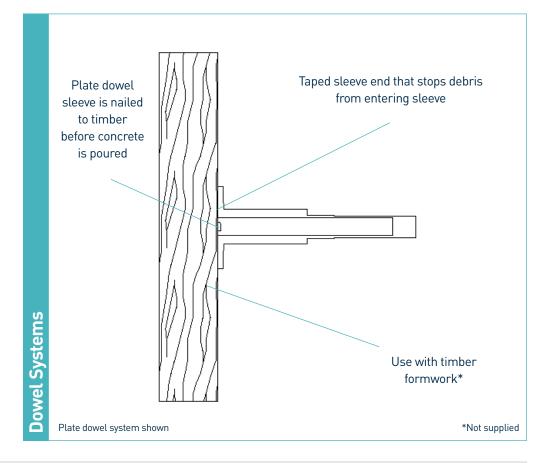


# Dowel Systems





Specification Sheet Issue 3.2 19/03/2025









t: +44 1752 895288 | f: +44 1752 395800 | e: info@rcrflooringproducts.com



# **Dowel Systems**

Specification Sheet Issue 3.2 19/03/2025

dimensions in mm

### manufacturing tolerances

Length±2.0mmThickness±0.4mm

# Square Dowel Bar | TD plate Dowel | TD

## weight of packaging information

Dowel Type	Single Dowel Weight (kg)	Single Sleeve Weight (kg)	
DD6 Plate Dowel	0.6	0.1	
DD10 Plate Dowel	1.0	0.2	
TD10 Plate Dowel	1.2	0.2	
Square Dowel Bar	1.9	0.2	

Weight values shown are approximate.

materials				
Component	Material			
Plate dowel	EN 10025-2:2004 S275JR			
Plate dowel sleeve	HDPP			
Square dowel bar	BS EN 10025-2:2004 S275JR			
Square dowel bar sleeve	PP			











## **Dowel Systems**

Specification Sheet Issue 3.2 19/03/2025

## theoretical calculated ultimate loads at failure of dowel or concrete

(For typical slabs, 40N/mm2 concrete and 10mm joint opening)		Unreinforced Slab	
Slab Depth (mm)	Dowel Type	Bending (KN/m)	Bursting (KN/m)
150	DD6 @ 450mm	38.9	103.8
	DD10 @ 450mm	38.9	212.7
	TD10 @ 450mm	31.2	168.9
	Square Bar @	31.5	76.3
	300mm		
200	DD6	62.8	103.8
	DD10	62.8	212.7
	TD10	49.9	168.9
	Square Bar	42	76.3
250	DD6	61.7	103.8
	DD10	61.7	212.7
	TD10	72.6	168.9
	Square Bar	52.5	76.3
300	DD6	71.1	103.8
	DD10	71.1	212.7
	TD10	86.9	168.9
	Square Bar	63	76.3

Disclaimer: Dowels are to be inserted into the sleeve within 24 - 48 hours following the pour.

DD are spaced at 450 mm, TD spaced at 600 mm and Square Bars spaced at 300 mm.

This table shows the load at failure in bursting (failure of the concrete) and bending (failure of the dowel) for a joint opening of 10mm - larger joint openings can be accommodated. The ultimate load has been calculated in accordance with TR34 4th Edition. Dowel position taken at mid depth of slab. For more detailed analysis please contact RCR Flooring Products Ltd.

\*All design calculations should be verified by a suitably qualified structural engineer.







