

SAFE FLOORING SOLUTIONS

# HANDRAIL



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## Locker Safety Rail

### Tubular Ball Handrail System

Locker Group's tubular ball handrail system is a safe, strong simple barrier solution. The complete system lends itself to be quickly and economically erected in either a workshop or on site.

Manufactured in accordance with AS1657 and used extensively throughout the mining, petro-chemical, mineral processing and heavy industries, the system is equally suited in commercial, local government and general applications.

Locker Group handrail is available in component form. eg. stanchions, bends, pipe and kickplate or can be supplied in fully fabricated panels for even quicker site installation.

### Benefits

- Sold in components for installation on site
- Supplied fabricated into panels
- Economical
- Quick to install
- Light weight

### Styles

- **Standard** – Two rail (handrail and knee rail)
- **Multi-Rail** – Three to six rails. Manufactured to order.
- **Balustrade** – Top and bottom rail complete with 12mm diameter rod at 100mm centres.  
Made to order. (refer page 5)

### Materials

- **Mild Steel** – Most common, available in 3.2mm (medium duty) or 4.0mm (heavy duty) wall.
- **Aluminium** – for areas where corrosion is a factor, such as water treatment plants and coastal environments

### Finishes

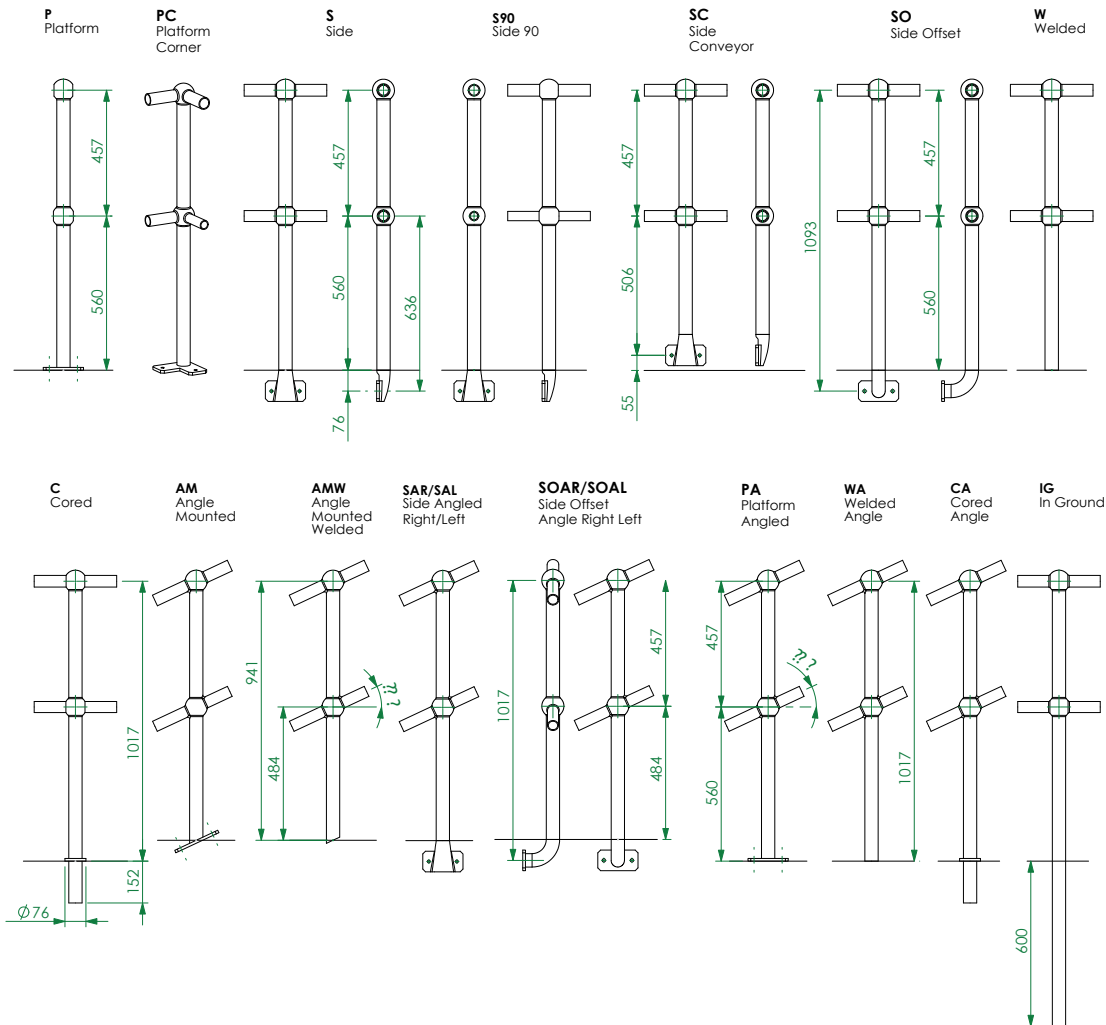
- **Mill finish/Black** – no coating.
- **Galvanised** – Hot dipped galvanised to Australian Standard AS/NZS 4680
- **Painted** – Wet or Dry (powder) coated to your specification and colour



