









FTF can assist you in your next engineering project with our:

- Extensive product knowledge We have over 20 years involvement in the structural/grating fabrication industry
- Large Stock Inventory Levels We carry an extensive stock range in grating, stanchions and stair treads, all available from our Perth Factory.
- Fast Project Turnaround Times When you are on a tight project schedule FTF is able to deliver a prompt production service which consistently out performs our competitors.
- Personalized Service At FTF your initial contact oversees the whole project, from the quotation through to fabrication, delivery and documentation.
- General Fabrication FTF can also provide light to medium General fabrication works and processing involving highly repetitive type works.
- Rolling & Bending Talk to your FTF Rep about our rolling
 & bending capabilities to see if we can be of service to you.



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SYSTEM SPECIFICATIONS

Tubular Handrail System Specifications

First Time Fabrication's tubular handrail systems are manufactured to comply With Australian Standards AS1657-1992

General

Australian Standard AS1657-1992 recommends a maximum pitching of no more than 2000mm. Please Note this is a guide only and greater spacings can be achieved while still conforming to the code.

Handing of stanchions is ascertained by standing on the walkway and Facing the stanchion. Holes or KPMB's on the right side of the stanchions are designated to be on the right and those on the left are designated left.

Finish

Either Mill/Untreated or Hot Dipped galvanised finish is available.

Galvanising is finished in accordance with AS/NZS 4680:1999

Base Plates

All base plates other than AM type stanchions are manufactured from 145mm x 75mm 10mm Flat Bar with 2 x 18mm holes at 102mm centres. AM Base plates are manufactured from 170mm x 65mm 10mm Flat Bar with 2 x 18mm holes and 125mm centres.

Standard Duty vs Heavy duty Stanchions

Standard Duty Stanchions are made from 40nb Pipe (48.3 O.D.) with a 3.2mm wall thickness Heavy Duty Stanchions are made from 40nb Pipe (48.3 O.D.) with a 4.0mm wall thickness

Railing

Drill holes for standard stanchion are as follows

Handrail: 32nb pipe (42.4mm O.D.) Kneerail: 25nb pipe (33.7mm O.D.)

Kickplate mounting bracket

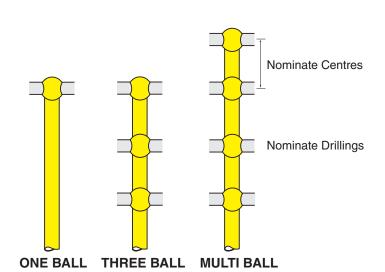
Manufactured form 40x40x5 Angle 85mm long, with 2 slots 14mm x 21mm long to suit 100mm kickplate.

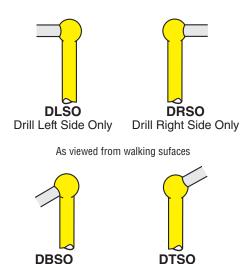
Specials

Non standard stanchions are available to suit your requirements.

HOW TO ORDER







Drill Top Side Only

MATERIAL

Mild Steel Stainless Steel Aluminium

TREATMENT - FINISHES

Untreated - Mill Finish/Black Galvanised Painted

STANCHIONS

- 1. Choose a type from page 8-9.
- 2. Choose a material type.
- 3. Choose a treatment.
- 4. Nominate a kickplate bracket height.
- 5. Nominate an offset if SO type stanchion.
- 6. Nominate an angle if an angle type stanchion.
- 7. Nominate the required options.
- 8. Enclose a sketch if needed to explain specials.

Examples:

CLOSURES AND BENDS

Drill Bottom Side Only

- 1. Choose a type from page 11.
- 2. Choose a material.
- 3. Choose a treatment.
- 4. Choose a leg length if not standard.
- 5. Choose a pipe size.
- 6. Choose an angle if an ACB or RB.

Examples:

ACB45° Galv Angle Closure Bend Galvanised 45° HCB 32 B Horizontal Closure Bend Mill RB 25 G 90....... Rail Bend 25NB Galvanised 90°

GATES / DROP BARRIERS

- 1. Choose a type from page 11.
- 2. Choose the stanchion type from page 8-10.
- 3. Choose material.
- 4. Choose a treatment.
- 5. Nominate a kickplate if required.
- 6. Nominate the swing direction.
- 7. Nominate the centre to centre dimension of the stanchions or advise if other.
- 8. Photocopy the sketch on page 23 and fill in the details if needed.

