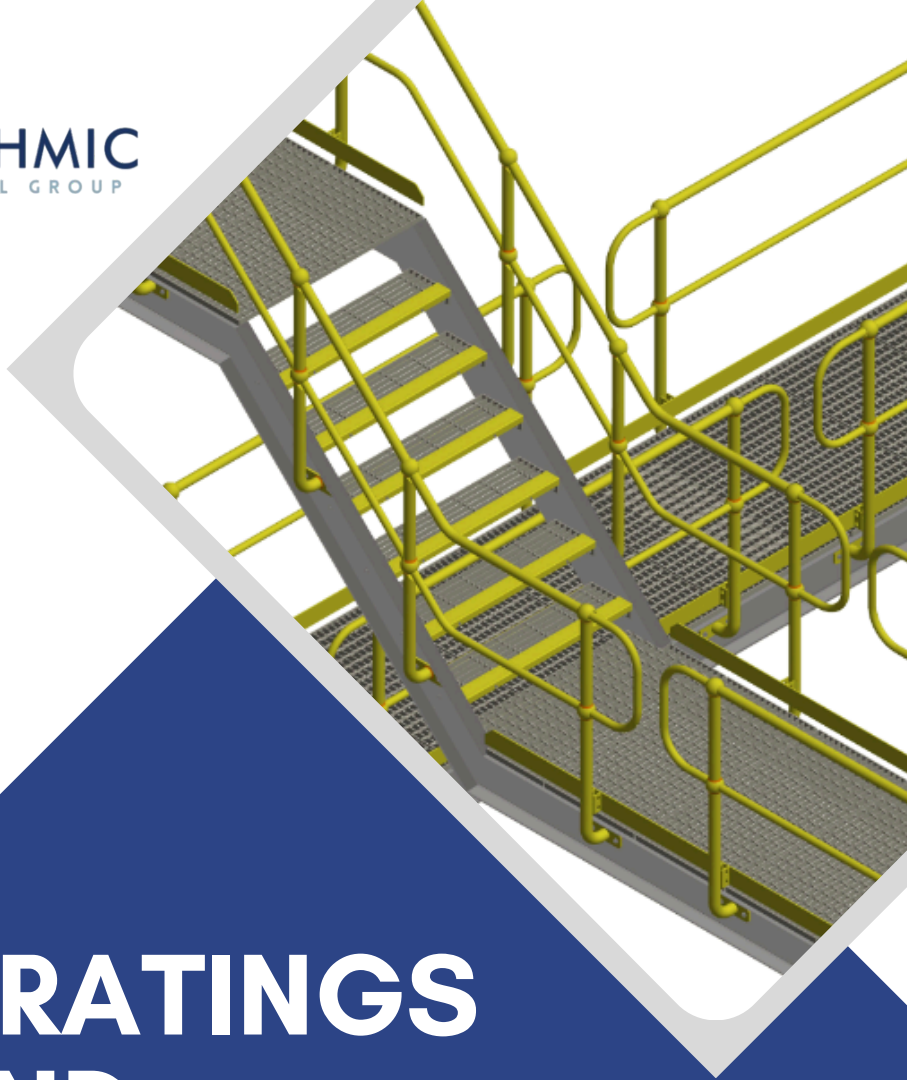




GRATINGS AND STANCHIONS

ASHMIC GROUP

ASHMIC STEEL GROUP is the backbone of a multi-million-dollar company, strategically located at the center of the circle connecting Beijing, Tianjin, Hebei, and Qingdao. We benefit from abundant resources, a prime location, and convenient transportation. ASHMIC STEEL GROUP focuses its business on the steel, security, and construction sectors.

Situated at the birthplace of China's steel industry, ASHMIC STEEL GROUP has made rapid progress by implementing successive strategic programs such as comprehensive technical renovations. Our advanced equipment meets international standards, and our industrial processes have reached a high level within the sector.

At ASHMIC STEEL GROUP, we always adhere to the principle: *"We supply high-quality products with number one customer service."* We continuously enhance our development strategies and improve work standards while actively addressing various challenges—from productivity, manufacturing, and powder coating to cost control, product development, and brand promotion.

Through these efforts, we have consistently achieved new milestones and breakthrough developments, earning great recognition and acclaim from overseas steel counterparts and the wider community.

The Ashmic Steel Group is well recognised within the industry with our advanced factory based in China, we are able to support any type of design structure and quantity to serve globally.

MISSION & VISION

The **Ashmic Steel Group** has built up a strong reputation and relationship with new and existing clients all over the world. Our aim is to maintain the highest standard and service line to all our customers. We are here to grow with our clients and achieve multi level commitments internationally. In everything we do, our mind set is that the customer comes first and has always been our priority.

