



# **GRATINGS AND STANCHIONS**

# ASHMIC GROUP

ASHMIC STEEL GROUP is a organization and the backbone of a multi million dollar company, which locates in the center of circle connecting Beijing, Tianjin, Hebei and Qingdao. We also enjoy advantages of abundant resources, right location and transportation. ASHMIC STEEL GROUP focus its business in the steel, security and construction sector.

ASHMIC STEEL GROUP, located at the birth place of steel industry in China. We have made rapid progress by carrying out such successive strategic programs as comprehensive technical renovations. Our advance equipment are up to the international standard, and our industry process have reach an advanced level in this sector.

ASHMIC STEEL GROUP always adhere to the saying "We supply high quality products with number one customer service". We continue to enhance the development ideas and improving working standards, and actively cope with various difficulties and challenges, from productivity, manufacturing, powder coating and cost control to product development and brand promotion, and continue to achieve new progress and leapfrog development, which won great attention and acclaim from overseas steel counterparts and the 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 AND 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.

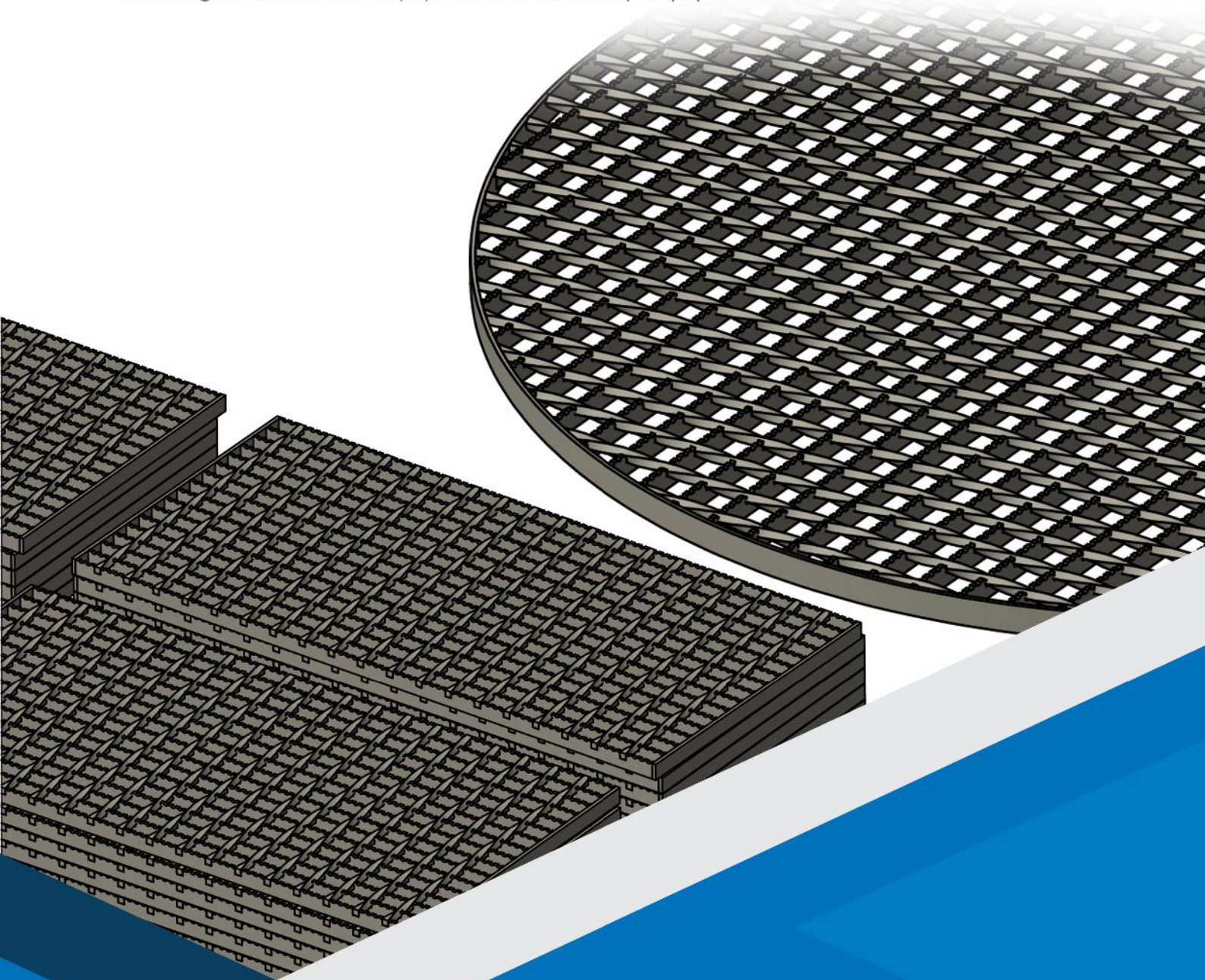


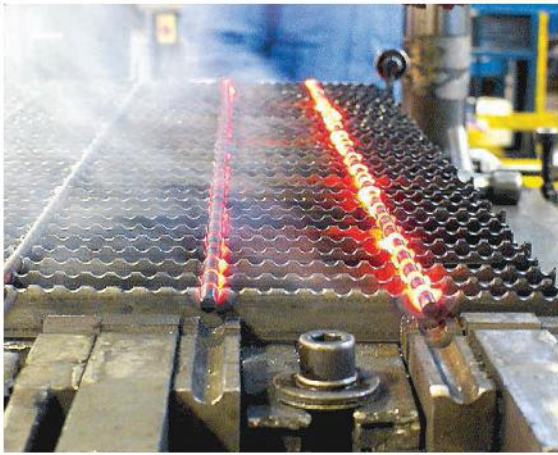
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# ASHMIC STEEL GRATING

**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** 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                    | A               | 255           | - | 1              | M        | P                | G        |
|----------------------|-----------------|---------------|---|----------------|----------|------------------|----------|
| Brand Identification | Cross Bar Pitch | Load Bar Size |   | Load Bar Pitch | Material | Load Bar Surface | 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

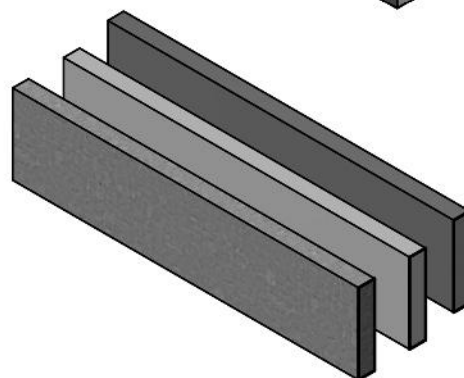
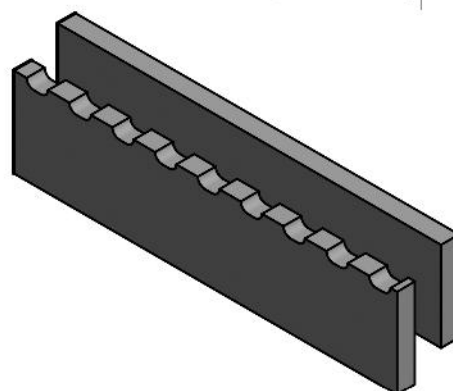
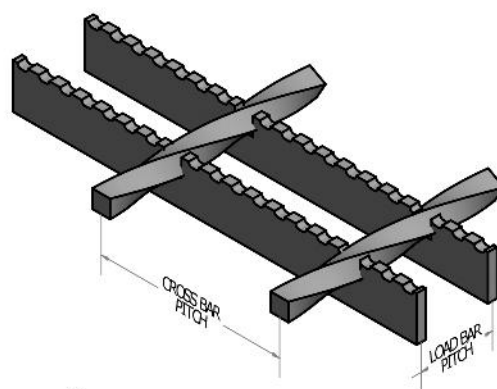
Select between Plain or Serrated load bar

