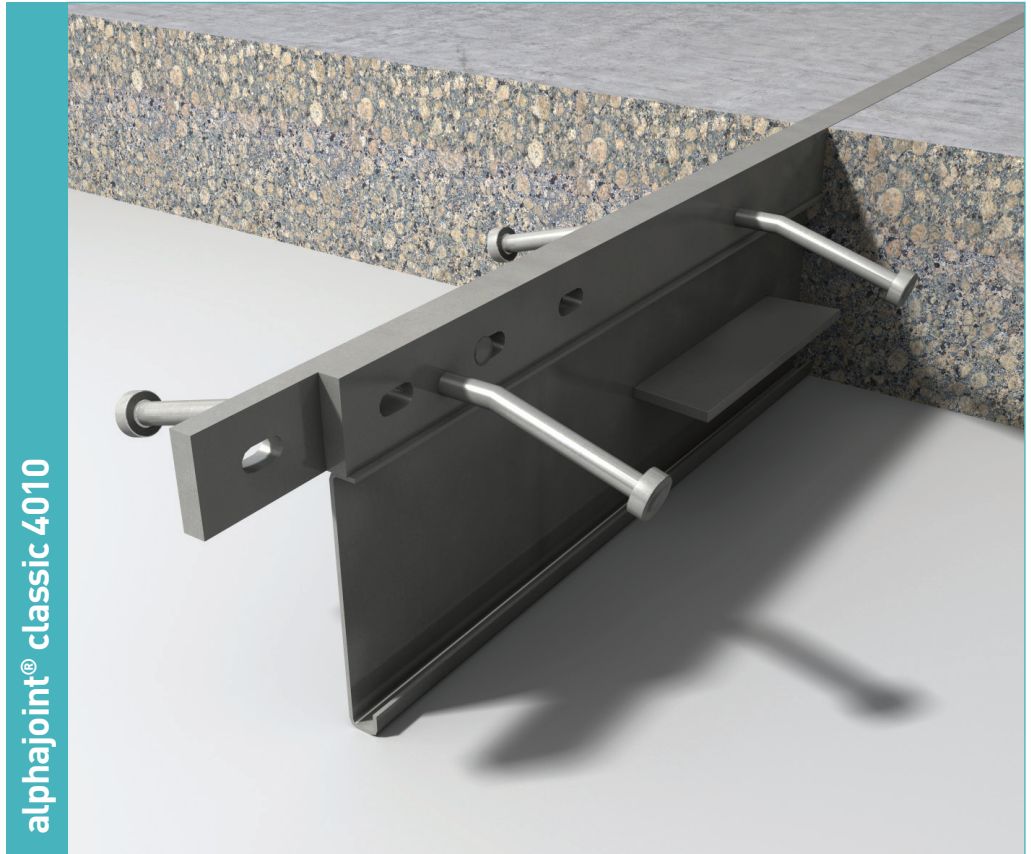
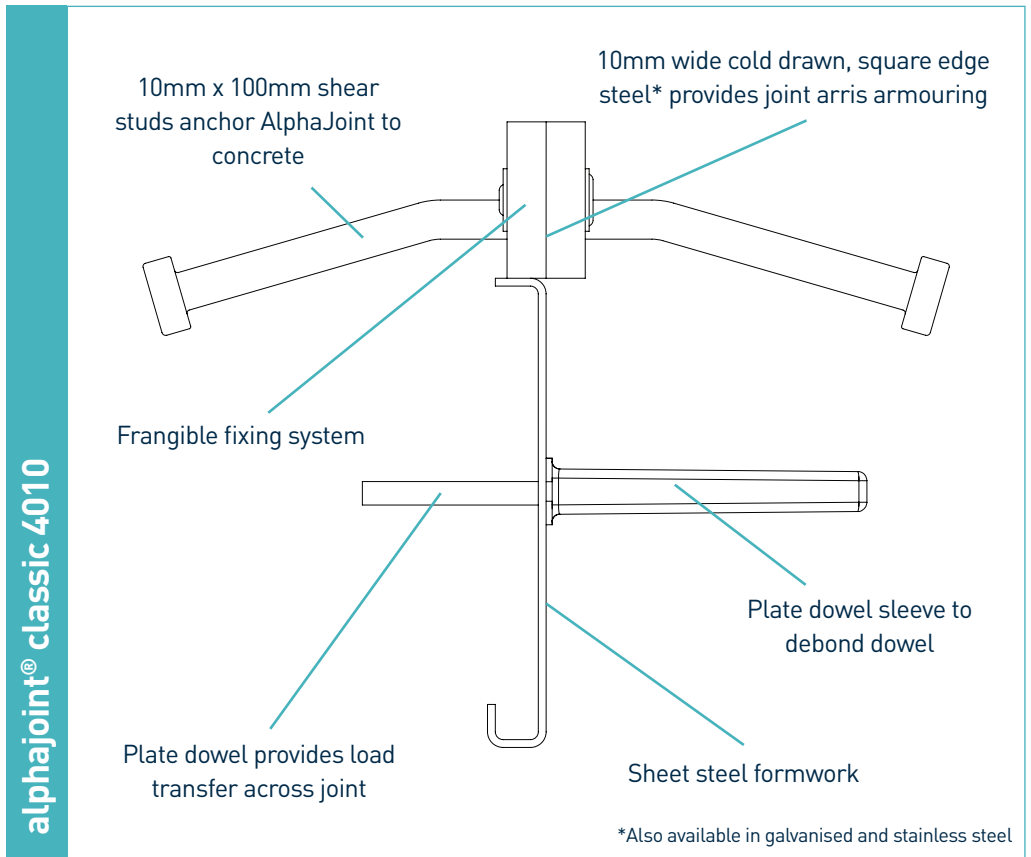