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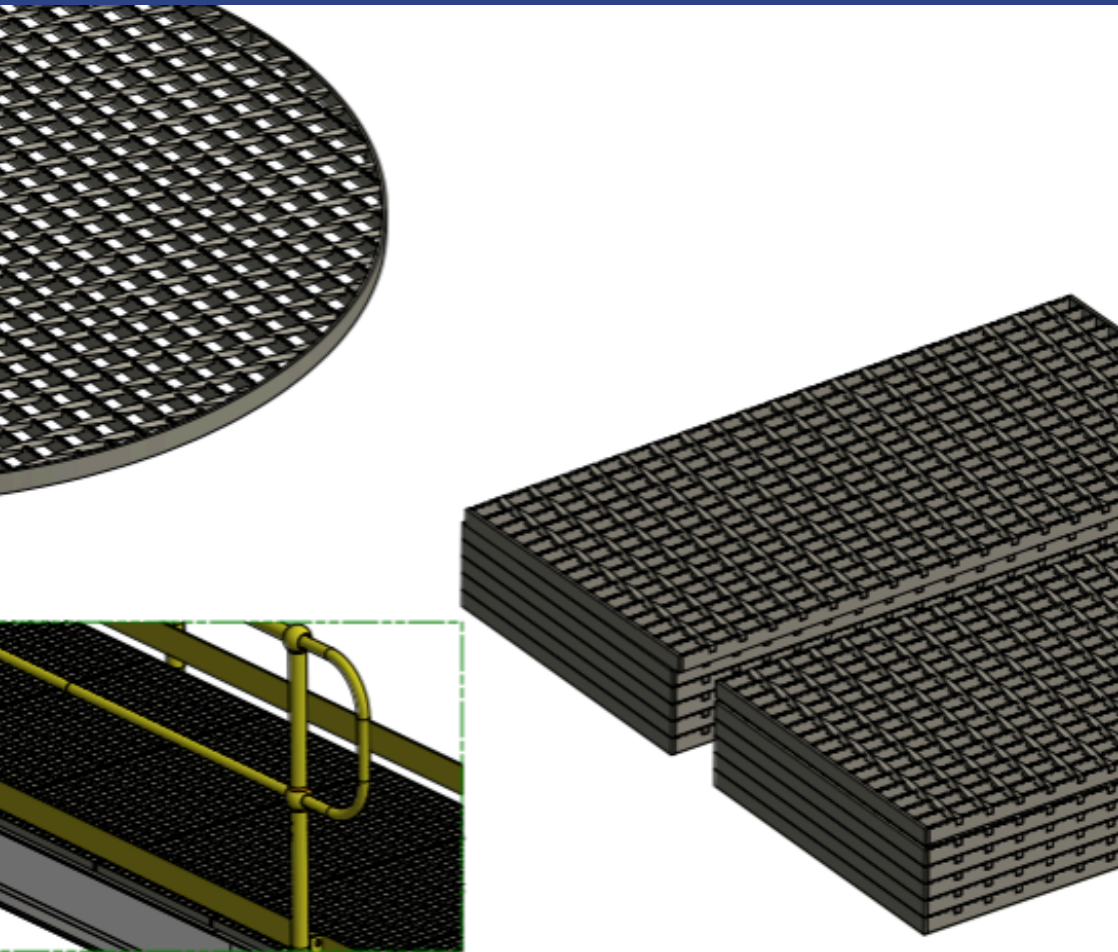
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ASHMIC STEEL GRATING

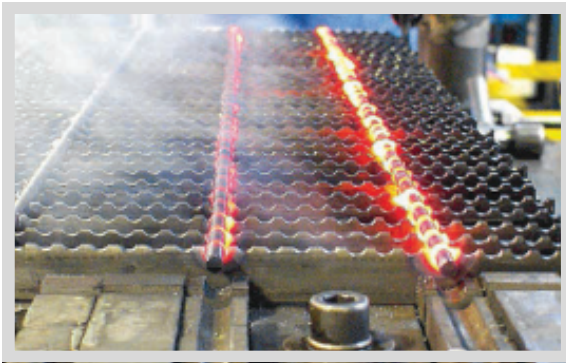
ASHMIC Steel Grating is an open grid assembly of metal bars, in which the bearing bars, running in one direction, are spaced by rigid attachment to cross bars running perpendicular to them or by bent connecting bars extending between them, which is designed to hold heavy loads with minimal weight. It allows air, light and heat transmission, while providing strength to support everything on it from light pedestrian traffic to the heaviest vehicular traffic. It is widely used as flooring, catwalk, mezzanines/decking, stair tread, fencing, ramp, dock, trench cover, drainage pit cover, maintenance platform, pedestrian/crowded pedestrian in factories, workshops, motor rooms, trolley channels, heavy loading areas, boiler equipment and heavy equipment areas, etc.



ASHMIC'S STEEL BAR GRATING

ASHMIC's Steel Bar Grating is manufactured through the forged welding process, which has been successfully used worldwide for several decades, ensuring a product of high quality and resistance.

This process consists in welding steel cross bars to perpendicular and equidistant bearing bars. This is achieved through high current and high mechanical pressure discharges, fusing the molecular elements of both components without placing filler material, as it occurs in the arc welding process. The forged welding process guarantees an homogeneous product of high quality and resistance.



APPLICATIONS

- Industrial and Commercial Plants
- Mining underground Vents
- Catwalks
- Conveyors
- Flooring
- Machine Rooms
- Marine Platforms
- Heliports
- Industrial Stair Treads
- Trench and Storm Drains

ADVANTAGE OF THE STEEL BAR GRATING

- Allows the passage of light
- Allows air circulation
- Prevent blockages or accumulation of trash, dust or liquids
- Provides lightness and high load resistance
- Due to the increasing friction that provides to the shoe sole, increase safety in working areas



PRODUCT SELECTION GUIDE

ASHMIC GRATING is a multipurpose grating system suitable for a variety of industrial application.

ASHMIC GRATING available in numerous combination of load bar (flat bar) depth and thickness, load bar pitch and cross bar pitch.

ASHMIC GRATING part numbers use the following coding system for easy identification.

T	BRAND IDENTIFICATION
A	CROSSBAR PITCH
255	LOAD BAR SIZE
1	LOAD BAR PITCH
M	MATERIAL
P	LOAD BAR SURFACE
G	FINISHED

CROSS BAR PITCH

Select between a 50mm and 100mm cross bar pitch (the distance between cross bar).

A = 100mm **B** = 50mm

LOAD BAR PITCH

Select between a 30mm, 40mm or 60mm Load Bar Pitch.

Series 1 = 30mm **Series 2** = 40mm **Series 3** = 60mm

LOAD BAR SIZE

Choose the dimensions of the Load Bar in terms of height and width.

255 indicates a height of 25mm and thickness of 5mm

MATERIAL

Select between Mild Steel or Stainless Steel.