Examples:

Gate with two PG stanchions. Galvanised No Kickplate. 1250 centres. NW swing.

Gate without stanchions. Galvanised. With Kickplate. 1000 centres of SW swing.

Drop bar. Painted yellow. 700 centres.

STANCHION SPECIFICATIONS

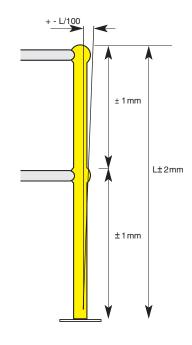
STANCHION SPECIFICATIONS

TYPE	STANDARD		
Material	Mild Steel	Stainless Steel	Aluminium
Grade	250	316L	6063-T6
STANCHION - STANDARD NB OD Wall Thickness STANCHION - HEAVY NB	40 48.3mm 3.2mm	48.26mm 2.77 sched 10	50mm 4.0mm
OD Wall Thickness	48.3mm 4.0mm	48.26mm 3.68mm sched 40	
BALL OD	76mm	76mm	76mm
RAILS - STANDARD - HAND NB OD Wall Thickness Weight	32 42.4mm 3.2mm 3.17kg	42.16mm 2.77mm 2.73kg	46mm 3.5mm 1.27kg
RAILS - STANDARD - KNEE NB OD Wall Thickness Weight	25 33.7mm 3.2mm 2.46kg	33.40mm 2.77mm 2.11kg	40mm 3.0mm 0.95kg
RAILS - SPECIALS - HAND & KNEE NB OD Wall Thickness	25 to 40 33.7mm to 48.3mm 3.2mm to 4.0mm		
PIPE OD = <50mm OD>50mm & = <75mm Thickness Variation Base Plates Spheres Drilling Spheres Hole Angle	+/-0.2mm +/-10% +/-1mm 2 - 4mm oversize +/-1° any horizontal axis 0.5° in slope	+/-0.2mm - +/-10% +/-1mm 2 - 4mm oversize +/-1° any horizontal axis 0.5° in slope	+/-0.2mm +/-10% +/-1mm 2 - 4mm oversize +/-1° any horizontal axis 0.5° in slope
SPACING AS1657 AS1657 App.B Stanchion P Stanchion S Stanchion W Stanchion SO Stanchion C	2000mm 3000mm 2700mm 3000mm -	2000mm 3000mm 2700mm 3000mm	1800mm 1800mm 1800mm - 1300mm 1800mm

STANCHIONS WEIGHT

TYPE	Sto	Aluminium	
	3.2mm WT	4.0mm WT	
PC, C, CA P, PA W, WA, AMW S SO SOAL/SOAR AM IG, IGA	4.86kg 4.74kg 3.90kg 5.00kg 5.37kg 5.33kg 4.46kg 6.00kg	5.33kg 5.25kg 4.42kg 5.64kg 5.87kg 5.65kg 5.00kg 7.00kg	2.12kg 2.07kg 1.68kg 2.20kg 2.54kg 2.31kg 1.95kg 2.65kg

MANUFACTURING TOLERANCES





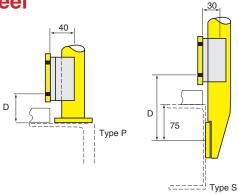


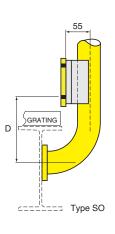
STANCHION OPTIONS



KICK PLATE MOUNTING BRACKETS

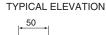
Steel





TYPICAL ELEVATION			
14 dia. 14 dia. 150 145 1 20 1 45 1 20 25 40 x 40 x 5 angle 85mm long			





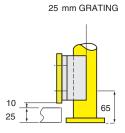
5	14 dia	1 .
	25	45 20 20

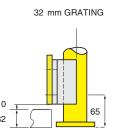
DIMENSION 'D' FOR VARIOUS STANCHION TYPES Grating height mm nil 20,25,32 40,45,50 55,60,65

P, W, C D = 40D = 65D = 80D = 100S & S0 D = 115D = 140D = 160D = 175Slot allows 7mm up/down adjustment to kickplate. All kickplate brackets are mounted right side when

BASE PLATES

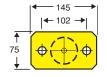
20 mm GRATING 40 typ. 100 kickplate tvp 10 65 20

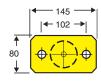




Aluminium Steel









viewed from walking surface.

