

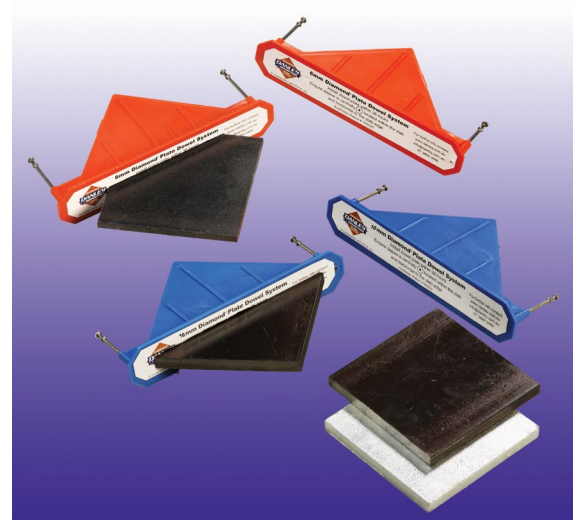
Plate dowel system for joints in concrete pavements

Uses

Diamond Dowels are used in the formation of construction joints in concrete pavements. They allow for movement in both lateral directions whilst still providing maximum shear load transfer across the joint.

Advantages

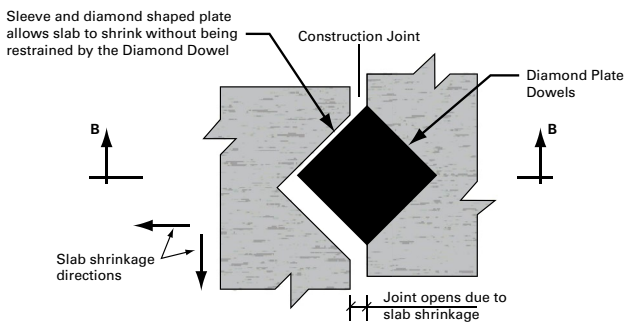
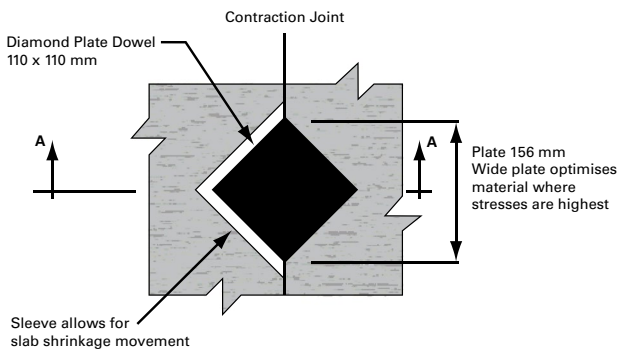
- Wide dowel plate at point of maximum load reduces stress on concrete
- Minimises differential deflection between slabs
- Allows two directional movement in the horizontal plane
- One-piece colour coded sleeves for both 6 mm and 10 mm dowels
- Ideal for perimeter-of-pour dowel applications, i.e. at construction joints
- No need to drill forms to support dowels during concrete pour
- Nailing flange provides secure attachment to form boards
- Flange on sleeve ensures dowel is perpendicular to form board and is stable
- Sleeves moulded from durable, non-compressible material
- Sleeves fitted with double-headed nails - second head on nail acts as an anchor to help retain the sleeve in the concrete when stripping the form boards
- Reduced likelihood of sleeve knock-off when placing steel reinforcement mesh
- Simplifies form removal
- Dowel plates available in black and galvanised
- Stainless steel dowel plates are also available
- Ergonomically designed, user-friendly packaging, complete kit and installation instructions



Description

Diamond Dowels consist of 2 parts; the sleeve which is moulded from PVC and the dowel plate which is made from mild steel or stainless steel. The configuration of the installed Diamond Dowel allows adjacent concrete pavement slabs to move in both directions in the horizontal plane whilst minimising any shear displacement across joints. Each sleeve is fitted with an internal spacer to prevent collapse caused by pressure of concrete, but easily displaced into the apex of the sleeve when inserting the Diamond plate.

Diamond Dowel



Supply

Diamond Dowels are packaged in kit format, in cartons that are illustrated with Installation Instructions.

Each carton contains 25 sets of 6 mm Diamond Dowel plates and one-piece sleeves [orange], or 15 sets of 10 mm Diamond Dowel plates and one-piece sleeves [blue]. Each sleeve is fitted with 2 double-headed steel nails.

Installation Instructions

Mark the form for slab centre and Diamond Dowel spacing (typically 450 mm to 600 mm). Using the 2 nails, attach the base to the form. Ensure nailing plate is parallel to top of slab.

Place concrete. Edge of slab must be vibrated to consolidate concrete around the Diamond Dowel sleeve (avoid contact with the sleeve with vibrator shaft).

After the concrete has developed sufficient strength, strip the formwork to reveal the face of the dowel sleeve ready to accept the plate dowel. This is best accomplished by starting at one end and working along the form.

Insert the Diamond Dowel plate into the sleeve (at the centre point of sleeve) within 36 hours of concrete pour. The second pour can now be made.

Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.