

Specification Sheet Issue 3.9 01/09/2024











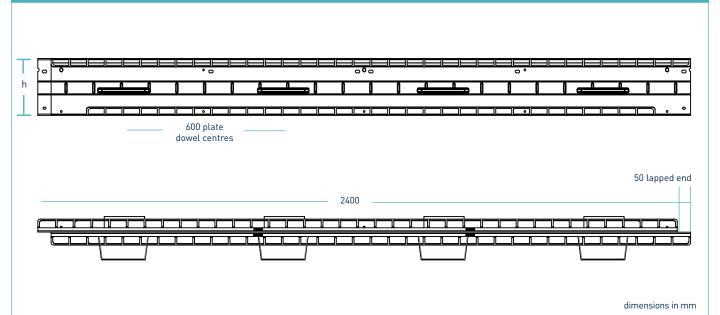
Permaban Eclipse®

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manufacturing tolerances

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

$\ \ \, \text{dimensions of Permaban Eclipse} \\ \ \ \, \text{}$



dimensions and weight of Permaban Eclipse®

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	125	151 x 120 x 8	600	2400	17.5	75	1437.5
175	150				19.5	65	1392.5
200	175				21.5	52	1243
225	200				23.5	52	1347
250	225				25.5	39	1119.5

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

materials

materials						
Component	Material					
Joint arris armouring	EN 10346:2015 Dx51D+Z & EN 10025-2:2004 S275JR					
Plate dowel	EN 10025-2:2004 S275JR					
Plate dowel sleeve	HDPP					











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theoretical calculated ultimate loads at failure of dowel or concrete

(For typical slabs, 40N/mm2 cond	crete and 20mm joint opening)	Unreinforced Slab		
Slab Depth (mm)	Dowel Type	Bending (kN/m)	Bursting (kN/m)	
	TD6	30.2	53.0	
150	TD8	30.2	86.2	
	TD10	30.2	123.0	
	TD6	38.7	53.0	
175	TD8	38.7	86.2	
	TD10	38.7	123.0	
	TD6	48.3	53.0	
200	TD8	48.3	86.2	
	TD10	48.3	123.0	
	TD6	58.8	53.0	
225	TD8	58.8	86.2	
	TD10	58.8	123.0	
	TD6	70.3	53.0	
250	TD8	70.3	86.2	
	TD10	70.3	123.0	
	TD6	82.9	53.0	
275	TD8	82.9	86.2	
	TD10	82.9	123.0	
	TD6	84.2	53.0	
300	TD8	84.2	86.2	
	TD10	84.2	123.0	
	TD6	79.5	53.0	
325	TD8	79.5	86.2	
	TD10	79.5	123.0	







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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.