'SO' TYPE OFFSETS					
CHANNELS		UNIVERSAL BEAMS			
SIZE	STEEL OFFSET	ALUM. OFFSET	SECTION	STEEL OFFSET	ALUM. OFFSET
150 x 75	110	150	200UB	110	150
180 x 75	110	150	250UB	110	150
200 x 75	110	150	310UB	130	150
230 x 75	110	150	360UB	130	150
250 x 90	130	150	410UB	130	150
300 x 90	130	150	460UB	130	165
380 x 100	130	165	530UB	140	165

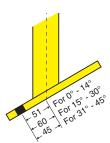
Ф 88 **CORNER** 88 150 150 **ANGLE** 170 MOUNTED 125 - 125 ONLY From 15⁰ -45⁰ 80 65

Hole size 17.5mm typical. All base plates are 10mm thick.

Hole size 17.5mm typical. All base plates are 12mm thick.

Aluminium SO Stanchion centres should not exceed 1800mm. Steel SO Stanchion offset should not exceed 250mm if compliance with AS 1657 is required.

RADIUS Steel 90mm Aluminium 140mm

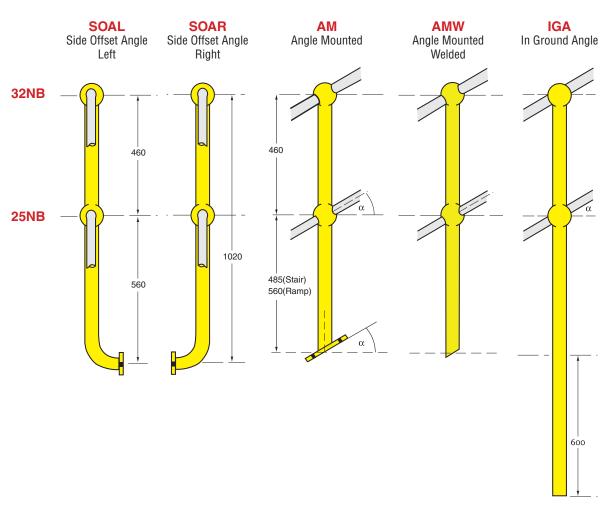


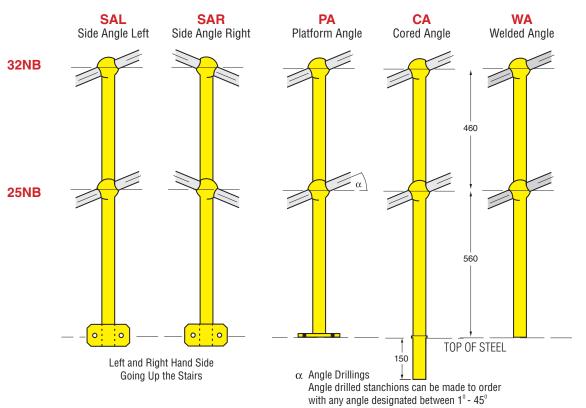
460

560

0

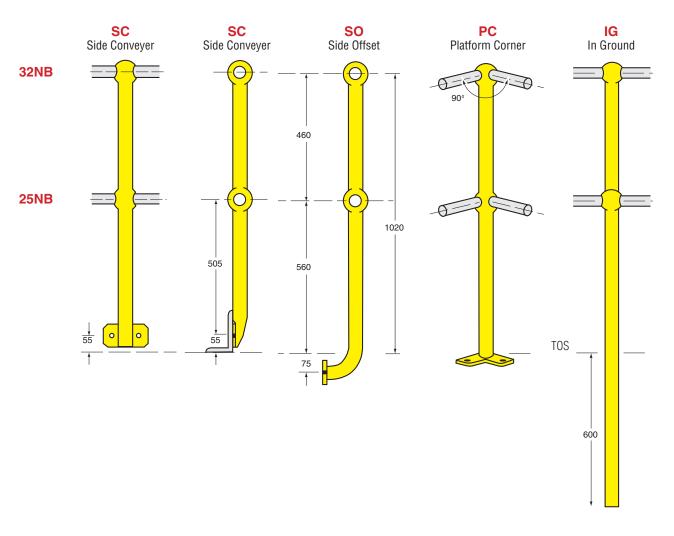
STANCHIONS

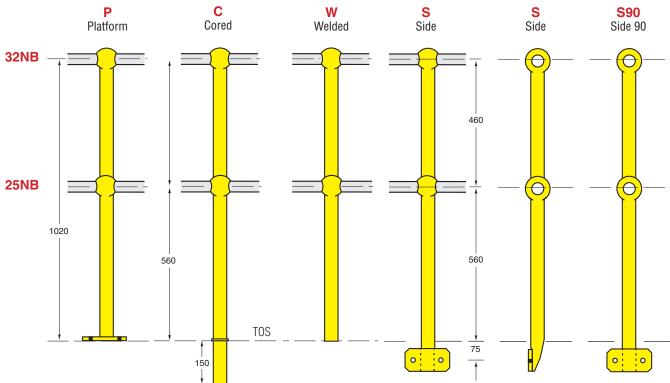




STANCHIONS

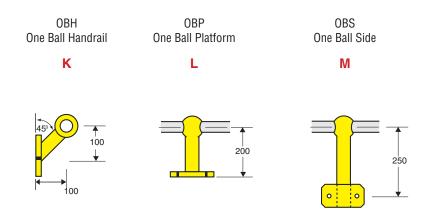




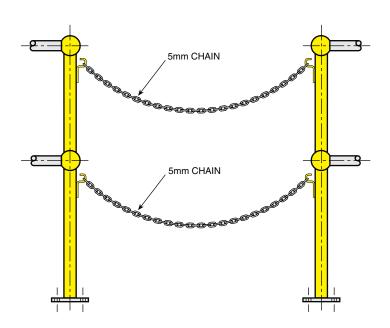


ONE BALL STANCHIONS

ONE BALL STANCHIONS

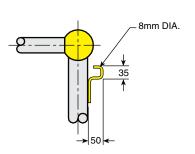


