





01/08/2023





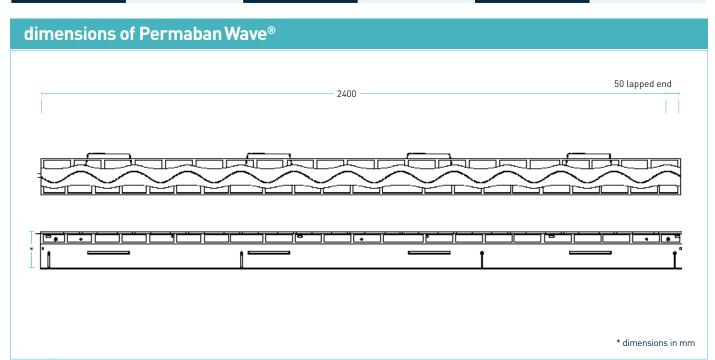


Permaban Wave®

Specification Sheet Issue 2.4 01/08/2023

manufacturing tolerances

 Length
 ±2.0mm
 Height
 ±1mm
 Straightness
 ±0.5mm/600mm



dimensions and weight of Permaban Wave®								
Nominal Slab Depth (mm)	Joint Height, h (mm)	Dowel Size (mm)	Dowel Centres (mm)	Length (mm)	Single Joint Weight (kg)	Number Per Bundle	Bundle Weight (kg)	
150 - 200	140 - 180	151 x 120 x 8	600	2400	28.5	50	1550	
225	200				31.5	44	1511	
250	225				32.5	44	1555	
275	250				33.5	33	1230.5	
300	275				34.5	33	1263.5	
325	300				35.5	33	1296.5	

Typical height and length values shown only. Weight values shown are based on Permaban Wave® including TD8 dowels and are approximate.











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Specification Sheet Issue 2.4 01/08/2023

materials						
Component	Material					
Non impact steel top provides joint arris	EN 10277-1:2018 S235JRC					
Sheet steel formwork	EN 10130:2006 DC01					
Plate dowel	BS EN 10025-2:2004 S275JR					
Plate dowel sleeve	HDPP					

theoretical calculated ultimate loads at failure of dowel or concrete (For typical slabs, 40N/mm² concrete and 20mm joint opening) **Unreinforced Slab** Bending (kN/m) Slab Depth (mm) **Dowel Type** Bursting (kN/m) TD8 35.7 87.2 **Extender Plate To Suit** 150 - 200 TD10 35.7 124.7 87.2 TD8 60.7 TD10 60.7 124.7 TD8 72.6 87.2 TD10 72.6 124.7 TD8 85.6 87.2 TD10 85.6 124.7 TD8 86.9 87.2 TD10 86.9 124.7 82.1 87.2 TD8 TD10 82.1 124.7







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Specification Sheet Issue 2.4 01/08/2023



Ultimate load (kN/m)

This table shows the load at failure in bursting (failure of the concrete) and bending (failure of the dowel) for a joint opening of 20mm - larger joint openings can be accommodated. The ultimate load has been calculated in accordance with TR34 4th Edition. Dowel positions taken at mid depth of slab. For more detailed analysis please contact RCR Flooring Products Ltd.

*All design calculations should be verified by a suitably qualified structual engineer.

