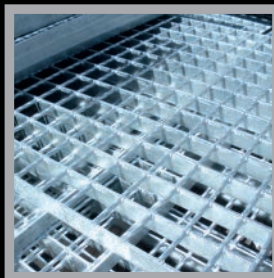


**Bendigo
Metals**

**Bendigo
Metals**

BENDIGO GRATING & HANDRAIL SYSTEMS



SUPERIOR SERVICE AND QUALITY PRODUCTS



INSIDE THIS BROCHURE

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Bendigo Metals manufacture the complete walkway system, supply structural steel to the mining and energy sectors and are part of the Hartway galvanizing group.

Manufacture of walkway systems include industrial floor grating, stanchions, rails, bends, stair treads, kick-plates and also, if required, the structural steel to support the Bendigo tubular handrail system, floor grating and stairtreads.

The standard type stanchions detailed in this catalogue are readily available and we can also supply custom types to suit individual requirements.

The **Bendigo handrail system** can be used in a wide variety of applications, including bridges, mining conveyors, sewage treatment plants, schools, stairways, safety barriers, power stations and commercial and residential developments.

Our handrail system is designed to comply to AS1657 and the welding on the ball to post connection complies to AS/NZS1554.1

Note : Product certification of our product is available upon request.

Bendigo Metals

6 Sherman Street

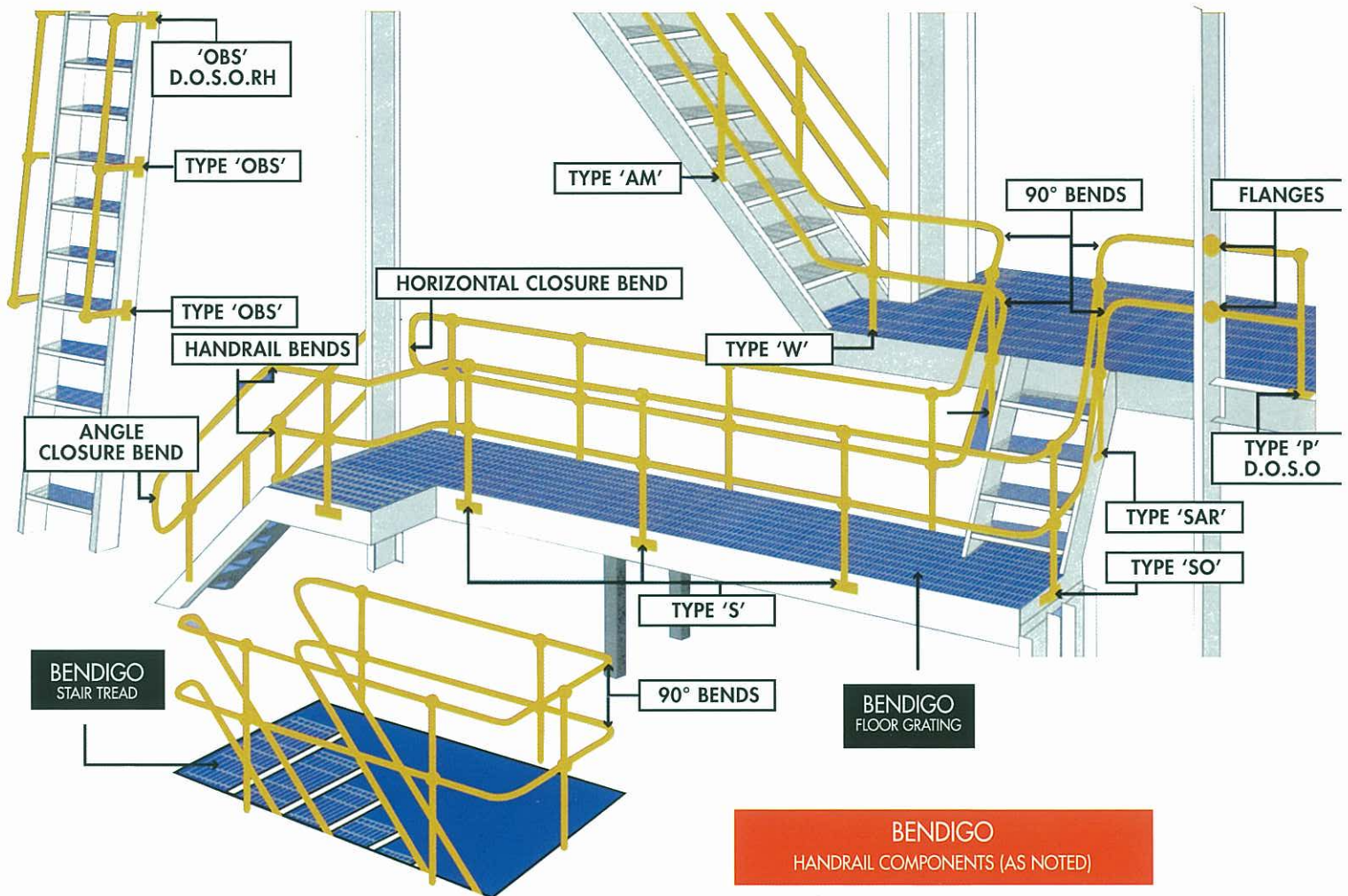
Canning Vale WA 6155

Email: fabrication@hartway.com.au

Bendigo maintains a policy of continued improvement on products. As a result, details on products are subject to change. Please check with your Bendigo representative before relying on the details in this brochure.

The information contained herein does not constitute an offer by the manufacturers nor do they guarantee its accuracy or completeness in describing the performance or suitability of their products.

THE WALKWAY SYSTEM



BENDIGO HANDRAIL COMPONENTS (AS NOTED)

BENDIGO METALS manufacture a complete system of handrails, grating and stair treads.

This diagram shows **BENDIGO** Stanchions, Rail Bends, **BENDIGO** Floor Grating and Stairtreads to suit every application.

PRODUCTS SPECIFICATIONS

STANCHIONS

STANDARD

48.3 OD - 40mm NB
Gauge 3.2mm

HEAVY DUTY

48.3 OD - 40mm NB
Gauge 4.0mm

BALL SIZE: 76mm OD

BASE PLATES

All Base Plates other than AM Type

Specification - 75mm x 146mm x 10mm
Holes - 18.0mm dia At 102mm centres

Type AM

Specification - 65mm x 172mm x 10mm
Holes - 18.0mm dia at 126mm centres

NOTE: Non-Standard Base Plates manufactured to order.

KICKPLATE MOUNTING BRACKETS

Specification - 40mm x 5mm x 50mm long angle with
14mm dia x 26 long slotted hole to suit 100mm Kickplate.

NOTE: Non-Standard Kickplate Mounting Brackets
manufactured to order

RAIL SPECIFICATIONS

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

NOTE: Standard Stanchions are drilled to suit the rail
specification above.

Special Orders can be drilled as follows:

Handrail: From 25mm NB (33.7mm OD) to
40mm NB (48.3mm OD)

Kneerail: From 20mm NB (26.9mm OD) to
40mm NB (48.3 OD)

FINISH

All items are hot dipped galvanized to
Australia Standard AS/NZS 4680
ALTERNATE FINISH: Painting

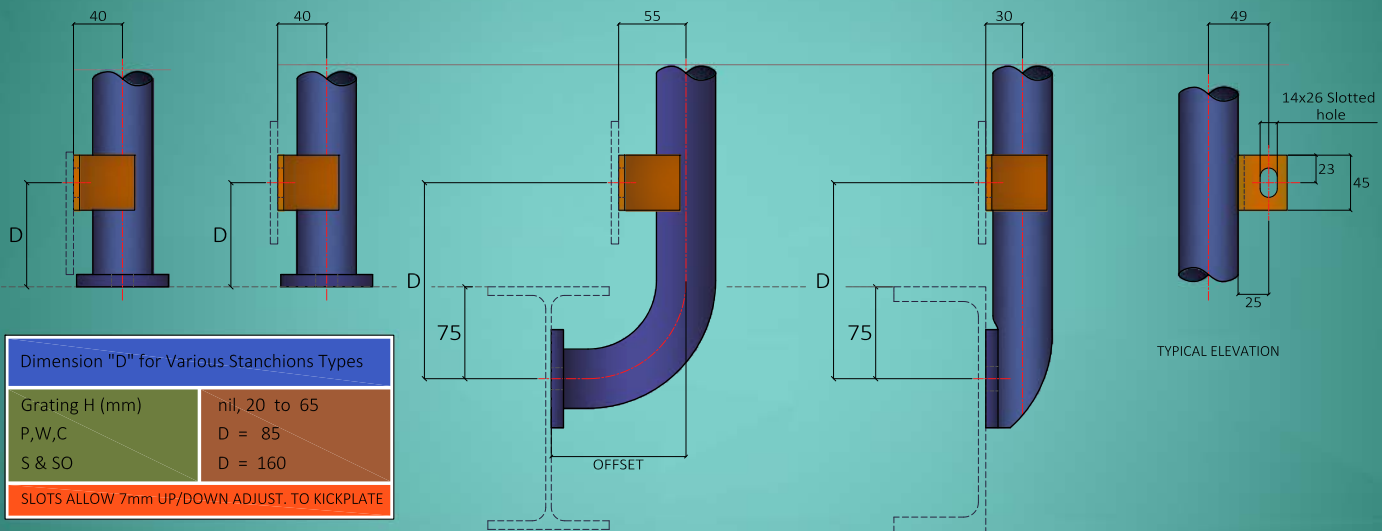
NOTE: Items are available in 'black' steel, however
this is not recommended as the system would lack
internal protection.

