

Decksafe Products - Load and Deflection Table

MARINE DECKING - open hole 12mm x 12mm			Unsupported Span (unfixed) over a 1m length						
Panel Thickness	Weight kg/m ²	Load Type	300mm	500mm	600mm	750mm	1000mm	1200mm	1500mm
14mm	10kg	Point Load	276kg	99kg	69kg	44kg	25kg	17kg	11kg
		UDL	932kg	334kg	194kg	99kg	42kg	24kg	12kg
22mm	14.5kg	Point Load	879kg	316kg	220kg	141kg	79kg	55kg	35kg
		UDL	1884kg	1062kg	615kg	315kg	390kg	77kg	39kg
30mm	18kg	Point Load	1950kg	925kg	643kg	411kg	231kg	161kg	103kg
		UDL	4056kg	2433kg	1804kg	924kg	390kg	226kg	115kg
38mm	24kg	Point Load	3101kg	1861kg	1294kg	828kg	466kg	324kg	207kg
		UDL	6450kg	3870kg	3225kg	1861kg	785kg	454kg	233kg
INDUSTRIAL CLADDING - open hole 45mm x 45mm			Unsupported Span (unfixed) over a 1m length						
Panel Thickness	Weight kg/m ²	Load Type	300mm	500mm	600mm	750mm	1000mm	1200mm	1500mm
12mm	4.5	Point Load	55	20	14	9	5	3	2
		UDL	475	158	92	47	20	11	6
INDUSTRIAL GRATING - open hole 32mm x 32mm			Unsupported Span (unfixed) over a 1m length						
Panel Thickness	Weight kg/m ²	Load Type	300mm	500mm	600mm	750mm	1000mm	1200mm	1500mm
25mm	12kg	Point Load	1290kg	464kg	322kg	206kg	116kg	81kg	52kg
		UDL	2292kg	1375kg	850kg	435kg	184kg	106kg	54kg
38mm	18kg	Point Load	3179kg	1698kg	1179kg	755kg	425kg	295kg	189kg
		UDL	6356kg	3814kg	3179kg	1834kg	774kg	448kg	229kg
INDUSTRIAL GRATING - open hole 42mm x 42mm			Unsupported Span (unfixed) over a 1m length						
Panel Thickness	Weight kg/m ²	Load Type	300mm	500mm	600mm	750mm	1000mm	1200mm	1500mm
50mm	23	Point Load	4944kg	2967kg	2414kg	1545kg	869kg	603kg	386kg
		UDL	9888kg	5933	4944kg	3754kg	1584kg	916kg	469kg
INDUSTRIAL GRATING - solid top			Unsupported Span (unfixed) over a 1m length						
Panel Thickness	Weight kg/m ²	Load Type	300mm	500mm	600mm	750mm	1000mm	1200mm	1500mm
18mm	14kg	Point Load	875kg	315kg	219kg	140kg	79kg	55kg	35kg
		UDL	2302kg	1062kg	615kg	315kg	133kg	77kg	39kg
30mm	20kg	Point Load	4057kg	2010kg	1396kg	894kg	503kg	349kg	223kg
		UDL	8438kg	5063kg	3754kg	1922kg	811kg	469kg	240kg
43mm	25kg	Point Load	7729kg	4637kg	3245kg	2077kg	1168kg	811kg	519kg
		UDL	16075kg	9645kg	8038kg	5248kg	2214kg	1281kg	656kg

Calculations are based around a 1% Deflection when the load (kg) is applied

Quality Assurance

ISO 9001 All Fibreglass products are manufactured using high quality corrosion resistant polyester resins with pure glass fibre roving reinforcements. Fibreglass grating is pigmented throughout to the above RAL colour and all products contain fire Resistant Additive as standard.

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