

Dowel bar sleeve system for joints in concrete pavements

Uses

Dowel bar sleeve system used at joints in concrete to transfer vertical loads across the joint by using square dowel bars. Areas of application include construction joints, concrete pavements and slabs.

Advantages

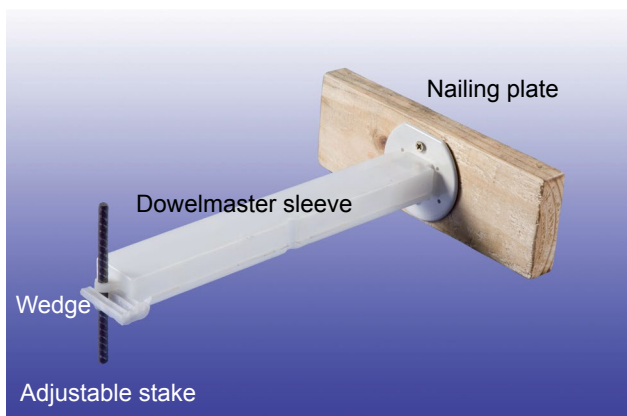
- No need to drill forms to support dowels during concrete pour
- Nailing plate provides secure attachment to form boards
- Dowelmaster sleeves available in 16mm, 20mm and 25mm
- Dowel bars available in 16mm, 20mm, 24mm to suit dowelmaster sleeves
- Dowel bars available in black and galvanised
- Square dowels available for both 16 mm and 20 mm Dowelmaster sizes
- Stainless steel dowel bars are also available
- Dowelmaster sleeves provide expansion joint capability
- Dowelmaster sleeves supplied complete with support stake and wedge
- Can be used with Metal Keyjoint and Expandajoint

Description

Dowelmaster sleeves allow square dowels to move both parallel and perpendicular to the construction joint as the concrete slab shrinks during curing. Dowelmaster sleeves are placed on the first pour side of the formboard. After the concrete has cured, remove the formwork and the nailing plates, then insert the appropriate square dowel into the Dowelmaster sleeve before the second concrete pour is made.

Dowel Bars

A range of dowel bars are available in round or square, black or galvanised. Please contact your nearest Parchem office for details.



Supply

- 16mm x 150-200mm with stake (100 per box)
- 20mm x 200-250mm with stake (100 per box)
- 25mm x 200-250mm with stake and nailing plate (25 per box)
- 16mm Nailing Plate (100 per box)
- 20mm Nailing Plate (100 per box).

Installation Instructions

Step 1: At one end of the formboard, mark a point equal to one half of slab thickness – 32 mm (e.g. for 150 slab, mark the point $150/2 = 75 - 32 = 43$ mm) down from the top of the formboard. Repeat at other end of formboard. Join both marks with a tight string line. Mark position of the first dowel from the end of formboard, then mark the position of subsequent dowels along the string line. Place the first Nailing Plate at the first position and nail in place – 2 nails diagonally opposite each other should be adequate. Locate and nail in place subsequent nailing plates (Fig 1).

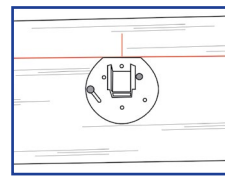


Fig 1

Step 2: Place the first Dowelmaster sleeve over the protruding tabs on the Nailing Plate (Fig 2), then push sleeve firmly against the back face of the Nailing Plate (Fig 3). This will ensure wet concrete does not seep into sleeve.

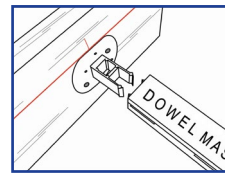


Fig 2

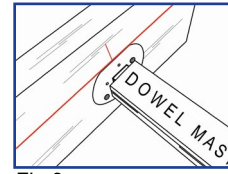


Fig 3

Step 3: Insert adjustable stake through the hole in end of first Dowelmaster sleeve and hammer it into the ground making sure it is secure (Fig 4). Break wedge off the sleeve. Accurately level the sleeve and hold in place by inserting the wedge between the stake and the back end of sleeve (Fig 5). Repeat at last Dowelmaster sleeve along formboard.

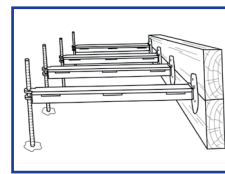


Fig 4

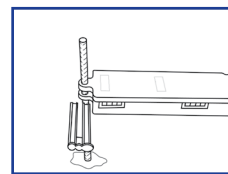


Fig 5

Step 4: Hammer a stake in at both ends of formwork and run a string line across the entire length of the joint (Fig 6). Once string line is to the correct height you can adjust all of the remaining Dowelmaster sleeves to the correct height and again lock them into place with stakes and wedges.

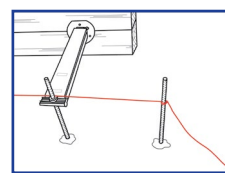


Fig 6

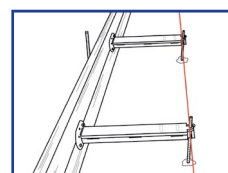


Fig 7

Dowelmaster

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.

Corkjoint



Parchem Construction Supplies Pty Ltd
7 Lucca Road, Wyong NSW 2259
Phone: 1300 737 787
www.parchem.com.au
ABN 80 069 961 968

Distributed in New Zealand by: Concrete Plus Ltd
23 Watts Rd, Sockburn 8042 Ph: 03 343 0090