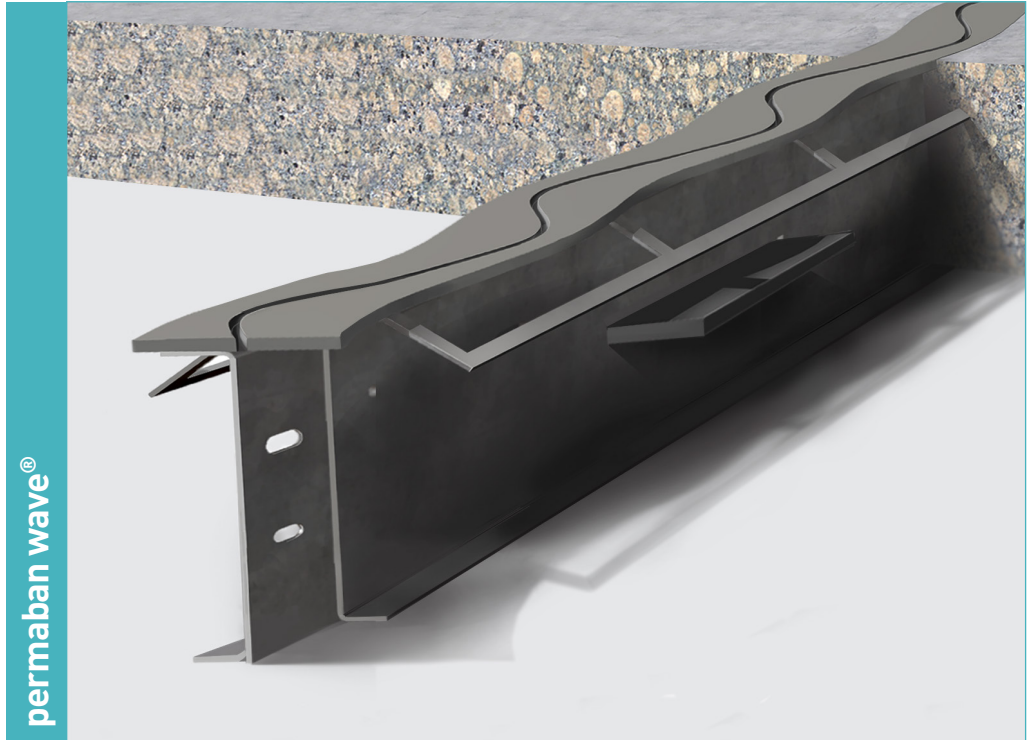
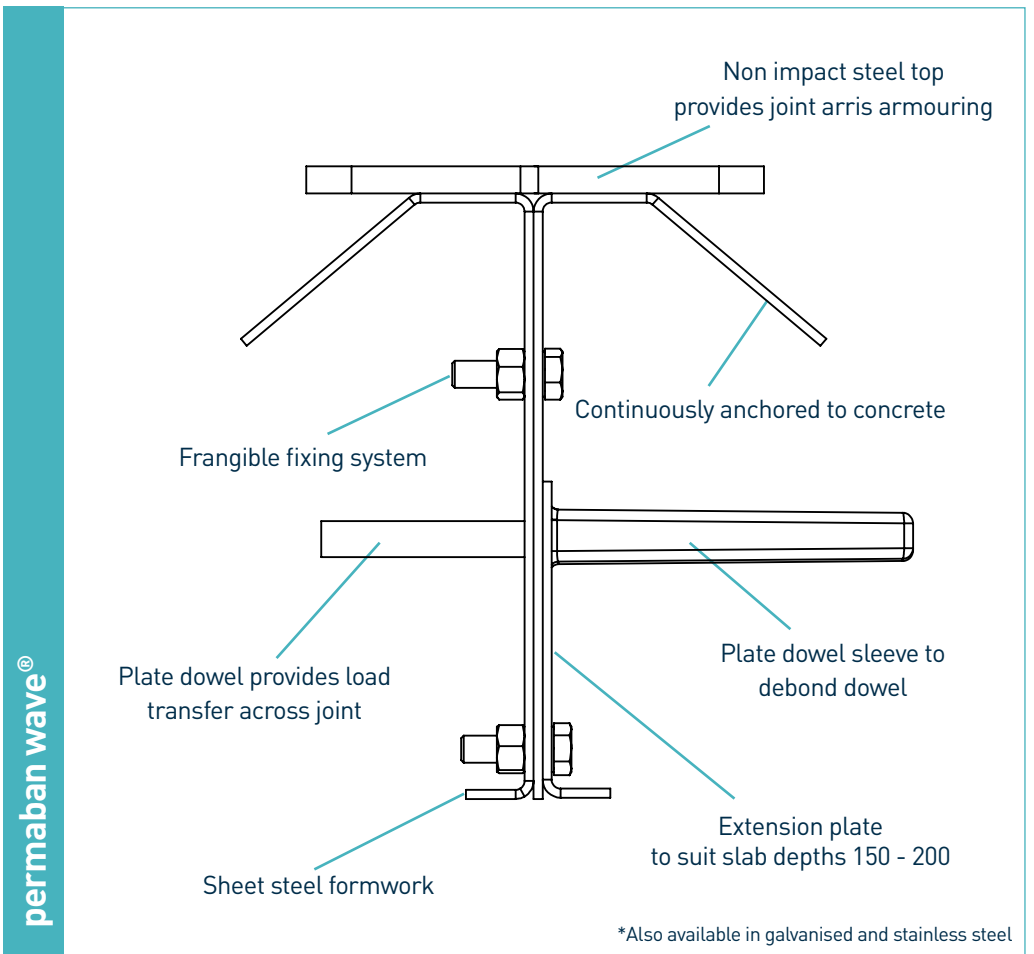