**P** = Plain **S** = Serrated

## Load Bar

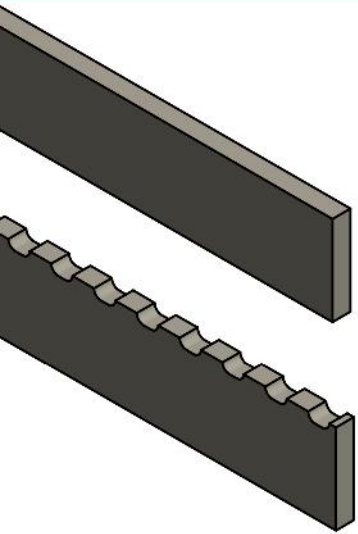
Select between Galvanized, Bitumen Dipped or Untreated Finishes.

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



# TOP TREATMENTS AND FINISHES

## TOP TREATMENTS



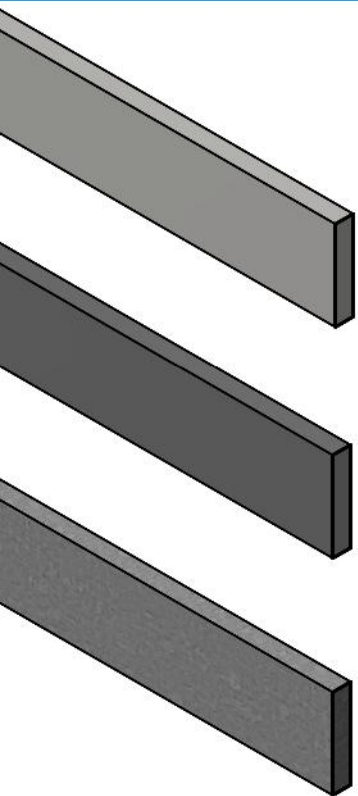
### PLAIN

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.

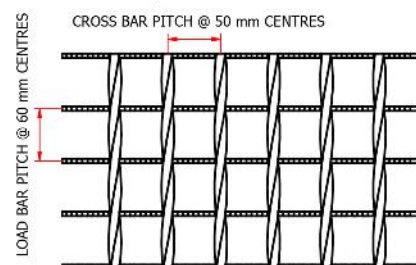
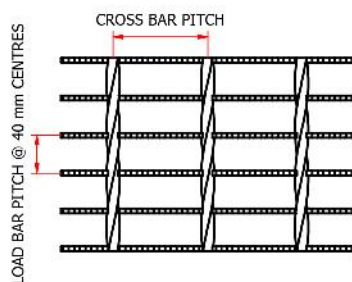
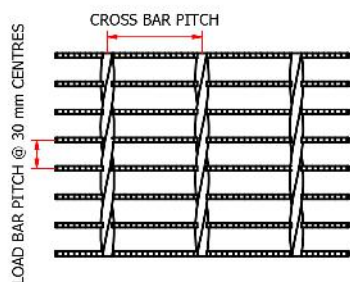
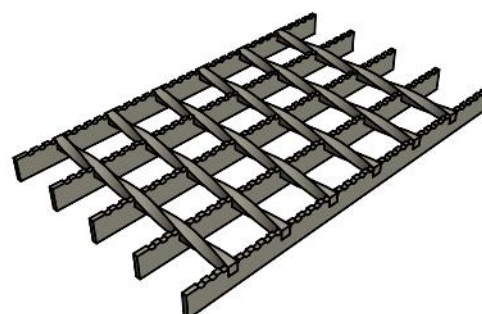
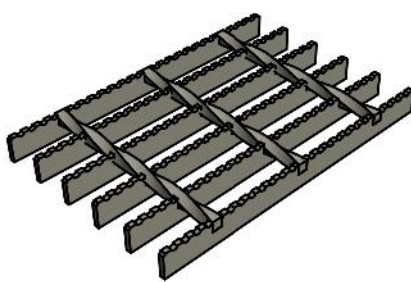
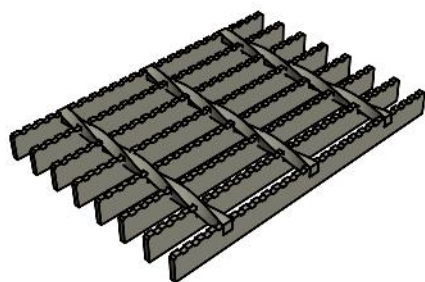
### HOT DIPPED GALVAZED

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: ASTN A123 / iso 1461.

## SERIES 1

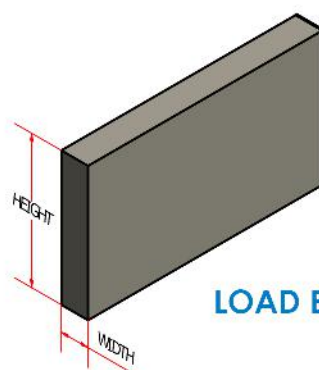
## SERIES 2

## SERIES 3



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

| LOAD BAR SIZE<br>(HEIGHT x WIDTH) | MAINTENANCE FLOORS<br>NO PUBLIC USE |      | PEDESTRIAN TRAFFIC<br>AND LIGHT USE |      | PEDESTRIAN TRAFFIC<br>AND CROWD USE |      |
|-----------------------------------|-------------------------------------|------|-------------------------------------|------|-------------------------------------|------|
|                                   | 5mm DEFLECTION SPAN @2.5kPa         |      | 5mm DEFLECTION SPAN @2kPa           |      | 5mm DEFLECTION SPAN @1kPa           |      |
|                                   | 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 |

