

Industrial Balltube Handrail Systems



Rimark

Australia Pty Ltd

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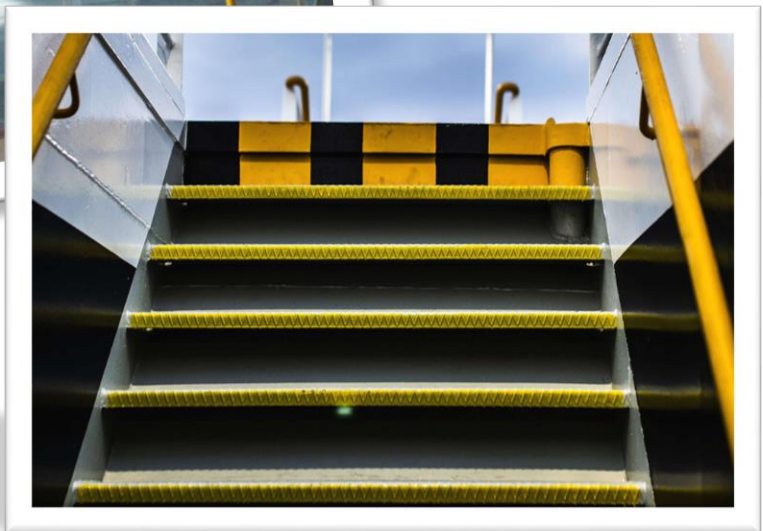
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Balltube Handrail Systems

Introduction

Rimark main manufacturing plant is in Melbourne and can be custom fabricated to suit unique customer requirements which is locally available. Rimark unique design allows the system to be installed and completed quickly, ensuring smooth installation with minimal on-site welding, saving considerable time and labour costs. This brochure is designed to assist the Architect, Draughts person, Engineer, Fabricator, and Specifier in the correct selection of our steel handrail systems. Rimark Handrail Systems are designed and manufactured to the requirements of Australian Standard AS1657.

“Balltube handrail systems are not only smoother, but also looks better and has a good finish”



Specifications

Standard Stanchions	40NB Pipe (48.3mm OD x 3.2mm wall thickness).
Heavy Duty Stanchions	40NB Pipe (48.3mm OD x 4.0mm wall thickness).
Stanchion Pitching	Australian Standard AS1657 recommends a maximum of 2 meters pitching
Stanchion Handing	Point of view when facing the inside of the stanchion, those on the right-hand side are suffixed 'R', those on the left-hand side are suffixed 'L'.
Rails	Top rail (Handrail) of 32 NB (42.4mm OD) and a mid-rail (Kneerail) of 25 NB (33.7mm OD).
Kickplate Mounting Brackets	Manufactured from 40mm x 5mm Equal angle. 80mm long. The slot in the bracket allows for 7mm vertical adjustment of the kickplate.
Kickplates	Standard kickplate is 100mm x 6mm flat, but other sizes also available.
Base Plates	Typical base plates are 75mm x 150mm x 10mm with 17.5mm diameter holes at 102mm centres. BAA base plates are 75mm x 172mm x 10mm with 17.5mm diameter holes at 126mm centres.
Finish	Standard finish is hot dip galvanized to AS 4680. Untreated finish available on request.
Customize Parts	Deviations from standard sizes of stanchions and fittings can be manufactured to individual requirements.

Special Notes

- θ Denotes the Angle Drillings and angle drilled stanchions can be made to order with any angle designated between 1° - 45°
- 0° – 20° Ramps required kickplate
- Materials

