permaban®

Permaban SignatureSlide

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Continuously anchored to concrete

Signature Slide top

Frangible fixing system

*Plate dowel provides load transfer across joint

Plate dowel sleeve to debond dowel

Sheet steel formwork

*Dowels available in thicknesses of 8mm and 10mm

Specification Sheet
Issue 2.0
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RCR Flooring Products

bsi ISO 9001 Quality Management Systems CERTIFIED | ISO 14001 Environmental Management CERTIFIED | ISO 45001 Occupational Health and Safety Management CERTIFIED

Concrete Society

acifc

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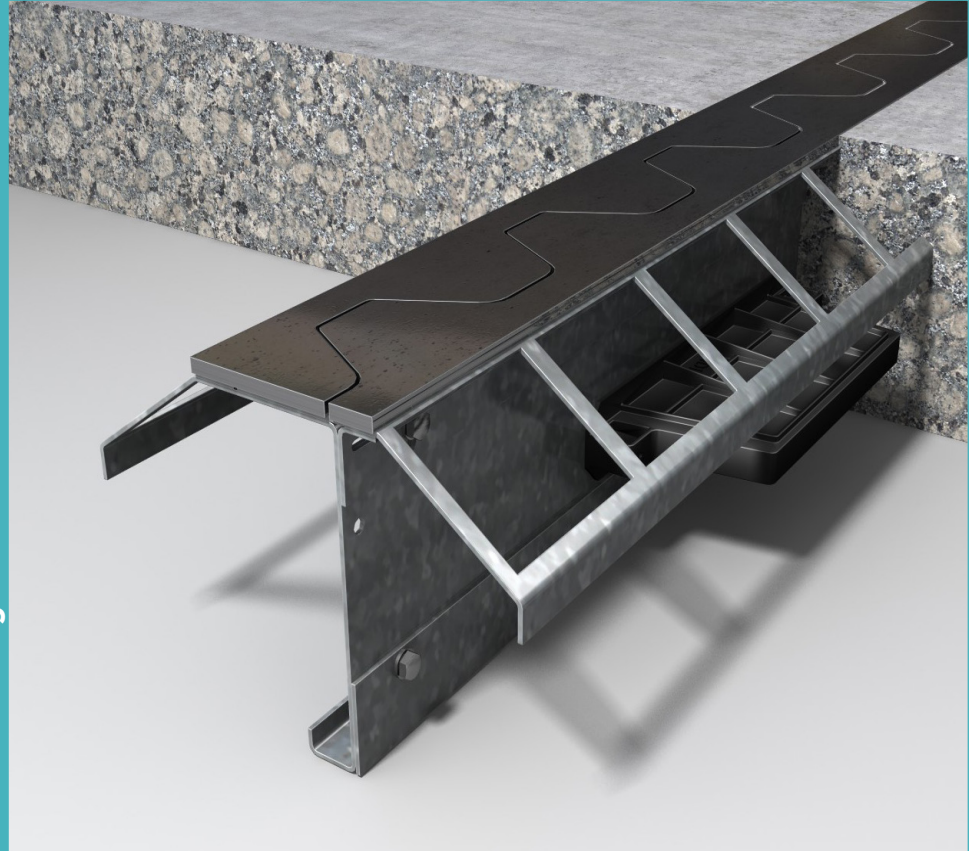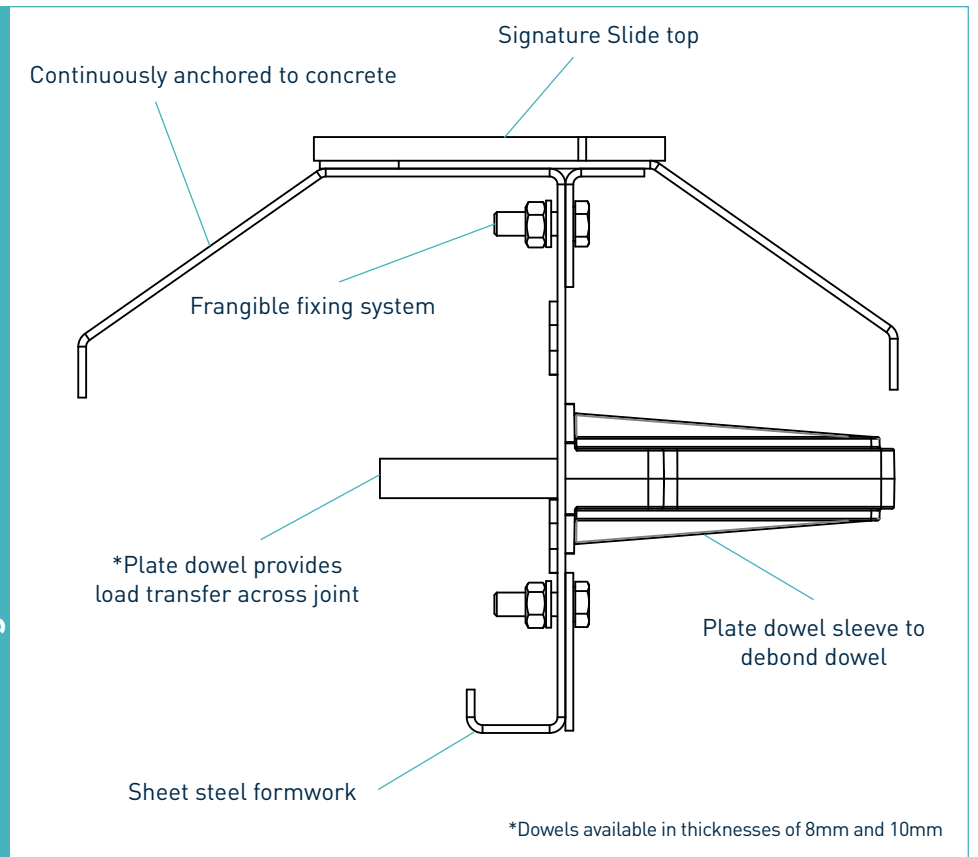
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Permaban SignatureSlide

