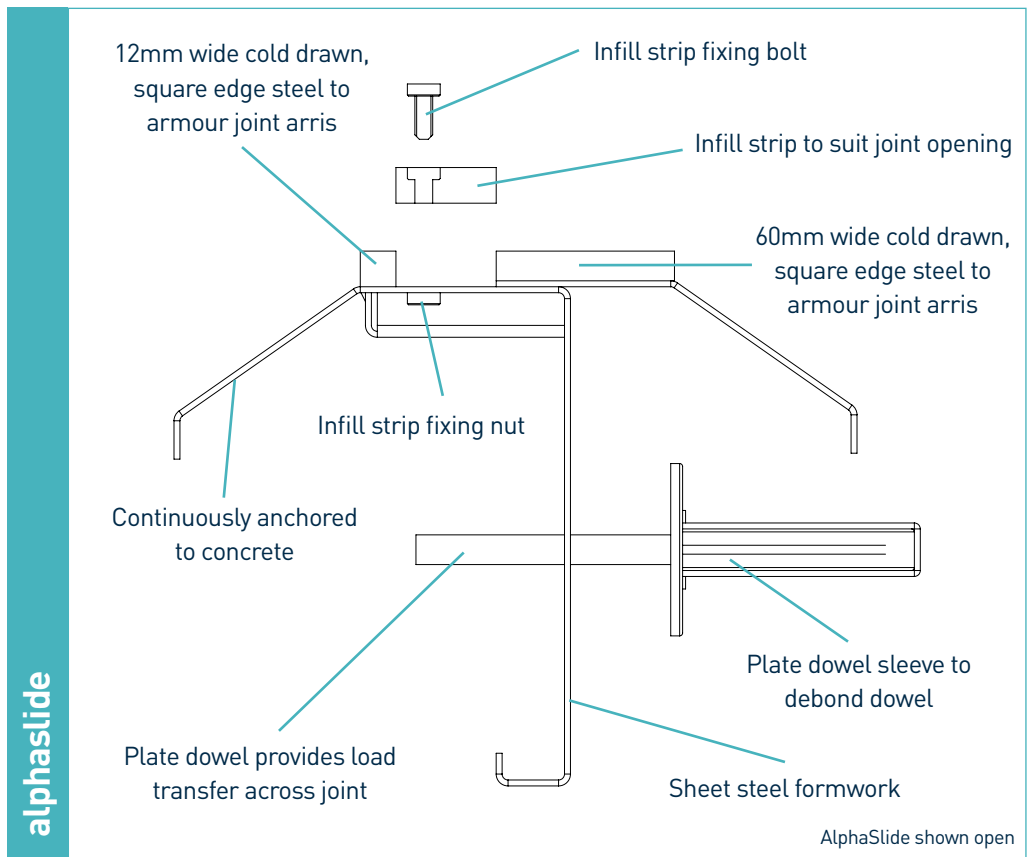
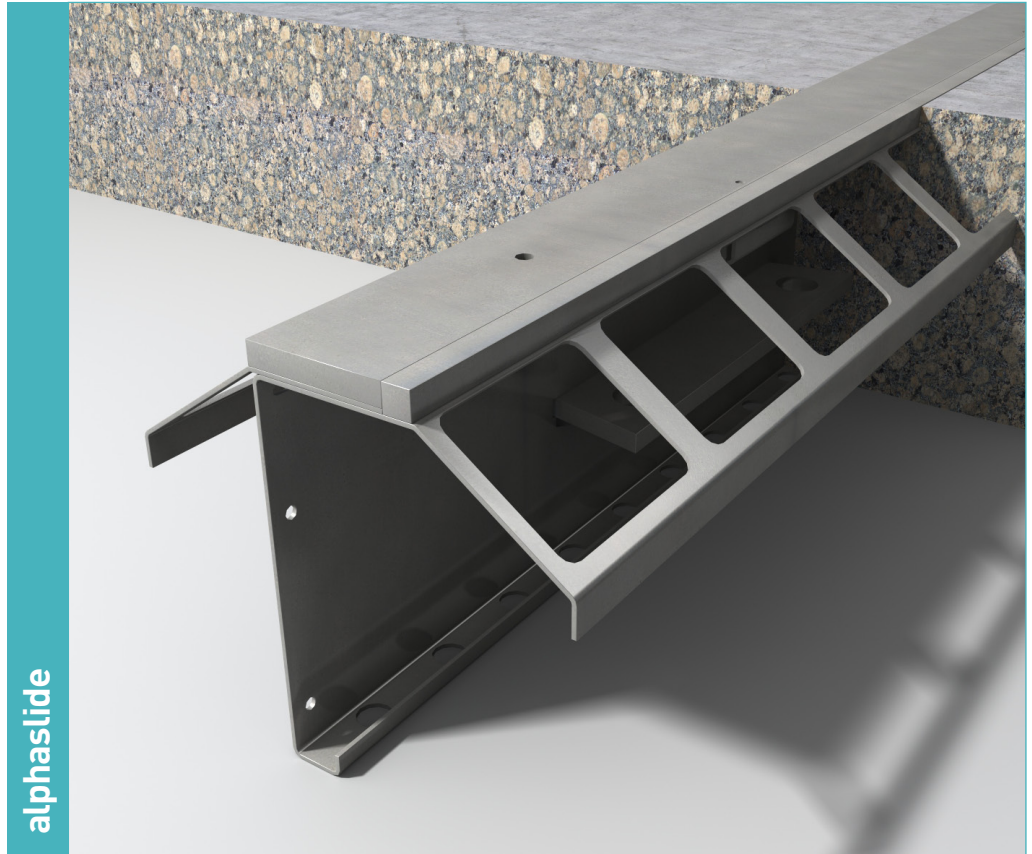


