

# TERMINOLOGY / TOLERANCES



## TERMINOLOGY

**1. Load Bar-** The flat bar standing on its edge that carries the load.

**2. Cross Bar-** The twisted rod or flat bar fixed at 90° to the load bars. The cross bars hold the load bars together.

**3. Banded / Banding-** This is the process of welding a trim bar around the cut edges of the grating

**4. Span-** This is the overall length of the grate measured parallel to the load bar ie: The load bar length

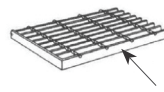
**5. Width-** This is the overall width of the panel or landing measured at 90° to the load bar.

**6. Serrations-** Notches taken out of the top of the load bar to enhance slip resistance.

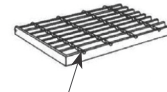
**7. Nosing-** A member on the front edge of the stair tread or landing grate to help create definition and enhance slip resistance.

**8. Kick plate-** Typically in the form of a large flat bar welded to the edge of the grating or mounted to the stanchion post. AS1657 requires minimum 100mm above the walking surface.

**9. Cut outs-** Areas of the flooring removed to permit passage for plant, structural members or stanchion posts etc.



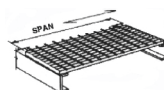
1. LOAD BAR



2. CROSS BAR



3. BANDED/BANDING



4. SPAN



5. WIDTH



6. SERRATIONS



7. NOSING



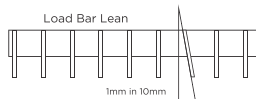
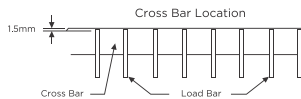
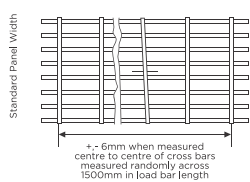
8. KICK PLATE



9. CUT-OUTS

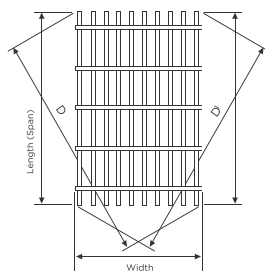
## MANUFACTURING TOLERANCES

Cross Bar Alignment And Spacing

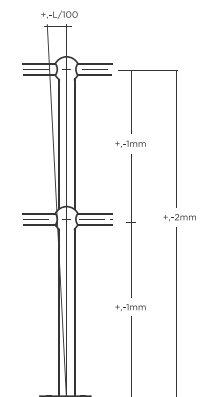
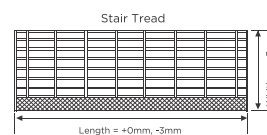
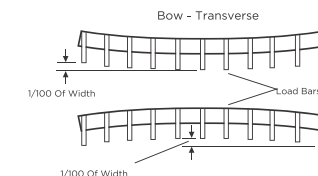
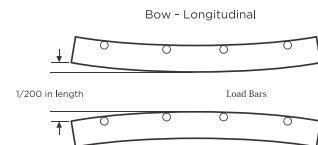
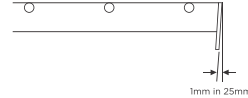


Squareness And Overall Dimensions

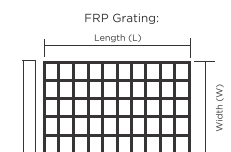
Panel Size (mm)	Length	D1	W1
Less than 3000	+0,-3mm	D+,-6mm	+,-3mm
Up to 5800mm	+0,-3mm	D+,-L/1000	+,-3mm



Stair Tread End Plate Lean



Stanchion Tolerances:	
Height	+/- 2mm in 1000mm
Sphere Drilling	2 to 4mm oversize
Degree Angle	+/- 1.5°
Vertical Alignment	+/- L/100
Base Plate Alignment	+/- 2mm



L=	+/- 2mm per 1000mm
W=	+/- 2mm per 1000mm
D=	+/- 1.5mm

## LOAD BAR SPACING CHART

This chart indicates the dimensions of each grating type to the nearest load bar for series 1, 2 & 3 grating and the nearest full square for FRP grating.

Number of Bars:	Series 1: (30mm Load Bar Centres)	Series 2: (40mm Load Bar Centres)	Series 3: (60mm Load Bar Centres)	FRP:
2	35	45	65	44
3	65	85	125	82
4	95	125	185	120
5	125	165	245	158
6	155	205	305	196
7	185	245	365	235
8	215	285	425	273
9	245	325	485	311
10	275	365	545	349
11	305	405	605	387
12	335	445	665	425
13	365	485	725	463
14	395	525	785	501
15	425	565	845	539
16	455	605	905	577
17	485	645	965	616
18	515	685		654
19	545	725		692
20	575	765		730
21	605	805		768
22	635	845		806
23	665	885		844
24	695	925		882
25	725	965		920
26	755	1005		958
27	785			997
28	815			1035
29	845			1073
30	875			1111
31	905			1149
32	935			1187
33	965			1225
34	995			

\*Please note spacing's for series 1,2 & 3 are for 5mm thick load bars. For 3mm bars minus 2mm of each spacing.  
Eg- for series 1 grating 9 bars = 243mm, 21 bars = 603mm.

\*FRP grating load bar centres are 38.1mm.