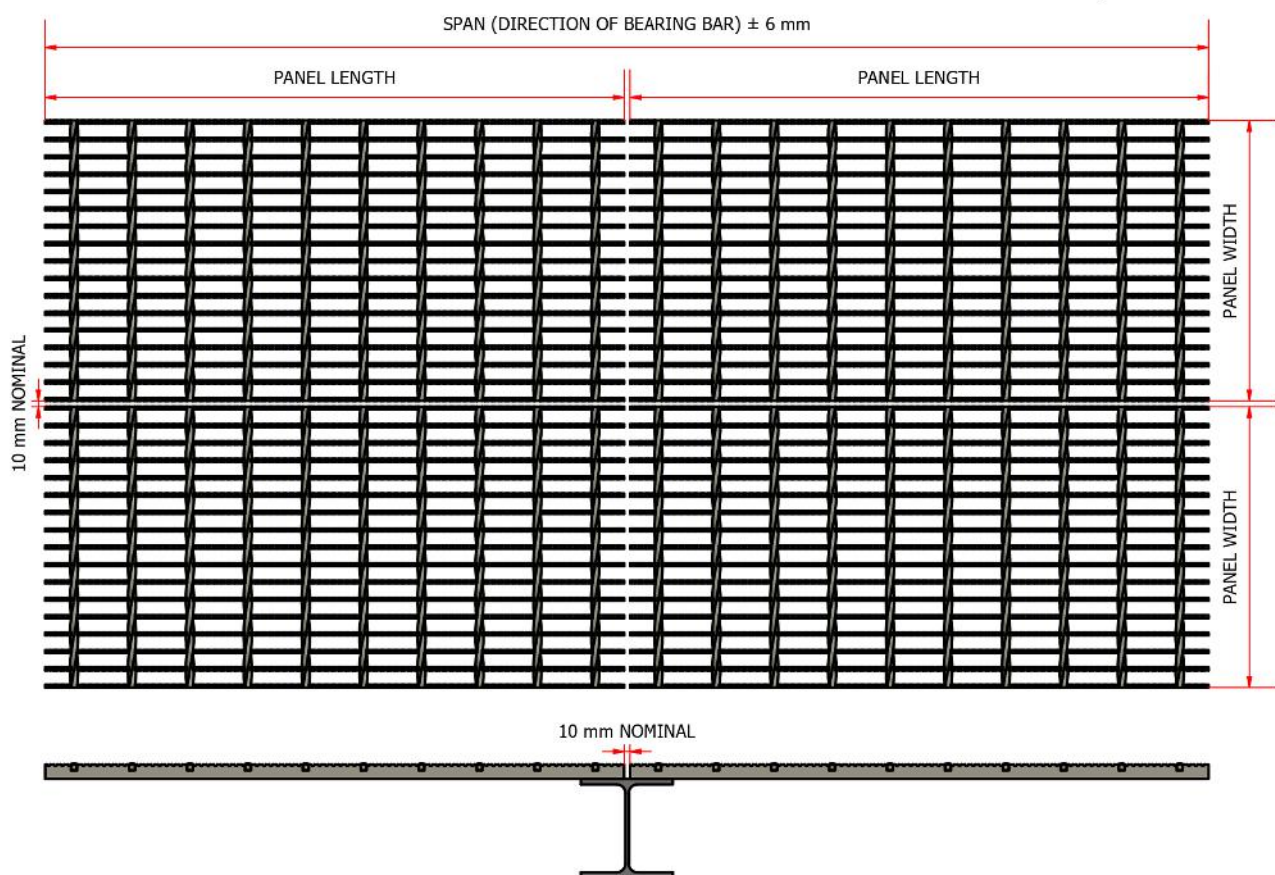
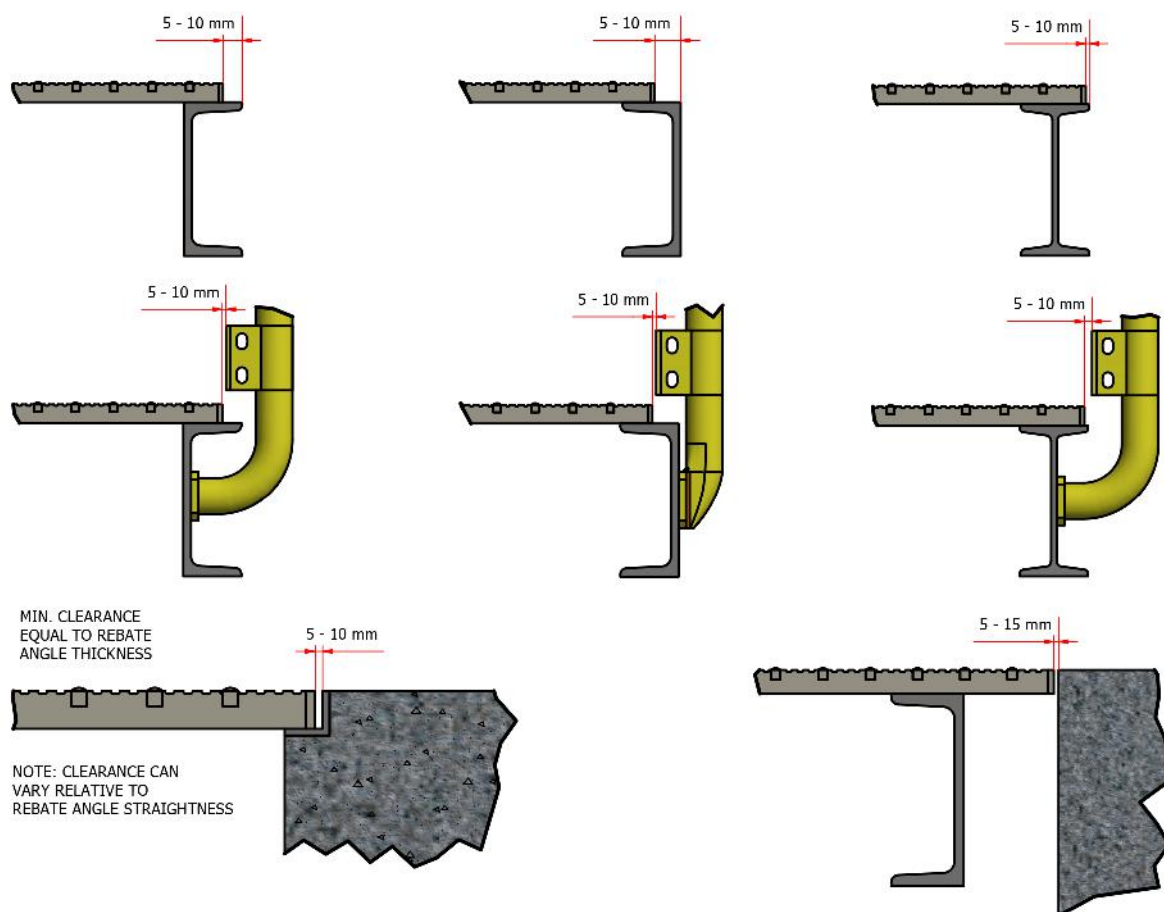


