

Narva Headquarters

Diamond® Dowels



Kingston Property Constructions used Diamond® Dowels during construction of Narva's modern 25,000 m² head office. Marty Stow, Site Foreman, estimates that Diamond® Dowels saved 120 hours of labour during construction, in addition to improving the long-term performance of the slab.

Compared to round dowels and sleeves the Diamond® Dowel saves a significant amount of time when prepping the slab before the pour.

The team at Kingston Property Constructions found that when using a round dowel system the sleeves needed to be nailed to the edge form and supported with bar chairs in order to keep the sleeves horizontal and maintain the stability of the slab. The length of the round sleeves also created a problem because concreters were forced to walk on the mesh and risked dislodging the sleeves.

Since using Danley's Diamond® Dowels Kingston Property Constructions have found that there is no need to straighten any misaligned dowel sleeves, set up additional bar chairs or drill into the form boards because Diamond® Dowels allow you to attach sleeves to the form board before it is positioned. The Diamond® Dowel sleeve is also compact and robust meaning there is no need for additional support or bar chairs.

Diamond® Dowels provide superior construction-joint support because:

- Each sleeve is fitted with an internal spacer to prevent collapse caused by the pressure of the concrete. The spacer is easily displaced into the apex of the sleeve when the Diamond® plate is inserted
- Diamond® Dowel sleeves are moulded from durable non-compressible material ensuring the dowel holds square and rigid and voids are not formed in the concrete

While working on the Narva Headquarters project Kingston Property Constructions estimated that Diamond® Dowels saved around three hours per 20x20 m pour equating to a total labour-saving of 120 hours.



Project: Narva Headquarters

Location: Knoxfield, Victoria

Client: Kingston Property Constructions

Products: Diamond® Dowel (6mm Black), Seal N Rip® (5mm), and Plate Dowel Cradles™

Builders & Design Team:
Kingston Property Group - Builder
Klopfers Dobos - Engineer
KPA - Concreter

Project Value: \$24 million

Completion: Due August 2009

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Civil Tech Safe Guard Slab Tech Multi Level