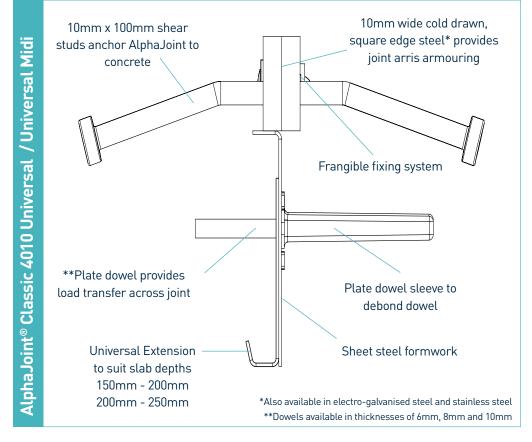


# AlphaJoint Classic 4010 Universal Range









Specification Sheet

Issue 1.1

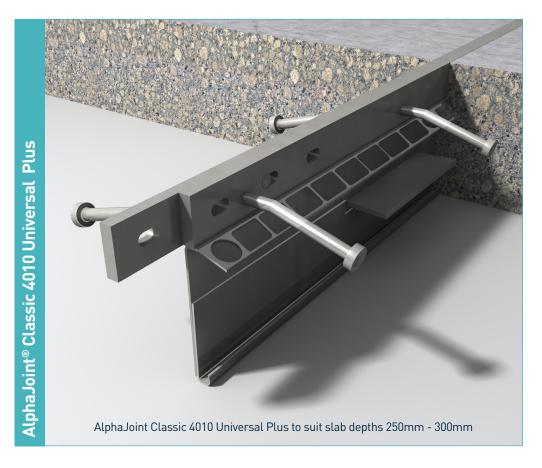
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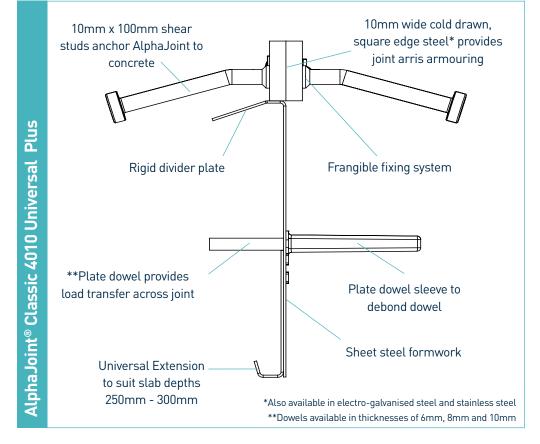






# AlphaJoint Classic 4010 Universal Range









Specification Sheet

Issue 1.1

01/09/2024





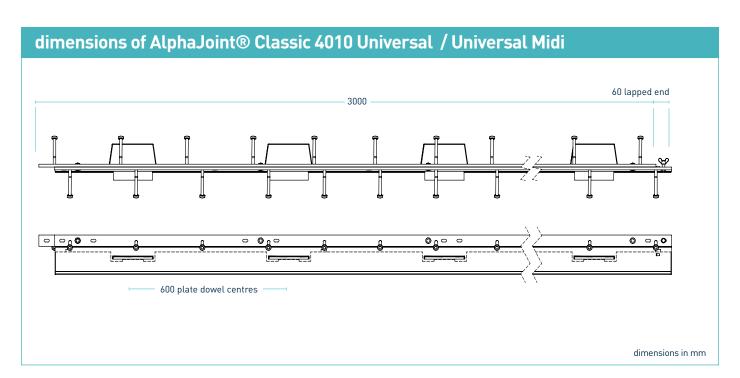


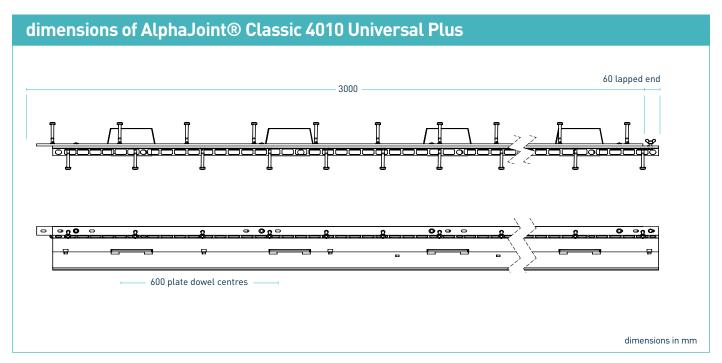
# AlphaJoint® Classic 4010 Universal Range

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## manufacturing tolerances

Length ±2.0mm Height ±1mm Straightness ±0.5mm/600mm















# AlphaJoint® Classic 4010 Universal Range

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# dimensions and weight of AlphaJoint® Classic 4010 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 Universal 150 - 200	140 - 190	151 x 120 x 8	600	3000	32	42	1469
AlphaJoint Universal Midi 200 - 250	175 - 225	151 x 120 x 8	600	3000	33	42	1511
AlphaJoint Universal Plus 250 - 300	225 - 275	151 x 120 x 8	600	3000	34	35	1315

Weight values shown are based on AlphaJoint ® Classic 4010 Universal including TD8 dowels and are approximate.

## materials

Component	Material					
Joint arris armouring (4010)	EN 10277-1:2018 S235JRC					
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® Classic 4010 Universal Range

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# theoretical calculated ultimate loads at failure of dowel or concrete

(For typical slabs, 40N/mm opening)	2 concrete and 20mm joint	Unreinforced Slab		
Slab Depth (mm)	Dowel Type	Bursting (kN/m)	Bending (kN/m)	
AlphaJoint Universal	TD6	34.5	53.0	
Universal Divider Plate	TD8	34.5	86.2	
to Suit 150 - 200	TD10	34.5	123.0	
AlphaJoint Universal	TD6	58.6	53.0	
Midi Universal Divider	TD8	58.6	86.2	
Plate to Suit 200 - 250	TD10	58.6	123.0	
AlphaJoint Universal	TD6	81.3	53.0	
Plus Universal Divider	TD8	81.3	86.2	
Plate to Suit 250 - 300	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 structual engineer.

