



The **Complete** Grating and Handrail Supplier



HK Metal Products

Established 1965

Pty Ltd

Forge Welded Steel

Stair Treads

Handrails

Drainage Products

Service

Design & Layout



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The **Complete** Grating and Handrail Supplier

Design and Layout

HK Offer a complete layout service - from structural drawings or from your layout drawings



Comprehensive Design Service

All our finished products comply with Australian Standards



Our Mission:

To be regarded as a competitive, quality-conscious and responsive national supplier of steel grating products, handrails and supporting services - design, selection advice and layout.

If you need more detailed information or advice please talk to one of our technical sales staff or visit our website: www.hkmetalproducts.com.au



Grating cut to any shape

Contents:

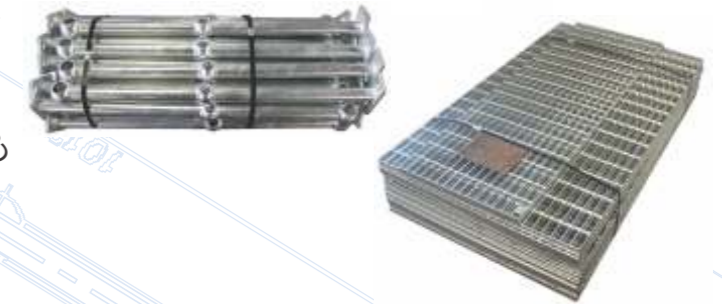
1. Grating - General Specifications
2. Simplified Grating Selection Guide
3. Stair Treads
4. Accessories
5. Handrail - general specifications
- 6 Tubular handrail system



Friendly Professional Service



Conveniently Packaged and Labelled



Convenience

Finished products ready for delivery - all panels are tagged for easy identification.