M = Mild Steel **S** = Stainless Steel

LOAD BAR

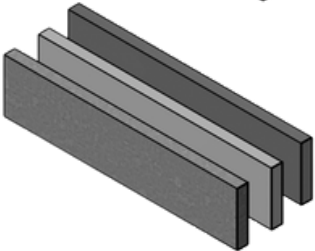
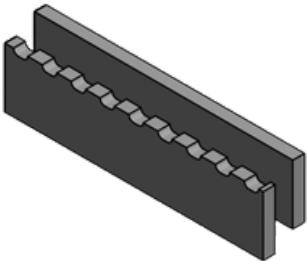
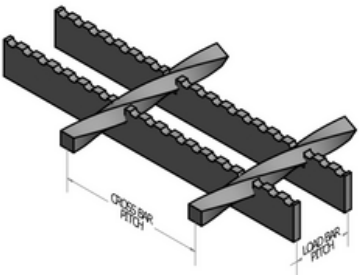
Select between Plain or Serrated load bar

P = Plain **S** = Serrated

LOAD BAR

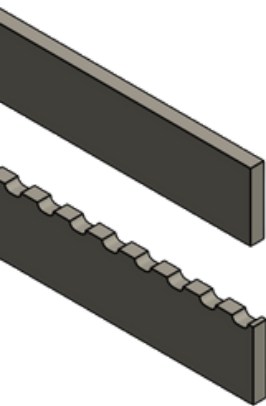
Select between Galvanized, Bitumen Dipped or Untreated Finishes.

G = Galvanized **B** = Bitumen Dipped **U** = Untreated



TOP TREATMENTS AND FINISHES

TOP TREATMENTS



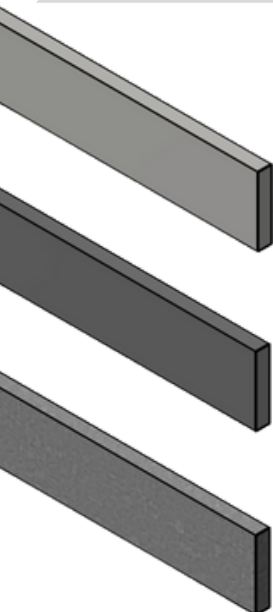
PLAIN

Our standard grating comprises plain square edge flat bar, with a 6mm square twisted bar, forged weld on top of load bar. Although not required under AS1687 the use of 10mm square bar cleats, every 300–400mm will provide for better slip resistance.

SERRATED

Another method for improving slip resistance is the use of serrated grating. The serrations are made up of small notches cut into the load bar during the slitting of the material as one process, providing a low-cost solution for improving slip resistance.

FINISHES



UNTREATED

(No Surface Treatment / Protection)

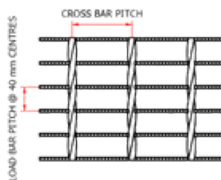
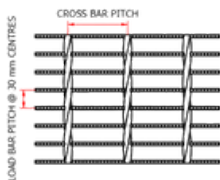
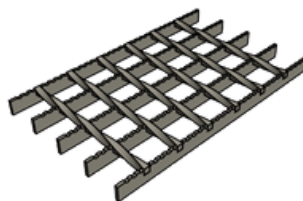
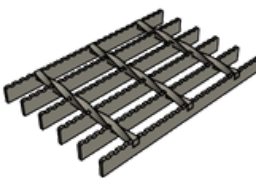
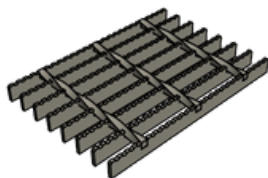
Normally supplied on stock mats or panel to consumers who wish to perform their own fabrication on grating.

BLACK BITUMEN DIPPED

An Economical paint finish which is best suited for indoor installations, or mining application in a dry climate. Note: there is no pre-treatment of steel before dipping. This finish is not recommended in corrosive environments.

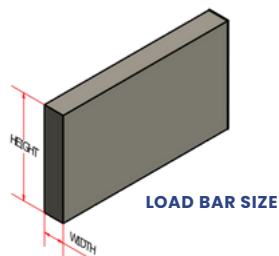
HOT DIPPED GALVANIZED

Hot dip galvanizing produces durable, abrasion resistant coating of metallic zinc alloy layers metallurgically bonded to the steel base at a temperature over 450. All galvanizing conforms to equivalent following standard: ASTM A123/ iso 1461.



LIGHT AND MEDIUM DUTY - MAXIMUM RECOMMENDED SPANS (in mm)