STANCHION SPACING

Bendigo Handrail System is manufactured to comply
with Australian Standard AS 1657 of 1992.
Para 3.4 of this standard recommends a maximum
spacing of stanchions of 2 metres for our Standard
Range.

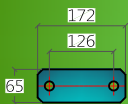
| STANDARD | | | HEAVY DUTY | | |
|----------|-------|--------|------------|-------|--------|
| TYPE | GAUGE | WEIGHT | TYPE | GAUGE | WEIGHT |
| P | 3.2MM | 4.75kg | P | 4.0mm | 5.30kg |
| PA | " | 4.75kg | PA | " | 5.30kg |
| C | " | 4.85kg | C | " | 5.40kg |
| CA | " | 4.85kg | CA | " | 5.40kg |
| W | " | 3.85kg | W | " | 5.40kg |
| WA-AMW | " | 3.85kg | WA-AMW | " | 5.40kg |
| S | " | 5.00kg | S | " | 5.60kg |
| SO | " | 5.35kg | SO | " | 5.85kg |
| SA-SC | " | 4.85kg | SA-SC | " | 5.40kg |
| SOA | " | 5.30kg | SOA | " | 5.60kg |
| AM | " | 4.45kg | AM | " | 5.00kg |
| OB | " | 3.85kg | OB | " | 4.40kg |
| OBA | " | 3.85kg | OBA | " | 4.40kg |
| OBP | " | 1.60kg | OBP | " | 1.90kg |
| OBS | " | 2.00kg | OBS | " | 2.30kg |
| OBH | " | 1.30kg | OBH | " | 1.60kg |
| SHS | " | 5.30kg | IG | " | 7.10kg |
| IG | " | 6.05kg | | | |

KICK-PLATE MOUNTING BRACKET

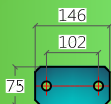


BASE PLATES

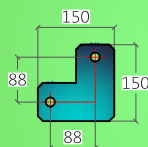
ANGLE MOUNTED ONLY



STANDARD



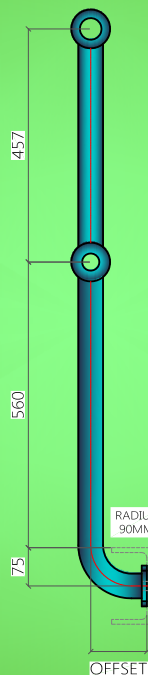
CORNER



HOLE DIMENSIONS 18mm TYPICAL

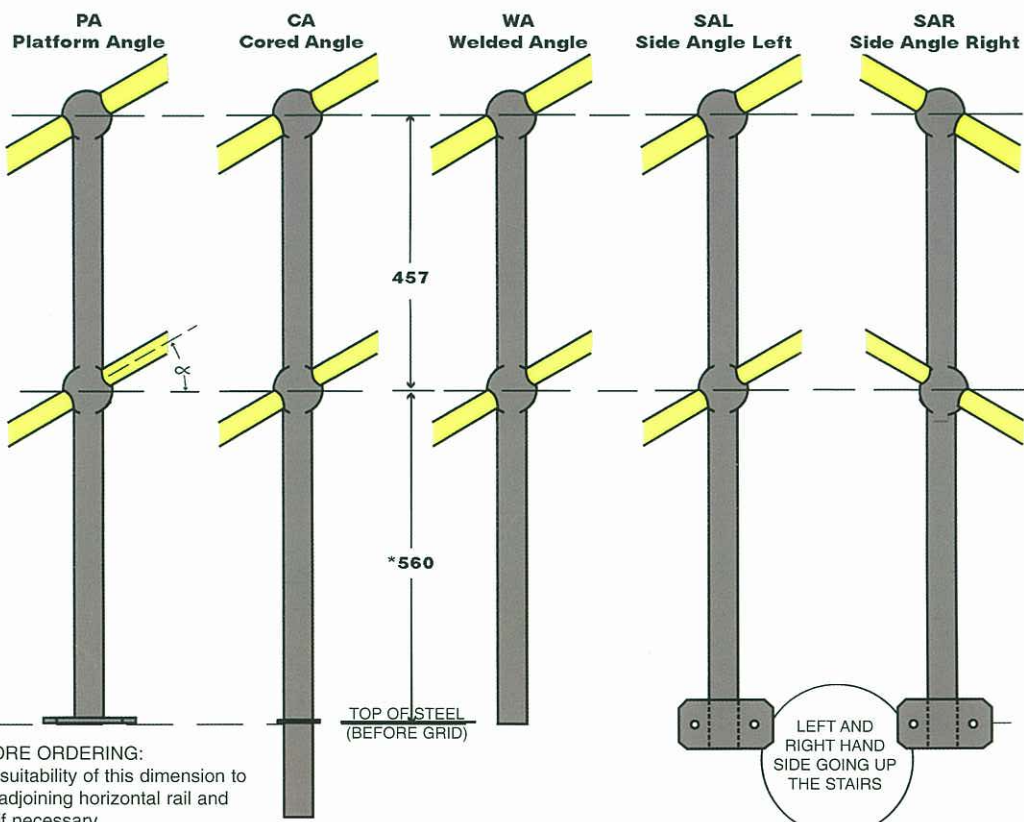
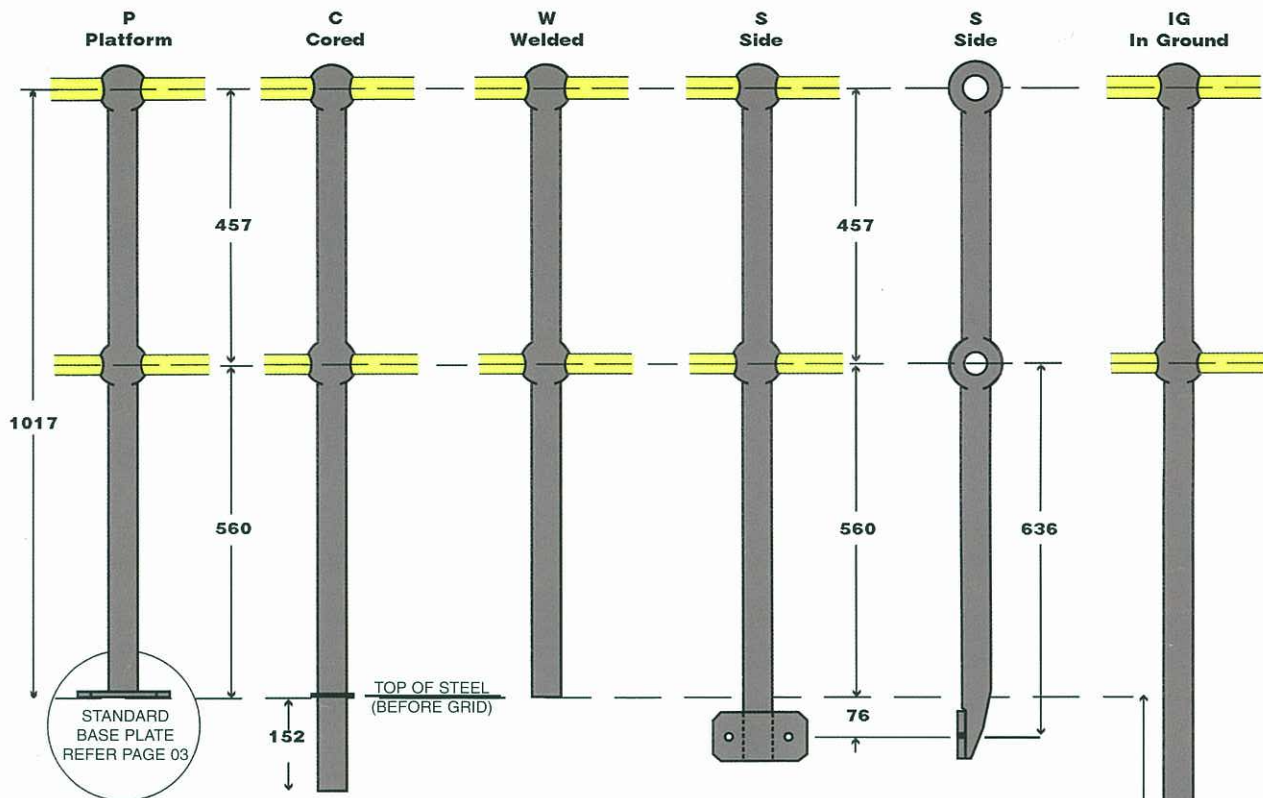
'SO' TYPE OFFSETS

| CHANNELS | | UNIVERSAL BEAMS | |
|----------|--------|-----------------|--------|
| SIZE | OFFSET | SECTION | OFFSET |
| 150x75 | 110 | 200UB | 110 |
| 180x75 | 110 | 250UB | 110 |
| 200x75 | 110 | 310UB | 130 |
| 230x75 | 110 | 360UB | 130 |
| 250x90 | 130 | 410UB | 130 |
| 300x90 | 130 | 460UB | 130 |
| 380x100 | 130 | 530UB | 140 |



