

# EXA-JOINT®

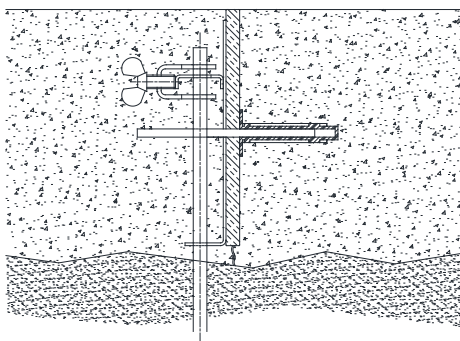
## “POUR THROUGH” EXPANSION / CONTROL JOINT SYSTEM

The EXA-Joint® system has been developed to satisfy demand for a pour through expansion or control joint that is quick and simple to set up while providing a superior load transfer capacity than traditional leave in place “pour through” formwork systems.



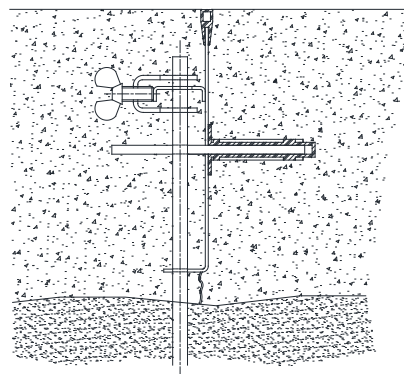
EXA-Joint® consists of the plain joint assembly which includes Plate dowels welded in position, rigid plastic dowel sleeves, metal stakes and adjustment clamps.

With the addition of profile cut stiff foam sheets, the EXA-Joint® is used as an expansion joint which allows for thermal expansion of the slab.

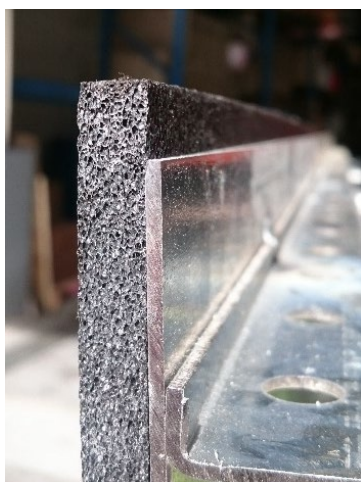


The Stiff foam can be left in-situ or later mechanically removed and sealant installed if desired. The pre-cut foam profile is 10mm above the metal top edge.

Alternatively, with the addition of a rigid plastic capping strip but without the expansion foam the EXA-Joint® can be used as a simple pour through contraction / control joint that has the high load transfer capacity of Plate Dowels & Sleeves and eliminates the uncertainty of conventional dowel cradle systems that require saw cutting.



The plastic capping is concrete grey in colour, UV stable and easily installed along the joint length. Capping can be left in-situ or later removed to provide a void for installation of an elastomeric sealant if desired.



### Features and benefits

Features and benefits that set the EXA-Joint® System apart from other pour through type joint systems currently available in the market are:

- Preformed 2.5mm galvanised divider plate which ensures strength and alignment
- An integrated stiffener rib and clamping system provides rigidity
- With the use of “stiff” foam, the concrete can be screeded to finish height without the need for capping
- Height adjustment brackets and stakes for ease of positioning by hand – no tools required - can be placed in any position along the length of the joint
- Optional profile cut 10mm thick expansion foam sheets complete with adhesive strip is easily attached to the face of the divider plate.
- Galvanised Plate Dowels & Sleeves provide superior load transfer across the joint (refer to Dowel Capacity Comparison Chart). Each dowel is welded in position and fitted with rigid plastic dowel sleeves - no need for on-site assembly of dowels and sleeves
- Joints are available in several standard sizes: EXA-6-130, EXA-6-165 and EXA-6-190. All sizes are supplied in 3m lengths.



### Plate Dowel Resistance Capacities

Dowel/plate capacities have been calculated in accordance with section 6.5 of The Concrete Society Technical Report 34, 4th edition

Typical slab data:

|                     |        |
|---------------------|--------|
| Concrete strength : | 40 Mpa |
| Slab thickness :    | 180mm  |
| Joint opening :     | 15mm   |

Resistances:

| Plate Thickness (mm) | 6     | 8     |
|----------------------|-------|-------|
| Plate width (mm)     | 135   | 145   |
| Plate length (mm)    | 150   | 175   |
| Shear (kN)           | 120.3 | 172.3 |
| Bending (kN)         | 36.4  | 62.6  |
| Bursting (kN)        | 28.7  | 30.6  |



For further information about the EXA – JOINT® “POUR THROUGH” EXPANSION / CONTROL JOINT SYSTEM contact:

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