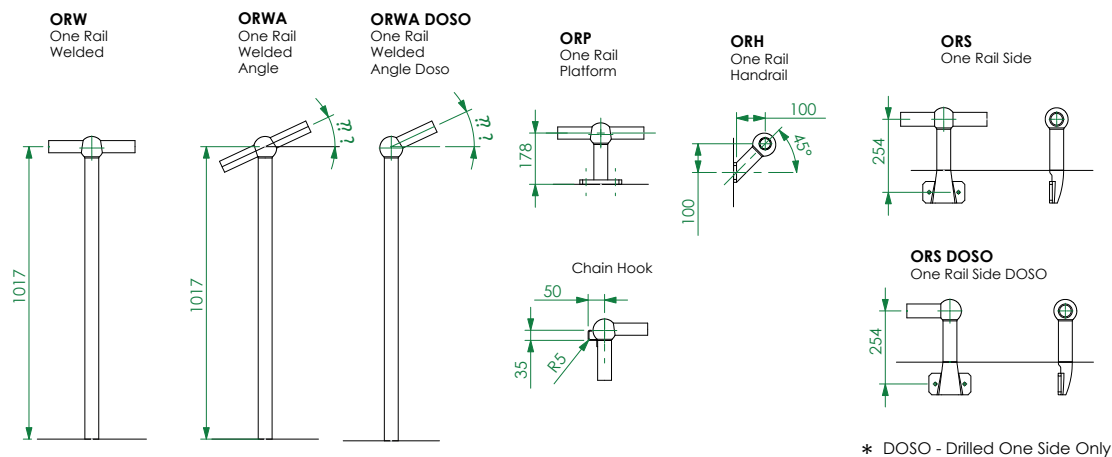
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Platform and Balustrade Systems

## Standard Stanchions



## One Rail Stanchions



\* DOSO - Drilled One Side Only

## SAFE FLOORING SOLUTIONS

### Product Weights

Type	Product Code	Description	Med Duty MS Galv	Heavy Duty MS Galv	Alum	UOM
<b>Stanchions</b>	P	Stanchion Type P	4.8 kg	5.25 kg	2.05 kg	ea
	PA	Stanchion Type PA	4.8 kg	5.25 kg	2.05 kg	ea
	C	Stanchion Type C	4.9 kg	5.35 kg	2.08 kg	ea
	CA	Stanchion Type CA	4.9 kg	5.35 kg	2.08 kg	ea
	W	Stanchion Type W	3.9 kg	4.45 kg	1.67 kg	ea
	WA	Stanchion Type WA	3.9 kg	4.45 kg	1.67 kg	ea
	AMW	Stanchion Type AMW	3.9 kg	4.45 kg	1.68 kg	ea
	S	Stanchion Type S	5.05 kg	5.65 kg	2.2 kg	ea
	SC	Stanchion Type SC	4.9 kg	5.45 kg	2.1 kg	ea
	SO	Stanchion Type SO	5.4 kg	5.9 kg	2.5 kg	ea
	SAL	Stanchion Type SAL	4.9 kg	5.45 kg	2.1 kg	ea
	SAR	Stanchion Type SAR	4.9 kg	5.45 kg	2.1 kg	ea
	SOAL	Stanchion Type SOAL	5.35 kg	5.65 kg	2.3 kg	ea
	SOAR	Stanchion Type SOAR	5.35 kg	5.65 kg	2.3 kg	ea
	AM	Stanchion Type AM	4.5 kg	5.05 kg	1.68 kg	ea
	ORP	Stanchion Type ORP	1.7 kg	1.95 kg	0.7 kg	ea
<b>Bends</b>	ORS	Stanchion Type ORS	2 kg	2.35 kg	0.88 kg	ea
	ORH	Stanchion Type ORH	1.5 kg	1.65 kg	0.59 kg	ea
	RB32	Rail Bend 32NB	1.73 kg	2.28 kg		ea
	RB25	Rail Bend 25NB	1.34 kg	1.76 kg		ea
	RB46	Rail Bend 46OD			0.8 kg	ea
	RB38	Rail Bend 38OD			0.6 kg	ea
<b>Pipe</b>	CBA	Closure Bends Angled	2.79 kg	3.42 kg	1.2 kg	ea
	CBH	Closure Bends Horizontal	2.82 kg	3.76 kg	1.2 kg	ea
	P32	Pipe 32NB	3.1 kg	3.8 kg		mt
	P25	Pipe 25NB	2.41 kg	2.94 kg		mt
<b>Kickplate</b>	P46	Pipe 46 OD			1.3 kg	mt
	P38	Pipe 38 OD			0.97 kg	mt
	K1006	Kickplate 100x6	5.32 kg		1.6 kg	mt