STANDARD STANCHIONS

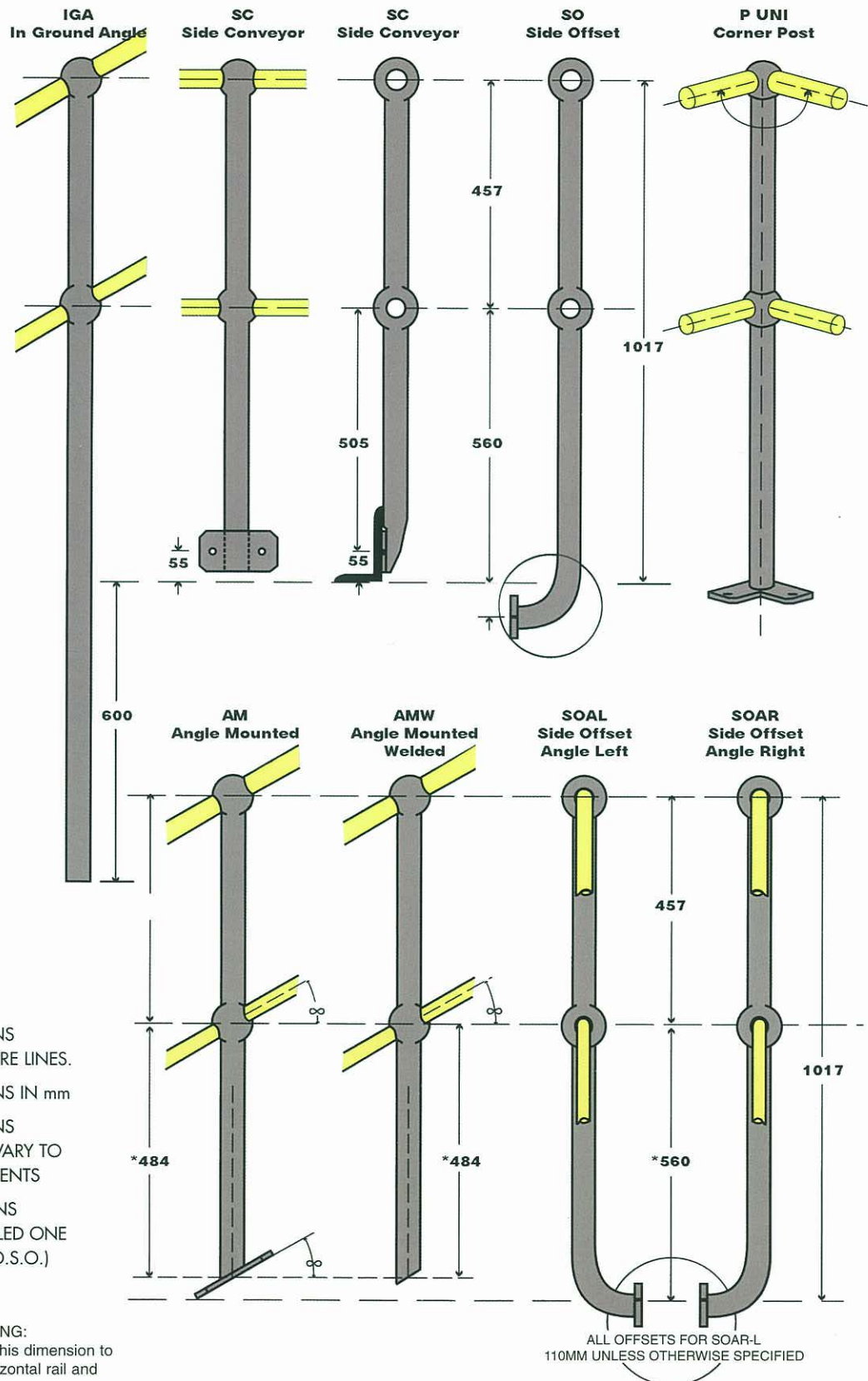
MANUFACTURED TO AS1657-1992

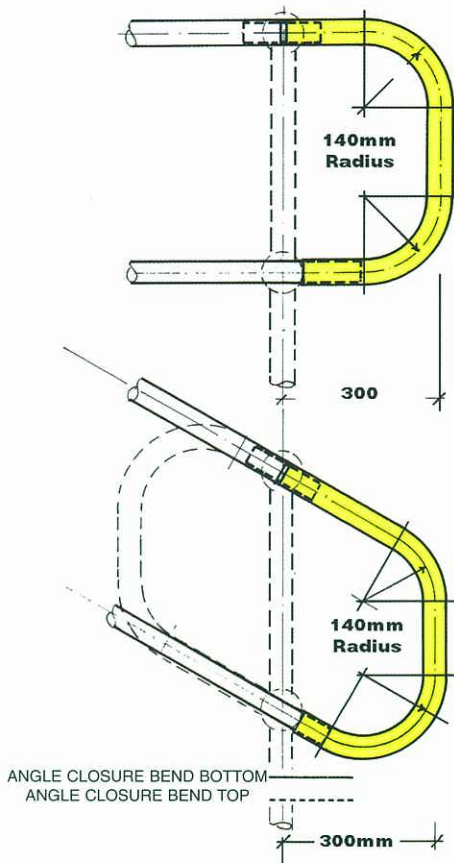


ALL STANDARD ANGLE STANCHIONS RANGE FROM 35° TO 45°. STANCHIONS CAN BE MADE TO ORDER TO SUIT ANY DESIGNATED ANGLE UPON REQUEST.

STANDARD STANCHIONS

MANUFACTURED TO AS1657-1992



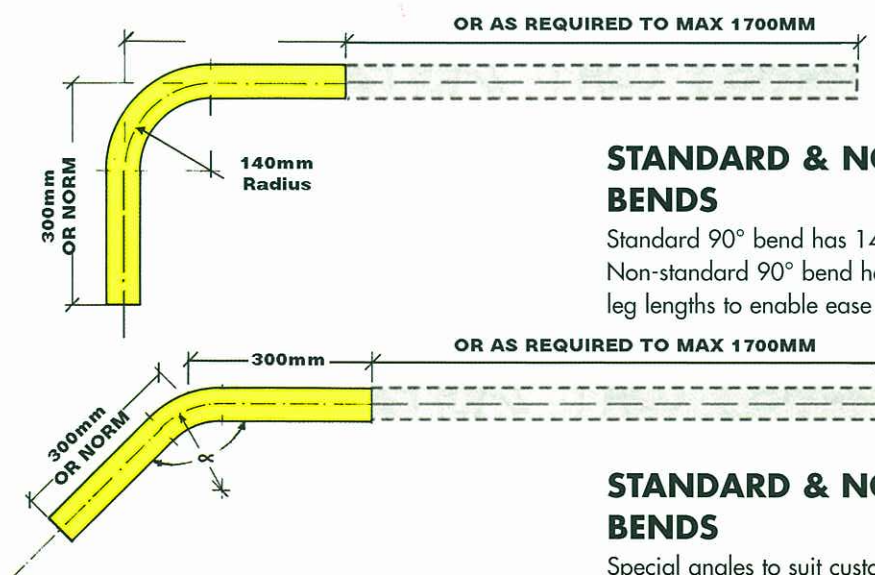


HORIZONTAL CLOSURE BENDS

Horizontal closure bends are all manufactured from galvanized tube with wall thickness of 3.2mm. Standard 90° closure bend has 140mm radius. Bends have 300/260mm legs at 457mm centres. NOTE: Position of horizontal closure bend to (a) stanchion, (b) handrail, (c) kneerail. Also note use of slipjoint on handrail join, and extension of kneerail giving support to bottom leg of bend.

ANGLE CLOSURE BENDS

Angle closure bends have 140mm radius bends with 300/260mm legs at 457mm centres. Angle closure bends are made to order with angle nominated to any angle between 1° and 45°. NOTE: Position of angle closure bend to (a) stanchion, (b) handrail, (c) kneerail. Also note use of slipjoint on handrail join, and extension of kneerail giving support to bottom leg of bend.