# alphajoint® classic 4010

Specification Sheet  
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alphajoint® classic 4010



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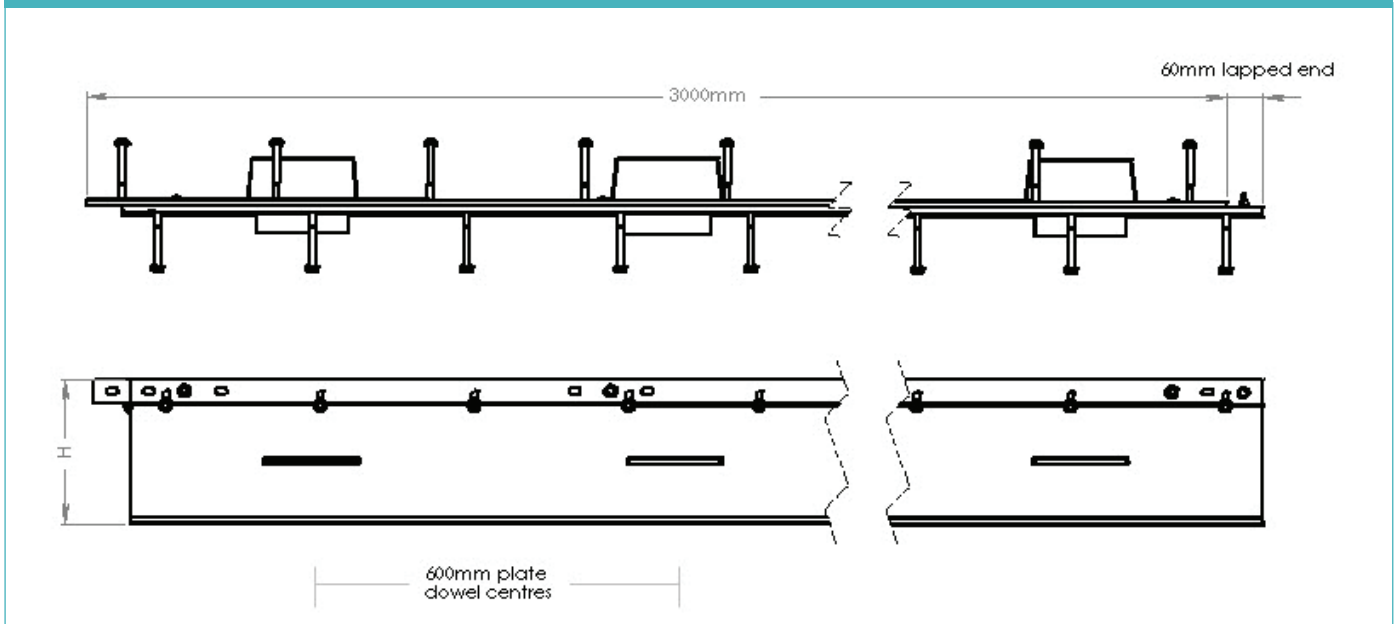
# alphajoint<sup>®</sup> classic 4010

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## manufacturing tolerances

<b>Length</b>	±2.0mm	<b>Height</b>	±1mm	<b>Straightness</b>	±0.5mm/600mm
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## dimensions of alphajoint<sup>®</sup> classic 4010



## dimensions and weight of alphajoint<sup>®</sup> classic 4010

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 @ 148 kg
150	130	151 x 120 x 8	600	3000	29.1	45	1458 kg
170	150				30.3	42	1421 kg
190	175				32.0	42	1492 kg
210	200				33.0	35	1303 kg

Typical height and length values shown only. Weight values shown are based on Alphajoint<sup>®</sup> Classic 4010 including TD6 dowels and are approximate.

## materials

Component	Material
Joint arris armouring (4010)	BS 070M20
Sheet steel formwork	BS EN 1030:1999 DC01
Shear stud	S275JR or equivalent
Plate dowel	BS EN 10025-2:2004 S275JRG2 min 410 N/mm <sup>2</sup> tensile strength
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)

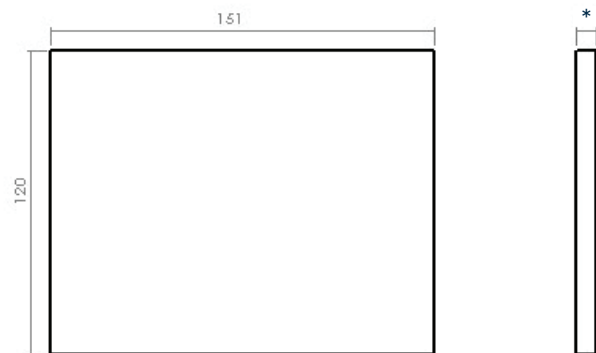
Slab Depth (mm)	Dowel Type	Unreinforced Slab	
		Bursting (kN/m)	Bending (kN/m)
150	TD6	31.2	53.4
	TD8	31.2	87.2
	TD10	31.2	124.7
175	TD6	40.0	53.4
	TD8	40.0	87.2
	TD10	40.0	124.7
200	TD6	49.9	53.4
	TD8	49.9	87.2
	TD10	49.9	124.7
225	TD6	60.7	53.4
	TD8	60.7	87.2
	TD10	60.7	124.7
250	TD6	72.4	53.4
	TD8	72.4	87.2
	TD10	72.4	124.7
275	TD6	85.6	53.4
	TD8	85.6	87.2
	TD10	85.6	124.7
300	TD6	86.9	53.4
	TD8	86.9	87.2
	TD10	86.9	124.7

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



Dimensions in mm

\*Available in 6, 8, 10mm

DD is not available in the following territories: Mexico, Canada, USA, Australia and New Zealand.