



# Access Systems



A **valmont**  COMPANY





## Applications;

Conveyor walkways, chemical plants, screens, ramps, stairs, drains

## Materials

- Mild Steel
- Aluminium
- Stainless Steel
- FRP (*see following pages*)

## Surface options

Plain or Serrated (Steel or Aluminium only)  
Grit surface (FRP)

## Standard Treatments

- Mild Steel - Galvanised (G)
- Aluminium - Mill Finish (U)
- Stainless Steel - Electropolished (E)

## Variety of Patterns & Profiles

- Load bars at 30, 40 & 60mm centres
- Cross Rods at 50 or 100mm centres

Webforge Grating is the market leader based on our understanding of customer applications and how to specify the best pattern and profile for your project.

The most popular grating profiles have been listed *left* along with the maximum span suitable for 4kPa load with a 5mm deflection.

Webforge grating meets the requirements of AS1657.

Steel Grating	Load bar size mm	Mass kg/m <sup>2</sup>	Loadbar spacing mm	Crossrod spacing mm	4kPa 5mm defl span mm
A253MP	25x3	23.1	30	100	1250
A255MP	25x5	36.5	30	100	1410
A325MP	32x5	45.8	30	100	1680
A405MP	40x5	56.6	30	100	1980
C255MP	25x5	28.3	40	100	1320
C325MP	32x5	35.4	40	100	1580
F325MP	32x5	28.1	60	50	1360
Aluminium Grating	Load bar size mm	Mass kg/m <sup>2</sup>	Loadbar spacing mm	Crossrod spacing mm	4kPa 5mm defl span mm
A253AP	25x3	8.7	30	100	950
A255AP	25x5	13.3	30	100	1080
A325AP	32x5	16.5	30	100	1300
A405AP	40x5	20.2	30	100	1530
C255AP	25x5	10.5	40	100	1010
C325AP	32x5	12.9	40	100	1210
FRP Grating	Load bar size mm	Mass kg/m <sup>2</sup>	Loadbar spacing mm	Crossrod spacing mm	4kPa 5mm defl span mm
G256	25x6	12.1	38	38	750
G386	38x6	18.6	38	38	1050

For full load tables and further technical information please visit the Downloads section of our website, [www.webforge.com.au](http://www.webforge.com.au)

## Quick Guide to choosing the right flooring substrate

Load 2.5kPa/ Deflection 5mm			
Span mm	Steel	Aluminium	FRP
600	C205MP	A253AP	G256
900	C205MP	A253AP	G386
1200	C205MP	A255AP	G386
1500	A255MP	A403AP	
1800	A325MP	A503AP	
2100	A405MP		
Light occasional use. No public access • <b>AS1657</b>			

Load 5kPa/ Deflection 5mm			
Span mm	Steel	Aluminium	FRP
600	C205MP	A253AP	G256
900	C205MP	A253AP	G386
1200	C255MP	A325AP	
1500	C325MP	A503AP	
1800	A405MP	A503AP	
2100	A505MP		
Heavy use. Occasional placement of heavy tools • <b>AS1170</b>			

Load 3kPa/ Deflection 5mm			
Span mm	Steel	Aluminium	FRP
600	C205MP	A253AP	G256
900	C205MP	A253AP	G386
1200	C205MP	A323AP	
1500	A255MP	A405AP	
1800	A325MP	A505AP	
2100	A405MP		
Light occasional use. No public access • <b>AS1170</b>			

Load 5kPa/ Deflection 10mm			
Span mm	Steel	Aluminium	FRP
600	C205MP	A253AP	G256
900	C205MP	A253AP	G386
1200	C205MP	A255AP	G386
1500	A255MP	A403AP	
1800	A325MP	A503AP	
2100	C405MP		
Heavy use. Occasional placement of heavy tools • <b>AS1170</b>			

Load 4kPa/ Deflection 5mm			
Span mm	Steel	Aluminium	FRP
600	C205MP	A253AP	G256
900	C205MP	A255AP	G386
1200	F255MP	A325AP	
1500	F325MP	A405AP	
1800	C405MP	A505AP	
2100	C505MP		
Heavy frequent use. Public access • <b>AS1170</b>			

Load 7.5kPa/ Deflection 10mm			
Span mm	Steel	Aluminium	FRP
600	A205MP*	A253AP	G256
900	A205MP*	A255AP	G386
1200	A205MP*	A325AP	
1500	C325MP*	A405AP	
1800	A405MP*	A505AP	
2100	C505MP*		
Heavy use. Frequent placement of heavy tools • <b>AS1170</b>			

Note kPa: kilopascals. Expression of Uniformly Distributed Load

Other combinations of pattern and load bar are available beyond those indicated on the Quick guide.



