CUBE®

PcP Engineering Safety™

Loading Chart

CUBE Gratings in kilo Newtons per square metre (kN/m²)

1kN ≈ 100 kilos

Figures detailed below are calculated in accordance with BS4592-0: 2006 +A1: 2012.
Loadings reduced to maintain deflections within 1/200th of the clear span or 10mm whichever the lesser.
In addition to the distributed load the gratings also fullfill a concentrated load on the edge with a
1.5kN / 200x200mm contact area based on max 4mm deflection OR L/200 as listed

Product Type	Profile	Weight m²*	Loading Category	Max Clear Span L/200 or 4mm max deflection	Max Clear Span L/200 or 10mm max Deflection
CUBE 405 (40mm FFL)	500/40+15 (incl 3 off 35x3mm bars)	23,4	5 kN/m²	1450 mm	1650 mm
			7.5 kN/m²	1300 mm	1350 mm
	500/40+15 (incl 5 off 35x3mm bars)	26,9	5 kN/m²	1500 mm	1850 mm
			7.5 kN/m²	1350 mm	1500 mm
CUBE 40 (40mm FFL)	200/40+15	24	5 kN/m²	1670 mm	1990 mm
			7.5 kN/m²		1710 mm
	240/40+15	23	5 kN/m²	1630 mm	1850 mm
			7.5 kN/m²	1530 mm	1530 mm
CUBE 50 (50mm FFL)	200/50+20	25,0	5 kN/m²	2050 mm	2330 mm
			7.5 kN/m²		2100 mm
	240/50+20	24,0	5 kN/m²	2010 mm	2200 mm
			7.5 kN/m²	1940 mm	1940 mm
CUBE 60 (60mm FFL)	200/60+20	26,0	5 kN/m²	2320 mm	2600 mm
			7.5 kN/m²		2350 mm
	240/60+20	25,0	5 kN/m²	2200 mm	2460 mm
			7.5 kN/m²		2200 mm

* Weight based on approx m² grating

The above chart is to assist in identifying the nearest specification to your requirements

Please contact PcP Gratings Ltd for alternative loading calculations / plank profiles.

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