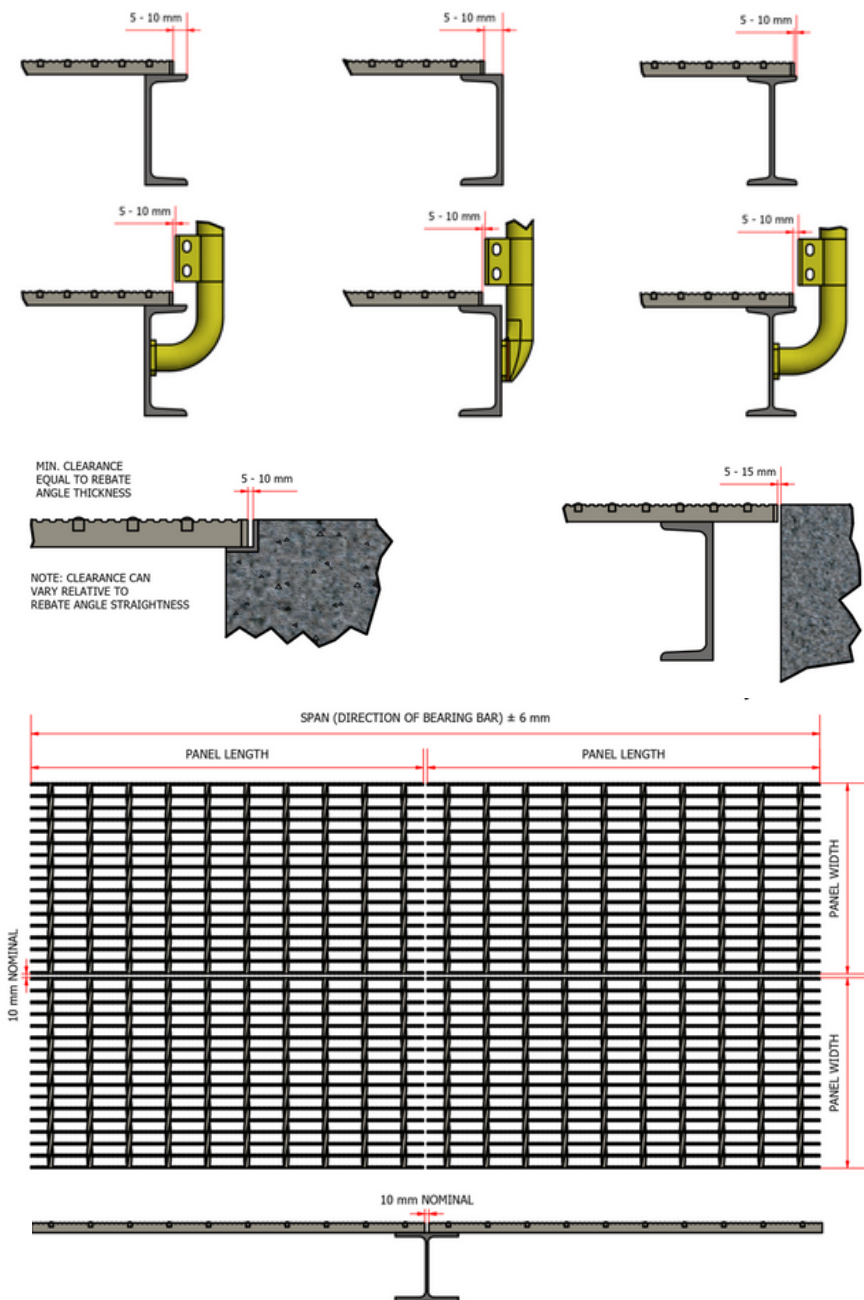
LOAD BAR SIZE (HEIGHT x WIDTH)	MAINTENANCE FLOORS NO PUBLIC USE		PEDESTRIAN TRAFFIC AND LIGHT USE		PEDESTRIAN TRAFFIC AND CROWD USE	
	5mm DEFLECTION SPAN @0.5kPa		5mm DEFLECTION SPAN @3kPa		5mm DEFLECTION SPAN @4kPa	
	LP30	LP40	LP30	LP40	LP30	LP40
20 mm x 3 mm THK.	1190	1110	1140	1060	1060	980
25 mm x 3 mm THK.	1410	1310	1350	1250	1250	1170
32 mm x 3 mm THK.	1700	1580	1620	1510	1510	1400
40 mm x 3 mm THK.	2010	1870	1920	1780	1780	1660
25 mm x 4.5 mm THK.	1560	1450	1490	1390	1390	1290
32 mm x 4.5 mm THK.	1880	1750	1790	1670	1670	1550
38 mm x 4.5 mm THK.	2140	1990	2040	1900	1900	1770
20 mm x 5 mm THK.	1350	1260	1290	1200	1200	1120
25 mm x 5 mm THK.	1600	1490	1530	1420	1420	1320
32 mm x 5 mm THK.	1930	1790	1840	1710	1710	1590
35 mm x 5 mm THK.	2060	1920	1970	1830	1830	1710
38 mm x 5 mm THK.	2190	2040	2100	1950	1950	1820
40 mm x 5 mm THK.	2280	2120	2180	2030	2030	1890



HEAVY DUTY - MAXIMUM RECOMMENDED SPANS (in mm)

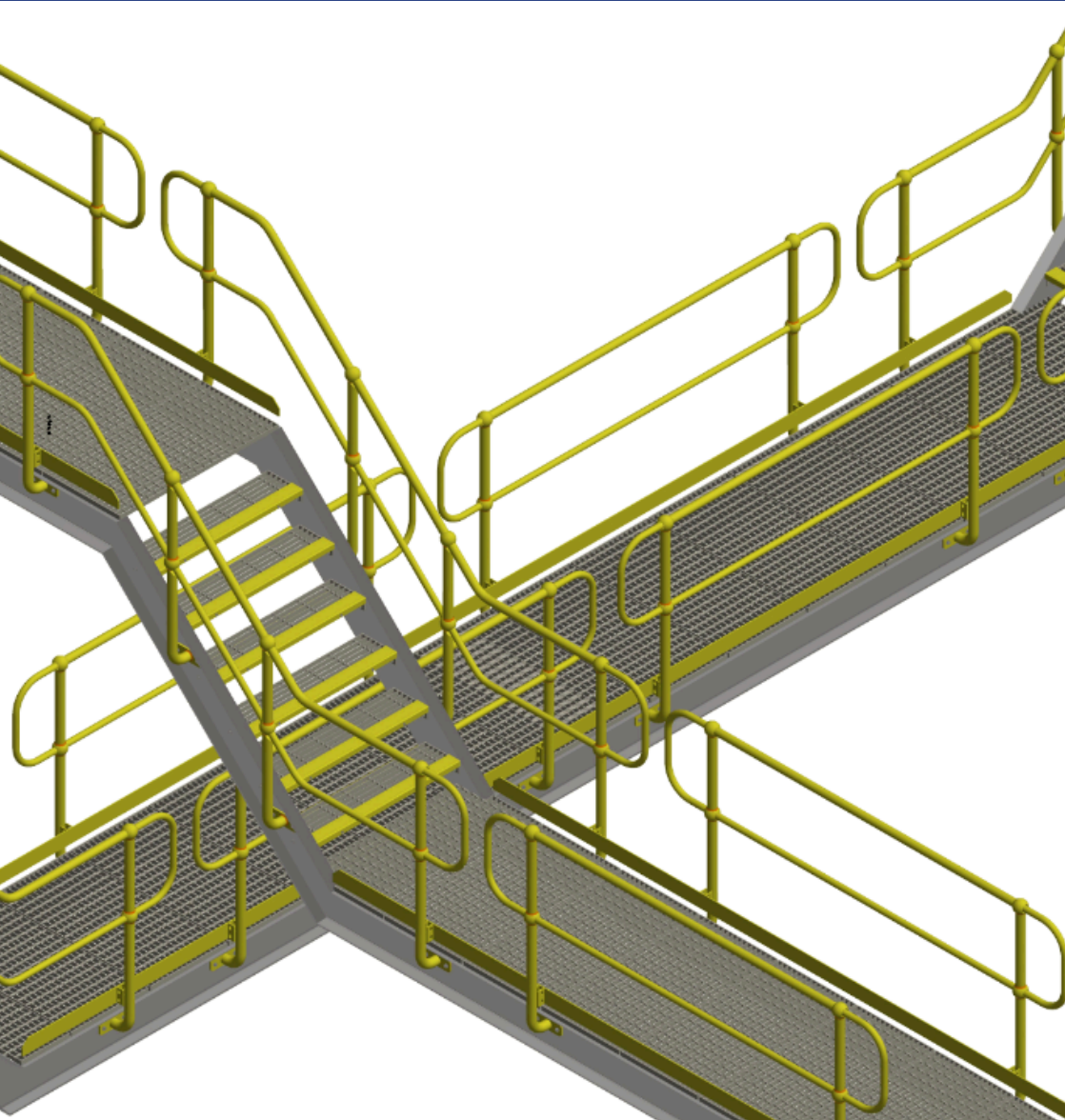
LOAD BAR SIZE (HEIGHT x WIDTH)	GENERAL FACTORIES AND WORKSHOP				GENERAL HEAVY LOADING AREAS AND HEAVY EQUIPMENT AREAS			
	5mm DEFLECTION SPAN @5kPa		10mm DEFLECTION SPAN @5kPa		5mm DEFLECTION SPAN @7.5kPa		10mm DEFLECTION SPAN @7.5kPa	
	LP30	LP40	LP30	LP40	LP30	LP40	LP30	LP40
25 mm x 4.5 mm THK.	1310	1220	1560	1450	1450	1100	1410	1310
32 mm x 4.5 mm THK.	1580	1470	1880	1750	1750	1330	1700	1580
38 mm x 4.5 mm THK.	1800	1670	2140	1990	1990	1510	1930	1800
25 mm x 5 mm THK.	1350	1250	1600	1490	1490	1130	450	1350
32 mm x 5 mm THK.	1620	1510	1930	1790	1790	1360	1740	1620
35 mm x 5 mm THK.	1730	1610	2060	1920	1920	1460	1860	1730
38 mm x 5 mm THK.	1840	1720	2190	2040	2040	1550	1980	1840
40 mm x 5 mm THK.	1920	1780	2280	2120	2120	1610	2060	1920
45 mm x 5 mm THK.	2090	1950	2490	2320	2320	1760	2250	2090
50 mm x 5 mm THK.	2270	2110	2700	2510	2510	1910	2440	2270
55 mm x 5 mm THK.	2440	2270	2900	2700	2700	2050	2620	2440
65 mm x 5 mm THK.	2760	2570	3290	3060	3060	2320	2970	2760
75 mm x 5 mm THK.	2080	2860	3660	3400	3400	2590	3300	3080
75 mm x 6 mm THK.	3220	3000	3830	3560	3560	2710	3460	3220