	Handrail	Kneerail
Steel	32NB	25NB

- Maximum Stanchion Spacing

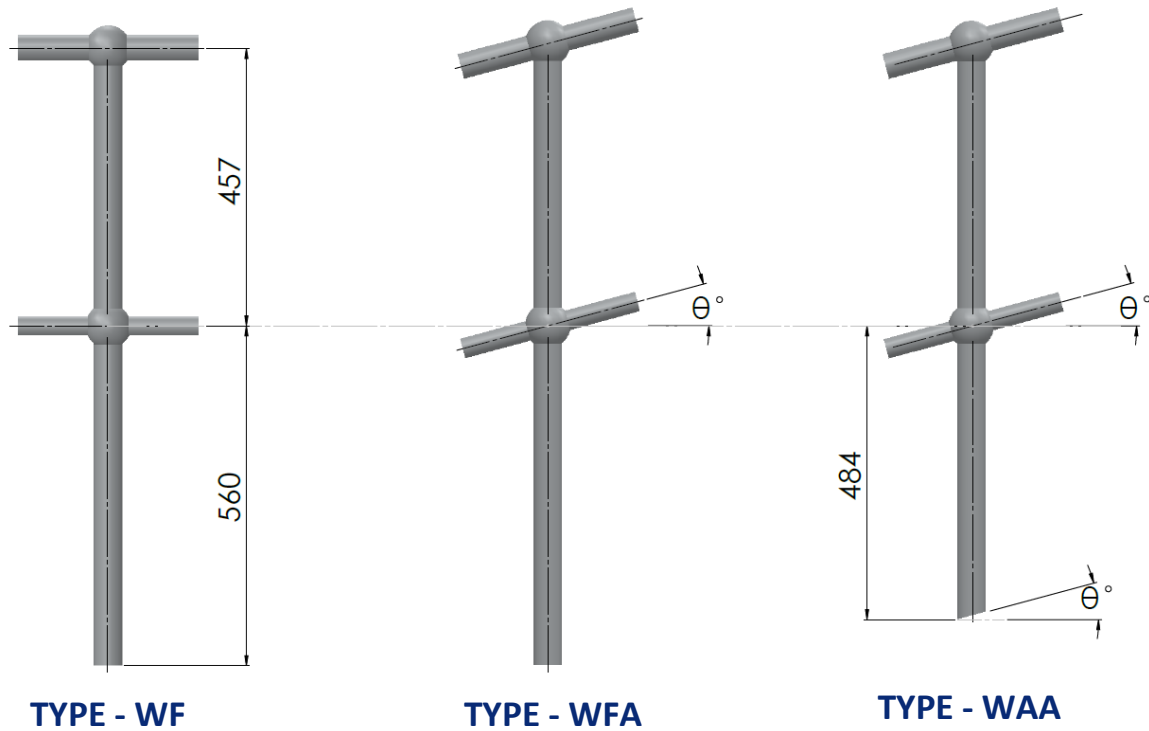
Steel	2000mm
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- For complete system stanchion spacing dimensions, stanchion type, for stairways the stair angle must be nominated

