

# KARISMA HANDRAIL SYSTEM

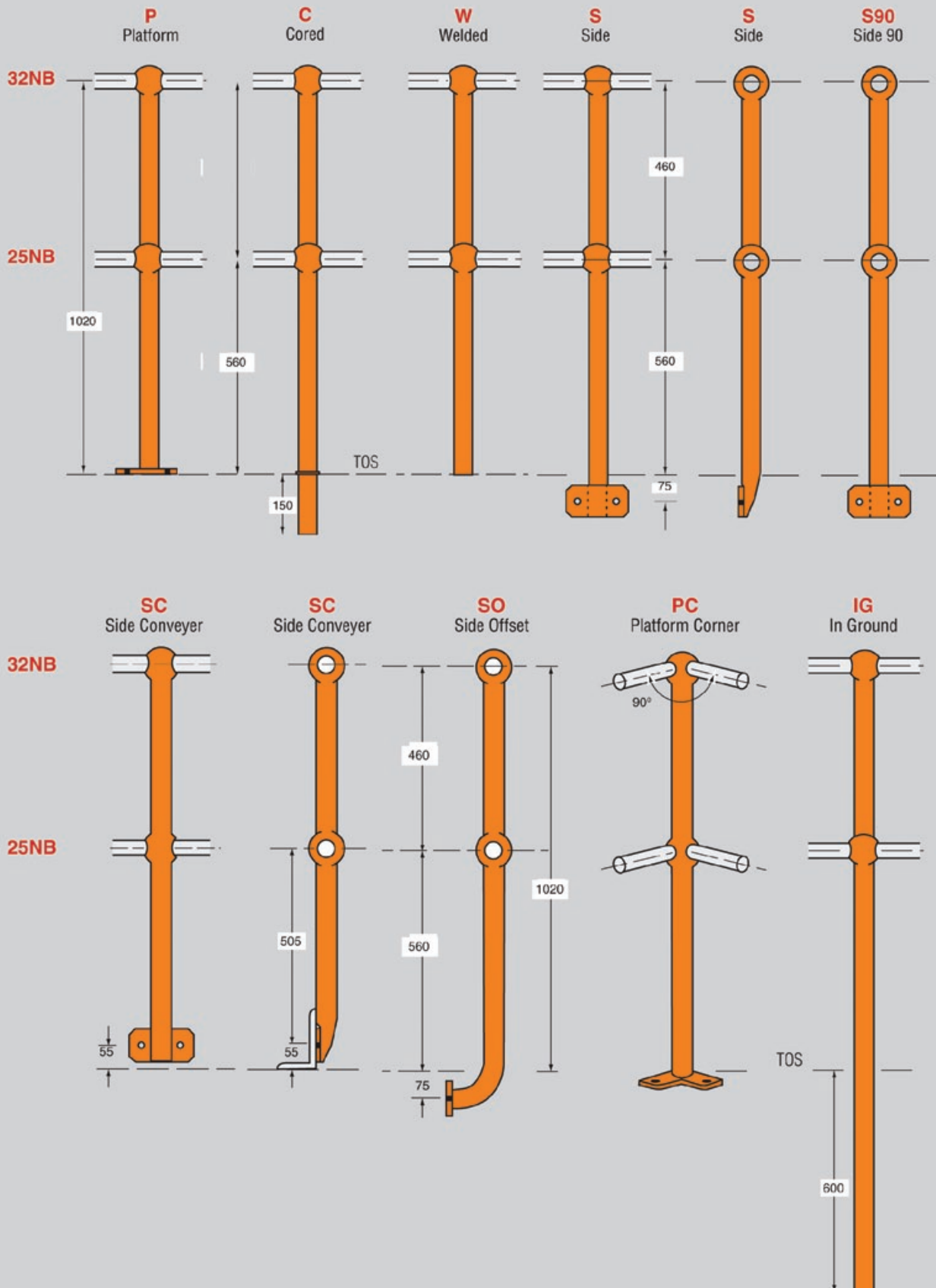


