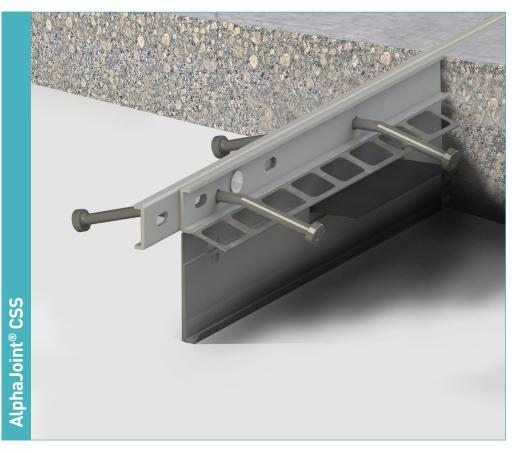
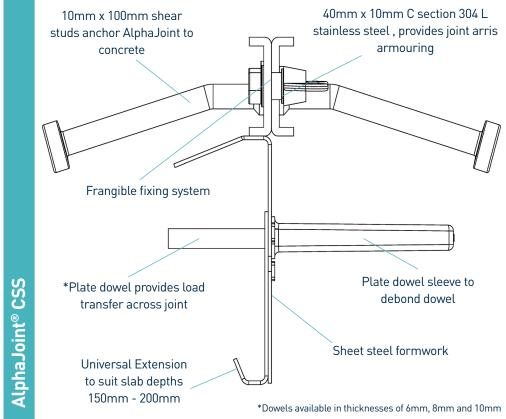


AlphaJoint®











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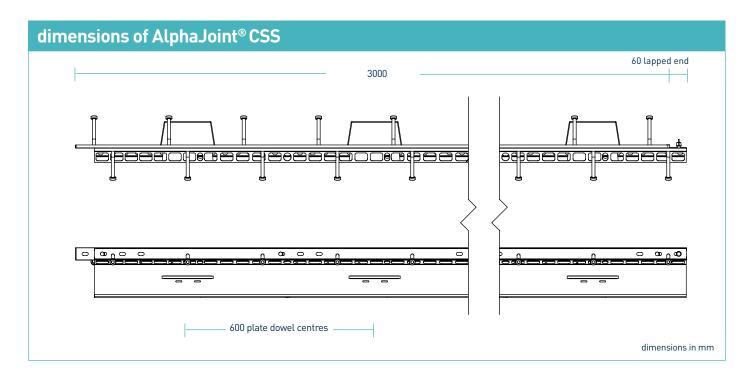


AlphaJoint® CSS

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manufacturing tolerances

Length±2.0mmHeight±1mmStraightness±0.5mm/600mm



dimensions and weight of AlphaJoint® CSS

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 -190				22	42	1049	
225	200	151 x 120 x 8	600	3000	23	40	1045	
250	225				24	40	1085	

Typical height and length values shown only. Weight values shown are based on AlphaJoint® CSS including TD8 dowels and are approximate.

Component Material Joint arris armouring (CSS) EN 10088-2 1.4301 304L Sheet steel formwork EN 10130:2006 DC01 Shear stud EN ISO 13918:2017 S235J2 Plate dowel 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/n	nm² concrete and 20mm joint opening)	Unreinforced Slab		
Slab Depth (mm)	Dowel Type	Bursting (kN/m)	Bending (kN/m)	
	TD6	34.5	53.0	
Universal Divider Plate to Suit 150 - 200	TD8	34.5	86.2	
	TD10	34.5	123.0	
	TD6	58.8	53.0	
225	TD8	58.8	86.2	
	TD10	58.8	123.0	
	TD6	70.3	53.0	
250	TD8	70.3	86.2	
	TD10	70.3	123.0	
	TD6	82.9	53.0	
275	TD8	82.9	86.2	
	TD10	82.9	123.0	
	TD6	84.2	53.0	
300	TD8	84.2	86.2	
	TD10	84.2	123.0	
	TD6	79.5	53.0	
325	TD8	79.5	86.2	
	TD10	79.5	123.0	









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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.