Handrail Accessories

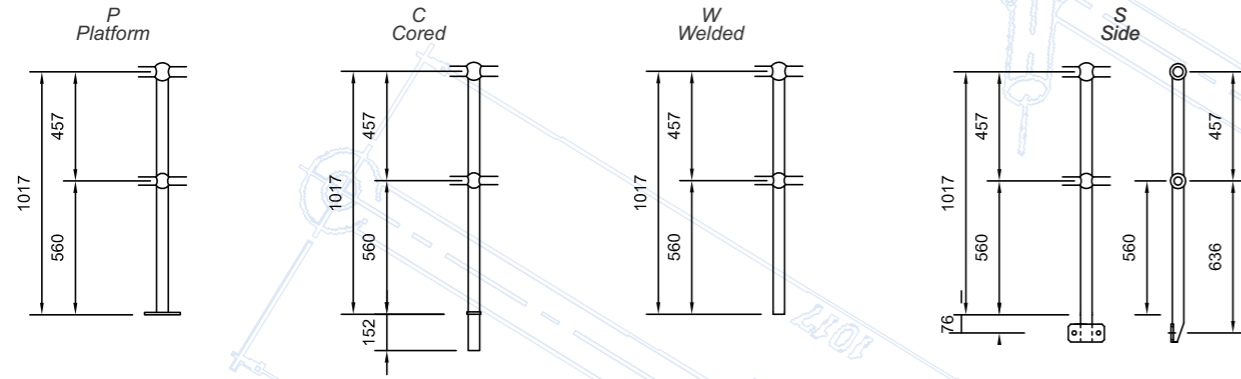


Tubular Handrail System

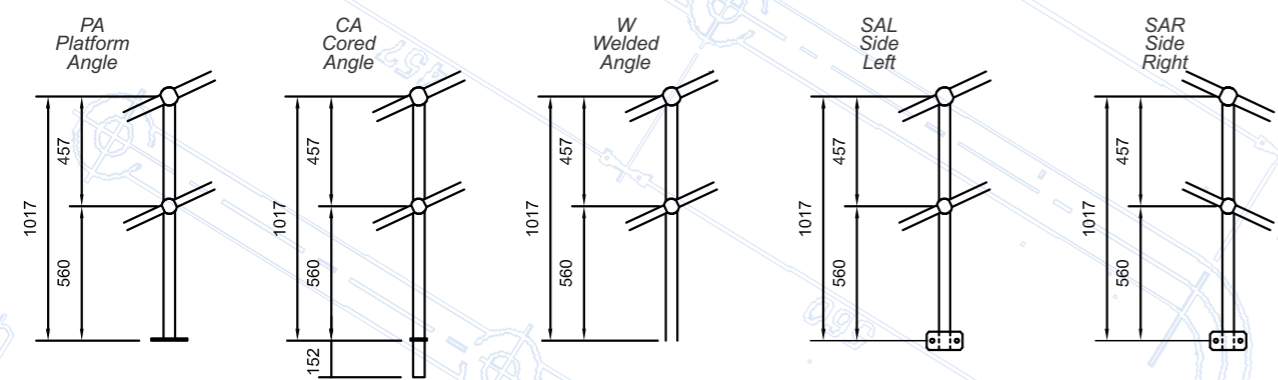


6. Tubular Handrail System

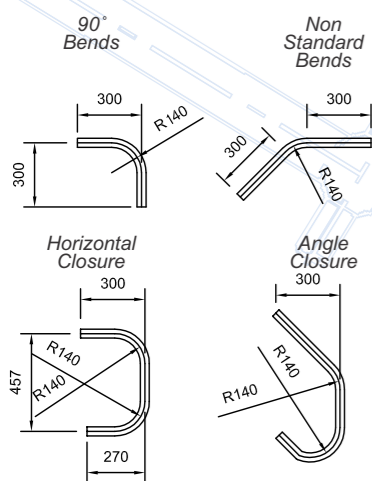
Tubular Stanchions



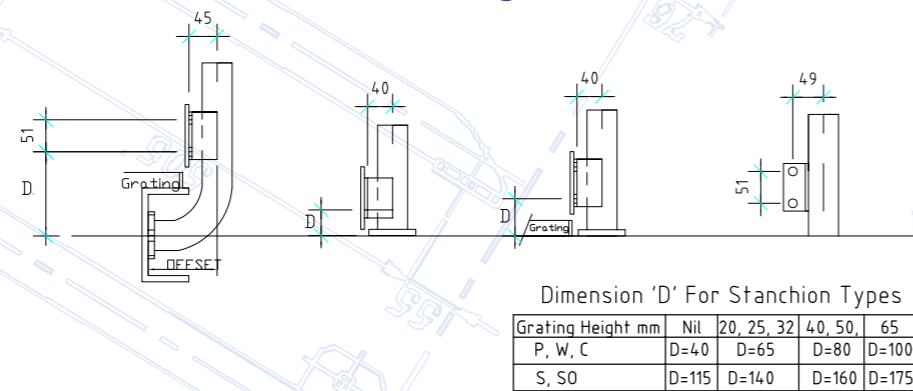
Tubular Stanchions



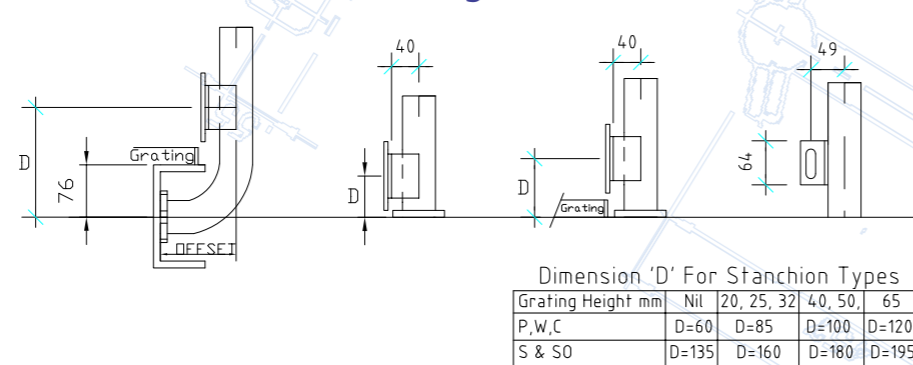
Bends and Closures



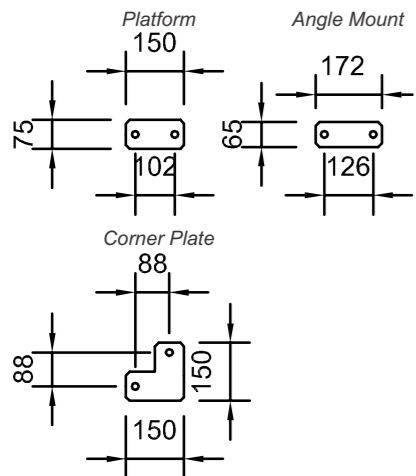
Two Hole Kick Plate Mounting Bracket Detail



Slotted Kick Plate Mounting Bracket Detail



Base Plates



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1. Grating - General Specifications

Stock Panel Sizes (Series 1 and Series 2)

| | |
|----------|-------------|
| Series 1 | 995 x 5800 |
| Series 2 | 1005 x 5800 |

Surface Treatments

| | |
|------------|-----------------------|
| Standard | mill finish ('black') |
| Galvanised | to AS/NZS 4680:1999 |

Standard Manufacturing Tolerances (all dimensions in mm)

| | |
|-----------------------------------|--|
| Overall dimensions and squareness | width, length and diagonal +0.00 -6.00 |
| Transverse bow | ±10.00 per 1000 width |
| Cross bar spacing | ±6.00 end cross bars in 1500 length |
| Cross bar penetration | +2.0 - 0.0 |
| Load bar lean | 1/10 |
| Longitudinal bow | 1/200 length |
