lichtgitter UK

Forge Welded Metal Gratings

Data Sheet

Open Steel Gratings - SP325-21/50-3

Forge Welded gratings are especially designed for platforms, landings and walkways for use in all types of industrial applications. Their specific features include, an excellent loading bearing capacity coupled with torsional rigidity, and are particular suited where heavy duty gratings are required. Corresponding welding between load bars and cross bars allows them to withstand shearing forces without any issues. Suitable depths and mesh patterns are specified based on using static and dynamic loading in conjunction with the required clear span.

Technical Details

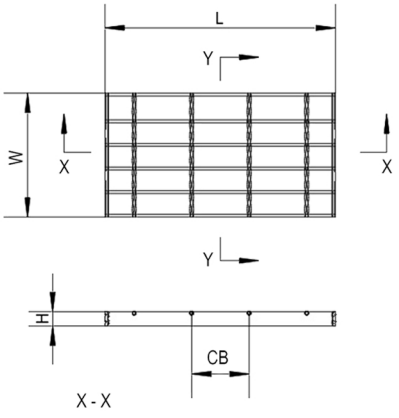
			Standard
Material		Mild Steel S275JR	BS EN 10025
Finish		Self Colour, Galvanised	BS EN ISO 1461
Depth		25mm	
Thickness	Load Bar (LB)	3mm	
	Cross Bar (CB)	5 to 6mm (Diagonal)	
Slip Resistance, Surface Type		Galv, PTV 40 (Wet), Plain	BS7976
Mesh Pitch		21mm x 50mm, 20mm Ball proof	BS EN ISO 14122
Standard Stocked Sizes		6000mm x 1000mm (L x W)	
Weight (per m2)		28.3kg	

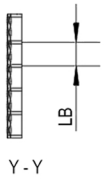
Loading

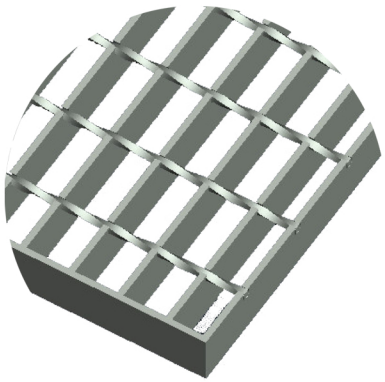
Max Clear Span	1068mm	*Clear distance between supports
Uniform Distributed Load (UDL)	5kN/m2	UDL to conform to **EN ISO 14122
UDL Deflection	2.23mm	Deflection for UDL at given span
Point Load	1.5kN	Point Load to conform **EN ISO 14122
Contact Area	200 x 200mm	Point load area
Point Load Deflection	3.99mm	Deflection for Point Load load at given span
Fixing compatability	B133T	

*Supports must be fully supported on two opposing sides of the clear span

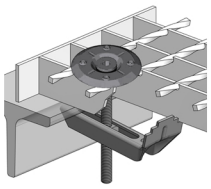
** EN ISO 14122 states deflection between adjacent loaded and unloaded panels must not exceed 4mm







Fixing Types



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