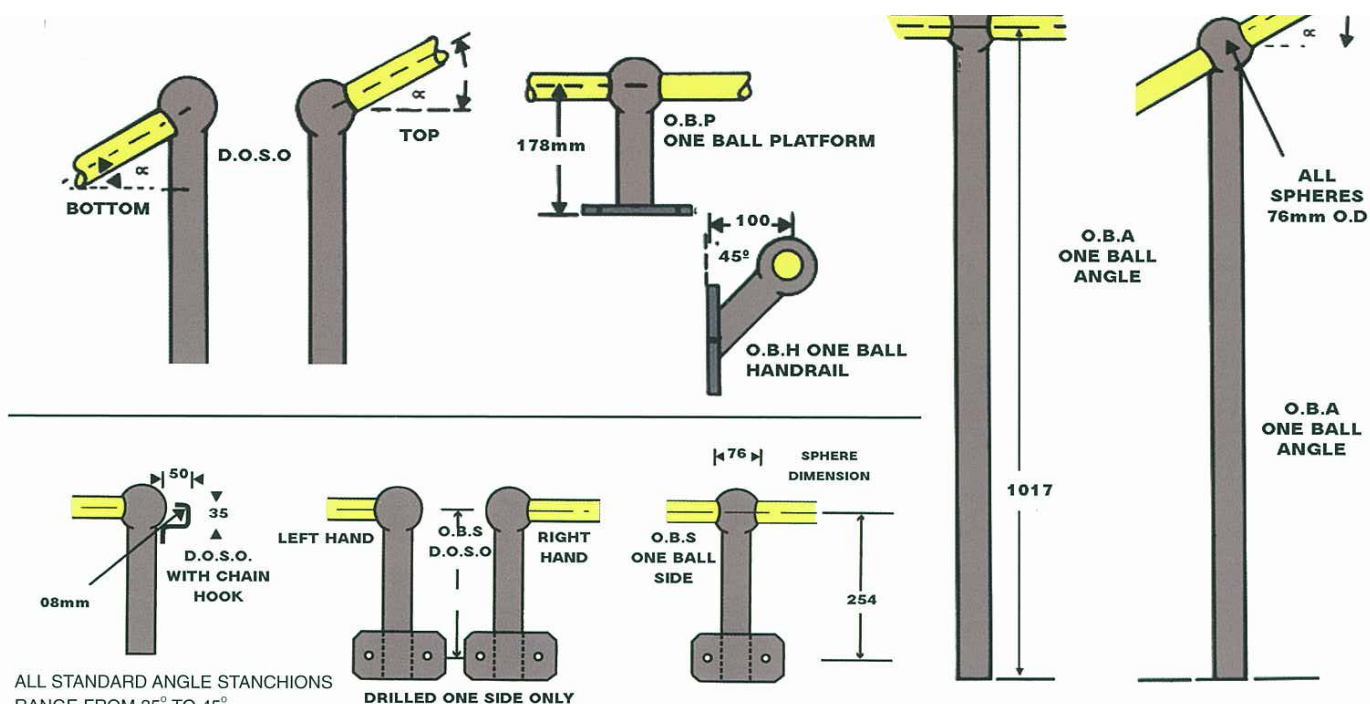
STANDARD & NON STANDARD 90° BENDS

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

STANDARD & NON STANDARD ANGLE BENDS

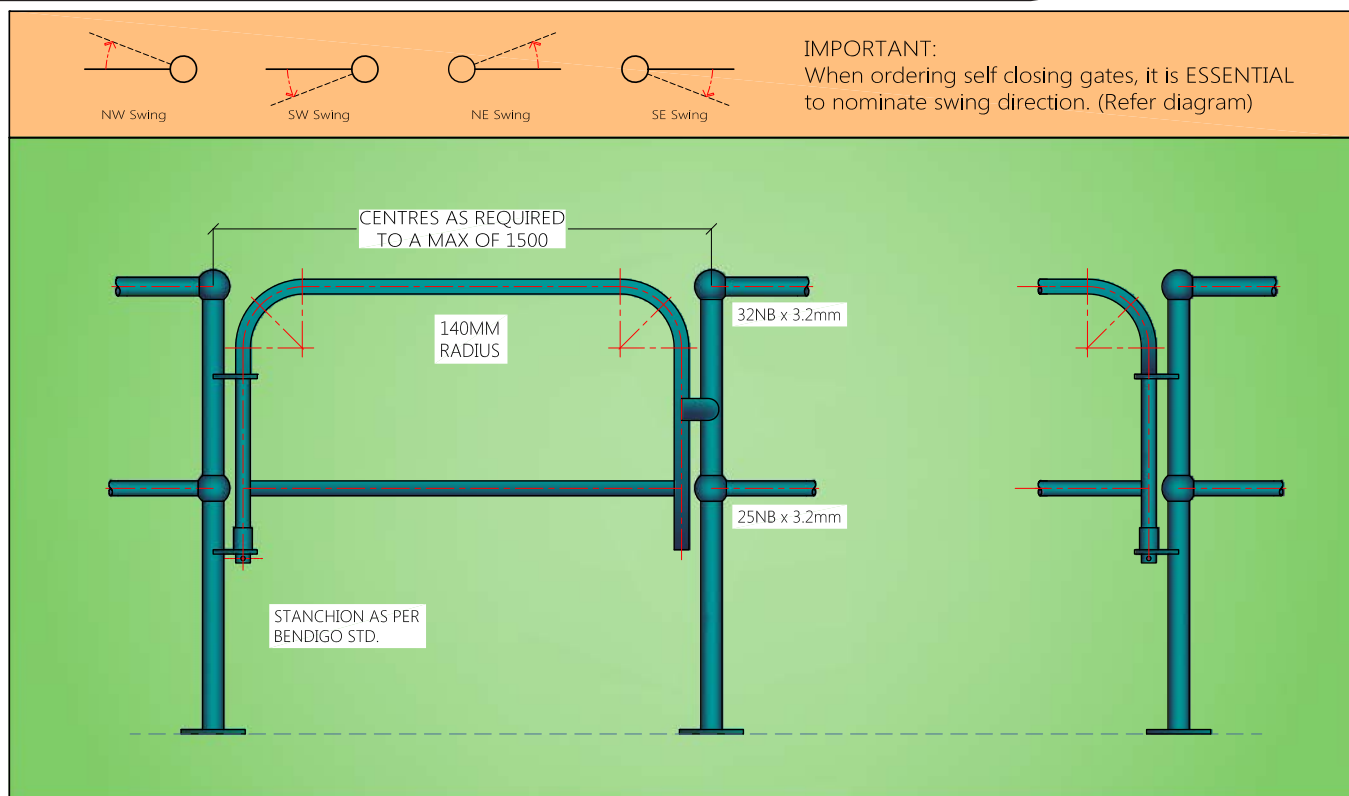
Special angles to suit customer's requirements. Always specify - as shown.

NON-STANDARD STANCHIONS AND GATES



ALL STANDARD ANGLE STANCHIONS RANGE FROM 35° TO 45°. STANCHIONS CAN BE MADE TO ORDER TO SUIT ANY DESIGNATED ANGLE UPON REQUEST.

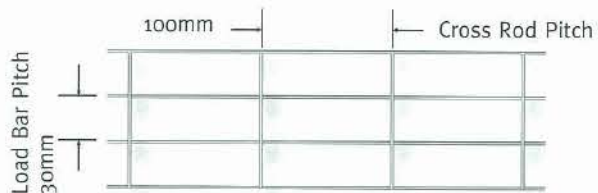
SELF CLOSING GATES



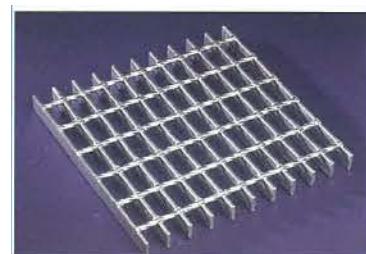
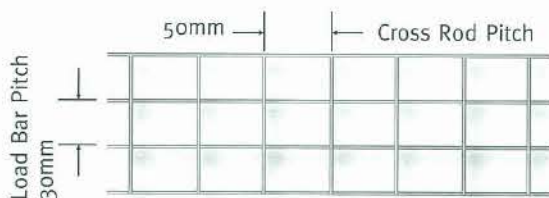
IMPORTANT:
When ordering self closing gates, it is ESSENTIAL to nominate swing direction. (Refer diagram)

STEEL GRATING PATTERN TYPES

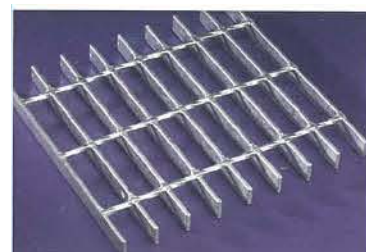
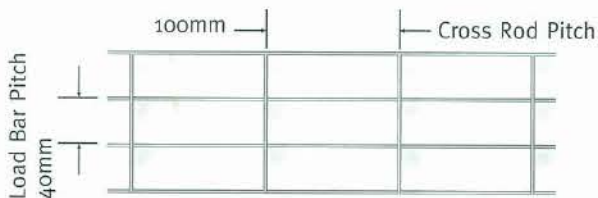
A PATTERN



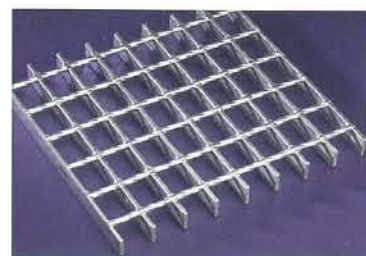
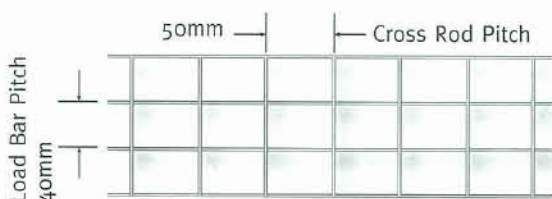
B PATTERN



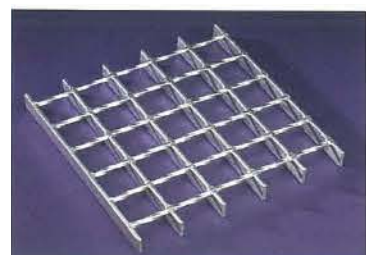
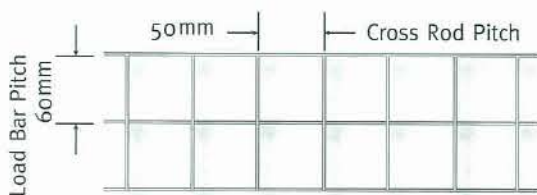
C PATTERN