STANDARD INSTALLATION CLEARANCES

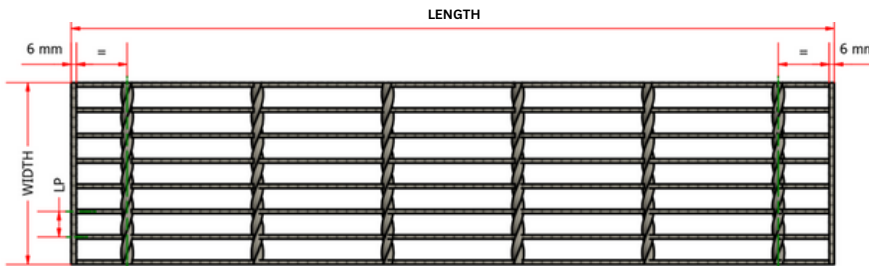
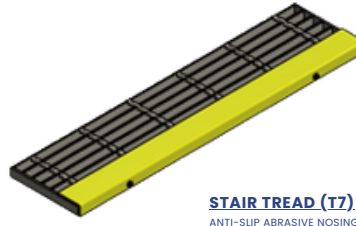
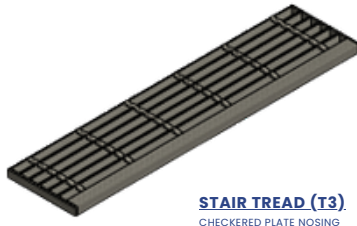
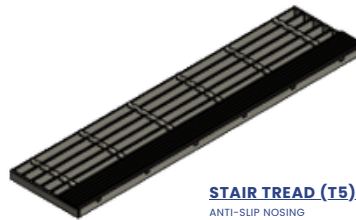


ASHMIC STEEL STAIR TREAD

ASHMIC Steel Stair Treads are available in a variety of grating profiles and tread types. The most popular tread are the T1 and T6 treads.



ASHMIC STEEL STAIR TREAD (WELDED METHOD)



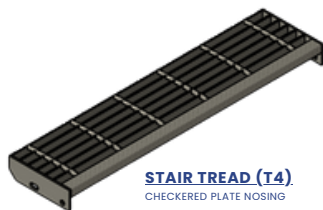
RECOMMENDED WIDTH FOR STAIR TREADS							
BEARING BAR PITCH	WIDTH OF STAIR TREAD						
LP 30 mm	125 mm	155 mm	185 mm	215 mm	245 mm	275 mm	305 mm
LP 40 mm	125 mm	165 mm	-	205 mm	245 mm	285 mm	325 mm

RECOMMENDED LENGTH FOR STAIR TREADS				
LOAD BAR DIMENSION (HEIGHT & THICKNESS)	25 mm x 3 mm THK.	25 mm x 5 mm THK.	32 mm x 5 mm THK.	38 mm x 5 mm THK.
LP 30 mm	LENGTH = 550 mm	LENGTH = 900 mm	LENGTH = 1300 mm	LENGTH = 1600 mm
LP 40 mm	LENGTH = 450 mm	LENGTH = 750 mm	LENGTH = 1200 mm	LENGTH = 1500 mm

ASHMIC STEEL STAIR TREAD (BOLTED METHOD)



