



Grating Stanchion Railing Ball Joint Handrail

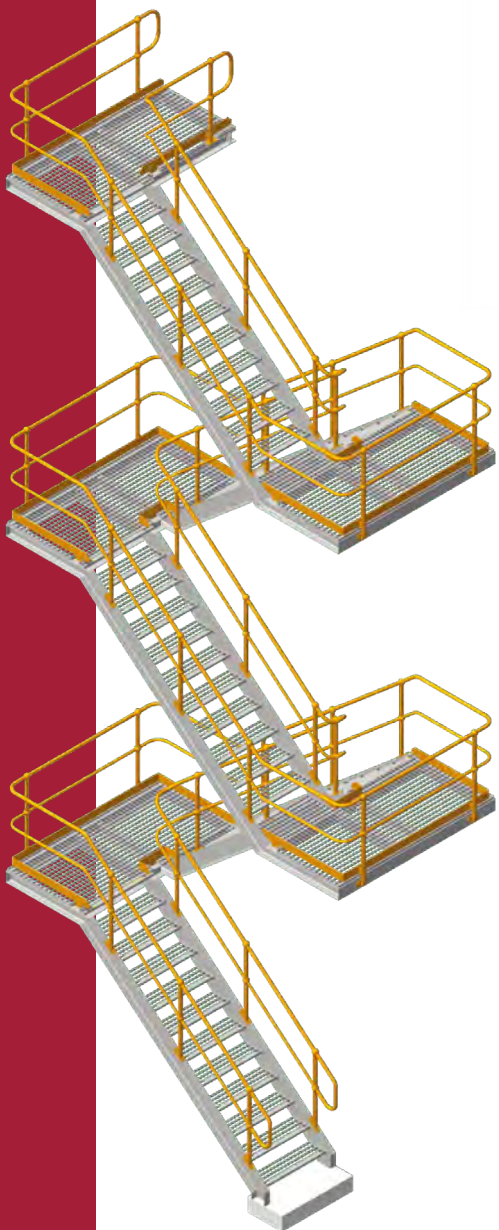


ENZAR METAL

CATALOG

Anping Enzar Metal Products Co., Ltd.

GRATING STANCHION RAILING BALL JOINT HANDRAIL



As we all know, steel gratings are widely used in platforms, staircases, bridges and offshore walkways and other applications. To enhance the safety of these sites, we can provide the matching grating stanchion railing ball joint handrails.

Grating ball joint stanchions are manufactured from quality steels (mild steels or aluminum) and treated with various corrosion resistant surfaces (galvanizing, painting) to guarantee the long service life.

Unique structure makes installation simple and time saving on site. Except for stanchions, we can supply rails, bends, kick plates and others for the whole system installation.

CONFIGURATIONS

Material

- Mild steel – most commonly used material. Available in 3.2 mm (medium duty) and 4.0 mm (heavy duty) wall thickness.
- Aluminum – better corrosion resistant performance make it be used in highly corrosive areas, such as water treatment plants, costal environments and offshore platforms & walkways.
- Stainless steel – the best corrosion resistant performance for highly corrosive environments.

Standard Handrails

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

Standard Kneerail

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

Heavy Duty Handrails

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

Heavy Duty Kneerail

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

Aluminum Handrail

- 46 mm OD
- 39 mm ID

Aluminum Kneerail

- 38.1 mm OD
- 34.1 mm ID

Finish

- Black – for mild steel, no coating
- Galvanized – for mild steel, hot dipped galvanized
- Painted – for mild steel, aluminum or stainless steel, wet or dry (powder) coated to your specific colors
- Mill finish – for aluminum, no coating

Heights

- Single rail: according to design
- Double rails: 1017 mm (the most popular)
- Triple rails: 1200 mm

