m	Height mm	Width mm	Code
Mill/raw	1.8	25	38	59AC3818R
black gloss	1.8	25	38	59AC3818BG
black sand	1.8	25	38	59AC3818BS
white gloss	1.8	25	38	59AC3818W

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.

FLUTED POSTS



Ø 13mm ►

133mm

Code

59PBF7511BS

59PBF7511W

75mm BOLT-DOWN

PPC	Code	
Black sand	59PBF5011BS	
White gloss	59PBF5011W	

1155mm height. 3mm thickness. Supplied with no post cap.

BALL CAP



To suit 50mm posts. To suit 75mm posts

To Suit □mm	Code
50	64CB50B
50	64CB50W
75	64CB75B
75	64CB75W
	□ mm 50 50 75

1155mm height. 3mm thickness.			
Supplied with no post cap.			
PRESSED CAP			

PPC

Black sand

White gloss

11



PPC	To Suit □mm	Code
Black sand	50	64CD50B
White gloss	50	64CD50W
Black sand	75	64CD75B
White gloss	75	64CD75W

PPC	To Suit □mm	Code
Black sand	50	64CP50B
White gloss	50	64CP50W
Black sand	75	64CP75B
White gloss	75	64CP75W

525

1345mm height. 3mm thickness.

PYRAMID CAP

Supplied with no post cap.

Black sand

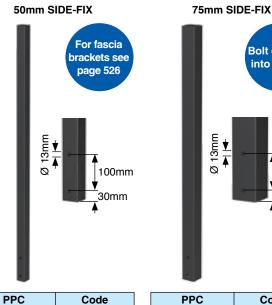
White gloss

GLASS SLATS KIT For use with Channel Kit



Glass	Height m	Width mm	Thickness mm	Code
Clear	1.0	95	8	59GP188C
Grey tinted	1.0	95	8	59GP188T

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



59PSF5013BS

59PSF5013W

Bolt directly into fascia. Ø 13mm ¥ 4 100mm

PPC	Code	
Black sand	59PSF7513BS	
	FODOF7540W	

White gloss 59PSF7513W 1345mm height. 3mm thickness.

Supplied with no post cap.

RAILING BRACKET Pack of 4



Finish/PPC		Code
Mill/raw	25 x 38	59BR3825R
Black gloss	25 x 38	59BR3825B
Black sand	25 x 38	59BR3825BS
White gloss	25 x 38	59BR3825W

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



CONTEMPORARY





INSIDE CORNER BRACKET

FASCIA MOUNT BRACKETS FOR 50mm SIDE-FIX POSTS



•

Finish/PPC	To Suit 🗆 mm	Code
Mill/raw	50	59FMM50R
Black gloss	50	59FMM50B
Black sand	50	59FMM50BS
White gloss	50	59FMM50W

Ø 10.5mm fixing holes. Supplied with $4 \times M5$ self-drilling screw to secure post in place.

SPARES & ACCESSORIES

SUPPORT FOOT



Finish/PPC	Code
Mill/Raw	59SFR
Black Gloss	59SFBG
Black Sand	59SFBS
White Gloss	59SFW

Supplied with 1 x M4 wood screw and 2 x M6 self-tapping screws.

316



Ø 10.5mm fixing holes. Supplied with 4 x M5 self-drilling screw to secure post in place.

WEDGES

Code

59W01B

Zamac

Length mm

94

Black plastic.

Zinc

OUTSIDE CORNER BRACKET





Finish/PPC	To Suit 🗆 mm	Code
Mill/raw	50	59FMOC50R
Black gloss	50	59FMOC50B
Black sand	50	59FMOC50BS
White gloss	50	59FMOC50W

 \varnothing 10.5mm fixing holes. Supplied with 4 x M5 self-drilling screw to secure post in place.

self-unling screw to secure pos

GASKET

Code

59G02B

59G01B

Length mm

96

761

Black PVC plastic.

SELF-DRILLING SCREW



Finish PPC	Ømm	Code	
Black Gloss	M5	59SC519B	
White Gloss	M5	59SC519W	

Length 19mm. Self-drilling. Dacromet coated.

FOR OUR COMPLETE RANGE OF COMPOSITE DECK BOARDS SEE PAGE 441.

Mild steel



MARANO®

HORIZON



Our new cost effective range of anodised aluminium handrail fittings and tube, offers the installer a simple, modular system that simply glues and screws together. The end result is a stunning, low maintenance, lightweight, durable handrail solution. The system comprises of a top rail made from Ø 50mm tube in three exquisite finishes, with a Ø 42mm post that is designed to provide maximum strength.



THESE TUBES ARE ONLY COMPATIBLE WITH HORIZON STAINLESS STEEL TUBE FITTINGS. **IN-LINE CONNECTOR END CAP** HANDRAIL BRACKET Ømm Code Ømm Code Ømm Code 7605305F50 50 760520650 50 760521550 50 Please order pack of screws Image shows application of code: 5004CS4232 x 2 to fix to handrail bracket code: handrail. 7605305F50. WALL BRACKET ADJUSTABLE ELBOW 90° ELBOW **30° ADJUSTABLE WALL** BRACKET Code Code Code Code Ømm Ømm Ømm Ømm 760522750 760520250 760522950 760520950 50 50 50 50 Please order pack of screws Please order pack of screws code: 5004CS4232 x 2 if fixing to code: 5004CS4232 x 2 if fixing to steel/aluminium posts. steel/aluminium posts.

FOR OUR FULL RANGE OF TOP RAIL SYSTEMS SEE PAGE 559.



HORIZON

SQUARE GLASS CLAMP Round back



To suit tube Ø mm	Glass mm	Code
42.4	10	760540250

Supplied with rubbers to suit. Please order pack of screws code: 5004CS4232 x 2 to fix to post.

POST



Length m	Ømm	Code		
1.005	42.4	7605708C*		
5.800 42.4 7605708C58				
*Gives overall beight of 1100mm bandrail when				

əıgı using a base plate, handrail saddle and Ø 50mm tube.

90° FIXED CORNER

IN-LINE CONNECTOR Round back



To suit tube Ø mm	Glass mm	Code
42.4	10	7605SS403C

Supplied with rubbers to suit. Please order pack of screws code: 5004CS4232 x 2 to fix to post.

FIXED HANDRAIL SADDLE

Please order pack of screws code: 5004CS4232

Code 760531050

Ømm

50

x 2 to fix to handrail.

IN-LINE CONNECTOR

Round back



To suit tube Ø mm	Glass mm	Code
42.4	10	7605SD403C

Supplied with rubbers to suit. Please order pack of screws code: 5004CS4232 x 2 to fix to post.

ADJUSTABLE HANDRAIL SADDLE



Ømm	Code
50	760531250
Please order pack of screws code: 5004CS4232	

x 2 to fix to handrail.



x 2 if fixing to aluminium posts.

Zamac

Please order pack of screws code: 5004CS4232 x 2 if fixing to aluminium posts.

316

Zinc

Mild steel

Galvanised

tube holder code: 7605509C.



FASCIA BRACKET

MARANO®

ACCESSORIES

HORIZON

Height mm Ømm Description Code Ømm Code Height mm Code 1899007638 100 760521350 760521950 42.4 150 42.4 Glue 50ml 5004CS4232 Screws **DRILLING JIG** Drilling jig is used to secure post when drilling Length m Code fixing holes. To suit screws code: 5004CS4232. 7699DJ01 1 Not supplied with drill.

FASCIA BRACKET

rinato[™] deck boards

without compromise



www.fhbrundle.co.uk