D PATTERN



F PATTERN



STEEL GRATING LOAD / DEFLECTION TABLE

| Product | Load Bar Size | Mass kg/m ² | U - kPa D - mm | 450 | 600 | 750 | 900 | 1050 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 | 3300 | 3600 | 4kPa 5mm Defl Span |
|---------------------|---------------|------------------------|-------------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------------|
| F205MP* | 20X5 | 18.2 | U D | 36 1.8 | 20 3.2 | 13 5 | 9 7.2 | 6 9.8 | 512.9 | 320.1 | 2 29 | | | | | | | 1010 |
| C205MP* | 20X5 | 22.2 | U D | 56 D | 32 1.8 | 20 3.2 | 14 5 | 10 7.2 | 8 9.8 | 5 12.8 | 3 20.1 | 2 28.9 | | | | | | 1120 |
| C253MP* | 25X3 | 17.3 | U D | 53 1.4 | 30 2.6 | 19 4 | 13 5.8 | 10 7.9 | 7 10.3 | 5 16.1 | 3 23.2 | 2 31.5 | | | | | | 1170 |
| D253MP* | 25X3 | 19.8 | U D | 53 1.4 | 30 2.6 | 19 4 | 13 5.8 | 10 7.9 | 7 10.3 | 5 16.1 | 3 23.2 | 2 31.5 | | | | | | 1170 |
| A205MP* | 20X5 | 28.7 | U D | 74 1.8 | 42 3.2 | 27 5 | 18 7.2 | 13 9.8 | 10 12.8 | 6 20.1 | 4 28.9 | 3 39.4 | | | | | | 1200 |
| F255MP* | 25X5 | 21.5 | U D | 56 1.4 | 32 2.6 | 20 4 | 14 5.8 | 10 7.8 | 8 10.2 | 5 16.0 | 3 23.1 | 2 31.5 | | | | | | 1200 |
| C255MS* | 25X5 | 25.8 | U D | 70 1.6 | 39 2.9 | 24 4.5 | 16 6.5 | 13 8.8 | 9 11.5 | 6 18.0 | 4 25.9 | 3 35.3 | | | | | | 1225 |
| A253MP* | 25X3 | 22.2 | U D | 70 1.4 | 39 2.6 | 25 4 | 17 5.8 | 14 7.8 | 10 10.3 | 6 16.0 | 4 23.1 | 3 31.5 | 2 41.2 | | | | | 1250 |
| B253MP* | 25X3 | 24.7 | U D | 70 1.4 | 39 2.6 | 25 4 | 17 5.8 | 13 7.8 | 10 10.3 | 6 16.0 | 4 23.1 | 3 31.5 | 2 41.2 | | | | | 1250 |
| C255MP* | 25X5 | 27.1 | U D | 88 1.4 | 49 2.6 | 31 4 | 22 5.8 | 16 7.8 | 12 10.2 | 8 16.0 | 5 23.1 | 4 31.5 | 3 41.2 | | | | | 1320 |
| D255MP* | 25X5 | 29.6 | U D | 88 1.4 | 49 2.6 | 31 4 | 22 5.8 | 16 7.8 | 12 10.2 | 8 16.0 | 5 23.1 | 4 31.5 | 2 35.1 | | | | | 1320 |
| F325MS* Serrated | 32X5 | 25.2 | U D | 76 1.2 | 43 2.2 | 27 3.4 | 19 4.9 | 14 6.7 | 11 8.7 | 7 13.6 | 5 19.7 | 3 26.8 | 2 35.1 | | | | | 1350 |
| A255MS* | 25X5 | 33.6 | U D | 91 1.6 | 51 2.9 | 33 4.5 | 23 6.5 | 17 8.8 | 13 11.5 | 8 18.0 | 6 25.9 | 4 35.3 | | | | | | 1350 |
| C323MP* | 32X3 | 21.4 | U D | 87 1.1 | 49 2 | 31 3.1 | 21 4.5 | 16 6.1 | 23 8.0 | 8 12.5 | 5 18.1 | 4 24.6 | 3 32.1 | 2 40.7 | | | | 1400 |
| A255MP* B255MP* | 25X5 25X5 | 35.2 37.8 | U D | 115 1.4 | 65 2.6 | 42 4 | 29 5.8 | 21 7.8 | 16 10.3 | 10 16.0 | 7 23.1 | 5 31.5 | 4 41.1 | 3 49.6 | | | | 1420 1420 |
| F325MP* | 32X5 | 26.1 | U D | 92 1.1 | 52 2 | 33 3.1 | 23 4.5 | 17 6.1 | 13 8.0 | 8 12.5 | 6 18.0 | 4 24.6 | 3 32.1 | 2 40.7 | | | | 1440 |
| C325MS* Serrated | 32X5 | 32.7 | U D | 120 1.2 | 67 2.2 | 43 3.4 | 30 4.9 | 22 6.7 | 17 8.7 | 11 13.6 | 7 19.7 | 5 26.8 | 4 34.0 | 3 44.3 | | | | 1475 |
| A323MP* | 32X3 | 27.7 | U D | 114 1.1 | 64 2 | 41 3.1 | 28 4.5 | 21 6.1 | 16 8.0 | 10 12.5 | 7 18.1 | 5 24.6 | 4 32.1 | 3 40.7 | | | | 1510 |
| C323MP* D325MP* | 32X5 32X5 | 34.0 36.5 | U D | 144 1.1 | 81 2 | 52 3.1 | 36 4.5 | 26 6.1 | 20 8.0 | 13 12.5 | 9 18.0 | 6 24.6 | 5 32.1 | 4 40.7 | | | | 1590 1590 |
| A325MS* Serrated | 32X5 | 42.7 | U D | 158 1.2 | 89 2.2 | 56 3.4 | 39 4.9 | 29 6.7 | 22 8.7 | 14 13.7 | 9 19.7 | 7 26.8 | 5 35.0 | 4 44.3 | | | | 1600 |
| C403MP* | 40X3 | 26.1 | U D | 135 0.9 | 76 1.6 | 49 2.5 | 34 3.6 | 25 4.9 | 19 6.4 | 12 10 | 8 14.5 | 6 19.7 | 4 25.7 | 3 32.6 | | | | 1660 |
| F405MP* | 40X5 | 31.3 | U D | 144 0.9 | 81 1.6 | 52 2.5 | 36 3.6 | 26 4.9 | 20 6.4 | 13 10 | 9 14.5 | 6 19.7 | 5 25.7 | 4 32.6 | 3 40.2 | | | 1700 |
| A325MP* B325MP* | 32X5 32X5 | 44.4 46.9 | U D | 190 1.1 | 107 2 | 68 3.1 | 47 4.5 | 35 6.1 | 26 8.0 | 17 12.5 | 11 18 | 8 24.6 | 6 32.1 | 5 40.7 | | | | 1710 1710 |
| A403MP* | 40X3 | 33.9 | U D | 179 0.9 | 100 1.6 | 64 2.5 | 44 3.6 | 33 4.9 | 25 6.4 | 16 10 | 11 14.5 | 8 19.7 | 6 25.7 | 5 32.6 | 4 40.2 | | | 1780 |
| C405MP* | 40X5 | 41.8 | U D | 226 0.9 | 127 1.6 | 81 2.5 | 56 3.6 | 41 4.9 | 31 6.4 | 20 10.0 | 14 14.4 | 10 19.7 | 8 25.7 | 6 32.5 | 5 40.2 | | | 1890 |
| A405MP* B405MP* | 40X5 | 54.8 | U D | 298 0.9 | 167 1.6 | 107 2.5 | 74 3.6 | 52 4.9 | 41 6.4 | 26 10 | 18 14.5 | 13 19.7 | 10 25.7 | 8 32.6 | 6 40.2 | | | 2030 |
| C455MP* | 45X5 | 46.7 | U D | 286 0.8 | 160 1.4 | 102 2.2 | 71 3.2 | 52 4.4 | 40 5.7 | 25 8.9 | 17 12.9 | 13 17.5 | 10 22.9 | 7 29.0 | 6 35.8 | 5 43.2 | | 2030 |
| A455MP* | 45X5 | 61.4 | U D | 377 0.8 | 212 1.4 | 135 2.2 | 94 3.2 | 67 4.3 | 52 5.7 | 33 8.9 | 23 12.8 | 17 17.5 | 13 22.8 | 10 28.9 | 8 35.8 | 6 43.2 | | 2175 |
| C505MP* | 50X5 | 51.6 | U D | 353 0.7 | 198 1.3 | 127 2 | 88 2.9 | 64 3.9 | 49 5.1 | 31 8.0 | 22 11.5 | 16 15.7 | 12 20.5 | 9 26.0 | 7 32.1 | 6 38.9 | 5 46.2 | 2200 |
| A505MP* | 50X5 | 67.9 | U D | 465 0.7 | 261 1.3 | 167 2 | 116 2.9 | 85 3.9 | 65 5.1 | 41 8.0 | 28 11.5 | 21 15.7 | 16 20.5 | 12 26.0 | 10 32.1 | 8 38.9 | 7 46.3 | 2350 |
| A655MP* | 65X5 | 87.5 | U D | 787 0.5 | 442 1 | 283 1.6 | 196 2.2 | 144 3.0 | 110 4 | 70 6.1 | 48 8.9 | 35 12.1 | 27 15.8 | 21 20.0 | 17 24.8 | 14 29.9 | 11 35.6 | 2825 |
| A756MP* | 75X6 | 120.2 | U D | 1049 0.46 | 500 1.3 | 378 1 | 262 1.8 | 193 2.5 | 147 3.2 | 94 5.1 | 66 7.3 | 48 10.0 | 37 13.0 | 29 16.5 | 24 20.4 | 20 24.7 | 16 29.4 | 3250 |

MILD/STAINLESS STEEL



RECOMMENDED MAXIMUM LENGTHS FOR GRATING PATTERNS

| LOAD BAR SIZE | STEEL | | | ALUMINIUM | | | FRP | |
|---------------|--------|--------|--------|-----------|--------|--------|--------|--------|
| | 25 x 5 | 32 x 5 | 40 x 5 | 25 x 5 | 32 x 5 | 40 x 5 | 25 x 6 | 38 x 6 |
| A & B Pattern | 900 | 1300 | 1600 | 550 | 900 | 1275 | – | – |
| C & D Pattern | 750 | 1200 | 1500 | – | 675 | 1050 | – | – |
| F Pattern | 550 | 850 | 1350 | – | 450 | 700 | – | – |
| G Pattern | – | – | – | – | – | – | 600 | 875 |

RECOMMENDED TREAD WIDTHS FOR GRATING PATTERNS

| | | | | | | | |
|---------------|-----|-----|-----|-----|-----|-----|-----|
| A & B Pattern | 125 | 155 | 185 | 215 | 245 | 275 | 305 |
| C & D Pattern | 125 | 165 | – | 205 | 245 | 285 | 325 |
| F Pattern | 125 | – | 185 | – | 245 | – | 305 |
| G Pattern | – | – | – | – | 234 | 272 | 310 |

FRP



Note: Nosings in some instances may be less than the full tread width.