### Specifications

#### Stanchions

##### Medium Duty (Standard)

- 48.3 OD – 40mm NB
- 3.2mm Gauge
- 76mm OD Ball

##### Aluminium

- 50mm OD
- 42mm ID
- 76mm OD Ball

##### Heavy Duty

- 48.3 OD – 40mm NB
- 4.0mm Gauge
- 76mm OD Ball

Stanchions are drilled to suit rail (below).  
Custom drilling available on request.

#### Rails

##### Standard Handrail

- 32mm NB
- 42.4mm OD
- 3.2mm Gauge

##### Standard Kneerail

- 25mm NB
- 33.7mm OD
- 3.2mm Gauge

##### Heavy Duty Handrail

- 32mm NB
- 42.4mm OD
- 4.0mm Gauge

##### Heavy Duty Kneerail

- 25mm NB
- 33.7mm OD
- 4.0mm Gauge

##### Aluminium Handrail

- 46mm OD
- 39mm ID

##### Aluminium Kneerail

- 38.1mm OD
- 34.1mm ID

##### Kick Plate Mounting Brackets:

40 mm x 85 mm x 5 mm

##### Base Plates:

**Standard:** 75 mm x 146mm x 10mm

**Angle Mounted:** 65mm x 172mm x 10mm

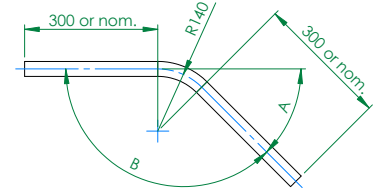
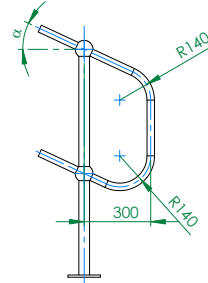
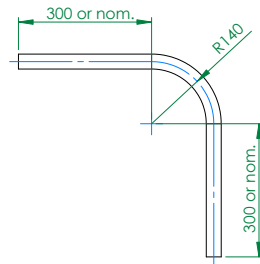
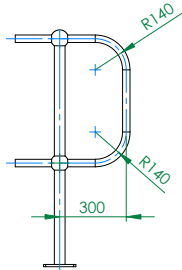
**Corner:** 150mm x 150mm x 10mm  
(88mm hole centres)



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## Bends



### Horizontal Closure Bends:

Horizontal closure bends have a wall thickness of 3.2 mm. A standard 90° closure bend has a 140mm radius. Bends have 300 / 260 mm legs at 457mm centres.

### Standard & Non Standard 90° Bends

A standard 90° bend has a 140mm radius with 300mm legs. A non-standard 90° bend has a 140mm radius with nominated leg lengths to enable ease of erection.

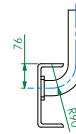
### Angle Closure Bends

Angle closure bends have 140mm radius bends, with 300 / 200 mm legs at 457mm centres. Angle closure bends are made to order to the nominated angle, between 1° and 45°.