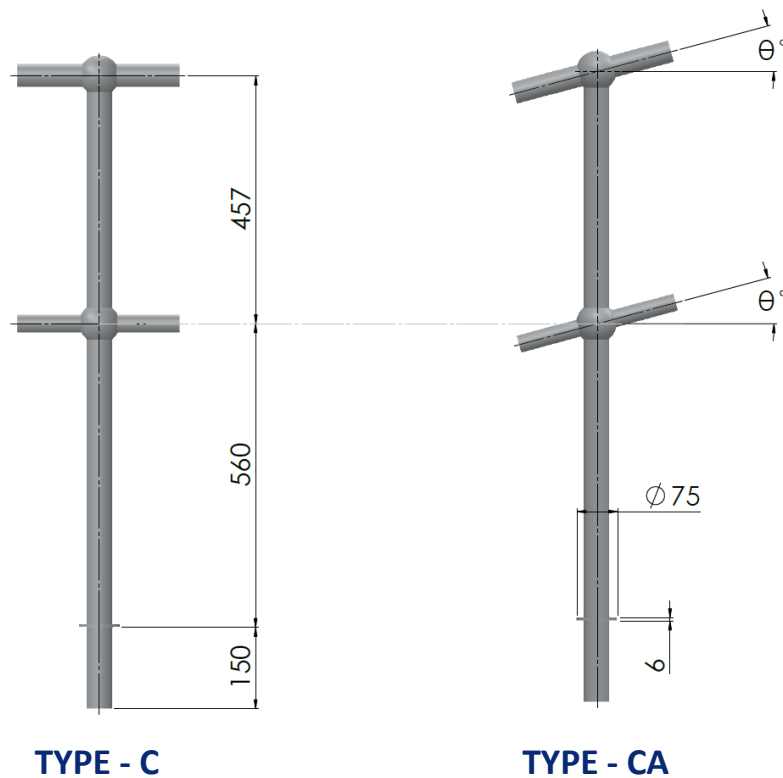


Component Dimensions

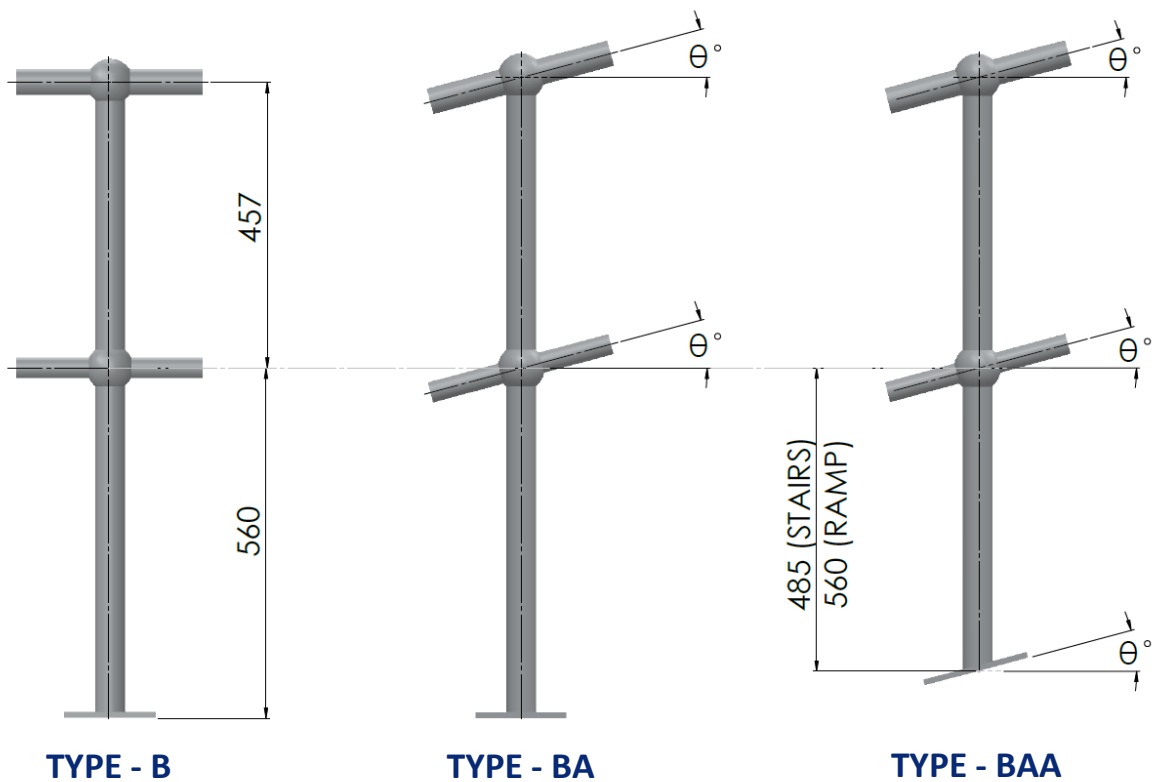
Welded Stanchions



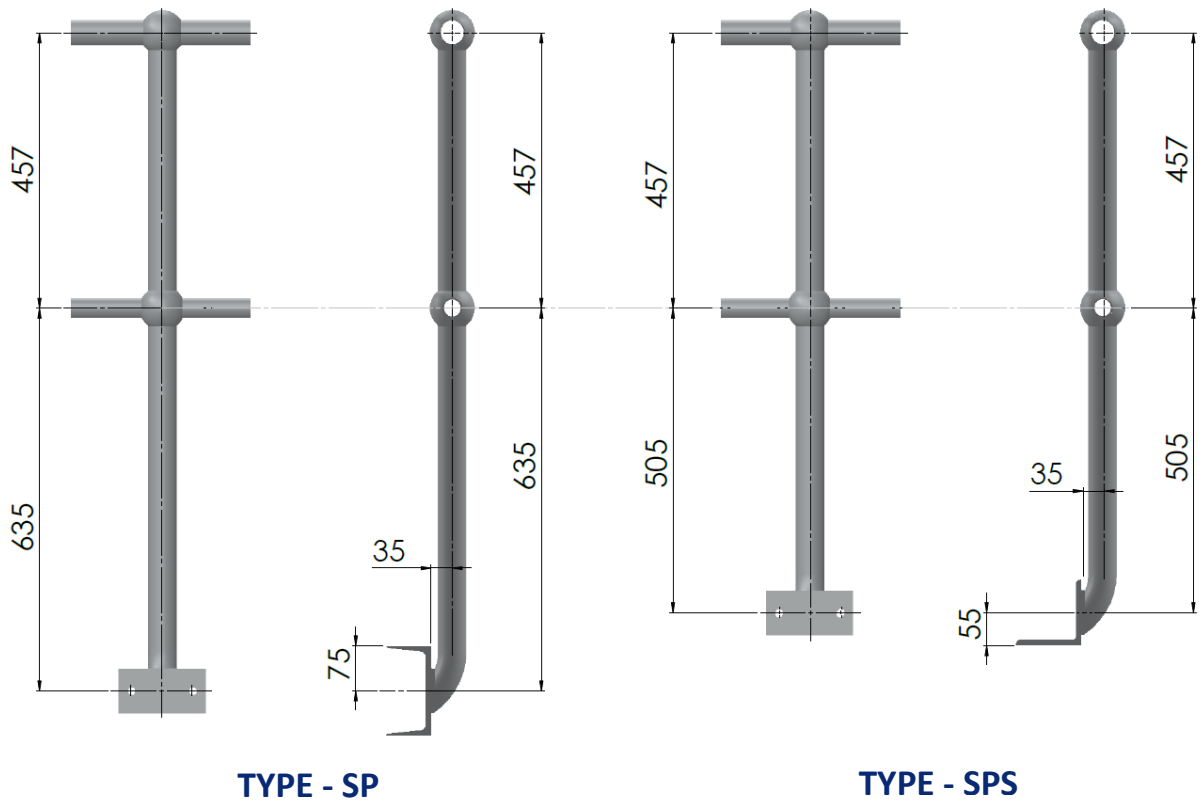
