

## Technical Data Sheet Grip Restraint Bar

### Application Area:

At changes of angle and other interfaces such as parapets, the single ply membrane requires termination at this point to ensure adequate securement of the waterproofing membrane.

The termination details commonly used require a restraint bar which offers a linear restraint of the single ply roofing membrane.

The completed waterproofing detail incorporates a cover strip of single ply membrane as part of the complete waterproofing detail.

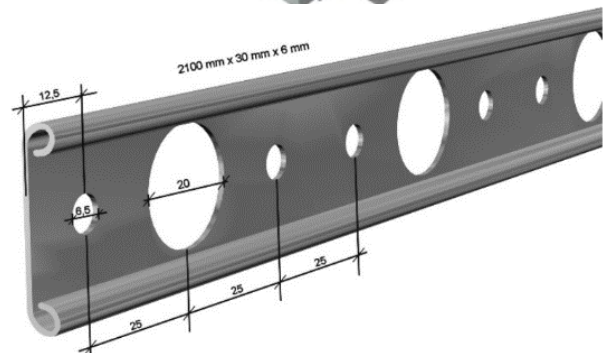
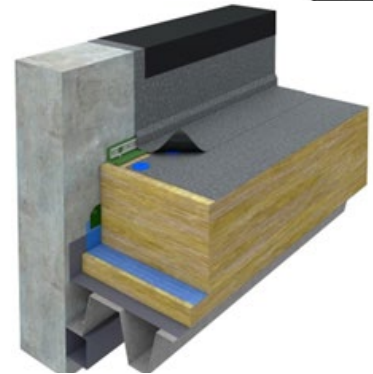
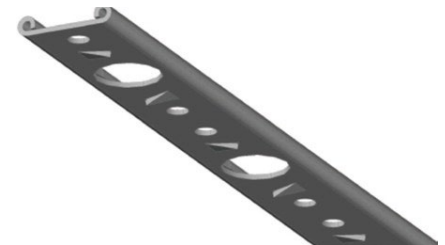
The strength and rigidity of the restraint bar ensures that horizontal and vertical forces in the roofing membrane are transferred as an evenly distributed load.

### Specification:

The Grip Restraint Bar is 1.5mm thick cold formed, zinc coated steel and complies with European standard EN 10346: 2009.

Grip Restraint Bars have 20mm dia. pre-drilled holes for insertion of fasteners complete with thermally broken tubes.

Between the 20mm dia. holes there are 2 x 6.5mm dia. pre-drilled holes at a distance of 25mm apart for screws without sleeves. On the underside, the bar has "teeth" facing both directions to provide for extra "grip" on the membrane.



### Dimensions:

CHARACTERISTICS	TICSPERFORMANCE
Height	30mm
Length	2m
Width	1.5mm

### Mechanical Properties:

CHARACTERISTICS	PERFORMANCE		
R <sub>m</sub>	Min-Max	270-550 N/mm <sup>2</sup>	EN 10346:2009
A <sub>801</sub>	Min	22%	EN 10346:2009
Thickness	Max	± 0.12 mm	EN 10143:2006

The values shown for the mechanical properties in table below are for test pieces taken transverse to the rolling direction.

1. For thicknesses >0.5mm and ≤0.7mm (including coating), the minimum elongation after fracture is decreased by 2 units. For thicknesses ≤0.5mm, the reduction is 4 units.

### Chemical Composition:

The Grip Restraint Bar meets the requirements of the cast analysis according to EN10346:2009 shown in table below:

C	Si	Mn	P	S	Ti
Max	Max	Max	Max	Max	Max
0.12	0.50	0.60	0.10	0.045	0.30

All values are in weight percentage

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