# alphaslide

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# alphaslide

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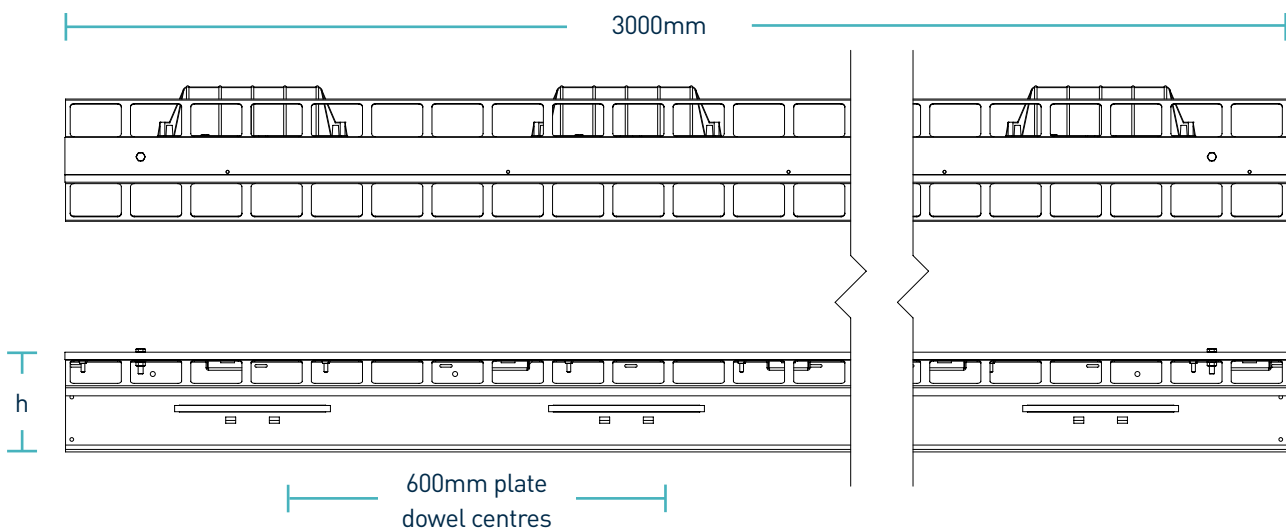
## manufacturing tolerances

**Length** ±2.0mm

**Height** ±1mm

**Straightness** ±0.5mm/600mm

## dimensions of alphaslide



## dimensions and weight of alphaslide

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)
200	180	200 x 120 x 10 Trapeziod	600	3000	48	25	1285
250	230				50	20	1085
300	280				52	20	1125
350	230				54	15	895

Typical height and length values shown only. Weight values shown are based on AlphaSlide including AD10 dowels and are approximate.

## materials

Component	Material
Joint arris armouring	BS 070M20
Sheet steel formwork	BS EN 1030:1999 DC01
Plate dowel	BS EN 10025-2:2004 S275JRG2 min 410 N/mm <sup>2</sup>
Plate dowel sleeve	ABS

# alphaslide

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## theoretical calculated ultimate loads at failure of dowel or concrete

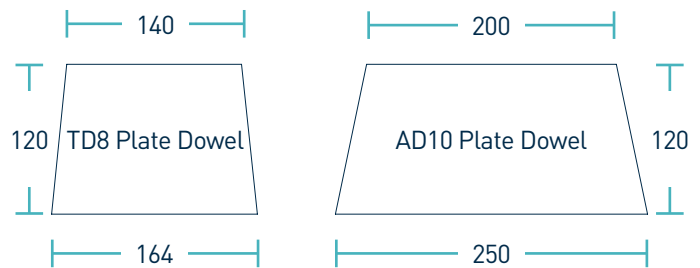
(For typical slabs, 40N/mm<sup>2</sup> concrete and 20mm joint opening)

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)
200	TD8	82.00	143.50	141.67	143.50
	AD10	63.17	328.00	108.83	328.00
250	TD8	81.00	143.50	136.50	143.50
	AD10	74.33	328.00	125.50	328.00
300	TD8	87.33	143.50	147.50	143.50
	AD10	83.67	328.00	141.17	328.00
350	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