### A PATTERN

30mm Load Bar Pitch  
100mm Cross Rod Pitch



### C PATTERN

40mm Load Bar Pitch  
100mm Cross Rod Pitch



### F PATTERN

60mm Load Bar Pitch  
50mm Cross Rod Pitch

For details & drawings of all patterns, please see our website, [www.webforge.com.au](http://www.webforge.com.au)



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# MONOWILLS HANDRAIL AND STANCHIONS



## Applications;

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## Materials

- Mild Steel
- Aluminium
- Stainless Steel

## Standard Treatments

- Mild Steel - Galvanised (G)
- Aluminium - Mill Finish (U)
- Stainless Steel - Electropolished (E)

Monowills Handrail and stanchions are available in fully fabricated barriers, ready for installation or as separate componentry.

Look for the Monowills name to ensure you're getting Webforge quality.

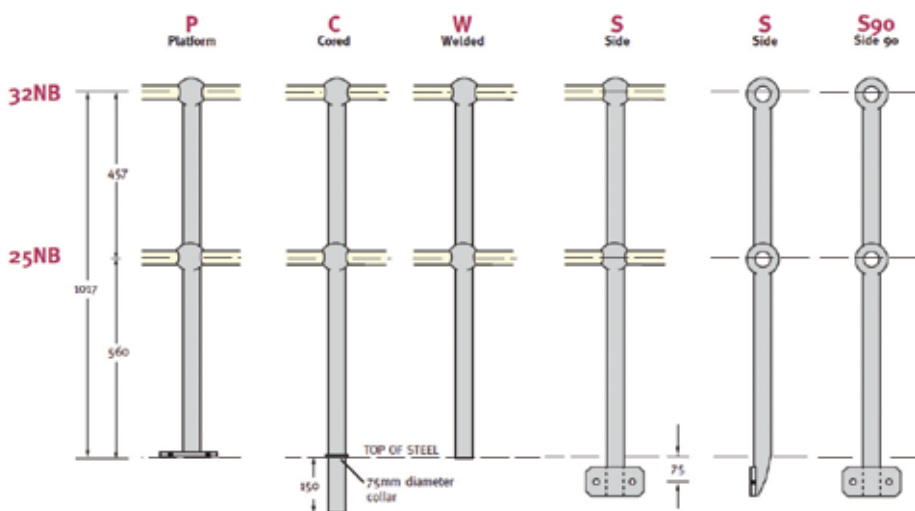
The most popular stanchions are outlined below.

Webforge can also supply the following components:

- Rail bends
- Gates
- Closure Bends

Stanchions are available in other forms with or without kickplate mounting brackets, and can be drilled one side only (DOSO). Angle mounted stanchions can be supplied with any angle between 1 to 45 degrees. Monowills™ stanchions have been tested in accordance with AS1657 and can be installed at intervals up to 2000mm for steel units.

For further technical information please visit the Downloads section of our website, [www.webforge.com.au](http://www.webforge.com.au)





## Applications;

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## Resin Types

- Isophthalic Polyester
- Vinyl Ester
- Phenolic (by request only)

## Surface features

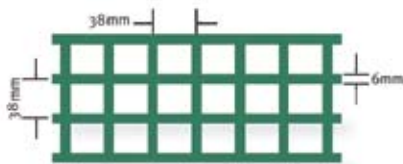
Grit Top (std) or plain

FRP is a moulded, one-piece, light weight, fibreglass reinforced plastic grating, designed specifically for corrosive environments.

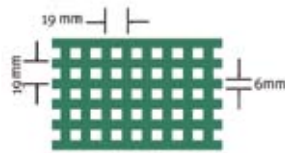
FRP grating is manufactured as an integral one piece material with continuous glass fibre strands woven in alternating layers, thoroughly wetted with the appropriate resin for excellent corrosion resistance.

The vertical surface is smooth with tapered bars to allow debris to fall through.

## Two mesh profiles:



Standard Mesh



Mini Mesh

Product	Load Bar Size mm	Loadbar Spacing mm	Mass kg/m <sup>2</sup>	4kPa 5mm Defl Span		SPAN mm				
						450	600	750	900	1200
G256	6 x 25	38	12.1	750	U	12	6	2.5	2	
					D	2	2.9	3.5	4.7	
G386	6 x 38	38	18.6	1050	U	20	15	10	7.5	3
					D	1.4	2.1	3.4	4.8	6.1
G38619	6 x 38	19	23.1	1140	U	25	20	15	10	4
					D	1.1	2.1	3.8	4.9	6.1

For a full Chemical Resistance table, please visit the downloads section of our website; [www.webforge.com.au](http://www.webforge.com.au)

# STAIR TREADS



Webforge stair treads are available in a variety of grating profiles and tread types. The most popular treads are the T1 and T6 treads.