Column spacing

- 1000 mm
- 1200 mm
- 1500 mm
- 2000 mm
- As customers request

Quantity of horizontal poles

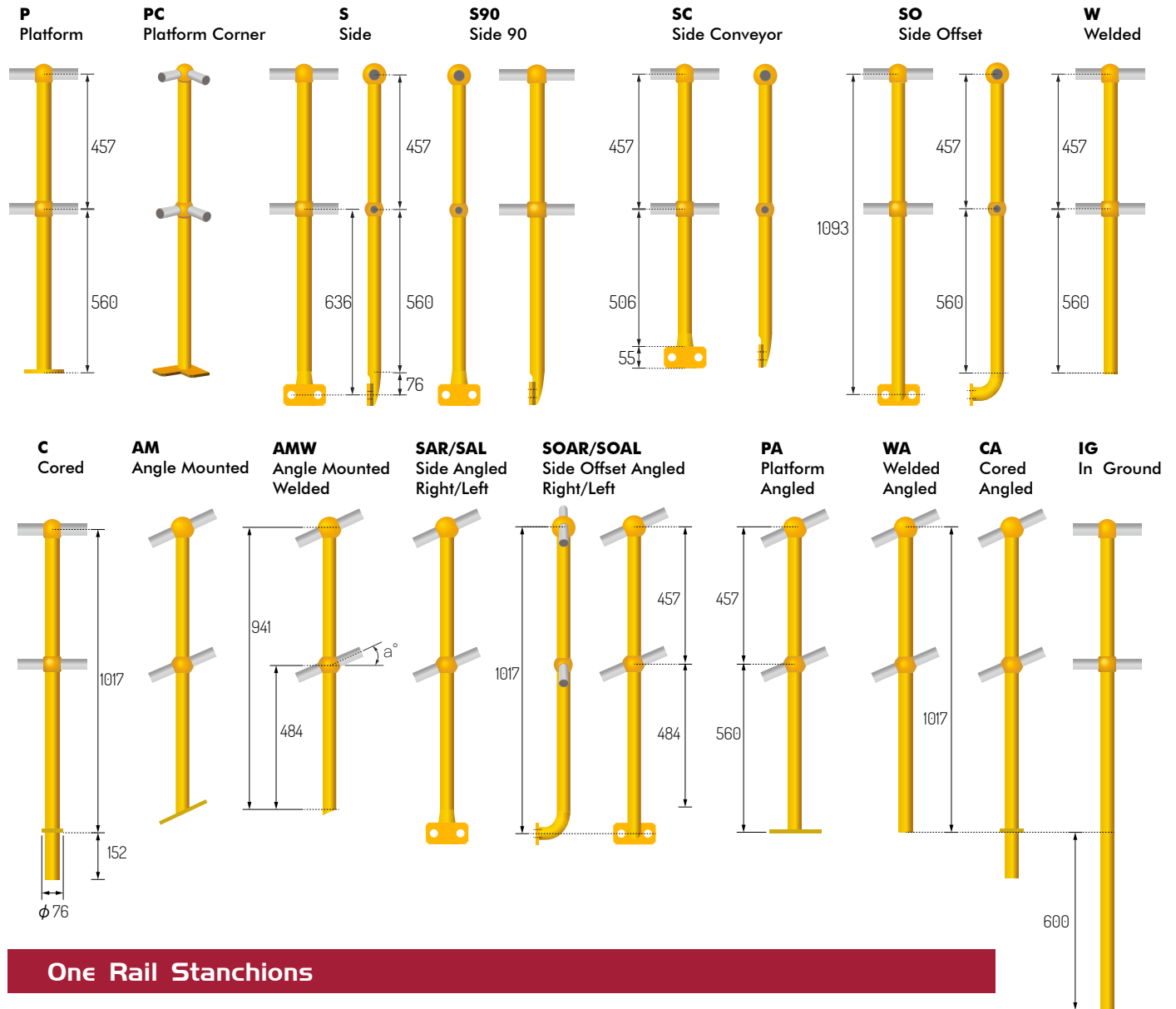
- One horizontal poles
- Two horizontal poles
- Three horizontal poles