LOAD BAR SIZE

### HEAVY DUTY - MAXIMUM RECOMMENDED SPANS (in mm)

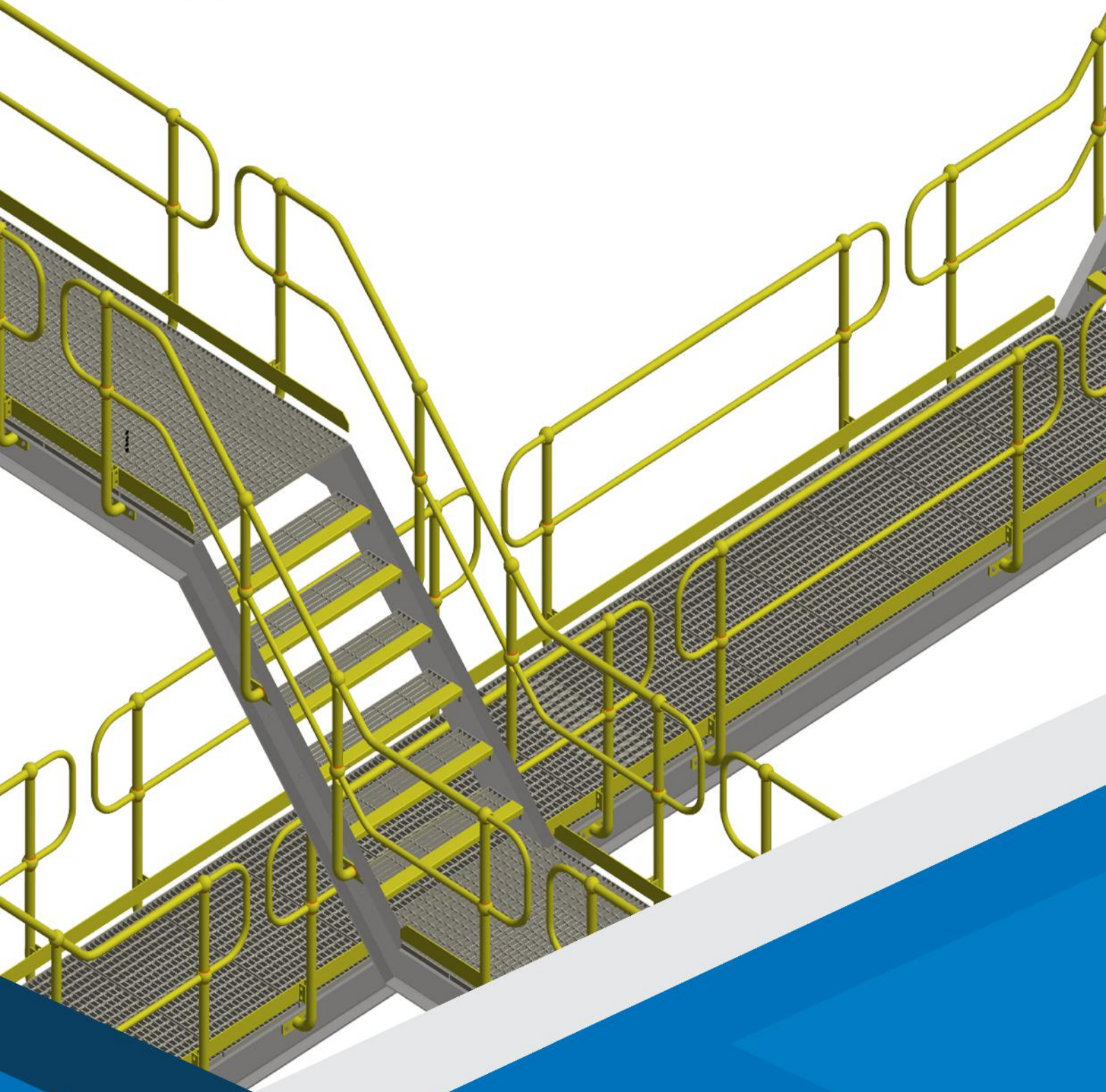
| LOAD BAR SIZE<br>(HEIGHT x WIDTH) | GENERAL FACTORIES<br>AND WORKSHOP |      |                            |      | GENERAL HEAVY LOADING AREAS<br>AND HEAVY EQUIPMENT AREAS |      |                              |      |
|-----------------------------------|-----------------------------------|------|----------------------------|------|----------------------------------------------------------|------|------------------------------|------|
|                                   | 5mm DEFLECTION SPAN @2.5kPa       |      | 10mm DEFLECTION SPAN @2kPa |      | 5mm DEFLECTION SPAN @1.5kPa                              |      | 10mm DEFLECTION SPAN @1.0kPa |      |
|                                   | 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

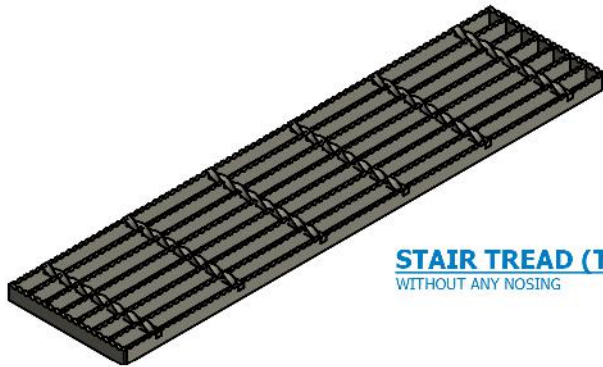


# ASHMIC STEEL STAIR TREAD

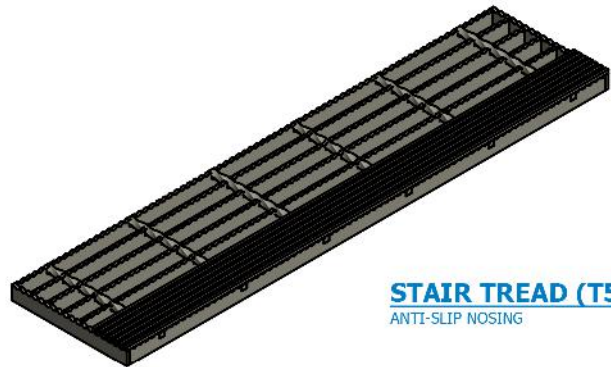
**ASHMIC Steel Stair Treads** are available in a variety of grating profiles and tread types. The most popular tread are the T1 and T6 treads.



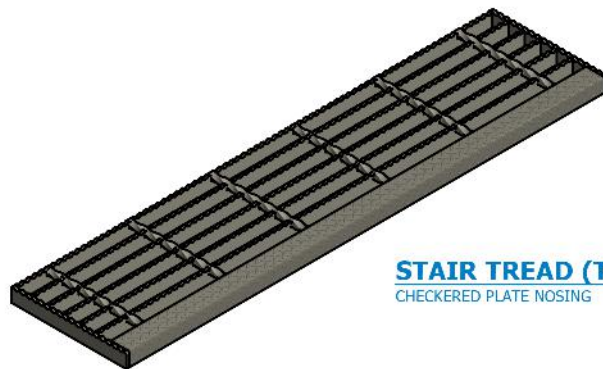
# ASHMIC Steel Stair Tread (Welded Method)



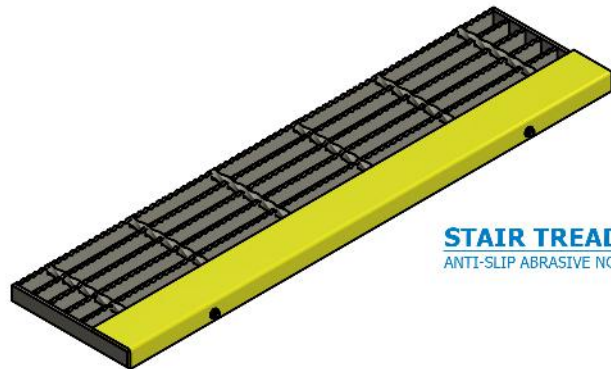
**STAIR TREAD (T1)**  
WITHOUT ANY NOSING