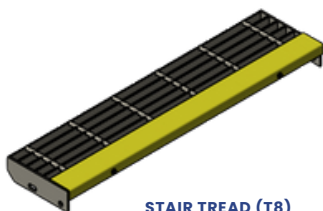
STAIR TREAD (T2)
WITHOUT ANY NOSING



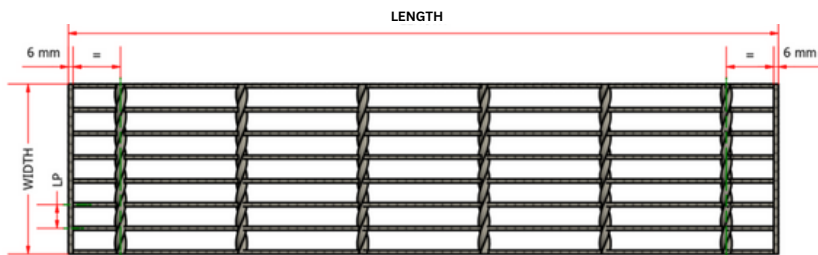
STAIR TREAD (T4)
CHECKERED PLATE NOSING



STAIR TREAD (T6)
ANTI-SLIP NOSING



STAIR TREAD (T8)
ANTI-SLIP ABRASIVE NOSING

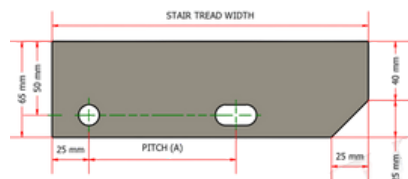


RECOMMENDED WIDTH FOR STAIR TREADS							
BEARING BAR PITCH	WIDTH OF STAIR TREAD						
LP 30 mm	125 mm	155 mm	185 mm	215 mm	245 mm	275 mm	305 mm
LP 40 mm	125 mm	165 mm	-	205 mm	245 mm	285 mm	325 mm

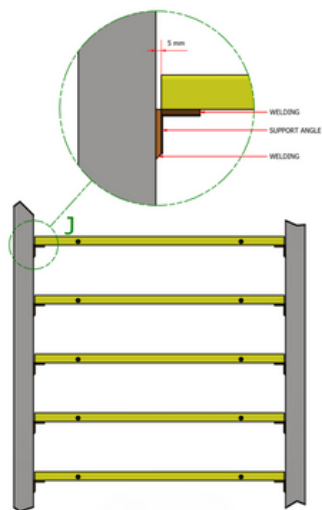
ANCHORING WITH BOLTS							
CENTER DISTANCE FOR HOLE (PITCH A)	45 mm	75 mm	75 mm	100 mm	125 mm	150 mm	150 mm

RECOMMENDED LENGTH FOR STAIR TREADS				
LOAD BAR DIMENSION (HEIGHT & THICKNESS)	25 mm x 3 mm THK.	25 mm x 5 mm THK.	32 mm x 5 mm THK.	38 mm x 5 mm THK.
LP 30 mm	LENGTH = 550 mm	LENGTH = 900 mm	LENGTH = 1300 mm	LENGTH = 1600 mm
LP 40 mm	LENGTH = 450 mm	LENGTH = 750 mm	LENGTH = 1200 mm	LENGTH = 1500 mm