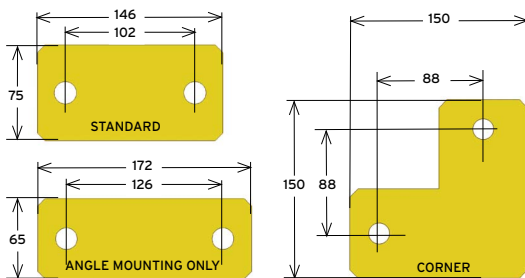
### Standard & Non-Standard Bends

Special angles are made to suit customer's requirements. Always specify angles as shown, either A or B. \*Please note: Locker Group product codes denote the 'A' angle.

- Standard length and angle bends in stock
- Non standard length and specific angle bends made to order



## Base Plates

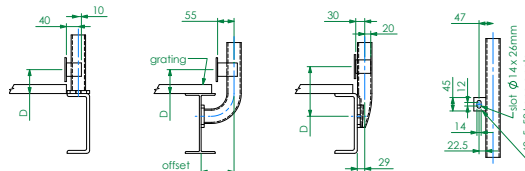
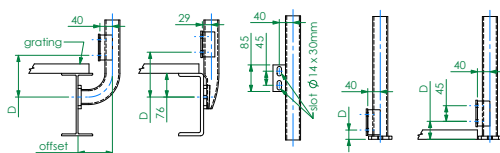


ALL BASE PLATES 10mm MATERIAL  
NB: ALL BASE PLATES HAVE PRE-DRILLED DRAIN HOLES.

## Offsets

CHANNELS		UNIVERSAL BEAMS	
SIZE	OFFSET	SIZE	OFFSET
150 x 75	110 mm	200 UB	110 mm
180 x 75	110 mm	250 UB	110 mm
200 x 75	110 mm	310 UB	110 mm
230 x 75	110 mm	360 UB	115 mm
250 x 90	115 mm	410 UB	125 mm
300 x 125	115 mm	460 UB	125 mm
380 x 100	125 mm	530 UB	135 mm

## Kick Plate



### Kickplate Mounting Bracket – Option 1

Dimension 'D' for various stanchion types

Grating Height (mm)	Nil	20, 25, 32	40, 45, 50	60, 65
P, W, C	D=40	D=65	D=80	D=100
S & SO	D=115	D=140	D=160	D=175

### Kickplate Mounting Bracket – Option 2

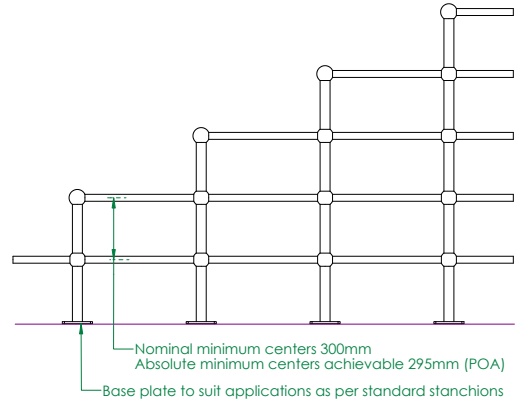
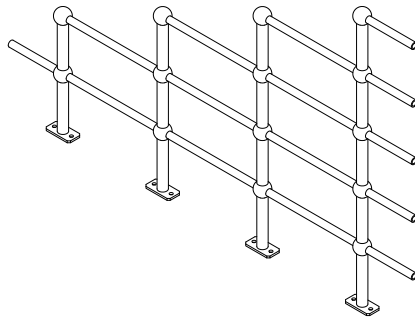
Dimension 'D' for various stanchion types

Grating Height (mm)	Nil	20, 25, 32	40, 45, 50	60, 65
P, W, C	D=60	D=85	D=100	D=120
S & SO	D=135	D=160	D=180	D=195

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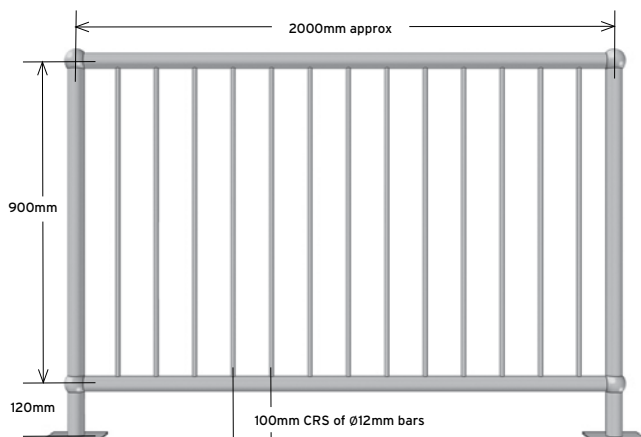
### Multi Rail Applications

- Multi ball stanchions are available.
- Made to order for any application/specification.
- Please note minimum ball centres of 295mm.



