

AlphaJoint CSS® Universal Range

Specification Sheet

Issue 1.0

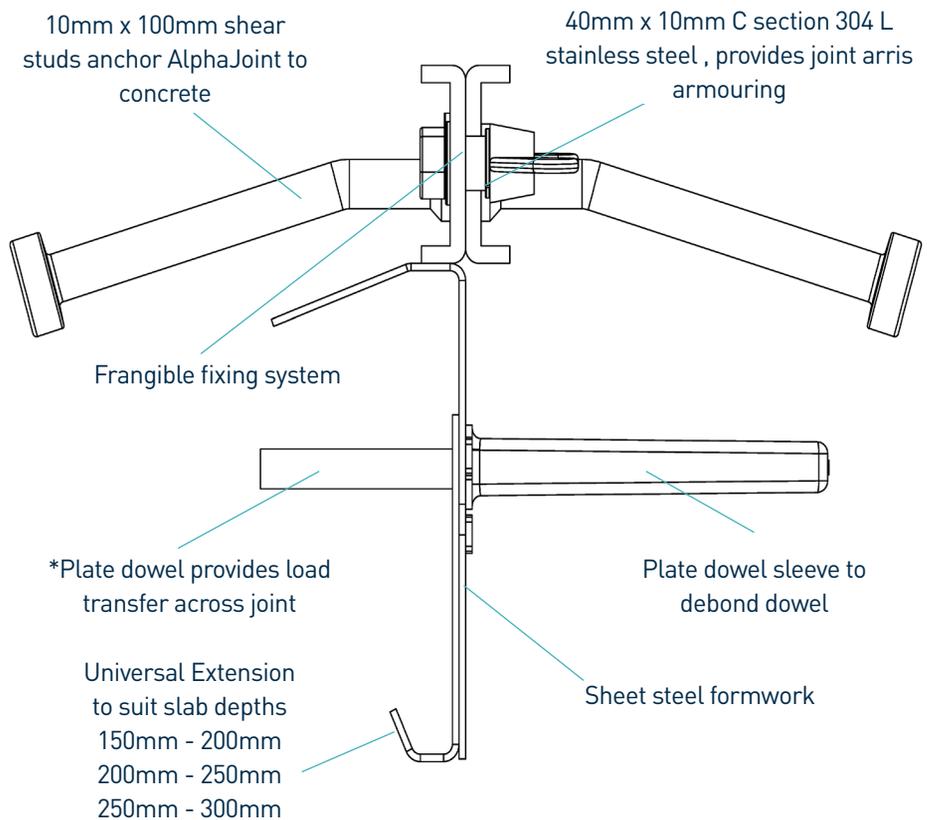
02/02/2026

AlphaJoint CSS® Universal, Midi & Plus



AlphaJoint CSS Universal to suit slab depths 150mm - 200mm
AlphaJoint CSS Universal Midi to suit slab depths 200mm - 250mm
AlphaJoint CSS Universal Plus to suit slab depths 250mm - 300mm

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*Dowels available in thicknesses of 6mm, 8mm and 10mm

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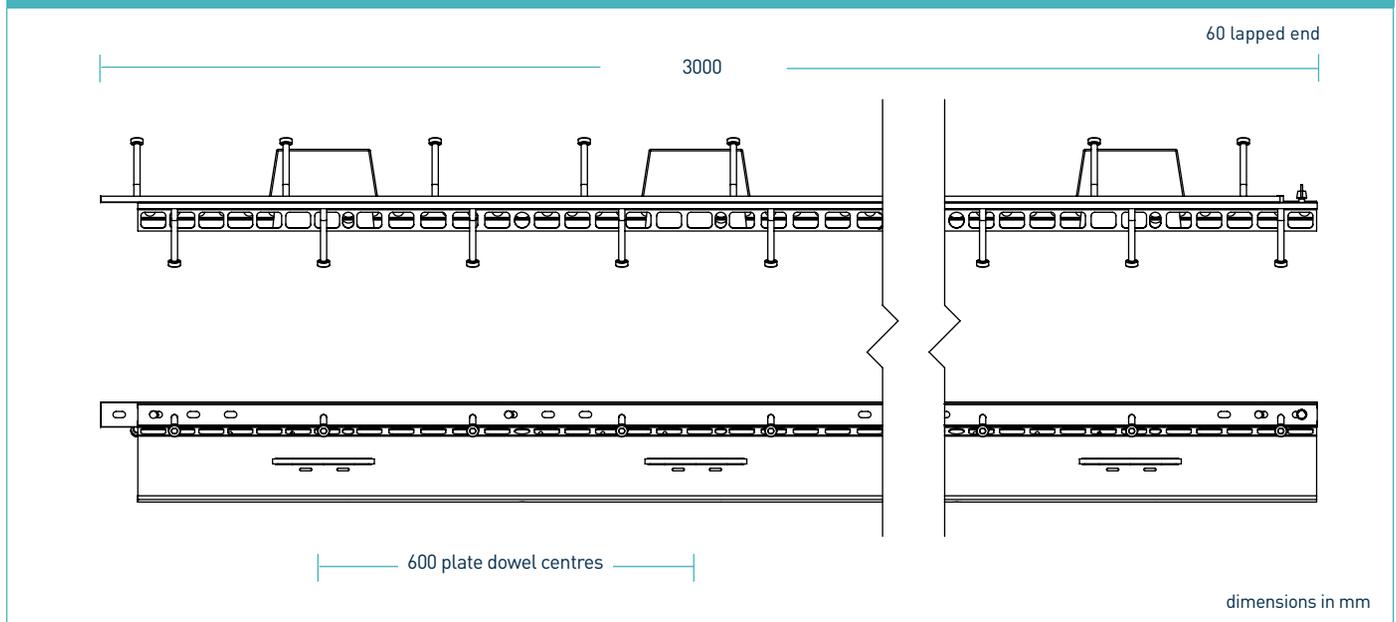
manufacturing tolerances

Length ±2.0mm

Height ±1mm

Straightness ±0.5mm/600mm

Dimensions of AlphaJoint CSS® Universal Range



dimensions and weight of AlphaJoint CSS® Universal Range

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)
AlphaJoint CSS Universal 150 - 200	140 - 190	151 x 120 x 8	600	3000	22	40	1005
AlphaJoint CSS Universal Midi 200 - 250	175 - 225				23	40	1045
AlphaJoint CSS Universal Plus 250 - 300	225 - 275				24	40	1085

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

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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

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)	Bending (kN/m)
AlphaJoint CSS Universal Universal Divider Plate to Suit 150 - 200	TD6	34.5	53.0
	TD8	34.5	86.2
	TD10	34.5	123.0
AlphaJoint CSS Universal Midi Universal Divider Plate to Suit 200 - 250	TD6	58.6	53.0
	TD8	58.6	86.2
	TD10	58.6	123.0
AlphaJoint CSS Universal Plus Universal Divider Plate to Suit 250 - 300	TD6	81.3	53.0
	TD8	81.3	86.2
	TD10	81.3	123.0

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