Stanchions with Collar

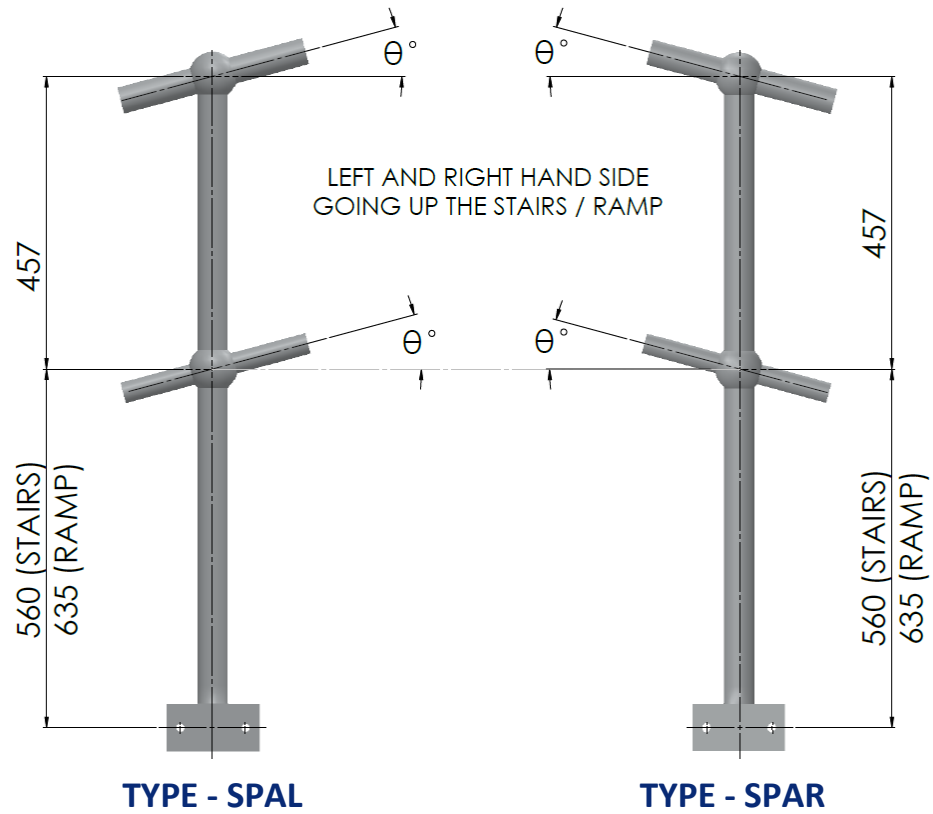


Stanchions with Base Plate

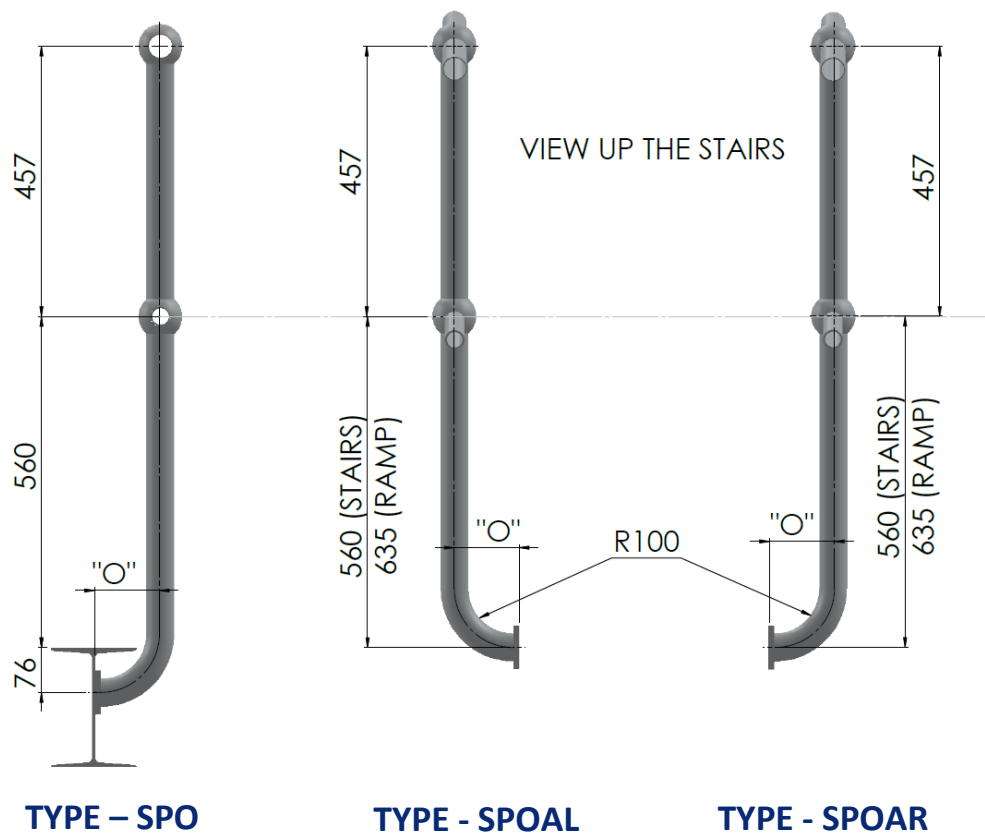


Side Mounted Stanchions



