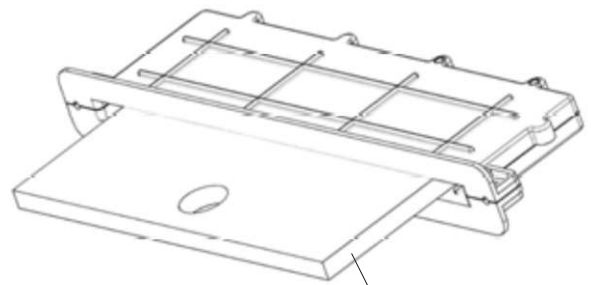




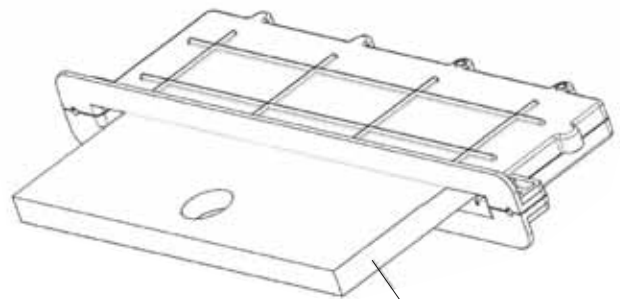
Expansion strips are mounted in concrete floor plates to compensate movements in plate sections. Concrete plates are exposed to internal and external pressures. Damage occurs mainly at the edges of plates near to connections. Connection of floor plates should compensate their mutual horizontal movements (perpendicular and parallel to the expansion joint) which are usually caused by thermal expansion and shrinkage of concrete. At the same time the connection must also block vertical movements and mutual curving of floor elements which is a consequence of traffic, heavy loads and uneven passive earth pressure. Conecto 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. Conecto 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 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). The standard we use 5 dowels (5D) on each 3.000 mm profile lenght. When more load capacity is needed, we can also produce profiles with 6 dowels (6D) or 7 dowels (7D).

Standard dowel T8



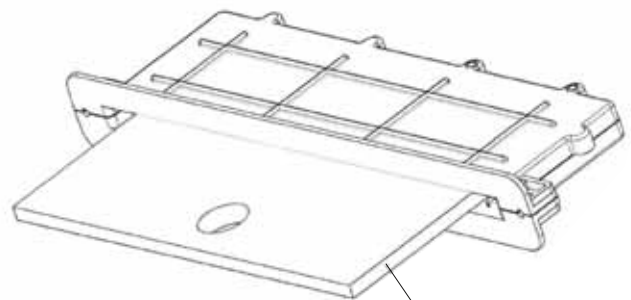
steel plate 180×120×8

Dowel T10 for more load capacity



steel plate 180×140×10

Dowel T6 for less load capacity



steel plate 180×120×6

Conecto Dowel expansion joints allow for a movement between floor plates:

Load capacity about expansion joints depending on amount of dowels in one joint [kN/lm] steel S355MC, floor concrete C25/30

Dowel size 180x120x8mm	opening dilatation						
Amount of dowels (at 3 meter)	0	5	10	15	20	25	mm
5D	248	174	126	96	77	64	kN/lm
6D	297	208	151	116	92	76	kN/lm
7D	346	243	176	135	108	89	kN/lm

Dowel size 180x140x10mm	opening dilatation						
Amount of dowels (at 3 meter)	0	5	10	15	20	25	mm
5D	310	232	178	141	115	96	kN/lm
6D	372	279	214	169	138	115	kN/lm
7D	433	325	249	197	161	135	kN/lm

Dowel size 180x120x6mm	opening dilatation						
Amount of dowels (at 3 meter)	0	5	10	15	20	25	mm
5D	186	116	76	58	45	37	kN/lm
6D	223	140	95	69	54	44	kN/lm
7D	260	163	110	81	63	52	kN/lm

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).