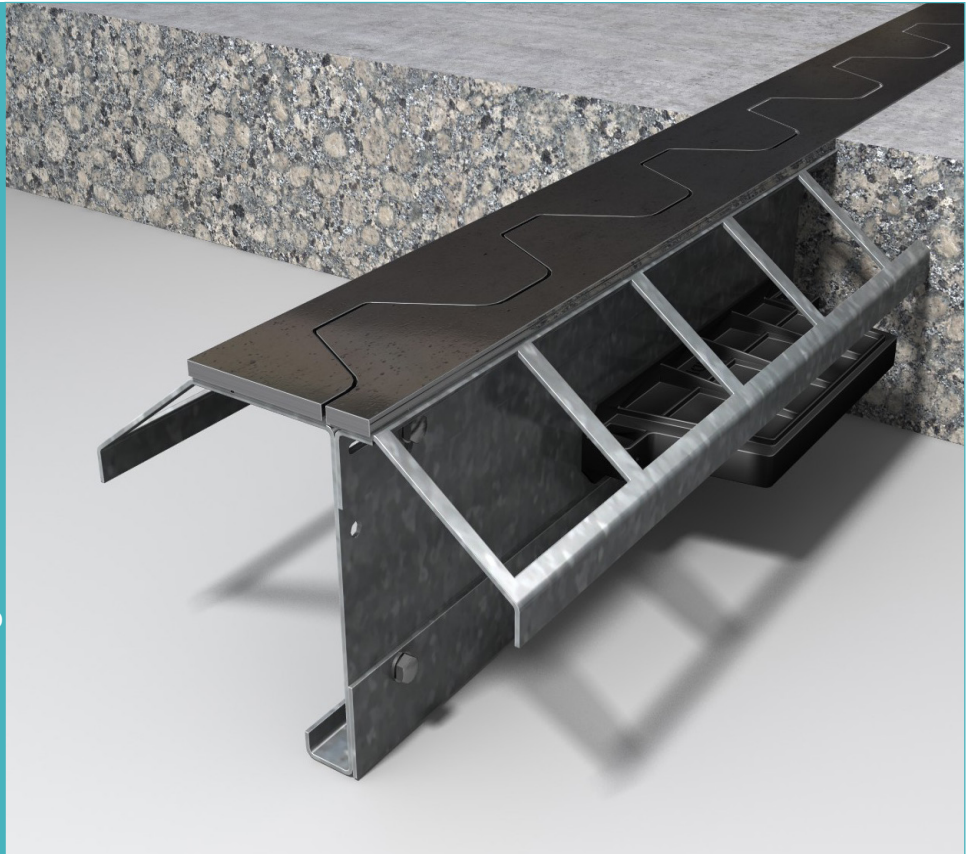


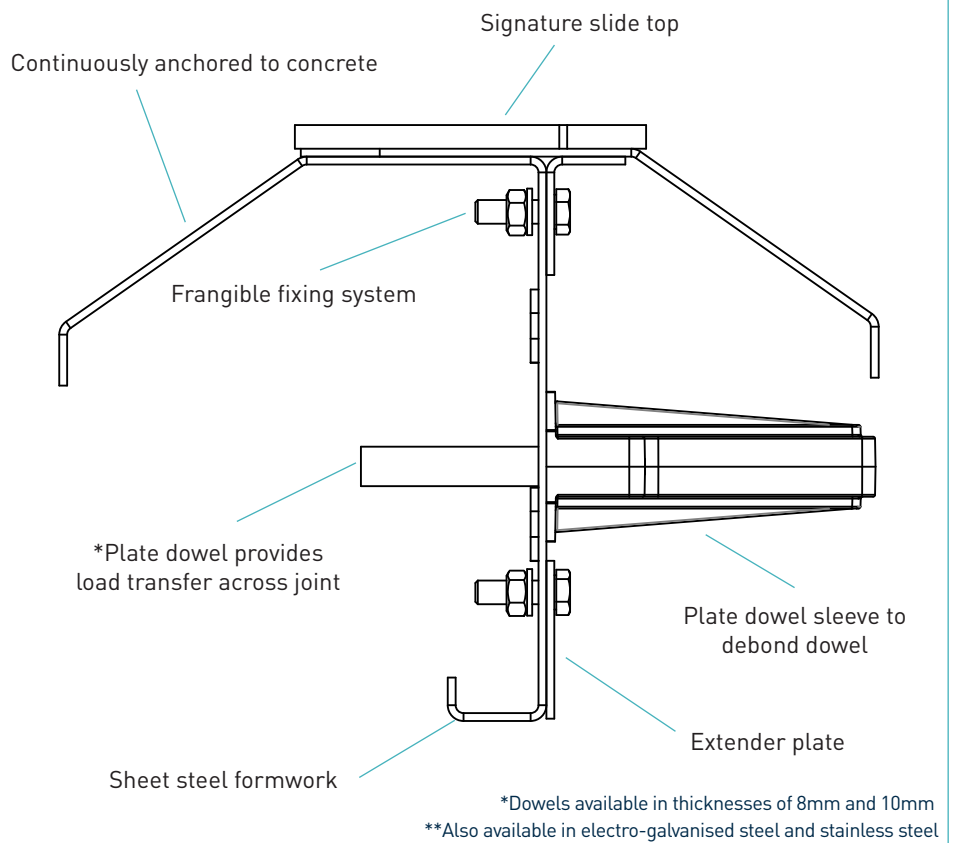
Permaban SignatureSlide

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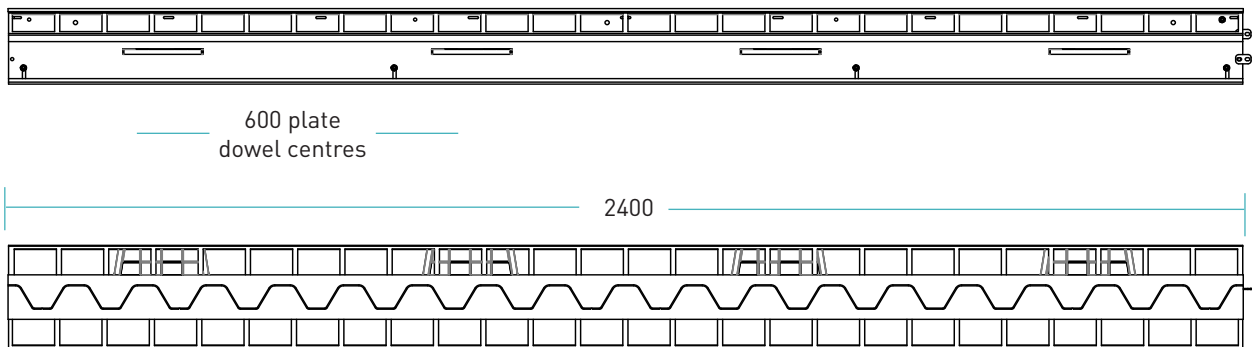
manufacturing tolerances

Length ±2.0mm

Height ±1mm

Straightness ±0.5mm/600mm

dimensions of Permaban SignatureSlide



dimensions in mm

dimensions and weight of Permaban SignatureSlide

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	30.6	28	982
175	150				31.5	48	1637
200	175				32.5	48	1685
225	200				33.4	32	1194
250	225				34.3	24	949

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

materials

Component	Material
Joint arris armouring	EN 10277-1:2018 S235JRC
Sheet steel formwork	EN 10130:2006 DC01
Plate dowel	BS 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 concrete and 200mm joint opening)

Slab Depth (mm)	Dowel Type	Unreinforced Slab	
		Bursting (kN/m)	Bearing/Bending
150	TD8	35.7	87.2
	TD10	35.7	124.7
175	TD8	35.7	87.2
	TD10	35.7	124.7
200	TD8	35.7	87.2
	TD10	35.7	124.7
225	TD8	60.7	87.2
	TD10	60.7	124.7
250	TD8	72.6	87.2
	TD10	72.6	124.7
275	TD8	85.6	87.2
	TD10	85.6	124.7
300	TD8	86.9	87.2
	TD10	86.9	124.7
325	TD8	82.1	87.2
	TD10	82.1	124.7

Ultimate load (kN/m)

Permaban joints are compatible with all grades of concrete in accordance with EN206. 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 calculations should be verified by a suitably qualified structural engineer.