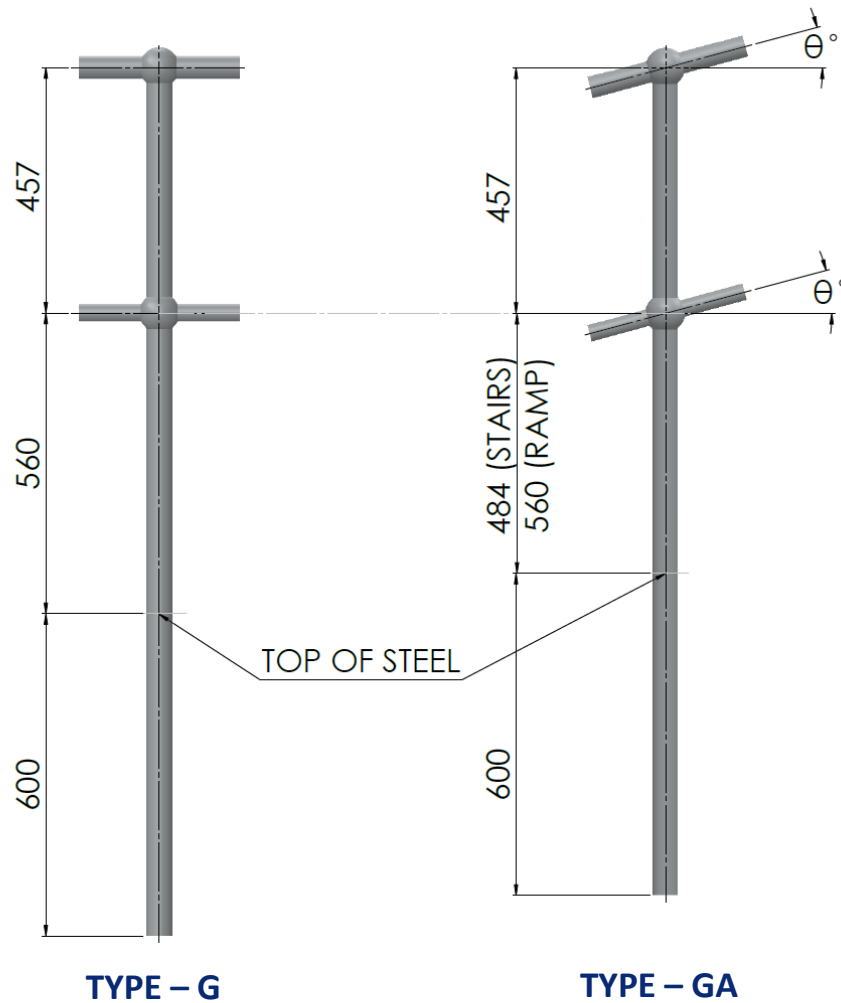


Side Mounted Offset Stanchions

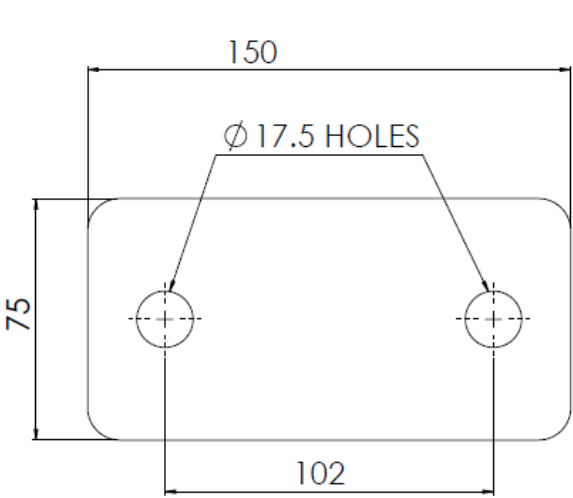


"O" – OFFSET VALUE			
CHANNELS		UNIVERSAL BEAMS	
SIZE	OFFSET	SECTION	OFFSET
150 X 75	110	200UB	110
180 X 75	110	250UB	110
200 X 75	110	310UB	130
230 X 75	110	360UB	130
250 X 90	130	410UB	130
300 X 90	130	460UB	130
380 X 100	130	530UB	140

