



CAPE GRATING

Suppliers of steel and fiberglass floor grating

Grating Safe Load Tables

* Loads determined by Max Deflection (1 / 200 of span or 10mm max)

U = Uniformly distributed load in Kg per m²

C = Concentrated load in Kg / m

SS 43/50 & SS 43/100 Span (mm)								
Bearer Bar Size		500mm	750mm	1000mm	1250mm	1500mm	1750mm	2000mm
25 x 4,5mm	U	6050 kg	2685 kg	1140 kg	580 kg	309 kg	---	---
	C	1510 kg	1000 kg	756 kg	432 kg	295 kg	---	---
30 x 4,5mm	U	8700 kg	3870 kg	1980 kg	1015 kg	535 kg	338 kg	---
	C	2180 kg	1450 kg	1090 kg	870 kg	518 kg	369 kg	---
40 x 4,5mm	U	15485 kg	6880 kg	3870 kg	2475 kg	1270 kg	800 kg	528 kg
	C	3875 kg	2580 kg	1935 kg	1548 kg	1290 kg	873 kg	672 kg
50 x 4,5mm	U	24190 kg	10752 kg	6048 kg	3870 kg	2688 kg	1560 kg	1025 kg
	C	6048 kg	4032 kg	3027 kg	2415 kg	2016 kg	1728 kg	1305 kg
For load bearing of SS 86/50 & SS 86/100, half of the mass loadings above apply								

SS 50/50 & SS 50/100 Span (mm)								
Bearer Bar Size		500mm	750mm	1000mm	1250mm	1500mm	1750mm	2000mm
25 x 4,5mm	U	5186 kg	2301 kg	977 kg	497 kg	265 kg	---	---
	C	1294 kg	857 kg	648 kg	370 kg	253 kg	---	---
30 x 4,5mm	U	7457 kg	3317 kg	1697 kg	8705 kg	459 kg	290 kg	---
	C	1869 kg	1243 kg	934 kg	746 kg	444 kg	316 kg	---
40 x 4,5mm	U	13273 kg	5897 kg	3317 kg	2121 kg	1089 kg	686 kg	453 kg
	C	3321 kg	2211 kg	1659 kg	1327 kg	1106 kg	748 kg	576 kg
50 x 4,5mm	U	20734 kg	9216 kg	5184 kg	3317 kg	2304 kg	1337 kg	879 kg
	C	5184 kg	3456 kg	2595 kg	2070 kg	1728 kg	1481 kg	1119 kg
For load bearing of SS 100/50 & SS 100/100, half of the mass loadings above apply								

Length x Span
(first dimension being direction of bearer bar)

2 400 mm x 1 200 mm



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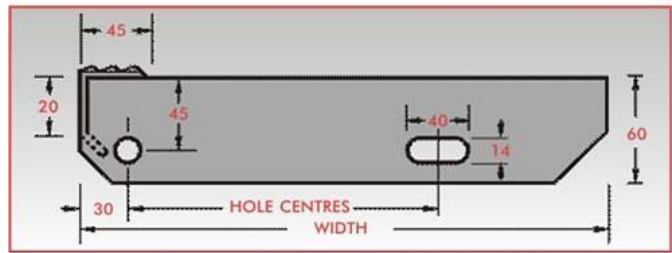
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Grating Mass (kg)

Grating Type	Bearer Bar	Transverse Bar	Mass Per Standard Panel	
			Uncoated / Black Bitumen Dipped	Galvanised
SS 43 / 50	25 x 4,5 mm	6 mm	70,60 kg	77,70 kg
		8 mm	79,50 kg	87,38 kg
	30 x 4,5 mm	6 mm	82,50 kg	89,90 kg
		8 mm	91,50 kg	99,55 kg
	40 x 4,5 mm	6 mm	106,50 kg	115,00 kg
8 mm		115,00 kg	124,04 kg	
50 x 4,5 mm	8 mm	139,00 kg	150,16 kg	
	SS 50 / 50	25 x 4,5 mm	6 mm	65,60 kg
8 mm			75,80 kg	83,40 kg
30 x 4,5 mm		6 mm	76,10 kg	82,90 kg
		8 mm	86,30 kg	94,09 kg
40 x 4,5 mm		6 mm	98,90 kg	104,57 kg
	8 mm	107,10 kg	115,66 kg	
50 x 4,5 mm	8 mm	128,50 kg	138,71 kg	



Stair Treads



Stair Treads up to 750mm long have 25mm x 4,5mm bearer bars. Between 751mm and 1000mm the bearer bars are 30mm x 4,5mm.

Tolerance : ± 5 mm on width, +0-2mm on length.
Stair Treads in non-standard sizes are available on request.

Specifications

Length (mm)	Width (mm)	Hole Centres (mm)	Bearer Bars
500	205	115	25 x 4,5
	245	150, 115	
600	205	115	25 x 4,5
	245	150, 115	
750	205	115	25 x 4,5
	245	150, 115	
	285	180, 150, 115	
900	205	115	30 x 4,5
	245	150, 115	
	285	180, 150, 115	
1000	205	115	30 x 4,5
	245	150, 115	
	285	180, 150, 115	