

SBSCO Alpha Joint

شركة المشغولات والمباني المعدنية المحدودة
Steel Building & Structure Co. Ltd.



SBSCO Industrial Services

سبسكو للخدمات الصناعية





شركة المشغولات والمباني المعدنية المحدودة
STEEL BUILDING & STRUCTURE CO. LTD.

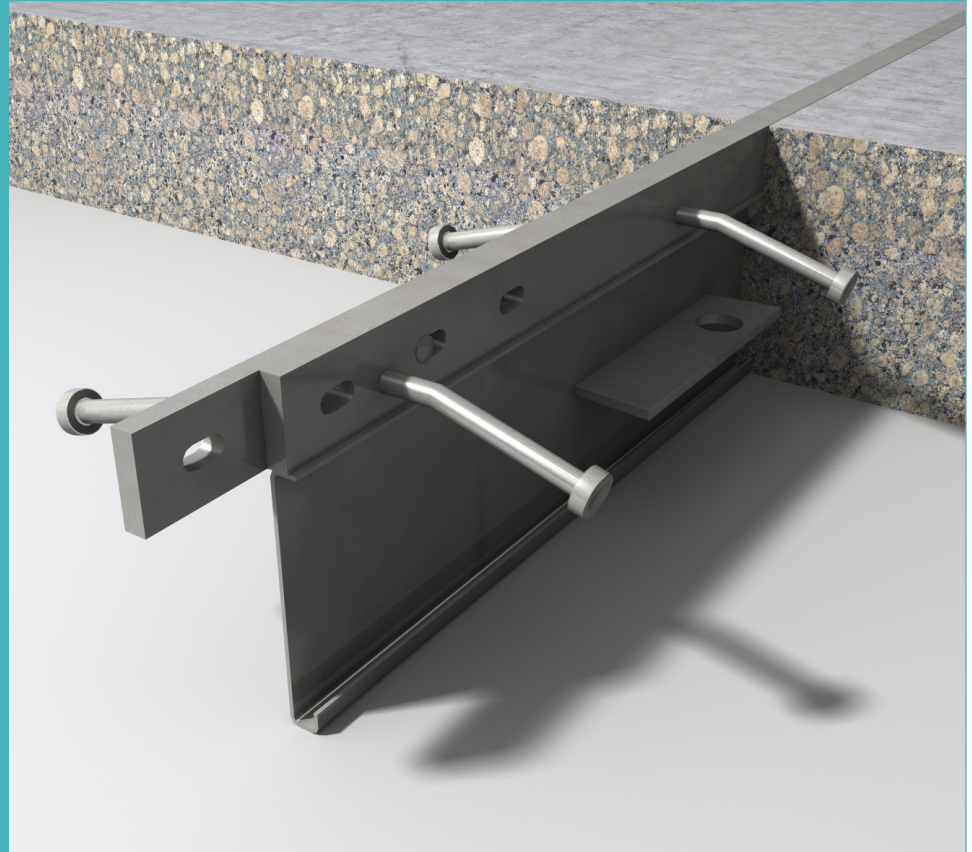
شركة ذات مسؤولية محدودة رأس المال 1.5 مليون ريال سعودي
Dammam 34331 - 4199 - Building No. 7083 - Second Industrial Area
Intersection Street 85 with 150 - Kingdom Of Saudi Arabia
CR. 2050105307 - CC. NO. 175564

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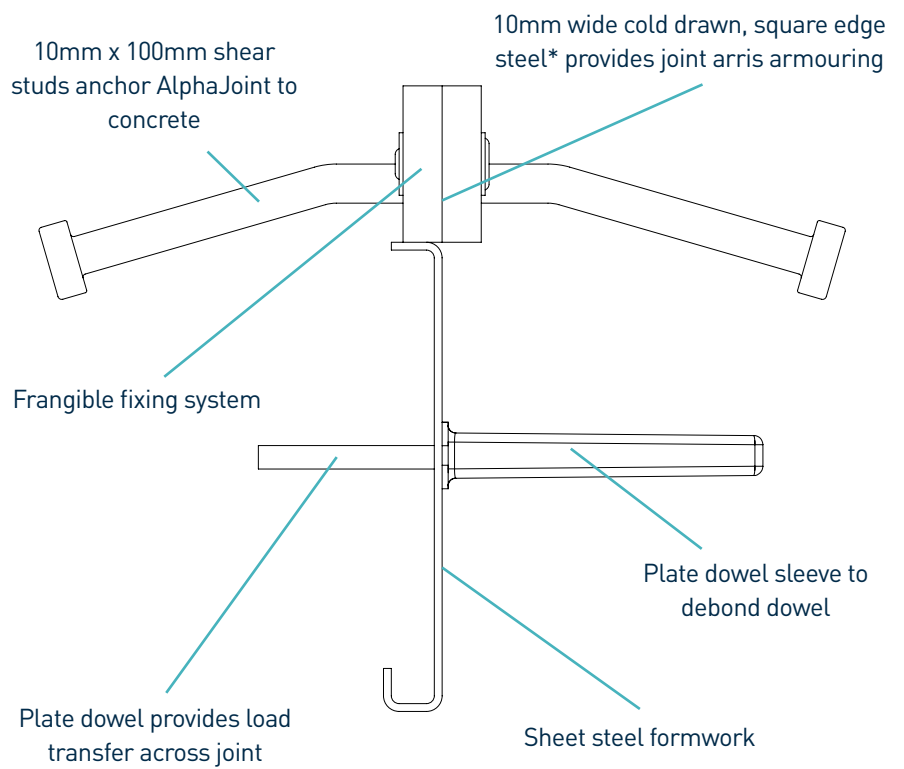