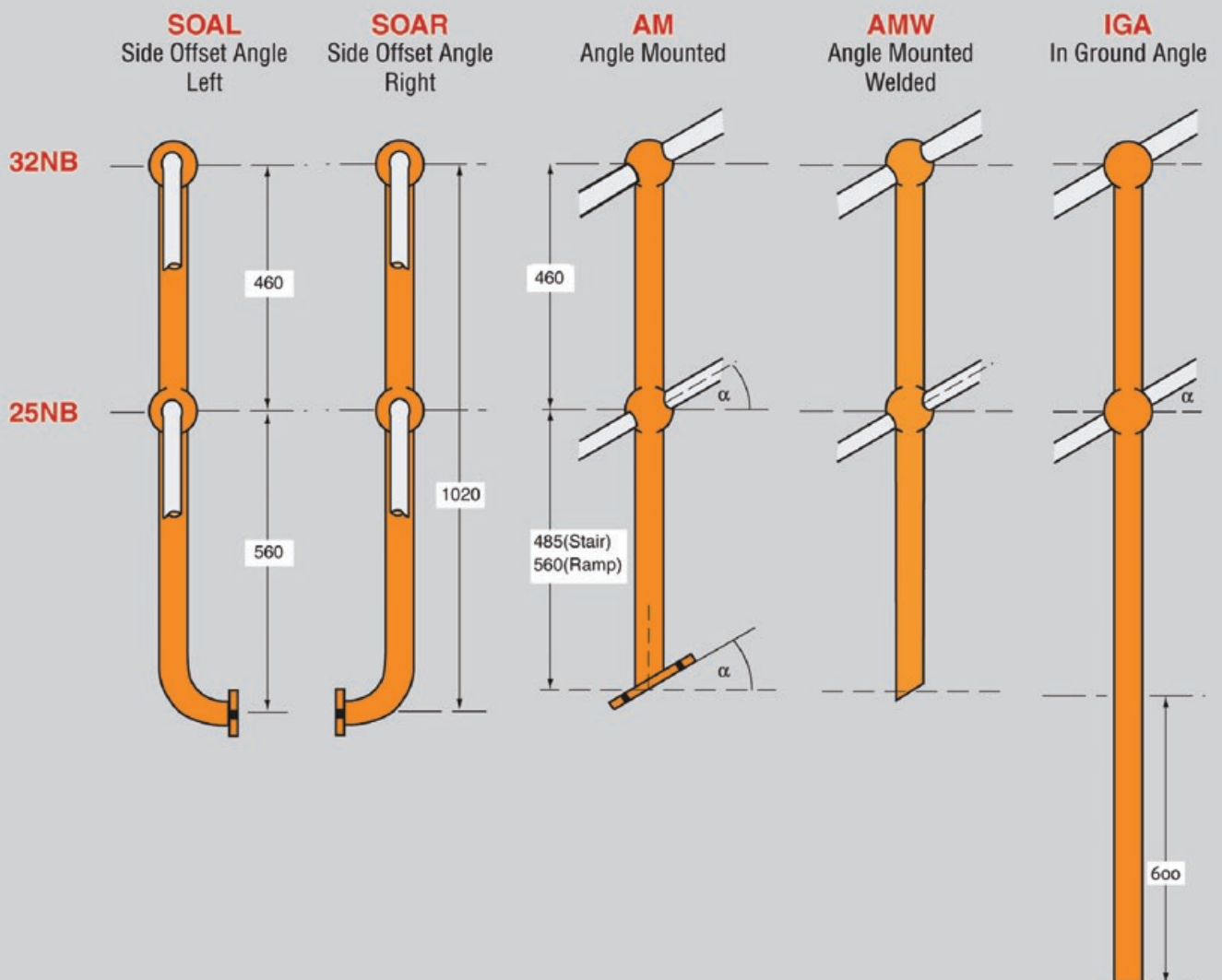
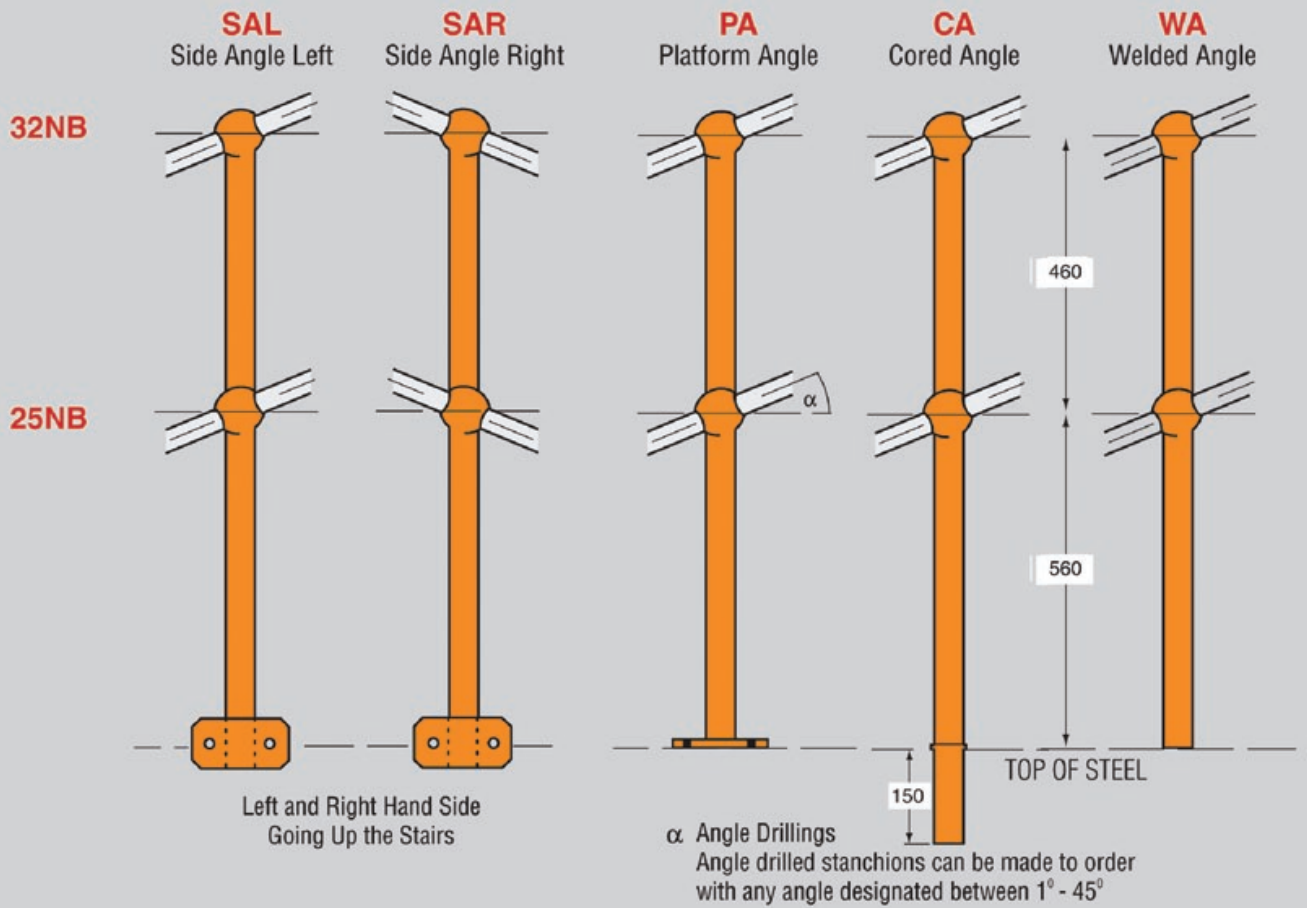