BALLTUBE CHAIN HOOKS



D.O.S.O STANCHIONS WITH CHAIN HOOKS

(SPECIFY WHETHER TOP RAIL ONLY OR BOTH RAILS) (5mm HEAVY DUTY CHAIN AVAILABLE ON REQUEST)



DETAIL OF HOOK

HANDRAIL OPTIONS



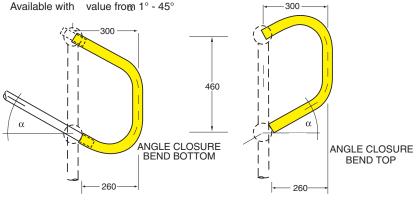
CLOSURE BENDS BENDS

Angle Closure Bends (ACB)

Standard Pipe:

32NB 3.2mm WT Available in other pipe sizes.

Available with value from 1° - 45°

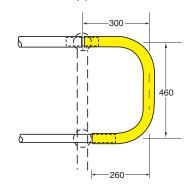


Horizontal Closure Bends (HCB)

Standard Pipe:

32NB 3.2mm WT

Available in other pipe sizes.



Rail Bends (RB)

Standard Pipe:

Handrail 32NB 3.2mm WT Knee rail 25NB 3.2mm WT

Standard Leg:

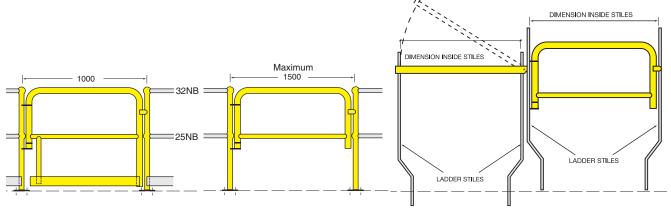
300mm x 300mm

Non-Standard Leg:

L1 + L2 = <6500

TYPICAL ALL BENDS AND CLOSURES

GATES / DROP BARRIERS



Important

When ordering self closing gates, it is essential to nominate the swing direction



NW swing





NE swing



SE swing

Gates/Drop Barrier Types

- · Spring loaded self closing
- · Gravity drop
- · Padlock option available
- Combine with any stanchion
- · Bracket variations for welding to columns
- Double gates options available
- · Kickplate options available