PRODUCT CODE

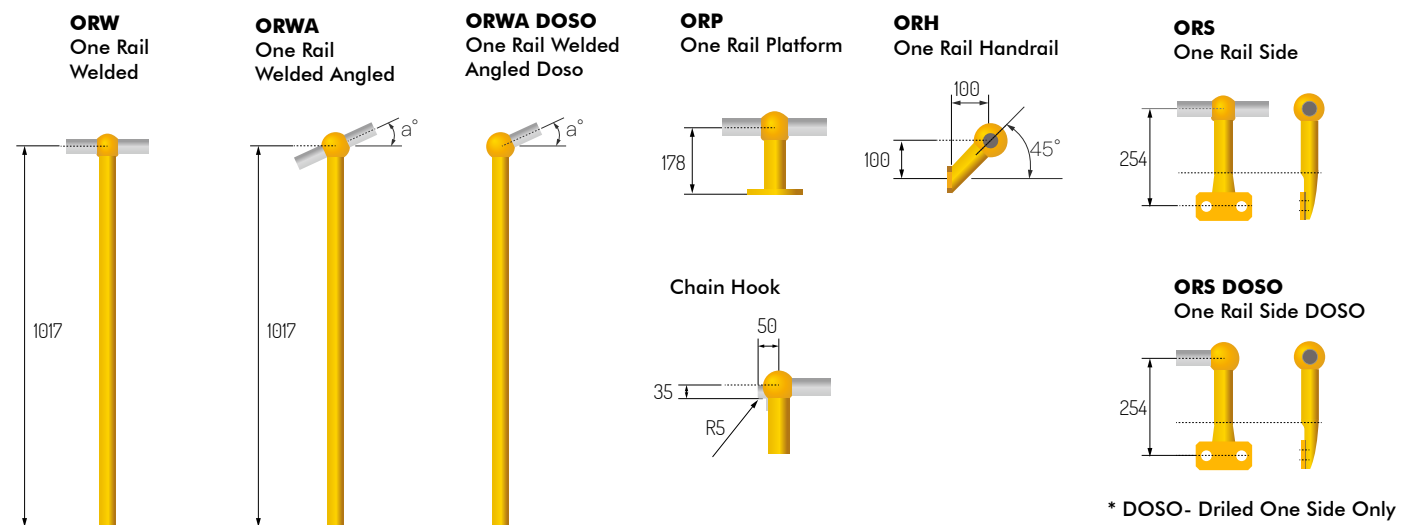
Item	Product Code	Description
Stanchions	P	Platform
	PA	Platform Angle
	PC	Platform Corner
	C	Cored
	CA	Cored Angle
	W	Welded
	WA	Welded Angle
	S	Side
	S90	Side 90
	SC	Side Conveyor
	SO	Side Offset
	SAL	Side Angle Left
	SAR	Side Angle Right
	SOAL	Side Offset Angle Left
	SOAR	Side Offset Angle Right
	IG	Inground
	IGA	Inground Angle
	AM	Angle Mounted
	AMW	Angle Mounted Welded
	ORP	One Rail Platform
	ORS	One Rail Side
	ORH	One Rail Handrail
	DOSO	Left/Right Hand
	ORS DOSO	One Rail Side Left/Right Hand
Bends	RB32	Rail Bend 32NB
	RB25	Rail Bend 25NB
	RB46	Rail Bend 46OD
	RB38	Rail Bend 38OD
Pipe	P32	Pipe 32NB
	P25	Pipe 32NB
	P46	Pipe 46OD
	P38	Pipe 38OD
Kick plate	K1006	Kick plate 100×6
Gate	HGATE	single gate no kick plate
	HGATEKP –	Single gate with kick plate
	HGATED	Double gate (up to 3000 mm stanchion centre)
Swing	NW Swing	Northwest Swing
	SW Swing	Southwest Swing
	NE Swing	Northeast Swing
	SE Swing	Southeast Swing

MAIN STRUCTURES

Stanchions

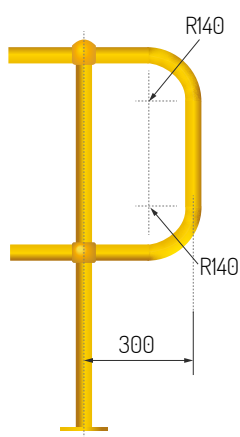


One Rail Stanchions



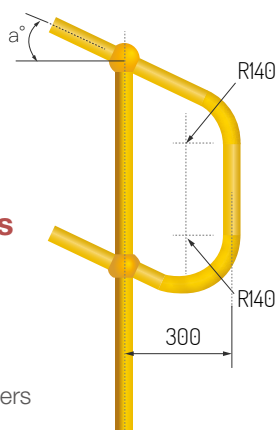
MAIN STRUCTURES

Bends



Horizontal Closure Bends

- Wall thickness: 3.2 mm
- 90° closure bends
- 140 mm radius
- 300/260 mm legs at 457 mm centers

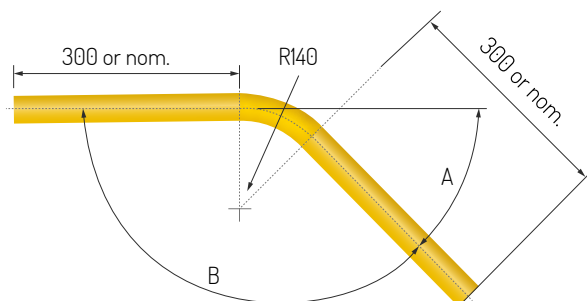
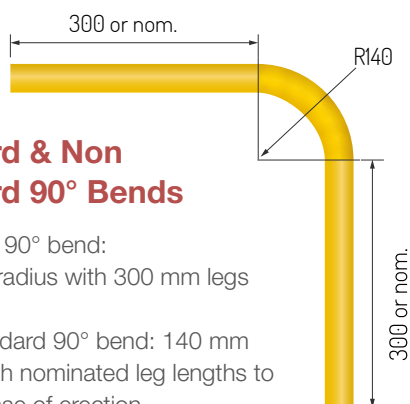


Angle Closure Bends

- 140 mm radius bends
- 300/200 mm legs at 457 mm centres
- Angle closure bends are made to order between 1° and 45°.