# KARISMA STANCHION PRODUCT RANGE

Karisma Grating tubular ball handrail system is a safe, strong and 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.

KARISMA HANDRAIL is available in component form, eg, Stanchions, bends, pipe and kick-plate or can be supplied in fully fabricated panels for even quicker site installation.







# KARISMA HANDRAIL SYSTEM

## PRODUCT WEIGHT

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

\* Weight shall differ if not as per manufacturer's standard.

## SPECIFICATIONS

### STANCHIONS

- Medium Duty (Standard)
- 48.3 OD - 40mm NB
- 3.2mm Gauge
- 76mm OD Ball

### ALUMINUM

- 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.

### HEAVY DUTY KNEERAIL

- 25mm NB
- 33.7mm OD

### STANDARD KNEERAIL

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

### HEAVY DUTY HANDRAIL

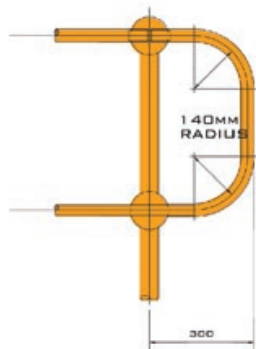
- 32mm NB
- 42.4mm OD
- 4.0mm Gauge

### RAILS

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

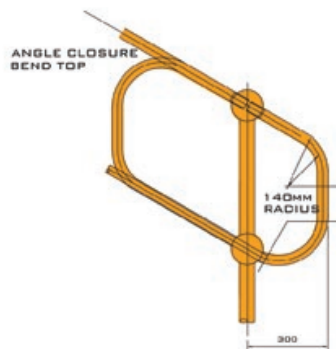


## KARISMA BENDS



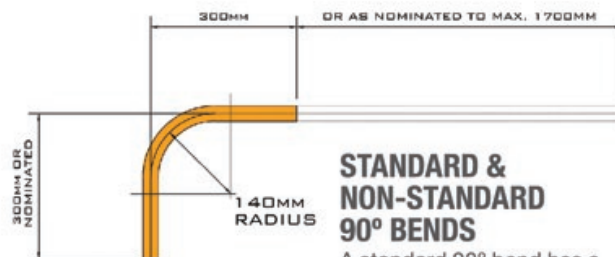
### HORIZONTAL CLOSURE BENDS

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



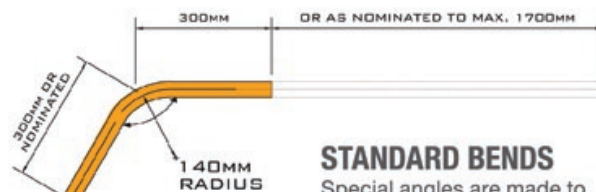
### ANGLE CLOSURE BENDS

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



### STANDARD & NON-STANDARD 90° BENDS

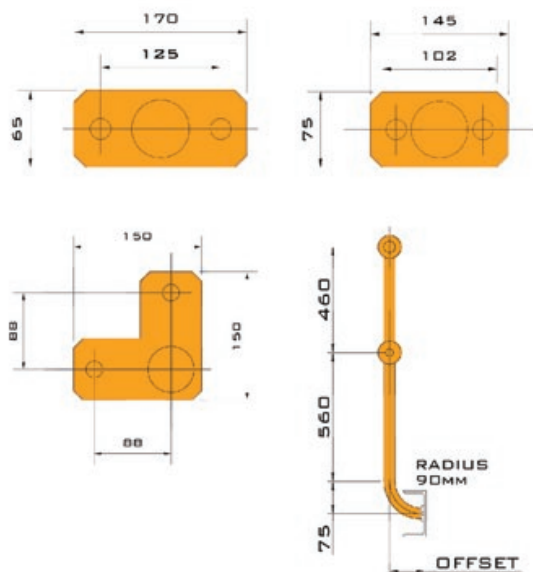
A standard 90° bend has a 140mm radius with 300mm legs. A non-standard 90° bend has a 140mm.



### 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.

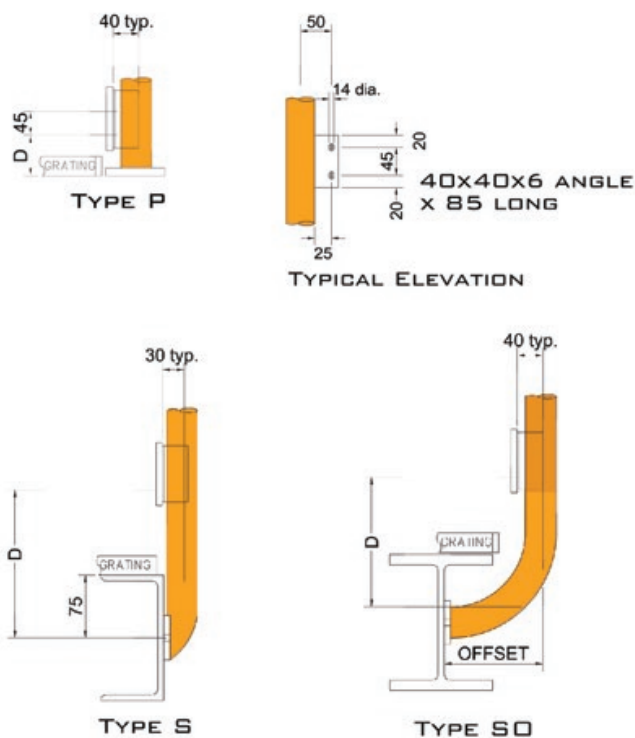