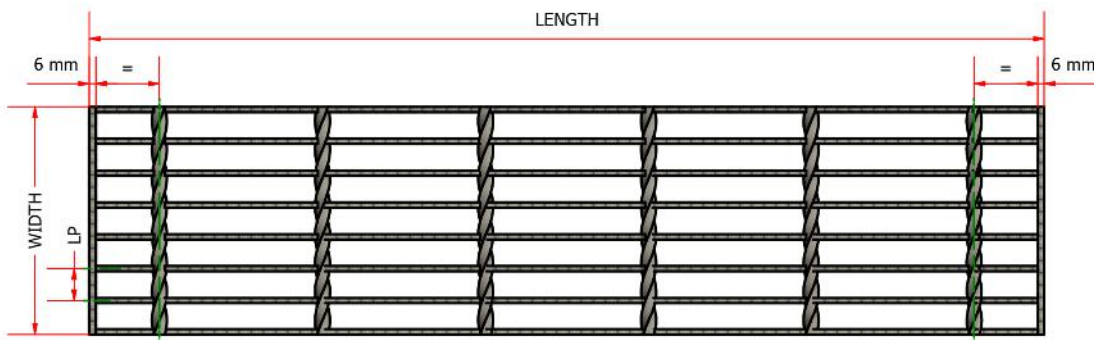
**STAIR TREAD (T5)**  
ANTI-SLIP NOSING



**STAIR TREAD (T3)**  
CHECKERED PLATE NOSING



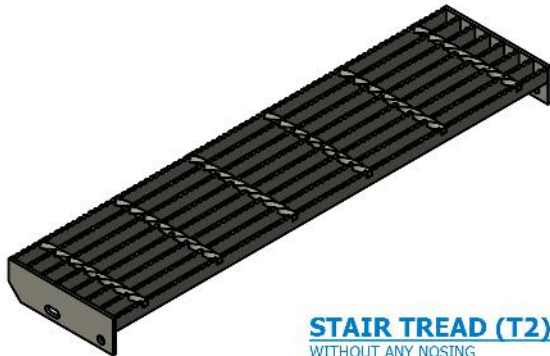
**STAIR TREAD (T7)**  
ANTI-SLIP ABRASIVE NOSING



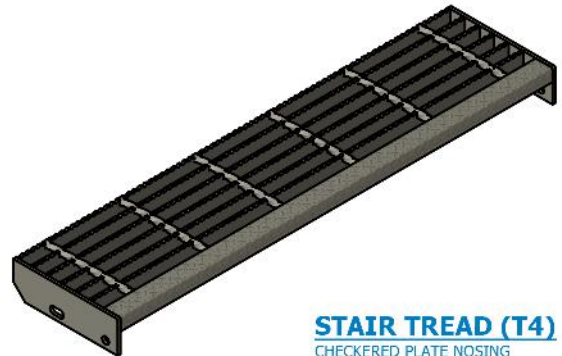
| RECOMMENDED WIDTH FOR STAIR TREADS |                      |        |        |        |        |        |        |
|------------------------------------|----------------------|--------|--------|--------|--------|--------|--------|
| BEARING BAR PITCH                  | WIDTH OF STAIR TREAD |        |        |        |        |        |        |
| 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 |

| RECOMMENDED LENGTH FOR STAIR TREADS        |                   |                   |                   |                   |
|--------------------------------------------|-------------------|-------------------|-------------------|-------------------|
| LOAD BAR DIMENSION<br>(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)



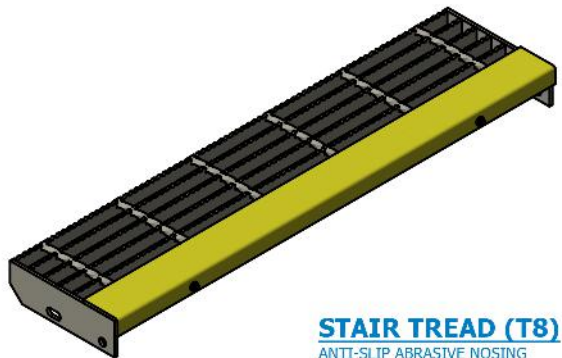
**STAIR TREAD (T2)**  
WITHOUT ANY NOSING



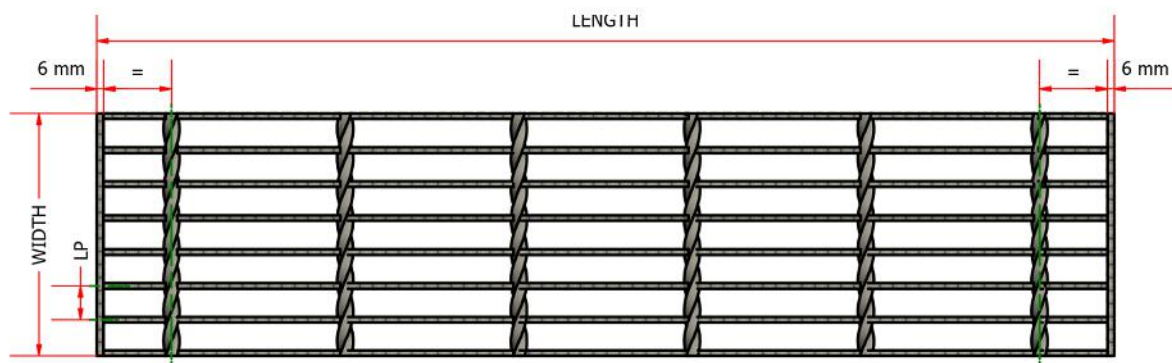
**STAIR TREAD (T4)**  
CHECKERED PLATE NOSING



**STAIR TREAD (T6)**  
ANTI-SLIP NOSING



**STAIR TREAD (T8)**  
ANTI-SLIP ABRASIVE NOSING

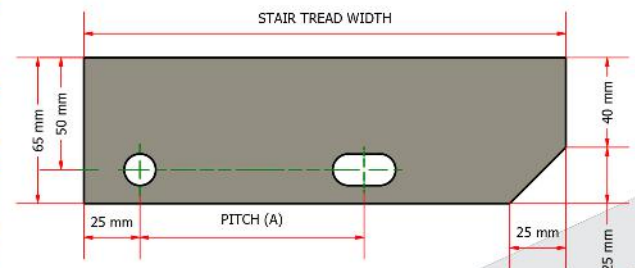


| RECOMMENDED WIDTH FOR STAIR TREADS |                      |        |        |        |        |        |        |
|------------------------------------|----------------------|--------|--------|--------|--------|--------|--------|
| BEARING BAR PITCH                  | WIDTH OF STAIR TREAD |        |        |        |        |        |        |
| 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 |