# permaban® wave

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permaban wave®



permaban wave®

\*Also available in galvanised and stainless steel

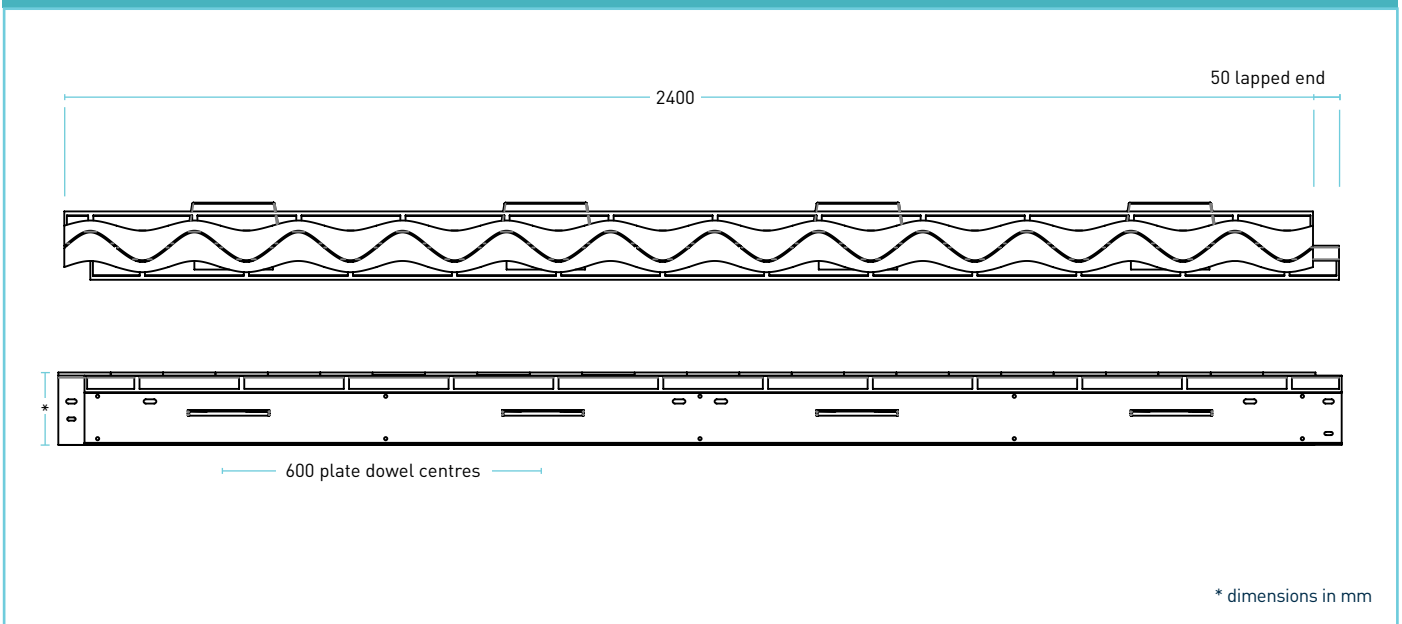
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## manufacturing tolerances

|               |        |               |      |                     |              |
|---------------|--------|---------------|------|---------------------|--------------|
| <b>Length</b> | ±2.0mm | <b>Height</b> | ±1mm | <b>Straightness</b> | ±0.5mm/600mm |
|---------------|--------|---------------|------|---------------------|--------------|

## dimensions of permaban wave<sup>®</sup>



## dimensions and weight of permaban wave<sup>®</sup>

| 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 - 200               | 140 - 180            | 151 x 120 x 8   | 600                | 2400        | 26.0                     | 55                | 1495.0             |

Typical height and length values shown only. Weight values shown are based on Permaban Wave<sup>®</sup> including TD8 dowels and are approximate.

## materials

| Component                                 | Material  |
|---|---|
| Non impact steel top provides joint arris | BS 070M20 / BS EN 10088-2 1.4301 304L                 |
| Sheet steel formwork                      | BS EN 1030:1999 DC01                                  |
| Plate dowel                               | BS EN 10025-2:2004 S275JRG2 min 410 N/mm <sup>2</sup> |
| Plate dowel sleeve                        | HDPP  |

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

(For typical slabs, 40N/mm<sup>2</sup> concrete and 20mm joint opening)

| Slab Depth (mm)                     | Dowel Type | Unreinforced Slab |                |
|-------------------------------------|------------|-------------------|----------------|
|                                     |            | Bursting (kN/m)   | Bending (kN/m) |
| Extender Plate To Suit<br>150 - 200 | TD8        | 35.7              | 87.2           |
| 225                                 | TD8        | 60.7              | 87.2           |
| 250                                 | TD8        | 72.4              | 87.2           |

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 structural engineer.

compatible dowel systems

