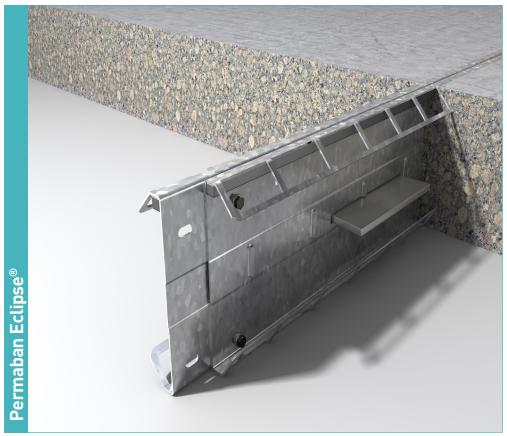
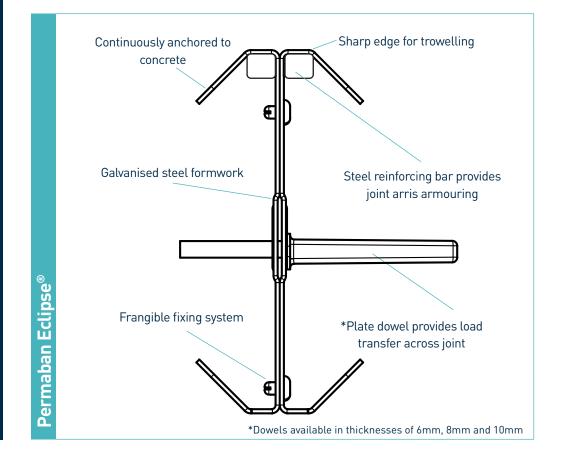


# ermaban

















### Permaban Eclipse®

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### manufacturing tolerances

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

## dimensions of Permaban Eclipse® h 600mm plate dowel centres 50mm lapped end

### 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	130	151 x 120 x 8	600	2400	17.5	65	1262.5		
175	150				19.5	65	1392.5		
200	175				21.5	52	1243		
225	200				23.5	52	1347		

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

### materialsComponentMaterialJoint arris armouringEN 10346:2015 Dx51D+ZPlate dowelEN 10025-2:2004 S275JRPlate dowel sleeveHDPP











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### theoretical calculated ultimate loads at failure of dowel or concrete

(For typical slabs, 40N/mm2 con-	crete and 20mm joint opening)	Unreinforced Slab			
Slab Depth (mm)	Dowel Type	Bending (kN/m)	Bursting (kN/m)		
	TD6	35.7	53.4		
150	TD8	35.7	87.2		
	TD10	35.7	124.7		
	TD6	35.7	53.4		
175	TD8	35.7	87.2		
	TD10	35.7	124.7		
	TD6	35.7	53.4		
200	TD8	35.7	87.2		
	TD10	35.7	124.7		
	TD6	60.7	53.4		
225	TD8	60.7	87.2		
	TD10	60.7	124.7		
	TD6	72.6	53.4		
250	TD8	72.6	87.2		
	TD10	72.6	124.7		
	TD6	85.6	53.4		
275	TD8	85.6	87.2		
	TD10	85.6	124.7		
	TD6	86.9	53.4		
300	TD8	86.9	87.2		
	TD10	86.9	124.7		
	TD6	82.1	53.4		
325	TD8	82.1	87.2		
	TD10	82.1	124.7		







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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 position taken at mid depth of slab. For more detailed analysis please contact RCR Flooring Products Ltd.

\*All design calcultions should be verified by a suitably qualified structural engineer