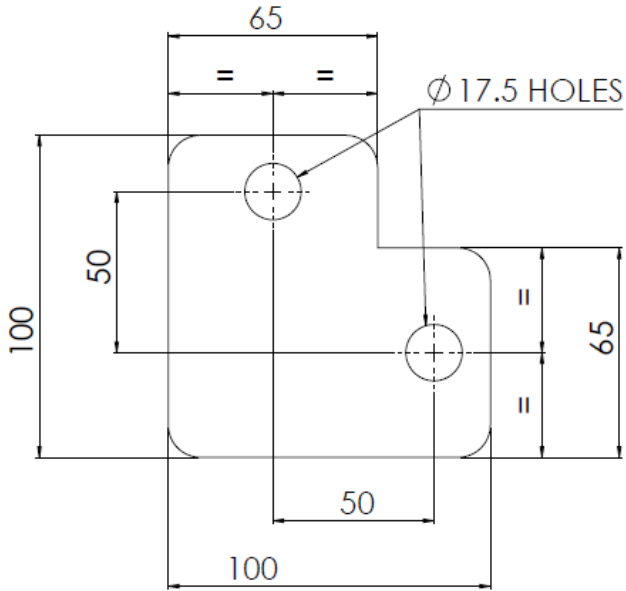
Ground Stanchions



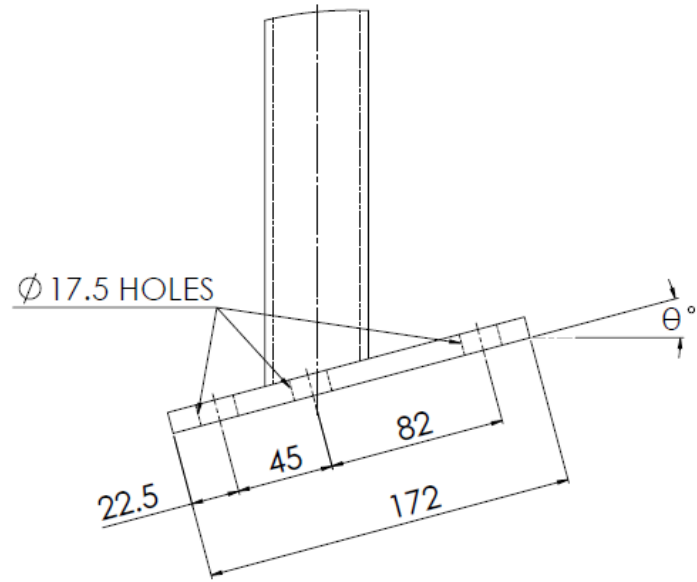
Standard Base Plate



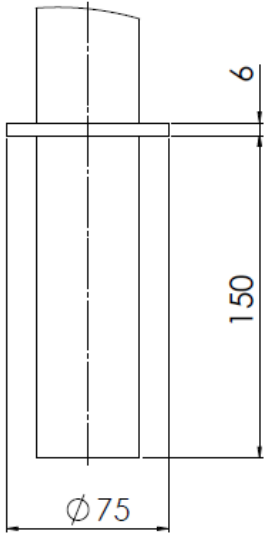
**TYPICAL BASE PLATE
(EXCEPT TYPE BAA)**



**CORNER POST
(TYPE B ONLY)**



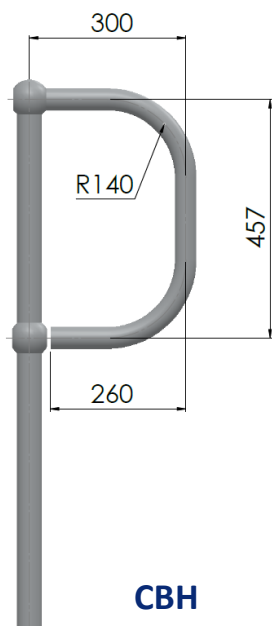
BASE OF BAA



TYPE C

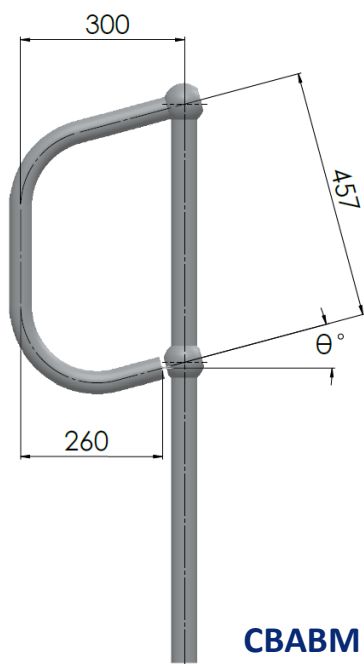
Closures, Bends & Slip Joints

Closure Bends - Horizontal (CBH)