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*Also available in galvanised and stainless steel



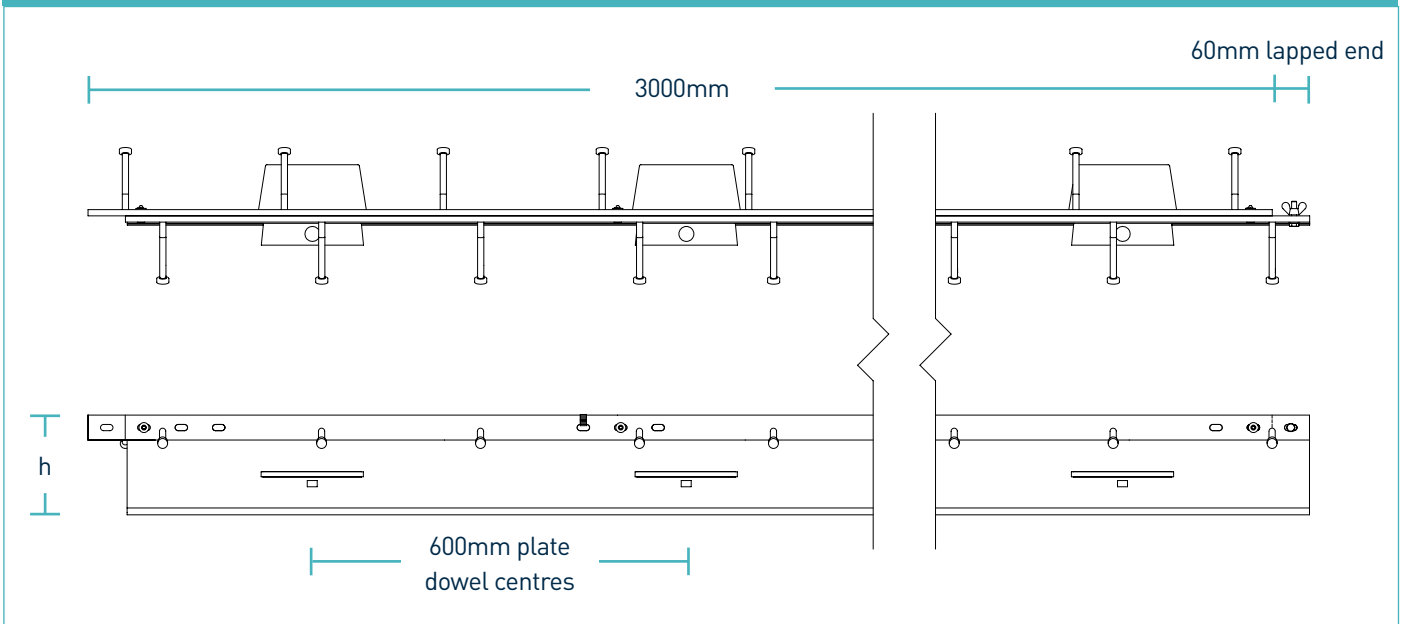
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Specification Sheet Issue 1.0
01/01/2013

manufacturing tolerances

Length	±2.0mm	Height	±1mm	Straightness	±0.5mm/600mm
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dimensions of alphajoint



dimensions and weight of alphajoint

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	120	164 x 120 x 8 Trapeziod	600	3000	33	30	1079
170	140				34	30	1107
190	160				35	28	1066
210	180				36	28	1092

Typical height and length values shown only. Weight values shown are based on Alphajoint including TD8 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 ²
Plate dowel sleeve	HDPP



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theoretical calculated ultimate loads at failure of dowel or concrete

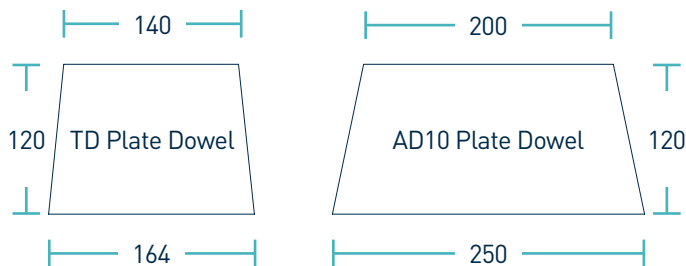
(For typical slabs, 40N/mm² concrete and
20mm joint opening)

Slab Depth (mm)	Dowel Type	Unreinforced Slab		Steel Fibre Reinforced Slab (Re3 = 0.8)	
		Bursting (kN/m)	Bending (kN/m)	Bursting (kN/m)	Bending (kN/m)
150	TD6	50.50	80.83	87.17	80.83
	TD8	50.50	143.50	87.17	143.50
	AD10	54.17	328.00	93.50	328.00
200	TD6	82.00	80.83	141.67	80.83
	TD8	82.00	143.50	141.67	143.50
	AD10	63.17	328.00	108.83	328.00
250	TD6	81.00	80.83	136.50	80.83
	TD8	81.00	143.50	136.50	143.50
	AD10	74.33	328.00	125.50	328.00
300	TD6	87.33	80.83	147.50	80.83
	TD8	87.33	143.50	147.50	143.50
	AD10	83.67	328.00	141.17	328.00
350	TD6	94.00	80.83	160.00	80.83
	TD8	94.00	143.50	160.00	143.50
	AD10	91.33	328.00	155.50	328.00

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 3rd Edition. For more detailed analysis please contact Permaban.

compatible dowel systems



dimensions in mm

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