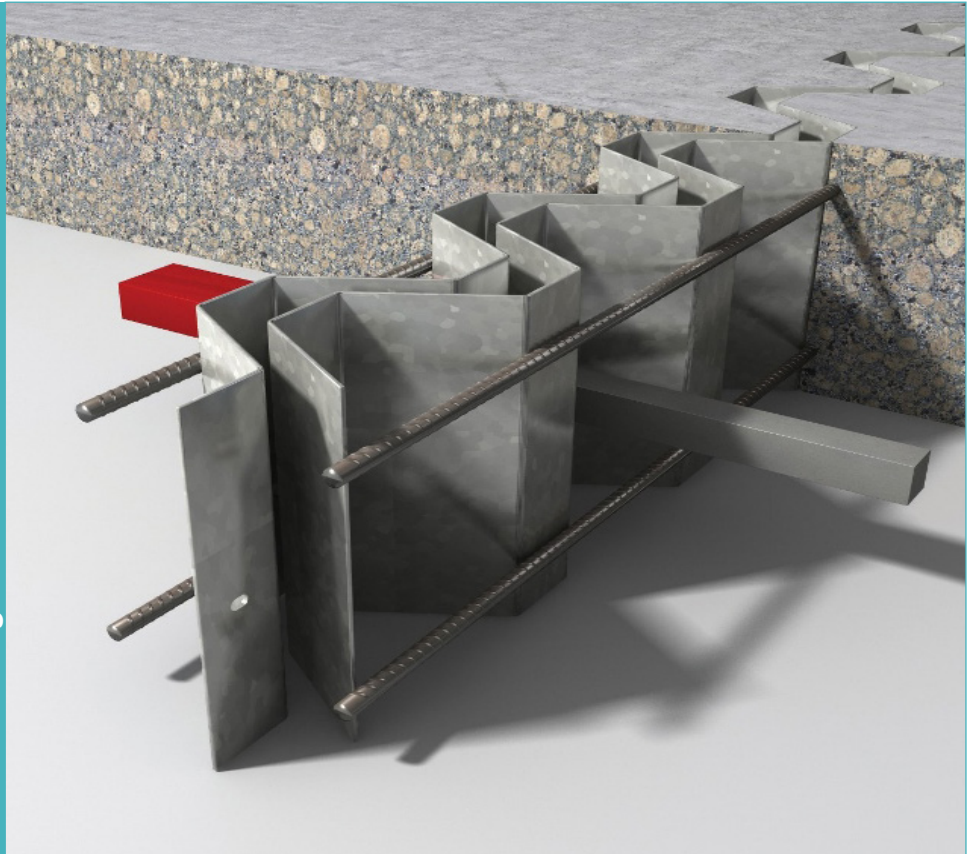


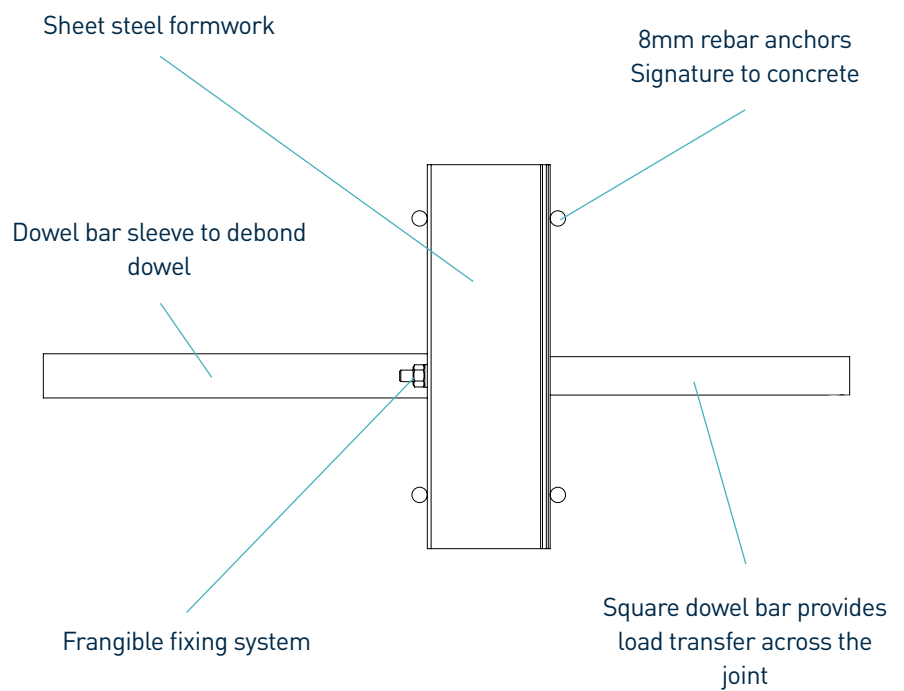
Permaban Signature®

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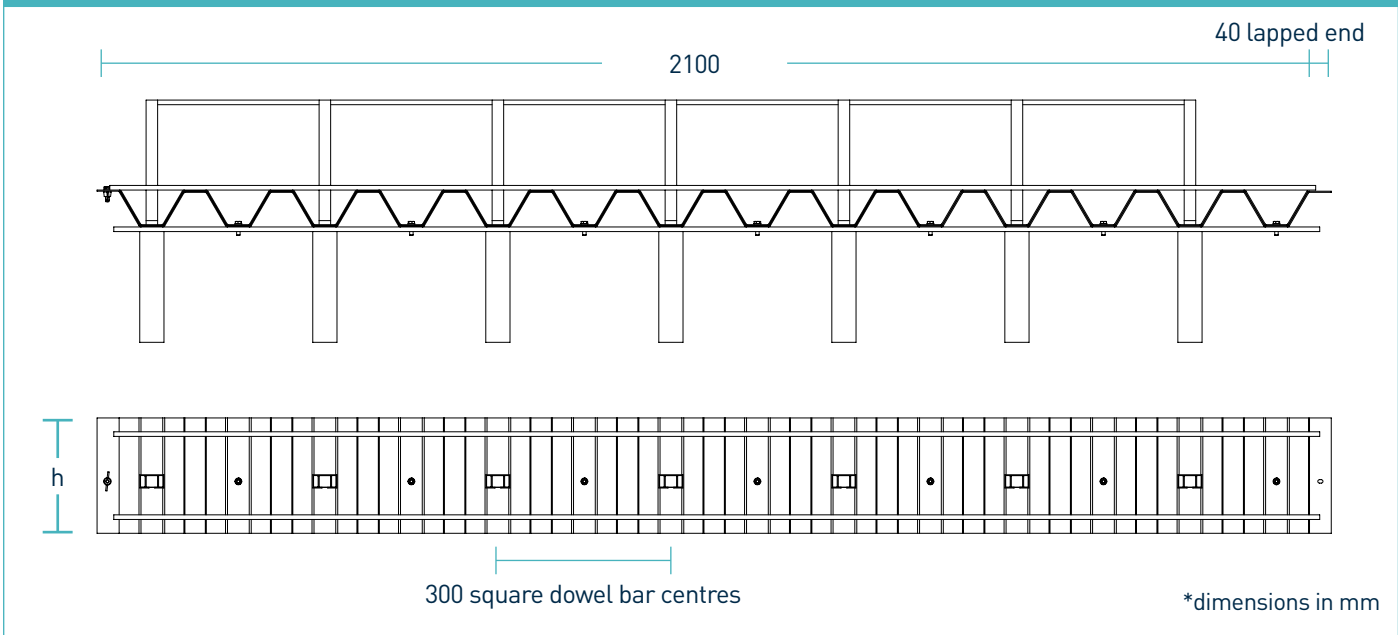
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manufacturing tolerances

Length	±2.0mm	Height	±1mm	Straightness	±0.5mm/600mm
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dimensions of Permaban Signature®



dimensions and weight of Permaban Signature®

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	20 x 20 x 420	300	2100	24	45	1205
175	150				26	45	1295
200	175				28	45	1385
225	200				30	36	1205
250	225				32	36	1277

Typical height and length values shown only. Weight values and bundle information shown are approximate.

materials

Component	Material
Sheet steel formwork	EN 10346:2015 DX51D+Z
Reinforcement steel bar	BS 4449:2005 B500A
Square dowel bar	EN 10025-2:2004 S275JR
Square dowel bar sleeve	PP

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theoretical calculated ultimate loads at failure of dowel or concrete

(for typical slabs, 40N/mm²
 concrete and **20mm joint** opening)

Unreinforced Slab

Slab Depth (mm)	Dowel Type	Bursting (kN/m)	Bearing/Bending
150	Square Bar	31.5	57.7
175	Square Bar	36.8	57.7
200	Square Bar	42.0	57.7
225	Square Bar	47.3	57.7
250	Square Bar	52.5	57.7
275	Square Bar	57.8	57.7
300	Square Bar	63.0	57.7
325	Square Bar	68.3	57.7

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 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.

compatible dowel systems

Square Dowel Bar



dimensions in mm