ARCHITECTURAL BALUSTRADING

BALUSTRADE STYLES

AB-1

- Your choice of infill
- Your choice of stancion type P type recommended

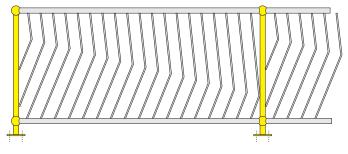
AB-2

- 12mm diameter rods
- Your choice of stancion type P type recommended

2000 32 NB 32 NB 100; TYPICAL

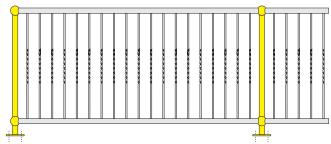
AB-3

- 12mm diameter rods
- Cranked
- As Drawn
- Opposite hand
- Your choice of stancion type P type recommended



AB-4

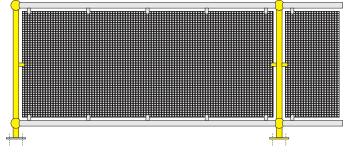
- 16 x 16mm square bar with middle twist
- Your choice of stancion type P type recommended



AB-5

Perforated plate

- 1.6 3mm sheeting
- 4 -0 6.5mm holes
- 30 60% open area
- Your choice of stancion type P type recommended



AB-6

As for BAL-1, with the addition of extra railing to comply with requirements of AS1428.1 - 2001 for disability access

• Your choice of stancion type - P type recommended

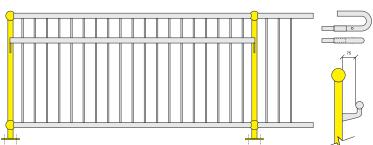
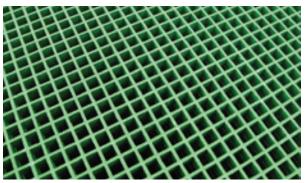


PHOTO GALLERY



















OTHER SERVICES

FTF MANUFACTURING "CATERING TO ALL THE METAL SERVICES INDUSTRY"

FTF provides a variety of services catering to the metal services industry including;

Stanchions & Handrailing

First Time Fabrications handrail and balustrade system with its wide range of standard components forms an economical, strong and simple form of handrail and balustrade. FTF can supply stanchions either loose or in prefabricated panels to your specific needs, providing you with safe access to all areas. We can provide stanchion/prefabricated panels in galvanised steel, aluminium or stainless steel to suit your requirements.

General Fabrication

FTF can also provide light to medium General fabrication works and processing involving highly repetitive type works.

Conveyor/Safety Guards

From fully enclosed units to simple side guards with mesh FTF has expertise in the manufacture of conveyor/safety guards, providing a cost effective alternative to manufacturing them in house, leaving you to focus on your core business manufacturing.

Pipe Bending

FTF has extensive experience in pipe bending, we can provide most types of bends required and can cope with high volume bending projects.

Pipe/Plate Rolling

FTF can provide rolling services for both mild steel plate and pipe, contact your FTF rep for more information on our capabilities.







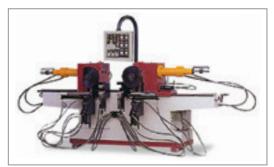




CAPABILITIES



FTF CAPABILITIES



Dual Head Pipe Bender



Semi Auto Hydraulic Cold Saws





Bandsaw



Pipe Bender



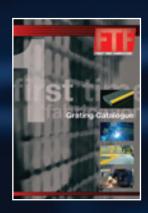
Pipe Rollers





Pipe Dream

Dot Peen



Grating

Our grating is available in numerous combinations of load bar depth and thickness, load bar pitch and cross rod pitch. The full range of standard types of grating as shown in our brochure covers a large range of requirements for any customer.

Grating treads can be made from any type of grating and to any dimensions which suit the relevant stairway. In the interest of economy we suggest that the recommended widths and lengths be used wherever possible.



FRP

Fibre Reinforced Plastic (FRP) grating is a moulded, one-piece fibreglass reinforced plastic grating, available in standard panels or fabricated into panels of the shape you require to fit your floor.



iTread

iTread is a tough walkway system designed for aggressive environments. Use it to safely access rooftops, access platforms, factory environments: all those hard to reach destinations it might otherwise be too dangerous to venture.

Designed to be lightweight and easy to handle, iTread is simple and quick to install. Manufactured from robust aluminium alloy this walkway system is strong, and best of all, the system is corrosion and maintenance free. Versatile, resilient, and built to last, iTread is the single solution to your walkway needs.

First Time Fabrication

Ph (08) 9452 7806 Fax (08) 9459 9956

www.firsttimefabrication.com.au sales@firsttimefabrication.com.au

Unit 3, 2 Baltic Court Maddington 6109 WA