manufacturing tolerances

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

dimensions of Permaban SignatureSlide

600 plate
dowel centres
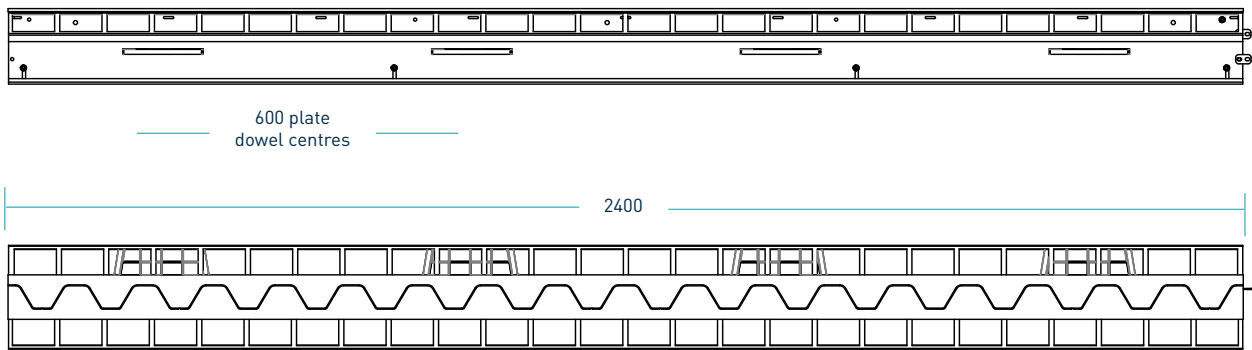
2400

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				30.6	28	982
175	150				31.5	48	1637
200	175	151 x 120 x 8	600	2400	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

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

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.

compatible dowel systems

151

120

8,10

front view

right view

dimensions in mm