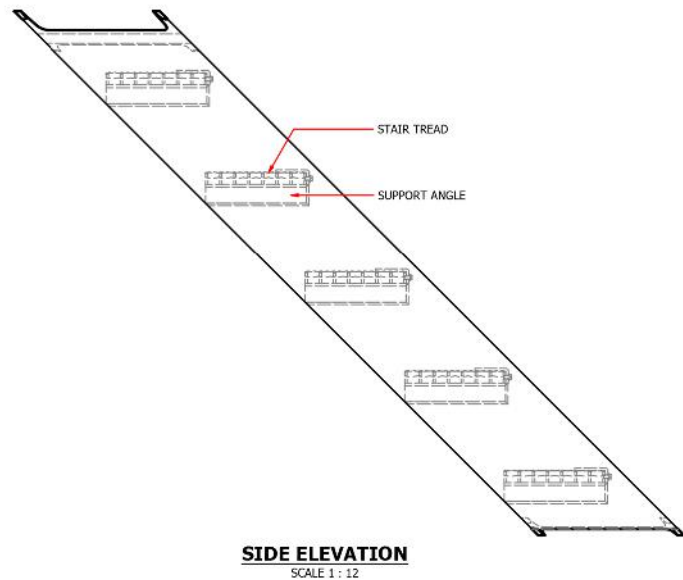
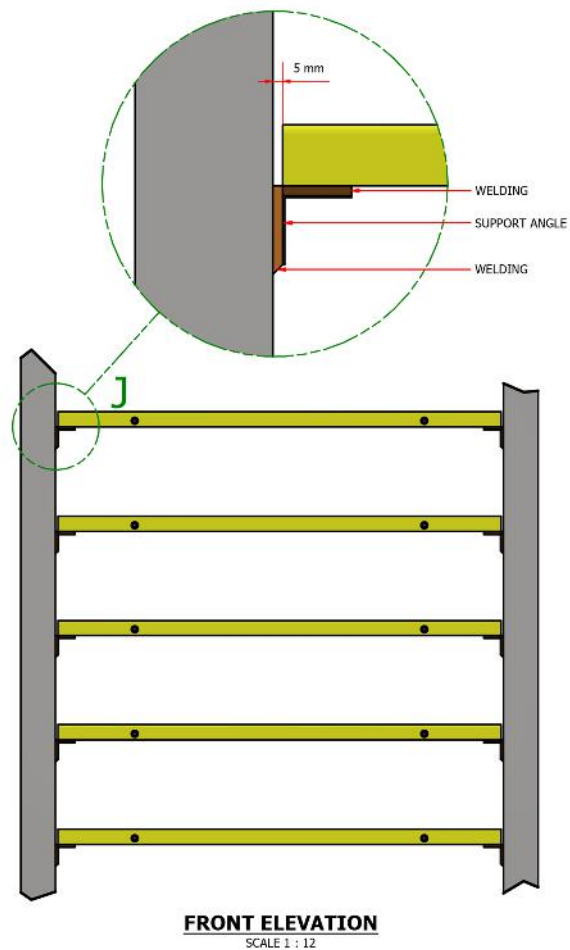
| ANCHORING WITH BOLTS               |       |       |       |        |        |        |        |
|------------------------------------|-------|-------|-------|--------|--------|--------|--------|
| CENTER DISTANCE FOR HOLE (PITCH A) | 45 mm | 75 mm | 75 mm | 100 mm | 125 mm | 150 mm | 150 mm |

| 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  |

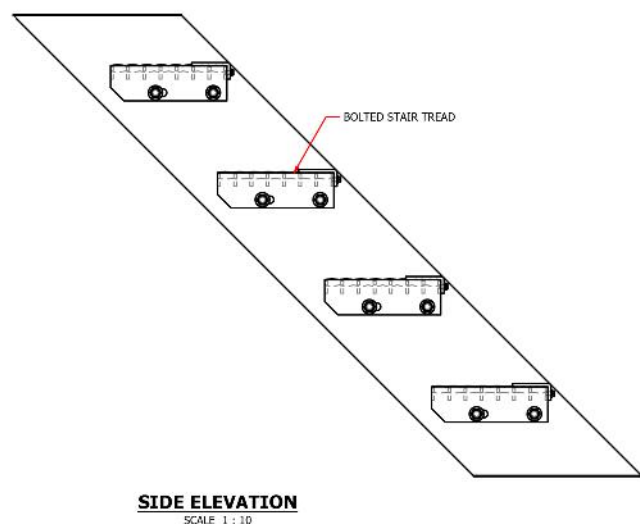
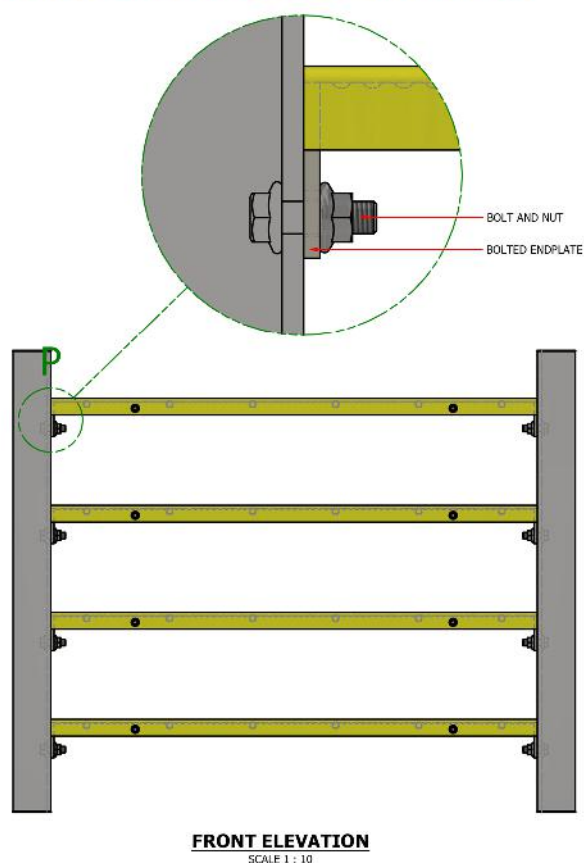
## BOLTED ENDPLATE DETAILS