BOLTED ENDPLATE DETAILS

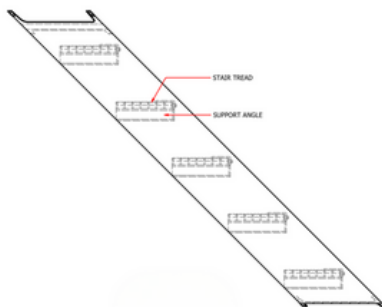


WELDING DETAILS



FRONT ELEVATION

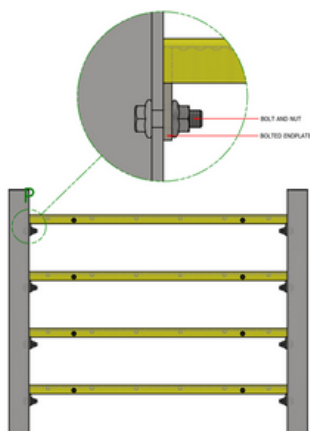
SCALE 1 : 12



SIDE ELEVATION

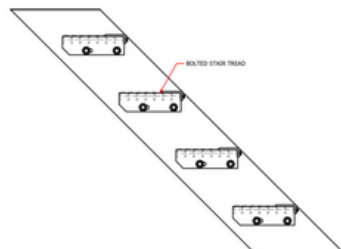
SCALE 1 : 12

BOLTING DETAILS



FRONT ELEVATION

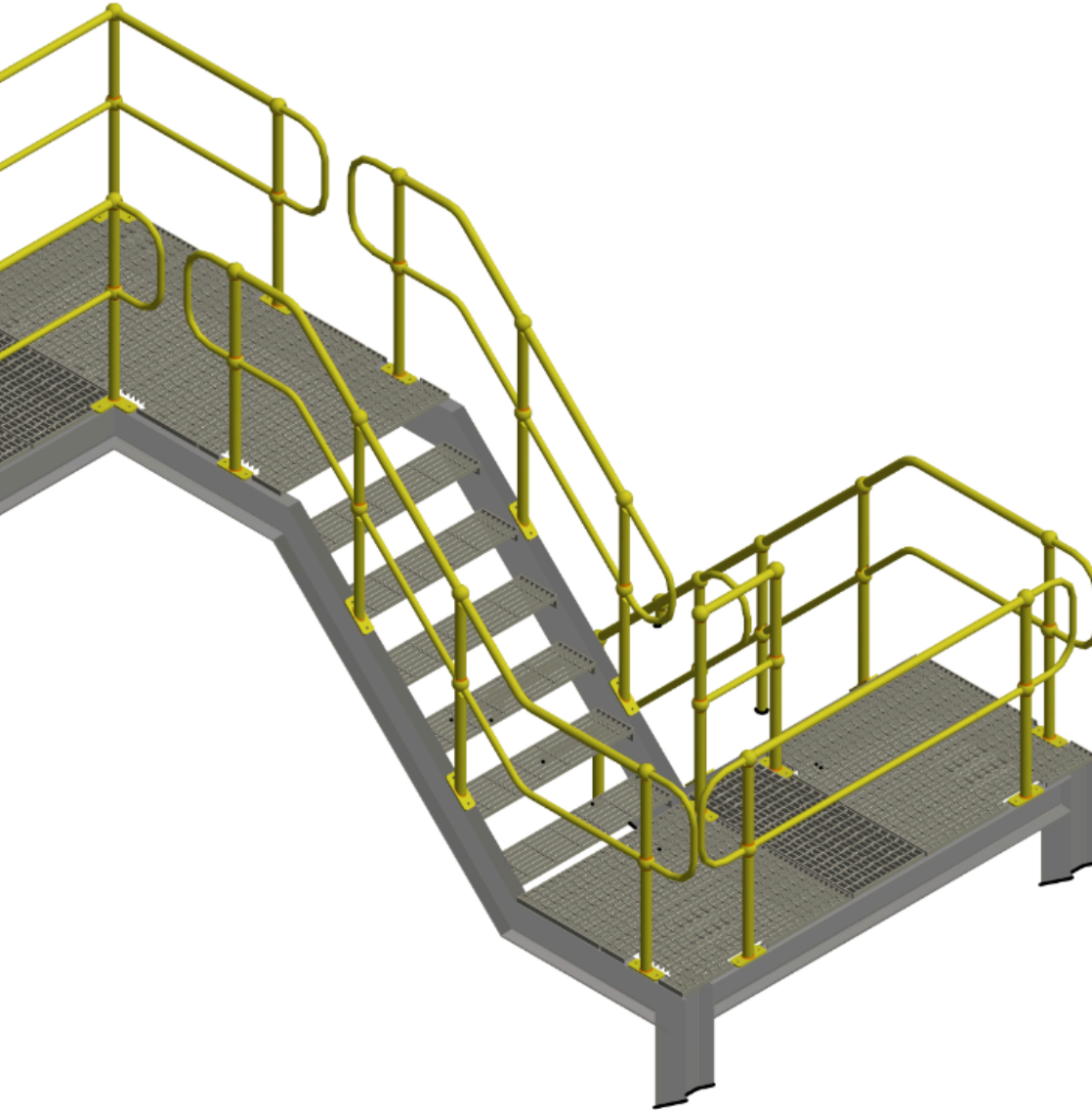
SCALE 1 : 10



SIDE ELEVATION

SCALE 1 : 10

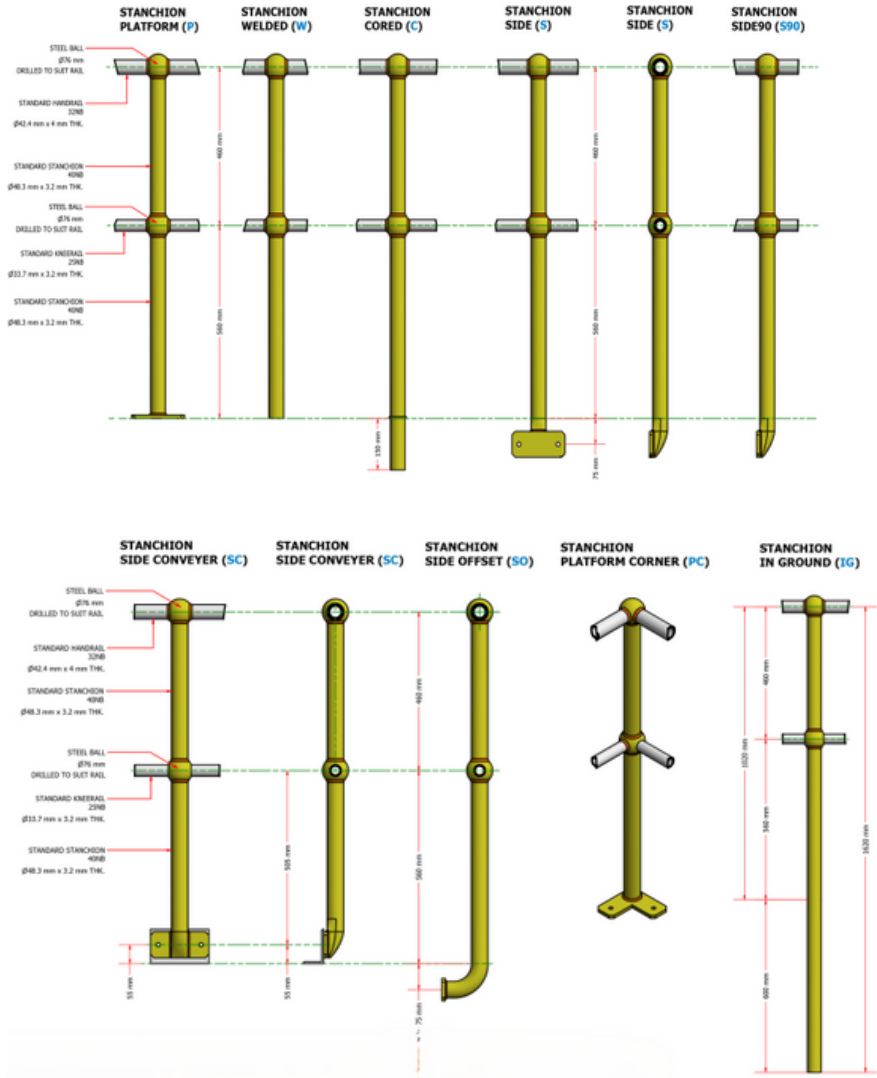
ASHMIC HANDRAIL SYSTEM



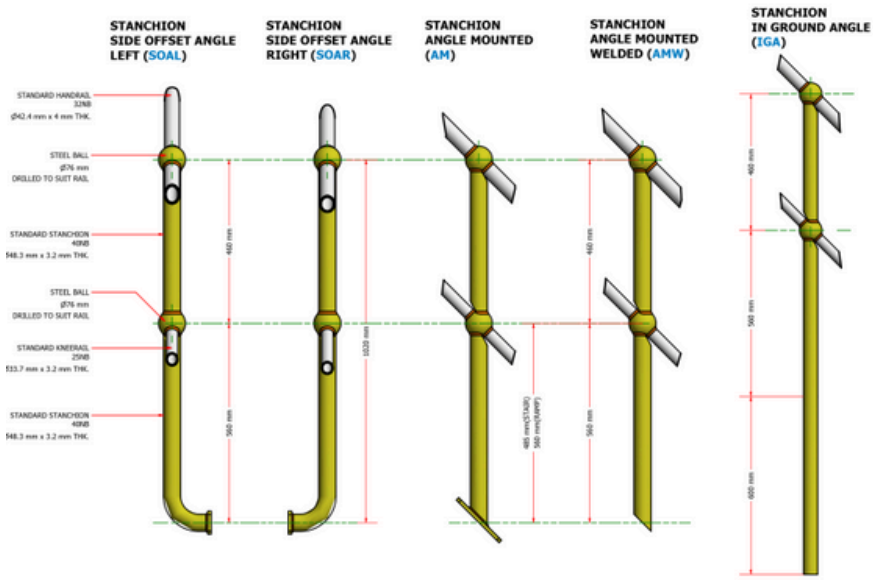
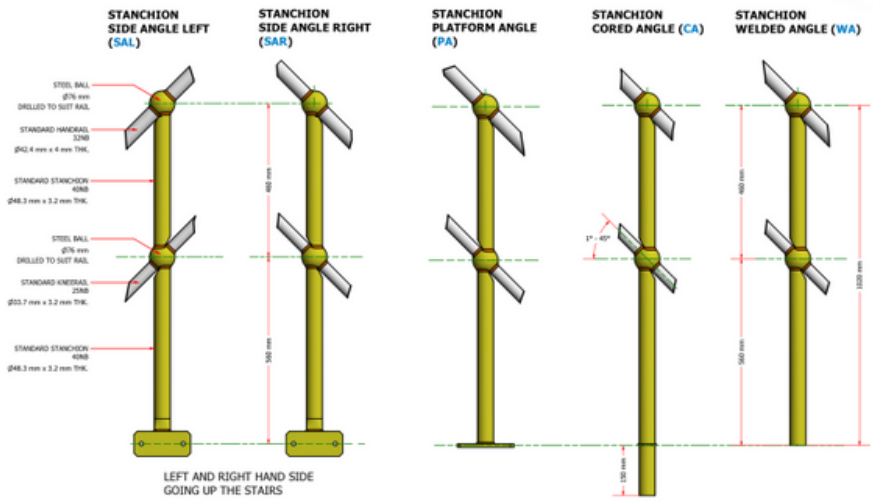
ASHMIC STANCHION PRODUCT RANGE

ASHMIC 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, petrochemical, mineral processing and heavy industries, the system is equally suited in commercial, local government and general applications.

ASHMIC 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.



ASHMIC STANCHION PRODUCT RANGE



SPECIFICATIONS

STACHIONS

Medium Duty (Standard)

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

ALUMINUM

- 50mm OD
- 42mm NB
- 76mm OD Ball

HEAVY DUTY

- 48.3mm 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 KNEERAIL

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

RAILS

Standard Handrail

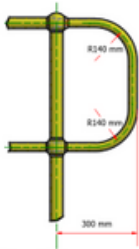
- 32mm NB
- 42.4mm OD