| Cross bar alignment | ±5.00 from 90° |
| Transverse Bow | ±5.00 from 90° |

2. Simplified - Grating Load selection Guide

The following table provides a simple way of selecting grating for walkway applications.

For a given load bar size the maximum span specified is within the design parameters specified by AS 4300:1987 (5mm deflection at 4kPa uniformly distributed load).

| Product Code | Load Bar size mm | Series 1 Steel | | Series 2 Steel | |
|--------------|------------------|------------------------|--------------|------------------------|--------------|
| | | Mass KG/m ² | Maximum Span | Mass KG/m ² | Maximum Span |
| HKF 203 | 20 x 3 | 19.5 | 1073 | 15.5 | 998 |
| HKF 205 | 20 x 5 | 29.9 | 1219 | 23.4 | 1134 |
| HKF 253 | 25 x 3 | 23.4 | 1268 | 18.5 | 1180 |
| HKF 255 | 25 x 5 | 36.4 | 1441 | 28.3 | 1341 |
| HKF 323 | 32 x 3 | 28.9 | 1526 | 22.6 | 1420 |
| HKF 325 | 32 x 5 | 45.6 | 1734 | 35.2 | 1614 |
| HKF 403 | 40 x 3 | 35.1 | 1804 | 27.3 | 1679 |
| HKF 405 | 40 x 5 | 56.1 | 2050 | 43.0 | 1908 |
| HKF 455 | 45 x 3 | 62.6 | 2239 | 47.9 | 2084 |
| HKF 505 | 45 x 5 | 69.2 | 2424 | 52.8 | 2255 |
| HKF 555 | 55 x 3 | 75.5 | 2603 | 57.7 | 2243 |
| HKF 655 | 55 x 5 | 88.9 | 2951 | 67.6 | 2746 |