Standard & Non Standard 90° Bends

- Standard 90° bend: 140 mm radius with 300 mm legs
- Non-standard 90° bend: 140 mm radius with nominated leg lengths to enable ease of erection



Standard & Non-Standard Bends

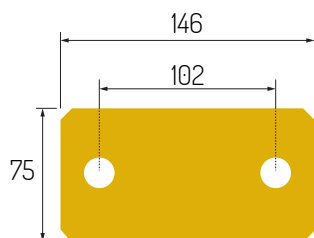
Special angles are made to suit customer's requirements. Always specify angles as shown, either A or B.

Base Plates

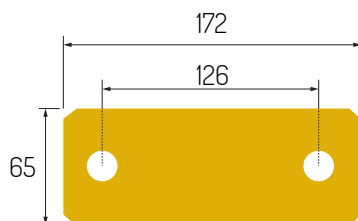
All base plates are 10 mm thickness.

Hole size is typical Ø17.5 mm

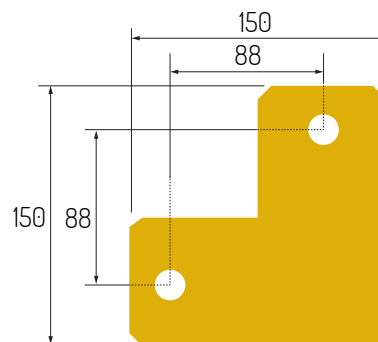
All base plates have pre-drilled drain holes



Standard



Angle Mounting Only



Corner

MAIN STRUCTURES

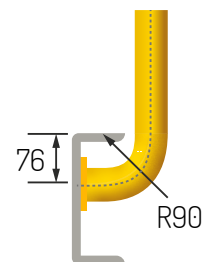
Offset

CHANNELS

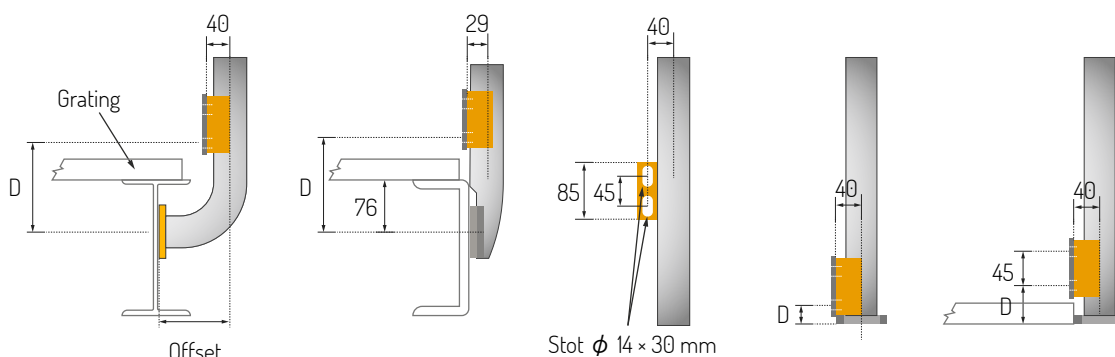
SIZE	OFFSET
150 × 75	110 mm
180 × 75	110 mm
200 × 75	110 mm
230 × 75	110 mm
250 × 90	115 mm
300 × 125	115 mm
380 × 100	125 mm

UNIVERSAL BEAMS

SIZE	OFFSET
200 UB	110 mm
250 UB	110 mm
310 UB	110 mm
360 UB	115 mm
410 UB	125 mm
460 UB	125 mm
530 UB	135 mm