## KARISMA STEEL BASE PLATES



### 'SO' TYPE OFFSETS

CHANNELS OFFSETS		CHANNELS OFFSETS	
SIZE	CHANNELS OFFSETS	SECTION	CHANNELS OFFSETS
150 x 75	110	200UB	110
180 x 75	110	250UB	110
200 x 75	110	310UB	110
230 x 75	110	360UB	115
250 x 75	115	410UB	115
300 x 75	115	460UB	125
380 x 75	125	530UB	135

## KICKPLATE MOUNTING BRACKETS



### DIMENSION 'D' FOR VARIOUS STANCHION TYPES

GRATING HT, MM	NIL	20, 25, 32	40, 45, 50	40, 45, 50
P, W, C	D = 40	D = 65	D = 80	D = 80
S & SO	D = 115	D = 140	D = 160	D = 160

SLOT ALLOW 7MM UP/DOWN ADJUST TO KICKPLATE



# CUSTOMIZATION



KARISMA HANDRAIL can be supplied in panels and manufactured to suit your exact requirements.

## BENEFITS

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

## WELD OPTIONS

- Fully welded and galvanized after fabrication
- Tack welded and galvanized after fabrication
- Galvanized components, tack welded and cold galvanized after fabrication

## FINISH OPTIONS

- Hot-dip Galvanized
- Painting
- Untreated

## HANDRAIL INSTALLATION TIPS

### 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.

### STANCHION CENTERS

- Steel - 2000mm recommend maximum centers for standard 32mm medium duty stanchions.
- Aluminum - 1800mm recommend maximum centers (side offset stanchions should be spaced at no greater than 1200mm centers).

### WELDING

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

### SLIP JOINTS

- Steel - supplied galvanized complete with tapered pins (hole size for taper pins should be 5mm).
- Aluminum - supplied stainless steel locking screw or pop rivets.