# WELDING DETAILS



# BOLTING DETAILS



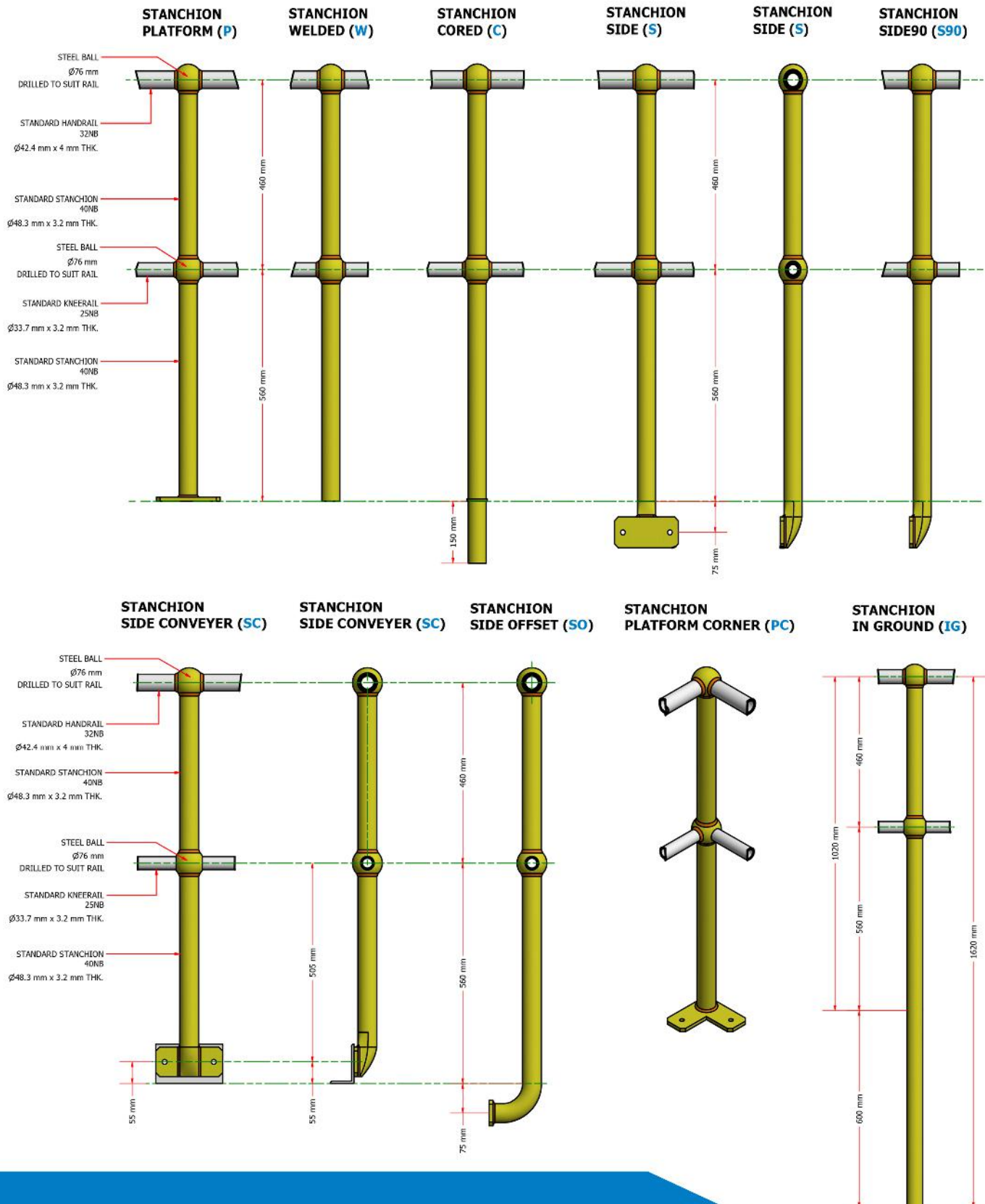
# ASHMIC HANDRAIL SYSTEM



# ASHMIC STANCHION PRODUCT RANGE

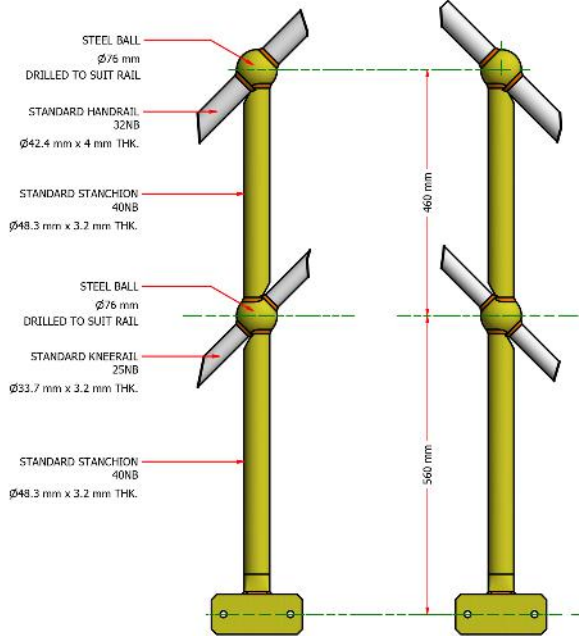
**ASHMIC** Grating tubular ball handrail system is a safe, strong and simple barrier solution. The complete system lends itself to be quickly and economically erected in either a workshop or on site. Manufactured in accordance with AS1657 and used extensively throughout the mining, petrochemical, mineral 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.

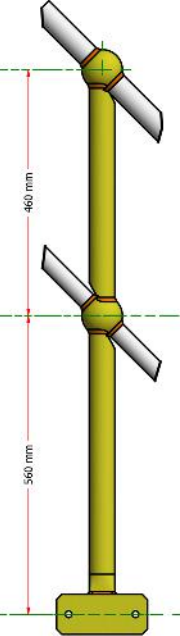


# ASHMIC STANCHION PRODUCT RANGE

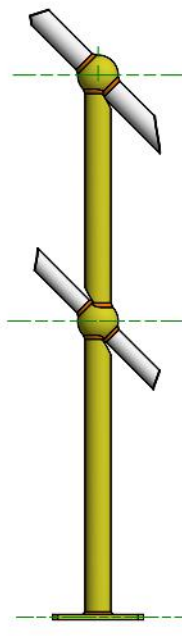
**STANCHION  
SIDE ANGLE LEFT  
(SAL)**



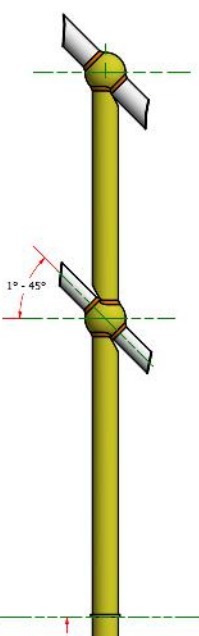
**STANCHION  
SIDE ANGLE RIGHT  
(SAR)**



