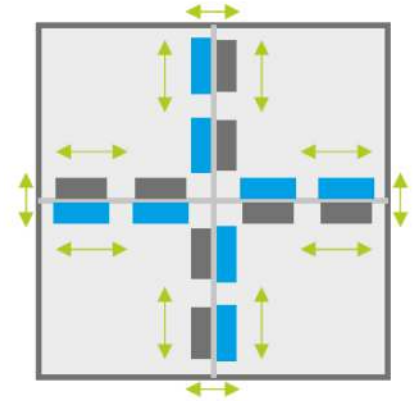


Dowel system are designed to create expansion joints for industrial. Steel armoured joints with their unique construction constitute a stay-in-place formwork and additionally secure concrete floor edges. Dowel system is a floor expansion joint solution, where an anchoring element is a steel dowel placed in a specifically designed plastic sleeve, which permits free horizontal movement (along and across of expansion joints) and prevents vertical movements between expanded floor plates. Plastic elements are provided with proper reinforcements, which protect them against the deformation caused by the concrete pressure (even when the floor is thick).

PLASTIC COVER FOR DOWEL



This table shows the load at failure in bursting (failure of the concrete) and bending (failure of the dowel) for a joint opening of 25mm. The ultimate load has been calculated in accordance with TR34 (4th edition).

Load capacity about expansion joints depending on amount of dowels in one joint [kN] steel S355MC, floor concrete C30/37						
Dowel size 180x120x8mm	opening dilatation					
Amount of dowels \ one joint	0	5	10	15	20	25
	165,04	111,37	78,88	59,35	46,98	38,65
Dowel size 180x140x10mm	opening dilatation					
Amount of dowels \ one joint	0	5	10	15	20	25
	206,29	150,18	112,36	87,39	70,54	58,72

• - According to TR34. Edition 4 from 2013