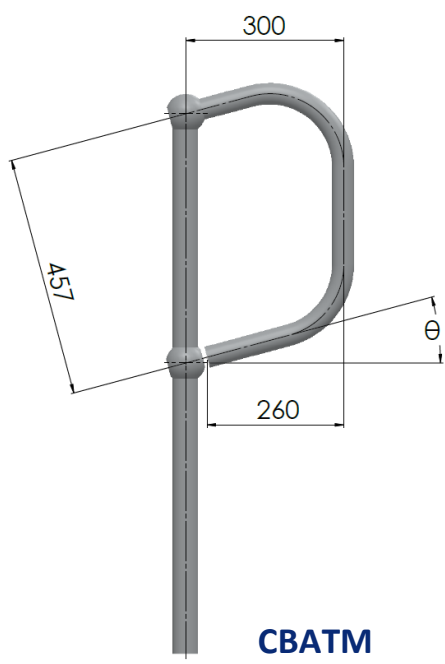


CBH

Closure Bends - Angle Top Mount (CBATM) & Bottom Mount (CBABM)



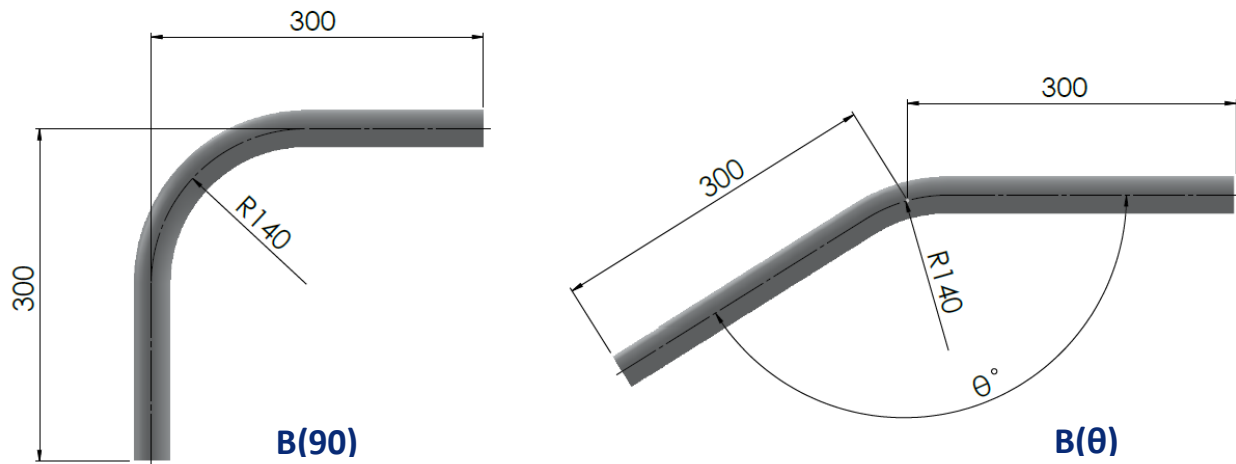
CBABM



CBATM

- Standard Radius 140mm at centre line
- Available θ value from 1° - 45°

Bends (B)



- Available θ value from 90° - 180°
- Standard length is 300mm X 300mm, special lengths also available.

Rail Joiner (Slip Joints)

Rail joiners are used when joining the hand or knee rail to another pipe. The rail joiner can be fixed by welding or using pins.

Rail Joiner	Rail Size
JFNB20S	20NB Rail
JFNB25S	25NB Rail
JFNB32S	32NB Rail
JFNB40S	40NB Rail

Installation Details

- **Stanchion basic fixing**
Loosely bolt stanchions to structure.
- **Rail Fixing**
Feed hand and knee rails through ball joints. Use slip joints for rail joints and ensure the join is inside the ball unit where possible.
- **Stanchion fixing**
Tighten nuts and bolts on stanchions
- **Welding**
Run approximately 25mm weld on side or top where ball units join hand and knee rails. Bends and corners need to be fully welded.
- **Finish**
Ground and primed with zinc rich paint.

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