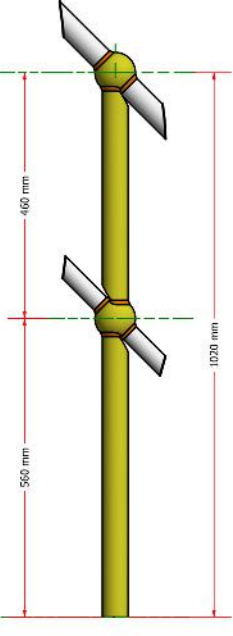
**STANCHION  
PLATFORM ANGLE  
(PA)**



**STANCHION  
CORED ANGLE (CA)**

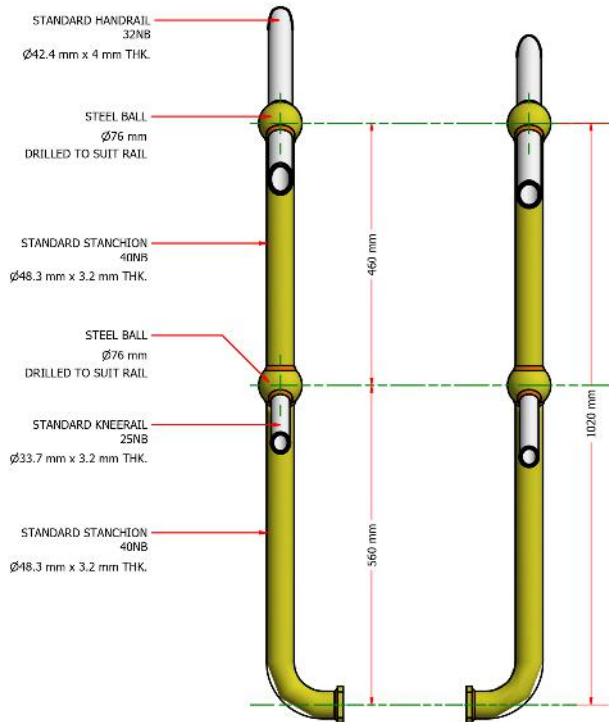


**STANCHION  
WELDED ANGLE (WA)**

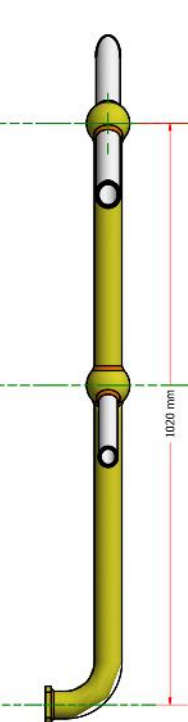


LEFT AND RIGHT HAND SIDE  
GOING UP THE STAIRS

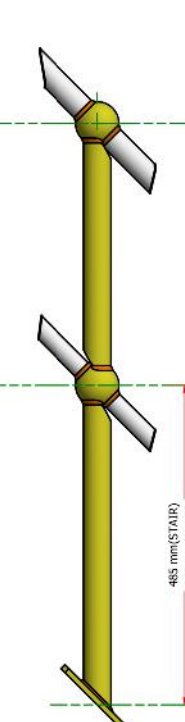
**STANCHION  
SIDE OFFSET ANGLE  
LEFT (SOAL)**



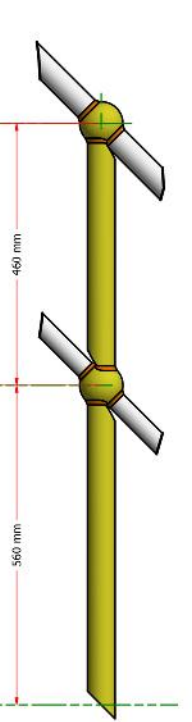
**STANCHION  
SIDE OFFSET ANGLE  
RIGHT (SOAR)**



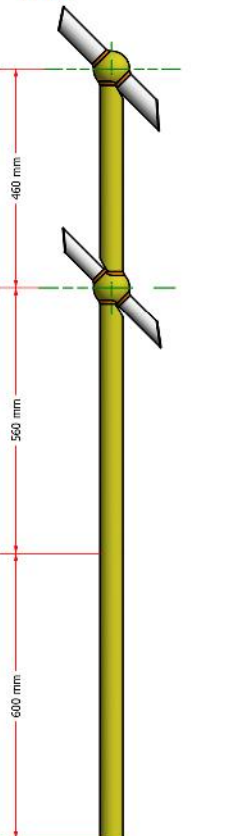
**STANCHION  
ANGLE MOUNTED  
(AM)**



**STANCHION  
ANGLE MOUNTED  
WELDED (AMW)**



**STANCHION  
IN GROUND ANGLE  
(IGA)**



# ASHMIC HANDRAIL SYSTEM

## SPECIFICATIONS

### STACHIONS

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

### ALUMINUM

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

### HEAVY DUTY

- 48.3mm 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

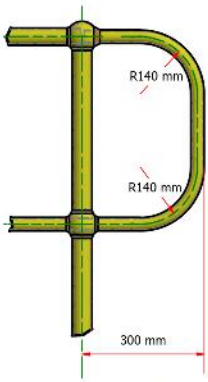
- Standard handrail
- 32mm NB
  - 42.4mm OD
  - 3.2mm Gauge

## 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  |
|            | ORS          | Stanchion Type ORS       | 2kg              | 2.35kg             | 0.88kg | ea  |
|            | ORH          | Stanchion Type ORH       | 1.5kg            | 1.65kg             | 0.59kg | ea  |
| Bends      | 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  |
|            | CBA          | Closure Bends Angled     | 2.79kg           | 3.42kg             |        | ea  |
|            | CBH          | Closure Bends Horizontal | 2.82kg           | 3.76kg             |        | ea  |
| Pipe       | P32          | Pipe 32NB                | 3.1kg            | 3.8kg              |        | mt  |
|            | P25          | Pipe 25NB                | 2.41kg           | 2.94kg             |        | mt  |
|            | P46          | Pipe 46 OD               |                  |                    | 1.3kg  | mt  |
|            | P38          | Pipe 38 OD               |                  |                    | 0.97kg | mt  |
| Kickplate  | K1006        | Kickplate 100x6          | 5.32kg           |                    | 1.6kg  | mt  |

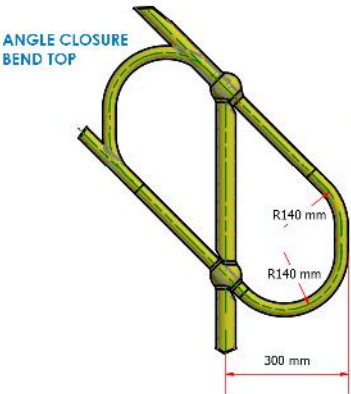


ASHMIC BENDS



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.



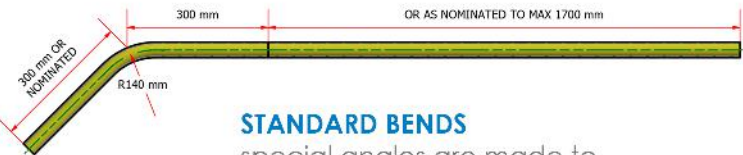
ANGLE CLOSURE BENDS

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

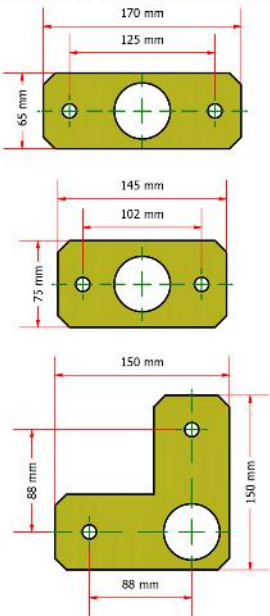
A standard 90° bend has a 140mm radius with 300mm Legs. A non-standard 90° Bend has a 140mm.



STANDARD BENDS

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

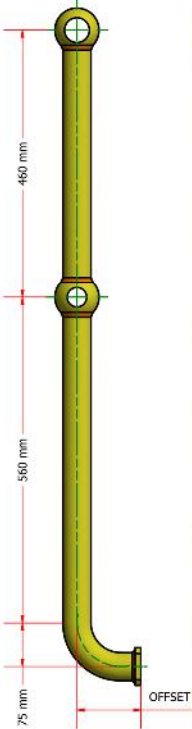
ASHMIC STEEL BASE PLATES



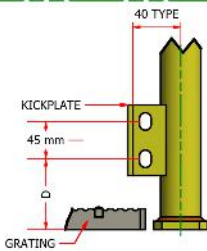
'SO' TYPE OFFSETS

CHANNELS CHANNELS

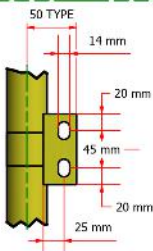
| SIZE     | OFFSETS | SECTION | OFFSETS |
|----------|---------|---------|---------|
| 150 x 75 | 110     | 200UB   | 110     |
| 180 x 75 | 110     | 250UB   | 110     |
| 200 x 75 | 110     | 310UB   | 110     |
| 230 x 75 | 110     | 360UB   | 115     |
| 250 x 75 | 115     | 410UB   | 115     |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



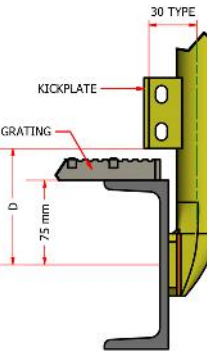
KICKPLATE MOUNTING BRACKETS



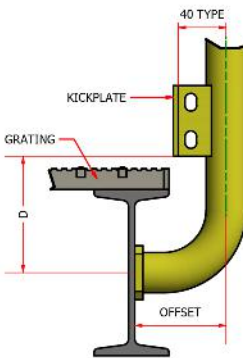
TYPE P



TYPICAL ELEVATION



TYPE S



TYPE SO

| DIMENSION 'D' FOR VARIOUS STANCHION TYPES |         |            |            |            |
|-------------------------------------------|---------|------------|------------|------------|
| GRATING HEIGHT 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 7 mm UP/DOWN ADJUST TO KICKPLATE



MALAYSIA | CHINA | SOUTH EAST ASIA | AUSTRALIA | AMERICAS | EUROPE | MIDDLE EAST

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