For more detailed information on safe loads and deflections for load bars please visit our website: www.hkmetalproducts.com.au

or contact our technical sales staff on +61 3 9580 0146

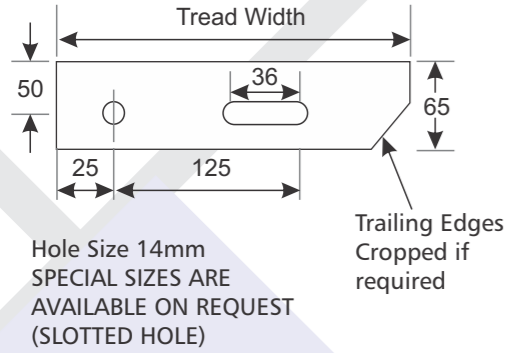


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3. Steel Stair Treads

| Steel | Maximum Span | |
|---------------|--------------|----------|
| | Series 1 | Series 2 |
| Load Bar (mm) | | |
| 25 x 3 | 550 | 450 |
| 25 x 5 | 900 | 750 |
| 32 x 5 | 1300 | 1200 |

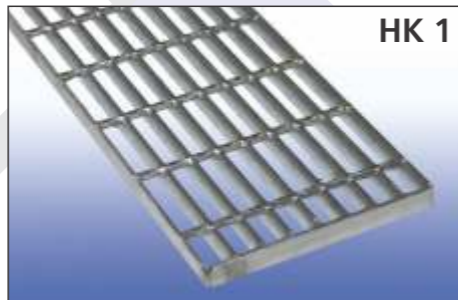
Bolted End Plate Detail



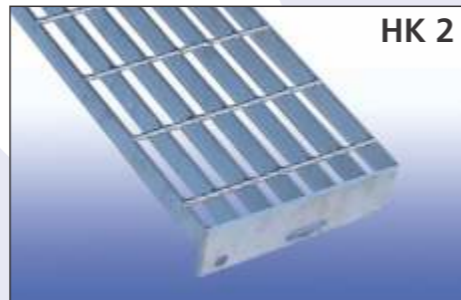
| Standard Widths for Treads without Nosings | | | | | | | |
|--|-----|-----|-----|-----|-----|-----|-----|
| Series 1 | 125 | 155 | 185 | 215 | 245 | 275 | 305 |
| Series 2 | 125 | 165 | | 205 | 245 | 285 | 325 |

| Standard Widths for Treads with Nosings | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|
| Series 1 | 125 | 155 | 185 | 215 | 245 | 275 | 305 |
| Series 2 | 115 | 155 | | 195 | 235 | 275 | 315 |

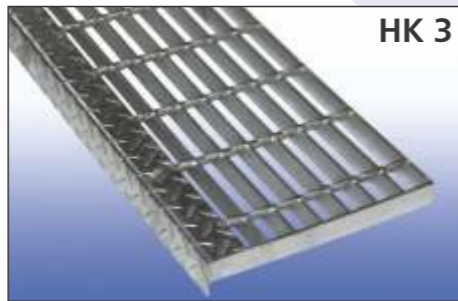
There are many variations of Design available which are not shown here, please advise us of your specific requirements when ordering



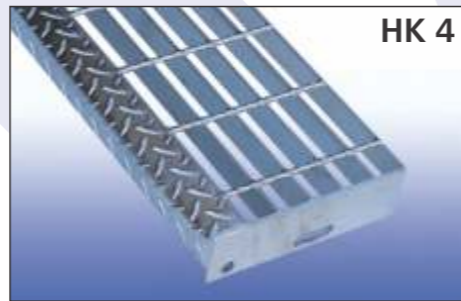
HK 1
WELDED fixing, banded ends, no nosing



HK 2
BOLTED fixing, holed end plates, no nosing



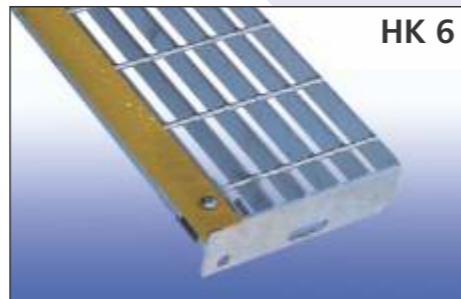
HK 3
WELDED fixing, banded ends, floor plate nosing