## Steel Treads

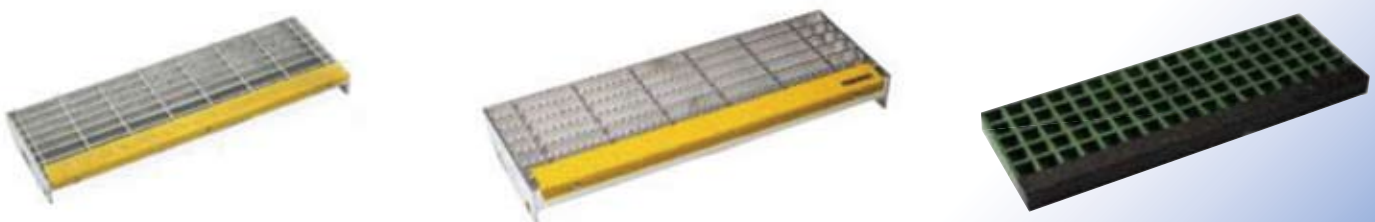
## Aluminium Treads

## FRP Treads

T1 – Welded Fixing, Banded Ends, No Nosing



T6 – Bolted Fixing, Holed Endplates, Abrasive Nosing



For the complete range of stair treads, visit our website.

[www.webforge.com.au](http://www.webforge.com.au)

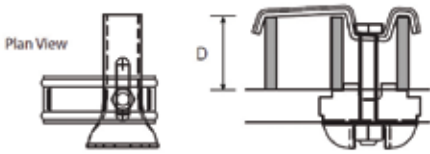


# FIXING METHODS + INSTALLATION

## Welding

Webforge recommends welding to the support structure as the most suitable process. Minimum required number of welds is four per panel. Weld 5mm fillet welds 25mm long at 1000mm centres.

## Clip Assemblies



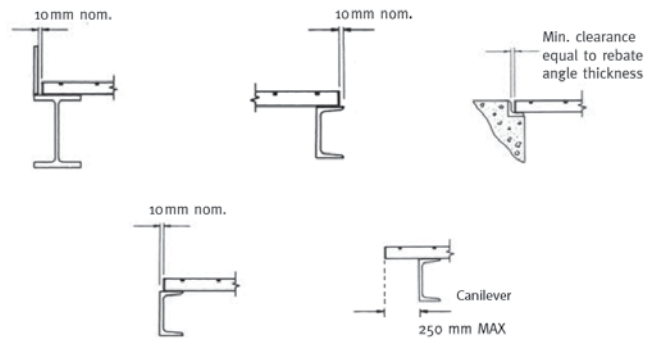
**C001MG** is a galvanized clip set that consists of a pre-assembled 'clip top', M8 Bolt and nut and a bottom bracket, that captivates the nut, allowing fixing from the top of the grating. It enables rapid and secure connection of grating to steel support structures.

**Clip Frequency** – NOMINAL 4 per panel.  
Approximately 3 per m<sup>2</sup> where span is >1500mm.  
5 per m<sup>2</sup> where span is 750mm or less. Fixing clips are not generally recommended in areas of vibration or where lateral loads are applied to the grating.

## Installation Details

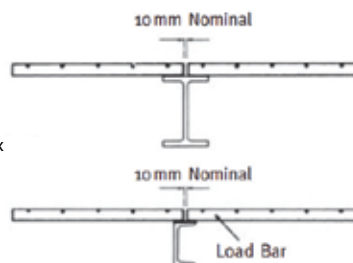
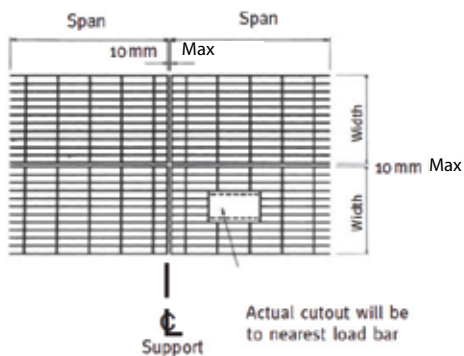
### Minimum Support Dimensions:

A minimum of 25mm for load bars up to 50mm deep and a minimum of 50mm for load bars > 50mm deep. Webforge recommends that the land on the support should be equal to the height of the load bar.



### Grating Cantilevers:

Grating cantilevers up to 250mm in the load bar direction are acceptable as long as the grating is securely anchored to the supports (not clips). Cantilevers in the cross rod direction are not acceptable.







**For more information contact:**

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*Webforge reserves the right to make technical changes without notice. July 2014*

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