STAIRTREADS

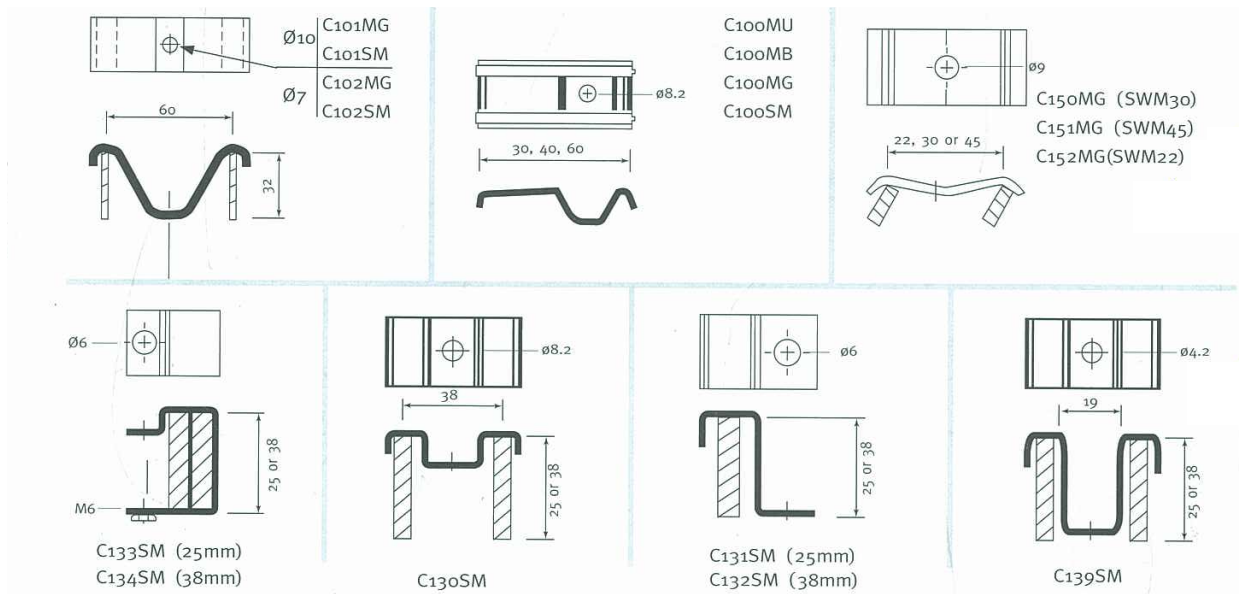
HOW TO ORDER MILD/STAINLESS STEEL TREADS

1. Choose the standard tread shown or design your own as follow:
2. Select tread type from pictures page 12.
3. Select required pattern, bar size and width by referring to the tables on page 12.
4. Select options of Material, and surface treatment.
5. Nominate required quantity and dimensions.

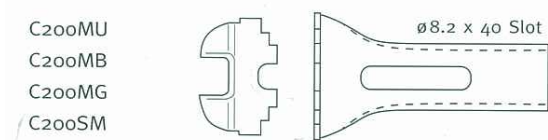
Examples: T6/C255MPB 50/285 x 750 T3/A325MPG 10/245 x 750 T1/F255MPU 10/245 x 550

FIXING CLIPS

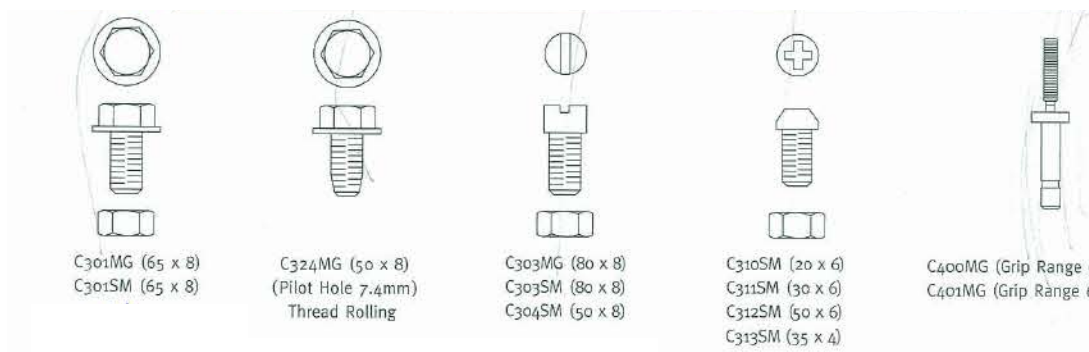
TOPS



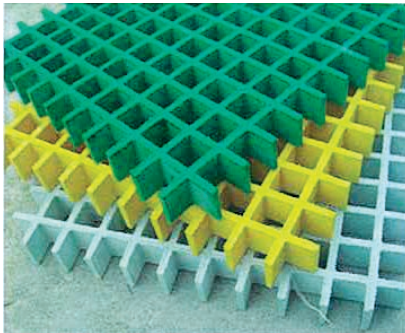
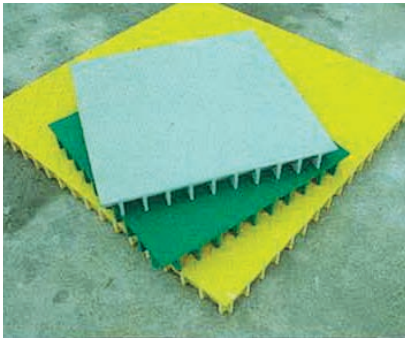
BOTTOM



SCREWS/RIVETS



*Full deflection data available on request



| Clear Span (mm) | Load Type | 25mm THICK (38mm x 38mm) Square Mesh | | | | | | | |
|-----------------|-----------|--------------------------------------|------|------|------|------|------|------|------|
| 305 | U | 500 | 1500 | 2500 | 3500 | 4400 | 5000 | 6800 | 8800 |
| | u | 0.26 | 0.54 | 1.02 | 1.27 | 2.03 | 2.58 | 2.80 | 3.31 |
| | C | 50 | 100 | 150 | 200 | 250 | 300 | 360 | 410 |
| 610 | u | 0.25 | 0.75 | 1.02 | 1.27 | 1.53 | 2.08 | 2.29 | 2.80 |
| | C | 120 | 250 | 370 | 490 | 1000 | 1250 | 1500 | * |
| | c | 0.76 | 1.27 | 2.04 | 2.54 | 5.84 | 7.28 | 8.85 | * |
| 915 | P | 45 | 135 | 230 | 270 | 320 | 360 | 410 | 460 |
| | p | 0.76 | 1.78 | 3.05 | 3.55 | 4.10 | 5.06 | 5.59 | 6.35 |
| | U | 120 | 250 | 370 | 490 | 740 | 1000 | 1250 | * |
| 1220 | u | 3.05 | 6.35 | 10.4 | 14.5 | 22.4 | 29.5 | 37.4 | * |
| | C | 12 | 23 | 45 | 68 | 90 | 115 | 140 | * |
| | c | 1.78 | 3.56 | 7.60 | 11.5 | 15.5 | 19.8 | 23.9 | * |
| 1520 | P | 50 | 100 | 150 | 200 | 250 | 300 | 350 | * |
| | p | 1.55 | 3.10 | 4.36 | 6.20 | 7.74 | 8.95 | 10.9 | * |

