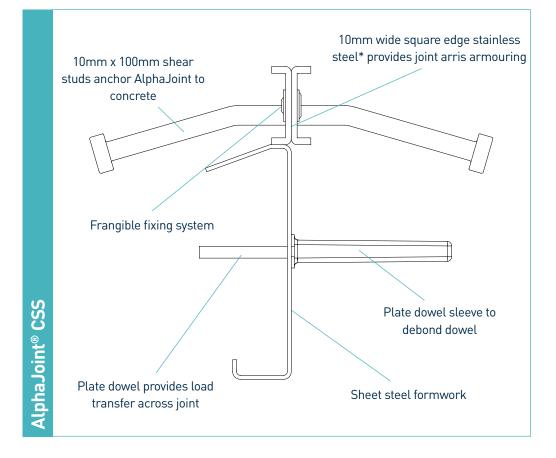


Alpha Joint CSS







Specification Sheet Issue 3.5 02/03/2020





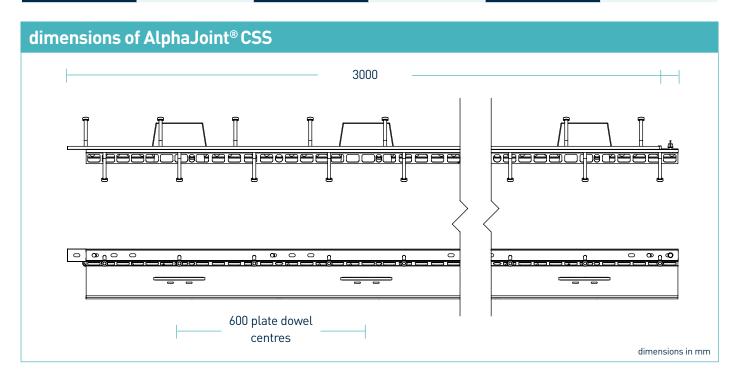


AlphaJoint® CSS

Specification Sheet Issue 3.5 02/03/2020

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	130	151 x 120 x 8	600	3000	21.7	63	1487.1	
170	150				22.6	61	1498.6	
190	175				23.8	52	1357.6	
210	200				24.9	52	1414.8	

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

materials					
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				











AlphaJoint® CSS

Specification Sheet Issue 3.5 02/03/2020

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	31.2	53.4	
150	TD8	31.2	87.2	
	TD10	31.2	124.7	
	TD6	40.0	53.4	
175	TD8	40.0	87.2	
	TD10	40.0	124.7	
	TD6	49.9	53.4	
200	TD8	49.9	87.2	
	TD10	49.9	124.7	
	TD6	60.7	53.4	
225	TD8	60.7	87.2	
	TD10	60.7	124.7	
	TD6	72.4	53.4	
250	TD8	72.4	87.2	
	TD10	72.4	124.7	
	TD6	85.6	53.4	
275	TD8	85.6	87.2	
	TD10	85.6	124.7	
	TD6	86.9	53.4	
300	TD8	85.9	87.2	
	TD10	85.9	124.7	









AlphaJoint® CSS

Specification Sheet Issue 3.5 02/03/2020



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 200 - 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.