- 32.mm Gauge

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
	SA	Stanchion Type SA	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
	AMW	Stanchion Type AMW	4.5kg	5.05kg	1.68kg	ea
	ORP	Stanchion Type ORP	1.7kg	1.95kg	0.7kg	ea
Bends	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
	RB38	Rail Bend 38OD			0.6kg	ea
Pipe	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
	P25	Pipe 25NB	2.41kg	2.94kg		mt
Kickplate	P46	Pipe 46 OD			1.3kg	mt
	P38	Pipe 38 OD			0.97kg	mt
	K1006	Kickplate 100x6	5.32kg		1.6kg	mt

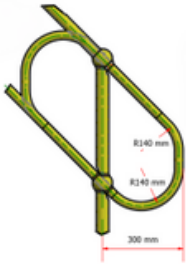


ASHMIC BENDS



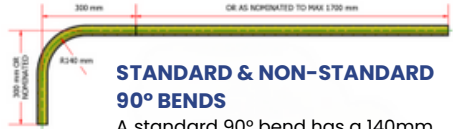
HORIZONTAL CLOSURE BENDS

Horizontal closure bends have A wall thickness of 3.2mm. A Standard 90° closure bend has A 140mm radius. Bends have 300/600mm legs at 457mm centers.



ANGLE CLOSURE BENDS

Angle closure bends have 140mm radius bends, with 300/300mm legs at 457mm centers. 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.

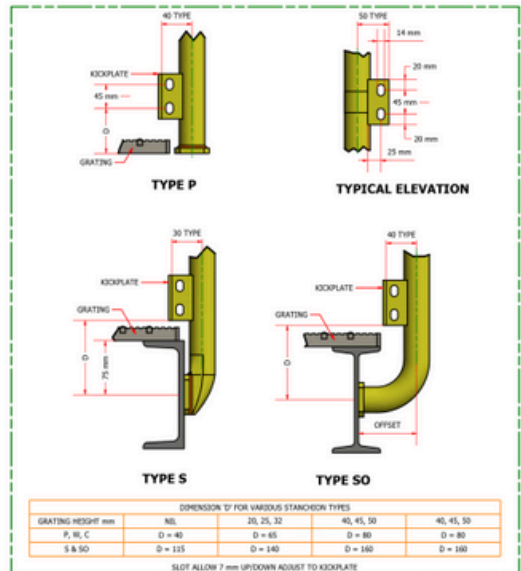
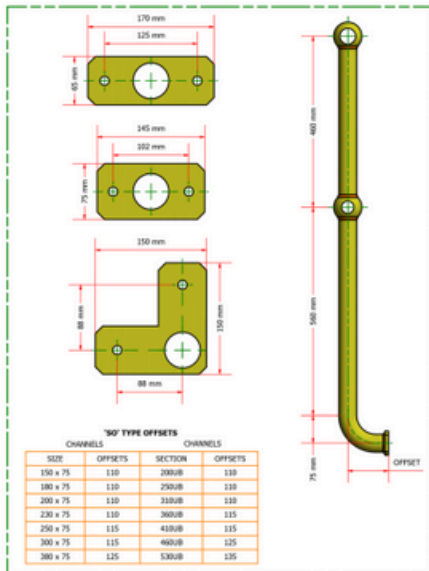


STANDARD BENDS

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

ASHMIC STEEL BASE PLATES

KICKPLATE MOUNTING BRACKETS





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