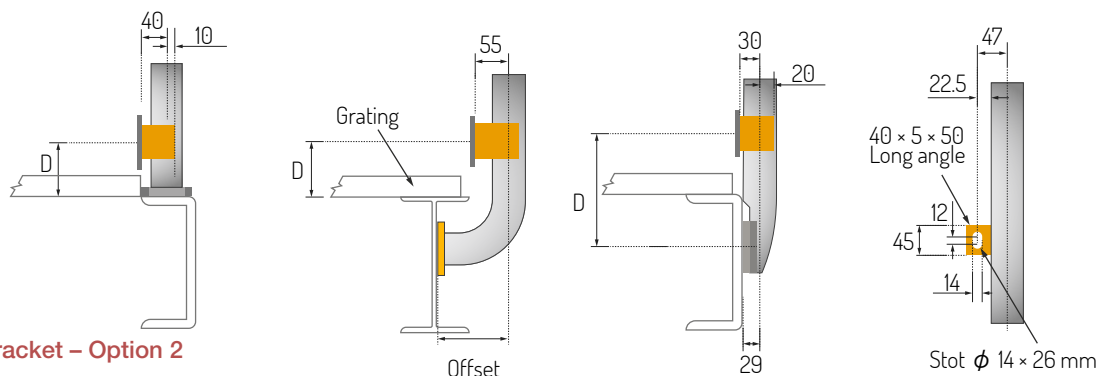
Kick Plate



Kick plate 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



Kick plate Mounting Bracket – Option 2

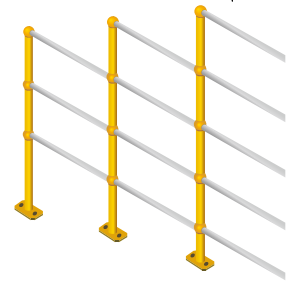
Dimension 'D' for various stanchion types

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

MAIN STRUCTURES

Multi Rail Applications

Standard stanchions are 2 balls, and multi ball stanchions are also available, just tell us your requirements, we will customize them for you. Please note that the minimum ball centers are 295 mm.



Balustrade

The 12 mm vertical bars at 100 mm centers are designed to prevent children from climbing or falling through the panel.

Fabricated to exact project specifications.



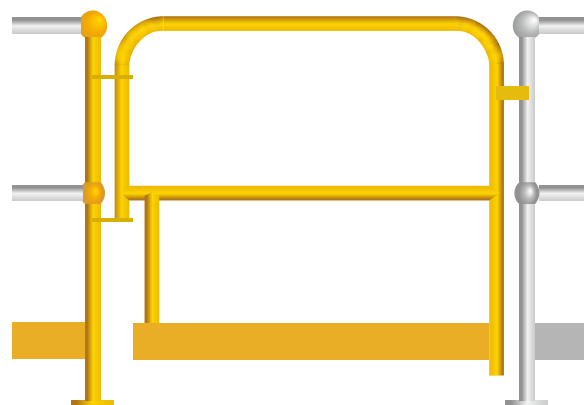
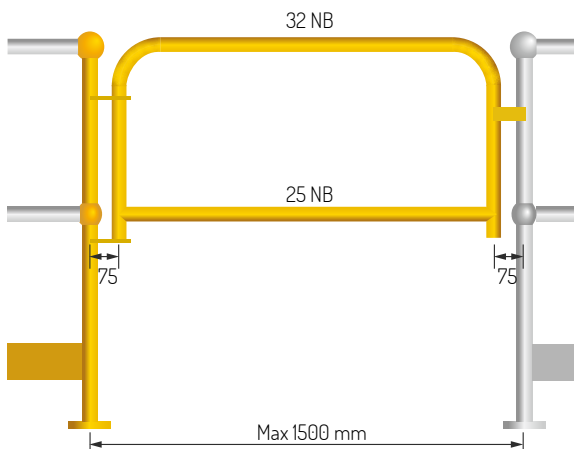
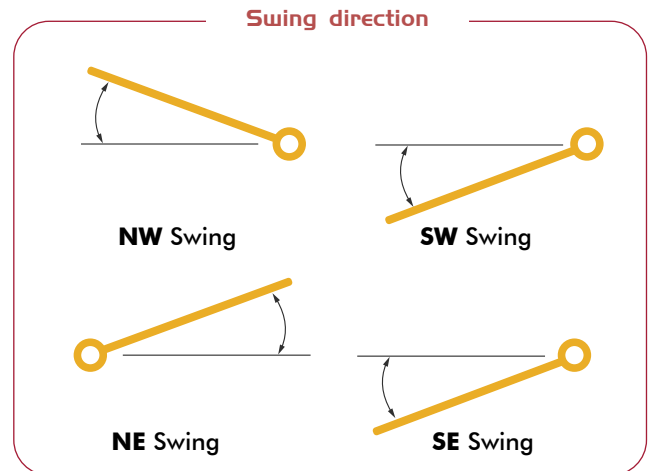
Self Closing Gates

When ordering a self closing gate the following information is required:

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

Gate types

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





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