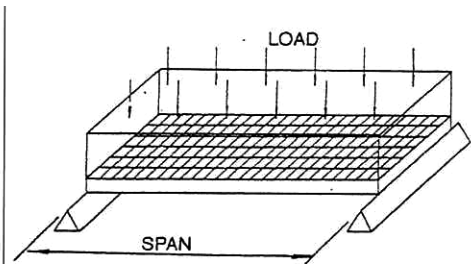
| Clear Span (mm) | Load Type | 38mm THICK (38mm x 38mm) Square Mesh | | | | | | | |
|-----------------|-----------|--------------------------------------|-------|-------|------|------|------|------|-------|
| 305 | U | 500 | 1000 | 1500 | 2000 | 2500 | 3000 | 3500 | 3900 |
| | u | <0.25 | <0.25 | <0.25 | 0.26 | 0.32 | 0.48 | 0.51 | 0.63 |
| | C | 50 | 100 | 150 | 200 | 250 | 300 | 360 | 410 |
| 610 | u | <0.25 | <0.25 | 0.32 | 0.51 | 0.63 | 0.76 | 0.88 | 1.04 |
| | C | 500 | 1000 | 1500 | 2000 | 2500 | 3000 | 3200 | 4200 |
| | c | 0.76 | 1.27 | 2.29 | 3.56 | 4.58 | 5.60 | 6.10 | 8.12 |
| 915 | P | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 |
| | p | 0.76 | 1.52 | 2.29 | 3.05 | 4.06 | 4.58 | 5.35 | 6.10 |
| | U | 250 | 370 | 500 | 610 | 730 | 850 | 1000 | 1700 |
| 1220 | u | 2.08 | 3.33 | 4.58 | 5.60 | 6.86 | 8.14 | 9.65 | 17.17 |
| | C | 25 | 35 | 50 | 75 | 100 | 125 | 150 | 175 |
| | c | 1.04 | 1.87 | 2.64 | 3.85 | 5.20 | 6.24 | 7.81 | 8.95 |
| 1520 | P | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 |
| | p | 0.76 | 1.27 | 2.08 | 2.64 | 3.10 | 4.16 | 4.82 | 5.62 |
| 1820 | U | 195 | 240 | 270 | 290 | 320 | 340 | 370 | 490 |
| | u | 5.10 | 6.61 | 7.44 | 8.32 | 9.26 | 9.94 | 10.7 | 14.1 |
| | C | 23 | 27 | 32 | 36 | 41 | 45 | 90 | 115 |
| 2120 | c | 2.50 | 3.05 | 3.84 | 4.58 | 5.08 | 5.83 | 10.4 | 12.7 |
| | P | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 |
| | p | 1.27 | 2.55 | 4.07 | 5.33 | 6.86 | 8.13 | 9.65 | 10.9 |

| Clear Span (mm) | Load Type | 51mm THICK (51mm x 51mm) Square Mesh | | | | | | | |
|-----------------|-----------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| 305 | U | 2500 | 3500 | 4900 | 9800 | 14600 | 20000 | 25000 | 29000 |
| | u | 0.25 | 0.38 | 0.50 | 1.04 | 1.50 | 2.04 | 2.50 | 2.80 |
| | C | 125 | 230 | 340 | 450 | 680 | 900 | 1200 | 1400 |
| 610 | u | 0.25 | 0.50 | 0.51 | 0.76 | 1.27 | 1.51 | 2.04 | 2.50 |
| | C | 1250 | 2000 | 2500 | 3000 | 3500 | 3900 | 4400 | 4900 |
| | c | 1.04 | 1.78 | 2.29 | 2.80 | 3.31 | 3.81 | 4.32 | 4.83 |
| 915 | P | 125 | 180 | 275 | 360 | 410 | 450 | 550 | 640 |
| | p | 1.04 | 1.50 | 2.50 | 3.31 | 3.56 | 4.07 | 5.12 | 5.60 |
| | U | 375 | 500 | 750 | 1000 | 1250 | 1500 | 1700 | 2000 |
| 1220 | u | 1.50 | 2.04 | 3.05 | 4.32 | 5.34 | 6.40 | 7.38 | 8.65 |
| | C | 50 | 90 | 140 | 180 | 230 | 275 | 320 | 360 |
| | c | 1.27 | 2.04 | 3.05 | 4.32 | 5.34 | 6.62 | 7.28 | 9.15 |
| 1520 | P | 125 | 230 | 340 | 450 | 570 | 680 | 800 | 900 |
| | p | 1.04 | 1.78 | 2.80 | 3.81 | 4.58 | 5.60 | 6.40 | 7.65 |
| 1820 | U | 375 | 500 | 625 | 750 | 1000 | 1250 | * | * |
| | u | 4.83 | 6.40 | 8.14 | 9.92 | 11.94 | 14.50 | * | * |
| | C | 34 | 50 | 90 | 140 | 180 | 230 | 275 | * |
| 2120 | c | 2.04 | 2.80 | 5.34 | 8.14 | 11.18 | 14.23 | 17.02 | * |
| | P | 50 | 125 | 230 | 340 | 450 | 570 | 680 | 800 |
| | p | 0.76 | 1.78 | 3.81 | 5.60 | 7.65 | 9.40 | 11.43 | 13.21 |
| 2420 | U | 250 | 375 | 500 | 625 | * | * | * | * |
| | u | 8.90 | 13.21 | 17.80 | 22.61 | * | * | * | * |
| | C | 23 | 34 | 50 | 90 | 140 | * | * | * |
| 2720 | c | 2.80 | 4.32 | 5.60 | 11.69 | 17.28 | * | * | * |

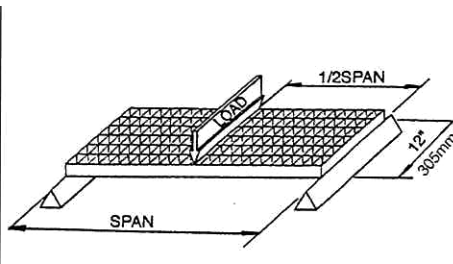
MOULDED GRATING

| THICKNESS | BAR SPACING | % OPEN AREA | KGS PER S/M |
|-----------|-------------|-------------|-------------|
| 12 | 51 x 51 | 79 | 5 |
| 15 | 38 x 38 | 70 | 7 |
| 25 | 38 x 38 | 70 | 12 |
| 38 | 38 x 38 | 70 | 18 |
| 51 | 51 x 51 | 79 | 20 |

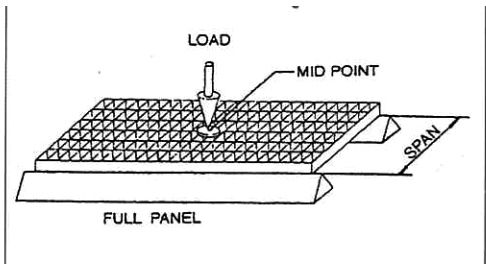
LOADING TYPE



U Uniform load - kg/m² (lbs/ft²)
u Uniform load deflection - mm(in.)

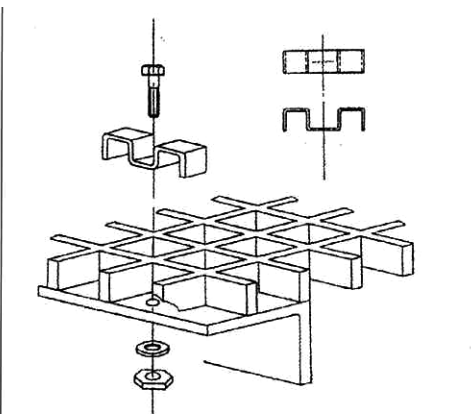


C Concentrated line load - kg/m width (lbs/ft)
c Concentrated line load deflection - mm (in.)

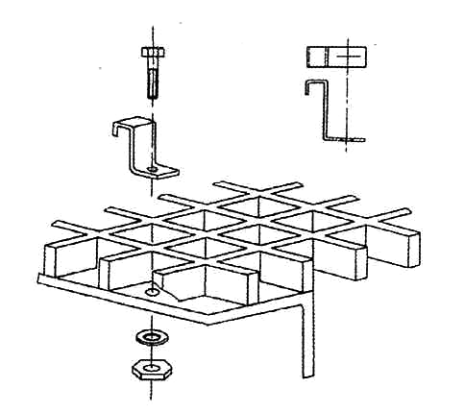


P Concentrated load - kg (lbs)
p Concentrated point load deflection - mm (in.)

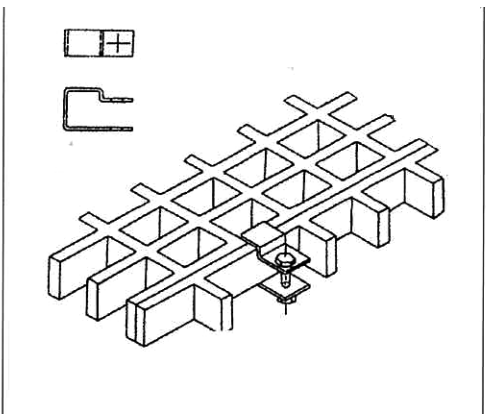
FIXINGS



Type M holds down clips



Type L holds down clips



Type C end panel clips

DESIGN

Moulded grating is made by manually laying the fibreglass strands BiDirectional. Once the desired thickness is met the resin is then added. Because the grating is "cast" in one piece, there is no mechanical joint between bearing bars, unlike the pultruded grating where the glued joints can give way in heavy continuous traffic or after prolonged service. Is no mechanical joint between bearing bars, unlike the pultruded grating where the glued joints can give way in heavy continuous traffic or after prolonged service.

The high percentage of resin (65%) in moulded grating offers superior corrosion resistance. The moulded grating with a square mesh pattern offers increased load capacity and panel utilization due to this bi-directional trait. Cutting access holes in the molded grating does not weaken the panel and does not require additional or costly supports .

Moulded grating is engineered to meet the requirements of Australian Standard AS 1657 - 1992. Premium grade vinyl ester resin offers superior resistance to corrosion over a broad range of chemicals coupled with elevated temperatures. Both types of resin systems come standard with U.V. inhibitors and fire retardants conforming to class 1 flame spread rating of less than 10 when tested to the Tunnel Test requirements of ASTM E-84.

