# Radmix Box Dowel

Radmix has revolutionised the dowel joint with a simple and effective system that provides greater load transfer at control and construction joints in concrete slabs.

The Box Dowel provides a system (Ribflex) which while maintaining a level slab surface over joints, allows movement sideways plus back and forth when expansion and contraction occurs in the concrete.

Curling is a significant problem in concrete slabs. The Box Dowel helps in restraining slab curling by restricting vertical movement, thus maintaining a level slab.

The Radmix Box Dowel is a cost effective system allowing for a greater load transfer over slab joints. This gives the client a better system at a lower cost. Specifying a Box Dowel is specifying a dowel joint with the reassurance of exact dowel placement.

The Radmix Box Dowel is available in two sizes (16mm & 20mm) to compliment the load transfer at slab joints in pavements ranging from thinner (light duty) to thick (heavy duty) concrete slabs.

Each Radmix Box Dowel system is supplied with one box and bars.

**BENEFITS:**

- Greater load carrying capacity over slab joints
- Ease of movement between slabs
- Reduction of slab curling
- Fast installation
- Wider spacing between dowels
- Cost saving

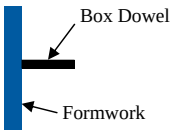

## Box Dowel spacing for ground slabs

| | SLAB THICKNESS (mm) | | | | | |
|---|---|---|---|---|---|---|
| **DOWEL TYPE** | **125** | **150** | **175** | **200** | **225** | **250 Plus** |
| **BD16** | 650 | 650 | 550 | 450 | 350 | N/A |
| **BD20** | N/A | N/A | 600 | 600 | 450 | 400 |

## Installation

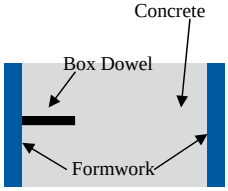
### Step One:

Nail the Dowel Box on the inside of the formwork at a height that is central to the slab thickness.



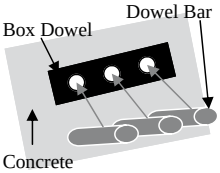

### Step Two:

The concrete is then poured between formwork, encasing the dowel boxes.




### Step Three:

Formwork is then stripped, leaving the front of the Dowel Box exposed, ready for the insertion of the dowel bars.




### Step Four:

Dowel bars are placed into the holes provided by the Dowel Box previously cast into the slab. Concrete is then poured for the new slab, incasing the protruding ends of the dowel bars.