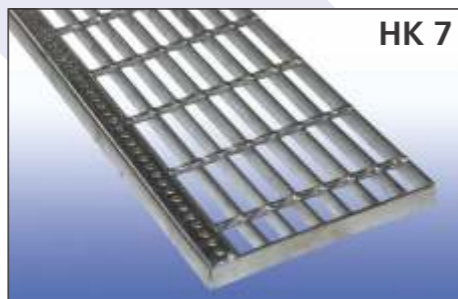
HK 4
BOLTED fixing, holed end plates, floor plate nosing



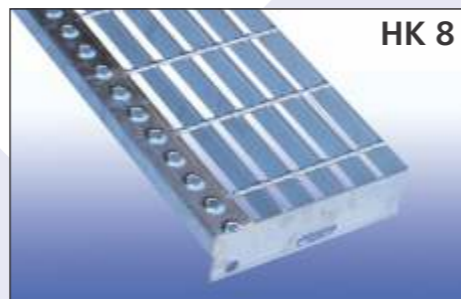
HK 5
WELDED fixing, banded ends abrasive nosing



HK 6
BOLTED fixing, holed end plates, abrasive nosing



HK 7
WELDED fixing, banded ends, perforated plate nosing



HK 8
WELDED fixing, holed end plates, perforated plate nosing



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4. Accessories

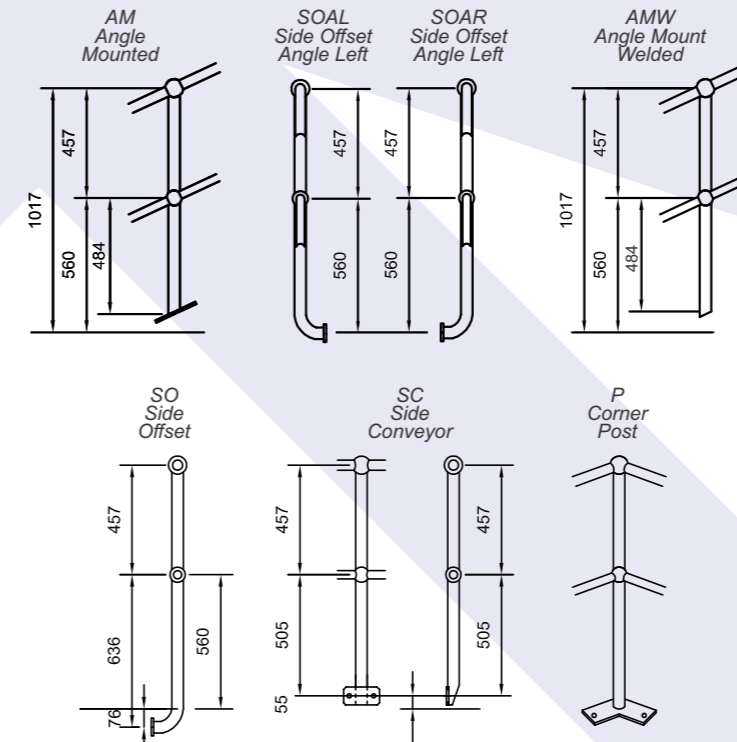
Fastening Clips



Universal Clip suits Series 1 and 2 with toe under steelwork

6. Tubular Handrail System

Tubular Stanchions



5. Handrail - General Specifications

Stanchions

Standard - 48.3 OD 40 NB gauge 3.2
Heavy Duty - 48.3 OD 40 NB gauge 4.0

Base Plates

Type AM Dimensions 65 x 172 x 10
Holes 17.5 @ 126 centres

All others Dimensions: 75 x 150 x 10
Holes 17.5 @ 102 centres

Kickplate Mounting Brackets

Dimensions 40 x 40 x 6 angle 76 long
14mm diameter holes @ 52 centres

Rail Specifications

Handrail 32NB (42.4 OD) Med Gauge
Kneerail 25NB (33.7 OD) Med Gauge

Finish

All standard handrail components are hot dipped galvanised to AS 4680 -1999. Stanchions are available in raw finish if required

Stanchion Spacing

HK Metals tubular handrail system is manufactured to comply with AS 1657 - 1985 which recommends a maximum spacing of 2 metres



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