



DIAMOND PLATE DOWELS

Load transfer system for slab on grade

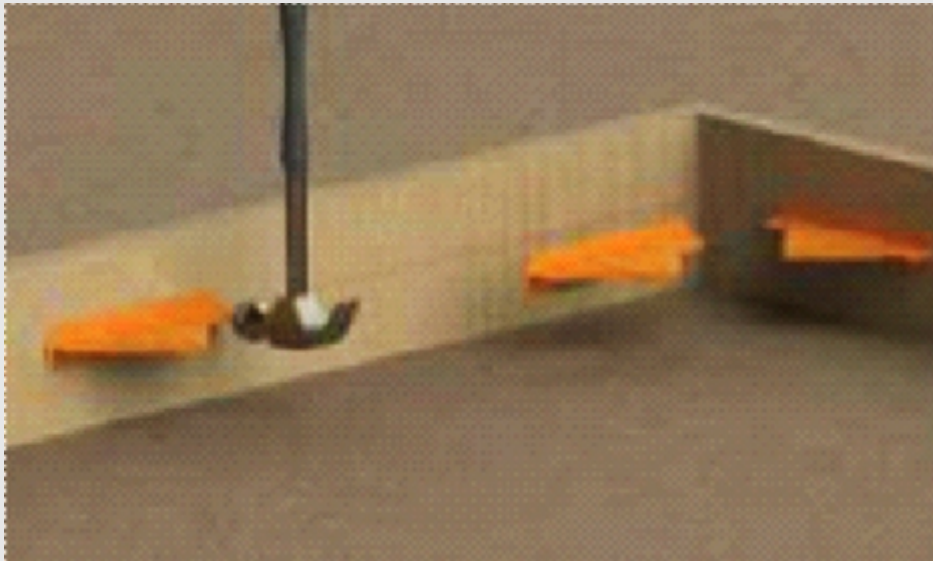
Diamond plate Dowels are a plate dowel and sleeve system designed for construction joint applications in concrete floors and pavements. Diamond plate dowels are designed as a fast fix system that provides load transfer across the construction joints and minimises differential deflection between adjacent slab panels. provide a low cost in place solution by eliminating the need for the drilling or processing of formwork that is required with traditional round dowel systems. Diamond plate dowel system is attached directly to wooden form work or metal formwork plates and come pre- packaged with all components ready for installation.



Features & Advantages

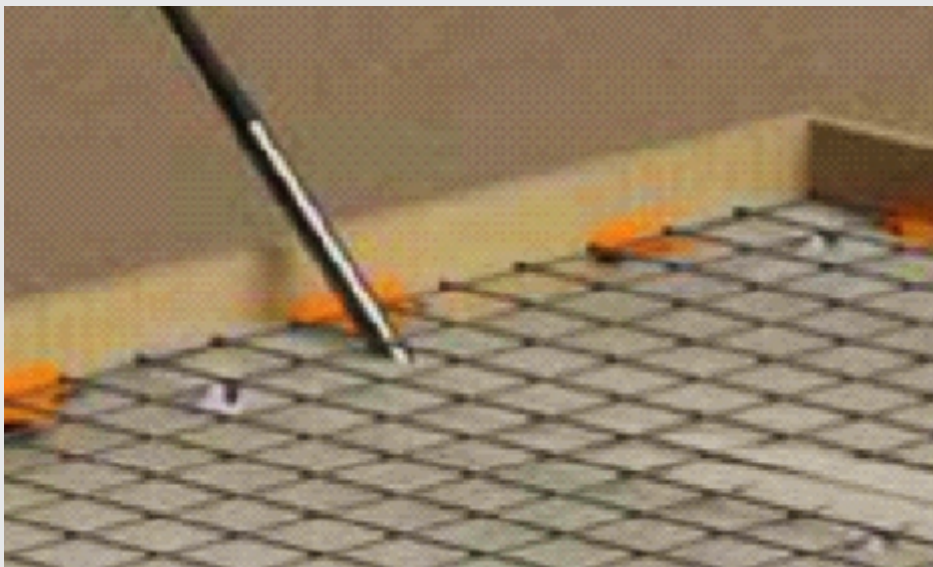
- 125 mm Square plate optimises Material where stresses are highest
- Available in Black, galvanised or stainless steel dowels with a plastic sleeve.
- Dowel plates are manufactured from steel to AS/NZS3679.1 Grade300.
- Maximises surface area at the edge of the joint.
- Nailing flange provides secure & in line attachment to form work.
- Sleeve provides expansion capacity of 5 mm.
- Sleeve system ensures the dowel is perpendicular to the construction joint.
- Sleeves Moulded from durable non- compressible plastic.
- Eliminates any drilling or processing of form work
- Allows for slab shrinkage and lateral movement on the horizontal plane.
- Reduces risk of restraint.
- Diamond Plate Dowel shape maximises the load surface area along the construction joint.
- Simplifies form removal, can also be integrated into other formwork systems,

The Diamond plate dowel system is available in 125mm x 125mm x 6mm & 125mm x 125mm x 10mm plate thickness.



STEP 1. INSTALLATION

Mark the form for slab centre and Diamond Plate Dowel spacing (typically 450 mm to 600 mm). Using 2 nails, attach the base to the form work.



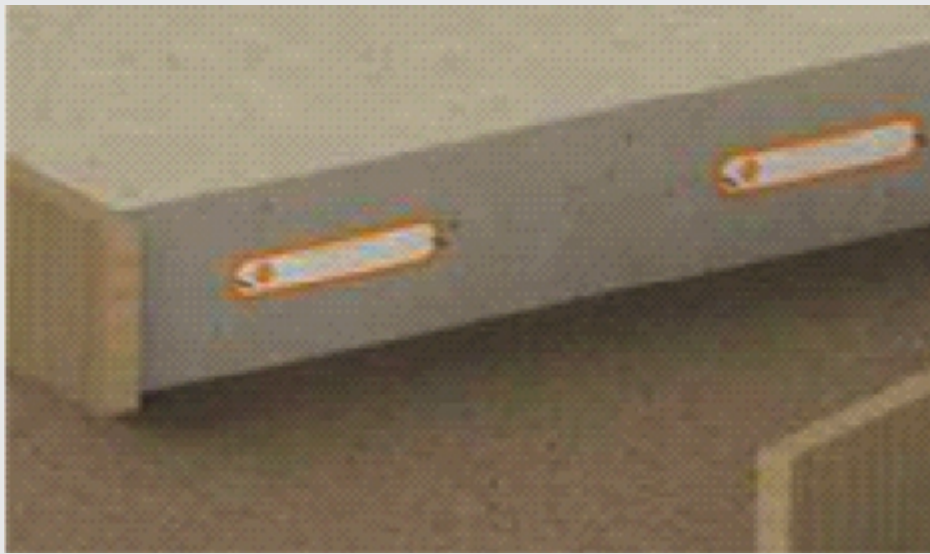
STEP 2. INSTALLATION

Install any reinforcement , Ensure that reinforcement is not placed on sleeves.
Pour Concrete & edge of joint must be vibrated around the sleeve for proper consolidation of concrete



STEP 3. INSTALLATION

Strip off the form work ,this is best accomplished by starting at one end and working along the form.



STEP 4. INSTALLATION

NOW insert the plate in to the Diamond plate dowel sleeve.
Your pour is ready for casting.
(Insert sleeve with in 24 hours to minimise effect of concrete shrinkage)