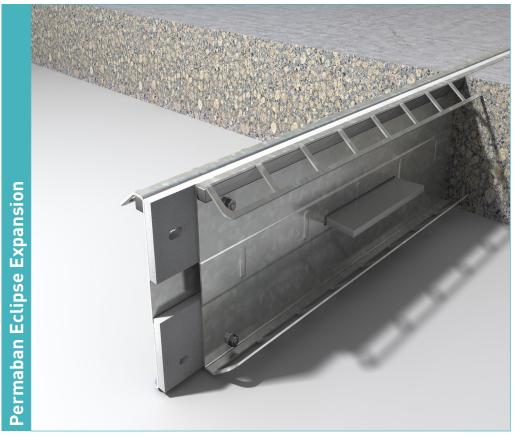
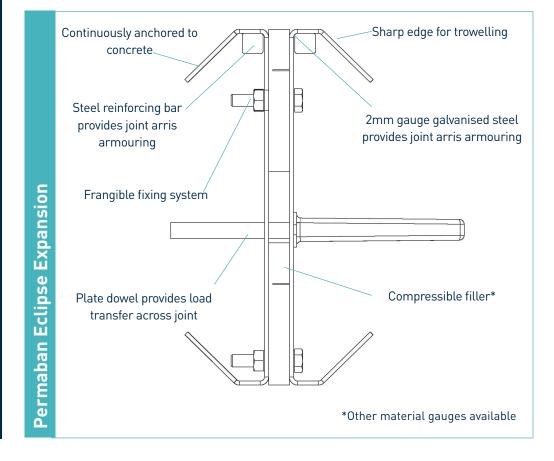


# ermaban Eclipse

Specification Sheet

Issue 1.1. 14/04/2020













t: +44 1752 895288 | f: +44 1752 395800 | e: info@rcrflooringproducts.com

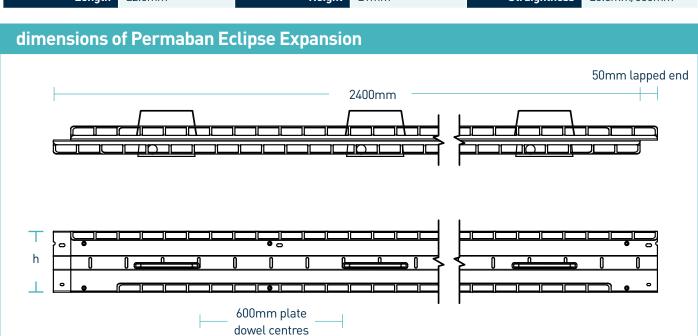


# Permaban Eclipse Expansion

Specification Sheet Issue 1.1 14/04/2020

### manufacturing tolerances





# dimensions and weight of Permaban Eclipse Expansion

Nominal Slab Depth (mm)	Joint Height, h (mm)	Dowel Size (mm)	Dowel Centres (mm)	Length (mm)	Single Joint Weight (kg)	Number Per Bundle	Weight per bundle incl packaging @ 120 kg
150	130	151 x 120 x 8	600	2400	15.3	72	1222 kg
175	150				17.0	60	1140 kg
200	175				19.5	48	1056 kg
225	200				21.4	48	1147.2 kg

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

materials						
Component	Material					
Joint arris armouring	EN 10346: 2015 Dx514+Z					
Plate dowel	EN 10025-2: 2004 S275JR					
Plate dowel sleeve	HDPP					











# Permaban Eclipse Expansion

Specification Sheet Issue 1.1 14/04/2020

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

(For typical slabs, 40N/n	nm <sup>2</sup> concrete and <b>20mm</b> joint opening)	Unreinforced Slab		
Slab Depth (mm)	Dowel Type	Bursting (kN/m)	Bending (kN/m)	
	TD6	31.2	53.4	
150	TD8	31.2	87.2	
	TD10	31.2	124.7	
	TD6	40.0	53.4	
175	TD8	40.0	87.2	
	TD10	40.0	124.7	
	TD6	49.9	53.4	
200	TD8	49.9	87.2	
	TD10	49.9	124.7	
	TD6	60.7	53.4	
225	TD8	60.7	87.2	
	TD10	60.7	124.7	
	TD6	72.4	53.4	
250	TD8	72.4	87.2	
	TD10	72.4	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	







RCR Flooring Products Limited
Mill Close, Lee Mill Industrial Estate, Ivybridge, Devon, PL21 9GL
t: +44 1752 895288 | f: +44 1752 395800 | e: info@rcrflooringproducts.com



# Permaban Eclipse Expansion

Specification Sheet Issue 1.1 14/04/2020



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 200m – larger joint openings can be accommodated. The ultimate load has been calculated in accordance with TR34 4th edition. Dowel position taken at mid depth slab. Fore more detailed analysis please contact RCR Flooring Products Ltd.

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