STRUCTURAL STEEL FABRICATION

**Bendigo
Metals**

For 35 years Bendigo metals has been fabricating steel for the West Australian market.

The fabrication department specialises in both the energy sector and can be used for extra fabrication capacity for projects that are just too big for your own workshop.

With a 2000m² workshop next to their sister company Hartway Galvanizers, they can offer an easy turnkey solution.



GALVANIZING



COMPANY PROFILE

Hartway Galvanizers is part of the family owned and operated Hart group of Companies which through its high quality and service has gained wide recognition. With over six acres of available land for storage combined with our modern facilities Hartway Galvanizers can accomodate the largest jobs in the state down to the smallest 6mm bolt in our centrifuge plant.

Our fleet of semi trailers offers an efficient pick up and delivery service within the Perth Metropolitan area and country deliveries.

QUALITY ASSURANCE

All galvanizing conforms to AS/NZS 4680 and certified to ISO 9002 to ensure the highest quality results for customers. Testing with magnetic gauges provides a reliable and non-destructive method to determine exact coating thickness.



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COATING MASS REQUIREMENTS

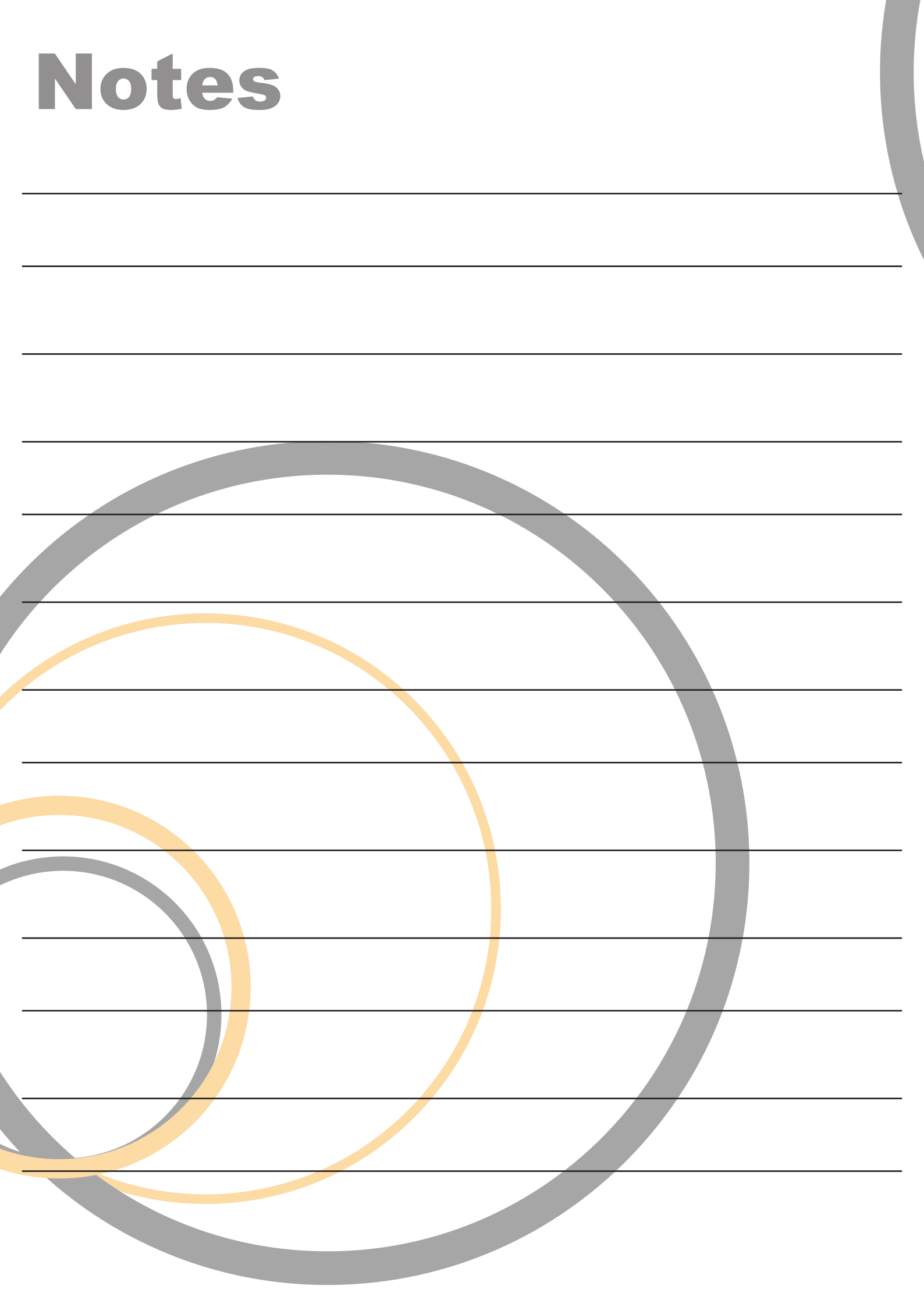
| ARTICLE THICKNESS (MM) | LOCAL COATING THICKNESS MICRONS | AVERAGE COATING THICKNESS MICRONS | AVERAGE COATING MASS G/M ² |
|------------------------|---------------------------------|-----------------------------------|---------------------------------------|
| 1.5mm or less | 35 | 45 | 320 |
| Over 1.5mm or less | 45 | 55 | 390 |
| Over 3 to 6mm | 55 | 70 | 500 |
| Over 6mm | 70 | 85 | 600 |

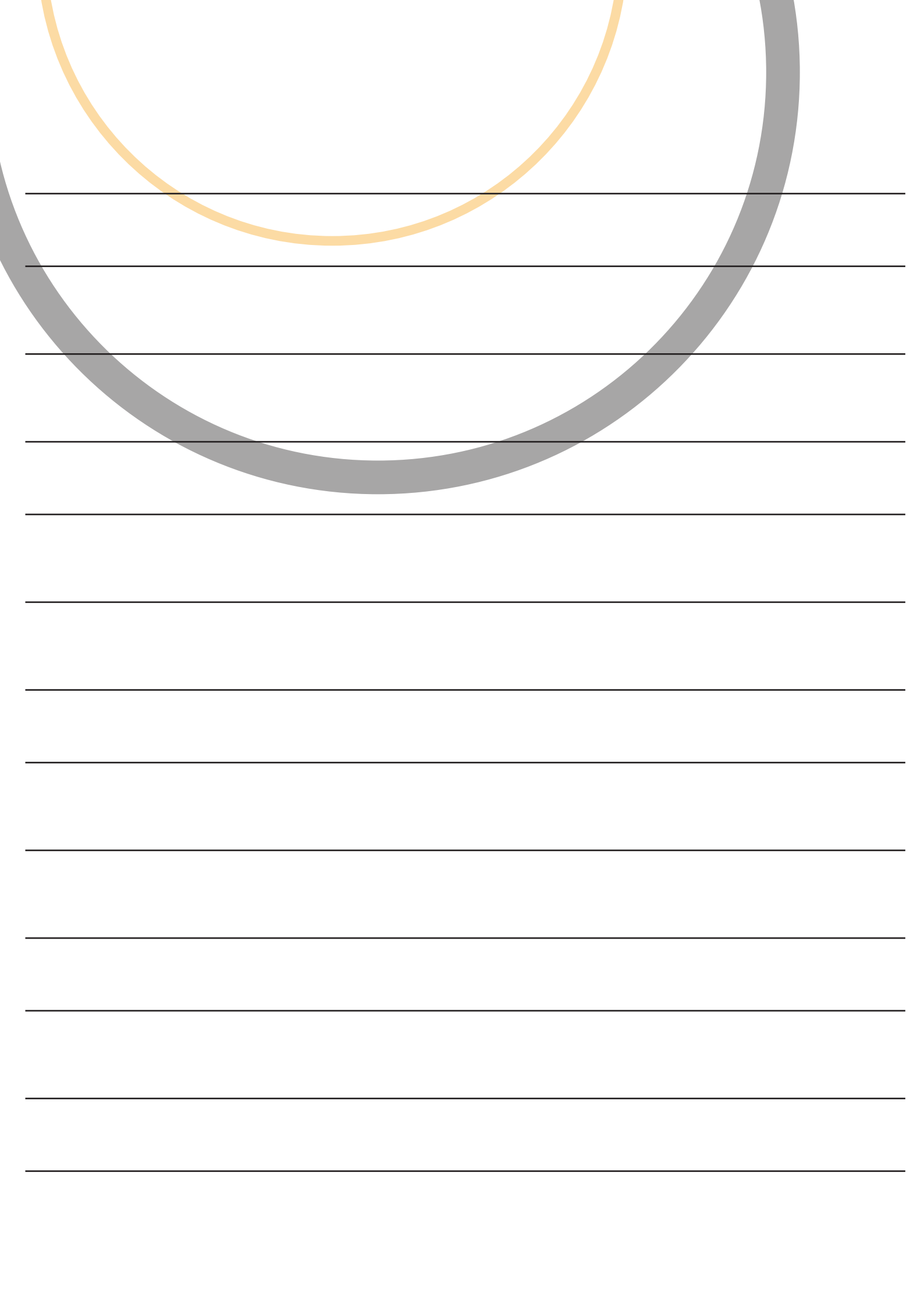
CANNING VALE MAINLINE BATH - 12.6m x 2.7m x 1.4m

NAVAL BASE MAINLINE BATH - 12.6m x 3.0m x 1.4m



Notes







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