### Balustrade

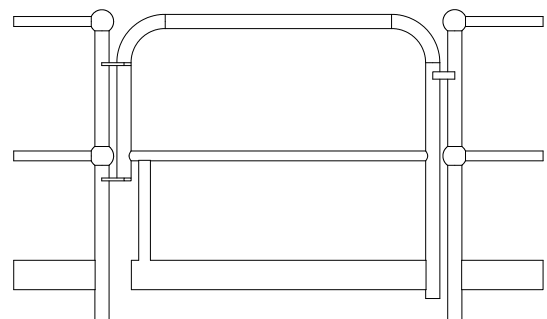
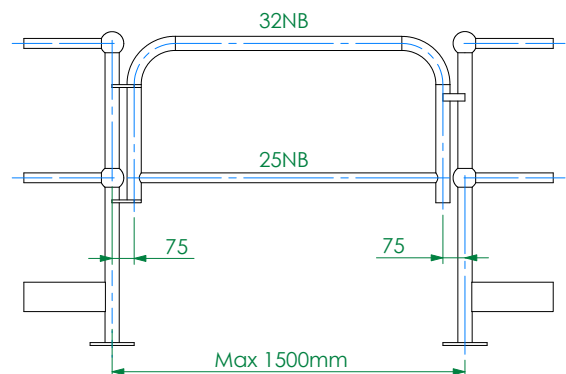
- Compliant with the building codes of Australia (BCA2010) & New Zealand.
- The 12mm vertical bars at 100mm centres are designed to prevent children from climbing or falling through the panel.
- Fabricated to exact project specifications.



### Self Closing Gates

#### Gate types

- HGATE – single gate no kickplate
- HGATEKP – single gate with kickplate
- HGATED – double gate (up to 3000mm stanchion centre)

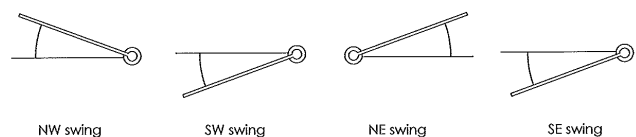


### Self Closing Gates

**When ordering a self closing gate the following information is required.**

- Gate type
- Swing direction
- Stanchion type
- Stanchion centres
- Plan view of gate in-situ showing rail direction

Eg. HGATE SE swing Type P at 1200mm (stanchion centres)





## Panelisation

Locker Group handrail can be supplied in panels, manufactured to suit your exact requirements.

### Benefits

- Fast and efficient onsite installation
- Reduced site labour costs
- Professional finish

### Weld Options

- Fully welded and galvanised after fabrication
- Tack welded and galvanised after fabrication
- Galvanised components, tack welded and cold galvald after fabrication

### Finish options

- Galvanised
- Galvanised and painted\*\* (wet or dry)
- Untreated (black)
- Untreated and painted\*\* (wet or dry)

\*\* Painted to your specification



## Installation tips

### Stanchion Centres

- Steel - 2000mm recommend maximum centres for standard 32 mm medium duty stanchions
- Aluminium - 1800mm recommend maximum centres (Side offset stanchions should be spaced at no greater than 1200mm centres)

### Welding

- Steel – one 20mm tack weld to each side of the underside of ball
- Aluminium – full circumferential weld to each side of ball

### Slip Joints

- Steel – supplied galvanised complete with tapered pins, (hole size for taper pins should be 5mm)
- Aluminium – supplied stainless steel locking screw or pop rivets

### General Tips

- Join rails whenever possible inside balls to hide joints
- Bolt the first stanchion rigidly in place first
- **Do not** bolt the other stanchions rigidly in position and attempt to feed pipe through stanchions.
- Start stair and sloping runs at the bottom and work up.
- Closure bends are designed so that the top rail is to join inside the top ball and the lower leg of the bend stops on the outside of the knee rail ball with the knee rail sliding inside the bend.

