

# CANZAC® | GROUP

Improving the performance of concrete worldwide®

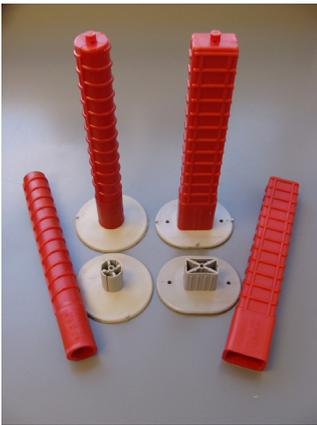


## DOWEL SYSTEMS

### SPEED DOWEL

#### SLIP DOWEL INSTALLATION SYSTEM PREFERRED BY ENGINEERS AND CONTRACTORS ALIKE.

Speed Dowel provides a highly-effective method for constructing superior quality construction joints. Additionally, speed dowel cuts time and labour of the conventional slip dowel installation by half. A two-part system consisting of a sleeve and reusable base plate.



#### KEY FEATURES / BENEFITS

- Ensures proper alignment
- Superior choice for slab on grade and vertical wall construction joints
- Simple three-step method compared with traditional ten-step dowel method
- Reduces slip dowel installation costs by up to 50%

#### QUALITY ASSURANCE FOR FUNCTIONING CONCRETE

“Load transfer is accomplished through aggregate interlock, through a preformed key, or by the use of a doweled joint” ACI 224.3R-21 5.24

“For dowels to be effective, they should be smooth, aligned, and supported so they will remain parallel in both the horizontal and vertical planes during the placing and finishing operation. All dowels should be sawed and not sheared. Properly aligned, smooth dowels allow the joint to open as concrete shrinks” ACI 302.1R-12 3.2.7

“The dowels should be centered on the joint, to permit horizontal movement, the dowels must not bond to the concrete on at least one side of the joint” ACI 224.3R-21 5.2.4

“Dedicated designers realize the proper implementation of their design is crucial for successful construction. Design criteria for concrete construction includes the use of dowels in expansion and construction joints to accommodate movement and load transfer. Improper alignment of these dowels will cause increased tensile stress, which results in spalling and cracking of the concrete. These failures will ultimately increase repair and maintenance costs and diminish the appearance of the concrete.”

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## DOWEL SYSTEMS

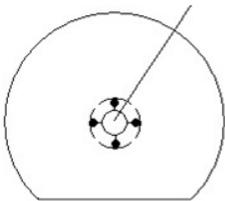
### SPEED DOWEL

#### INSTALLATION INSTRUCTIONS

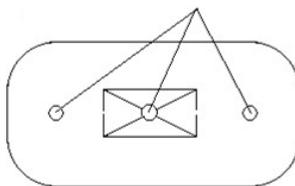
1. Attach bases to the face of the concrete forms using a double-headed nail or self-tapping screw.
2. Center of base shall be centered on form (or positioned as directed by engineer)
3. Prior to pouring concrete, SPEED DOWEL sleeve shall be slipped over base plate
4. Pour concrete minimum 18" from SPEED DOWEL system and work concrete around the SPEED DOWEL system
5. Concrete forms shall be removed with base plates still attached. Base plates may be reused
6. Install slip dowels to the full depth of the embedded SPEED DOWEL sleeve and proceed with next concrete pour

#### FOR OPTIMUM REUSE OF YOUR FORMWORK WHEN USING THE SPEED DOWEL SYSTEM (FOR ROUND OR SQUARE SPEED DOWEL BASE PLATES)

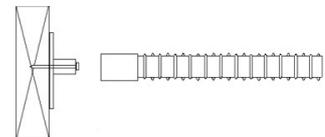
For round base plates, only one central screw is required (as pictured). (NOTE: Flat part of base is to be lined up with string line)



For square base plates, use three screws as pictured



Remove all slurry from the back of the formwork that the base is attached to for easy form removal.



#### IMPORTANT INFORMATION

Inside the speed dowel sleeve is a nipple 20mm long.

When inserting dowel into sleeve do not force any further than the nipple.

When dowel bars have been cropped and not cut, only one end of the dowel will slide into the sleeve.

Try the other end or grind one end of the dowel.

**DO NOT HAMMER THE DOWEL INTO THE SLEEVE!**

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## DOWEL SYSTEMS

### SPEED DOWEL

#### PRODUCT INFORMATION

##### SQUARE SPEED DOWELS, SLEEVES AND BASE PLATES

CODE	SIZE	UNIT
70 605	Square 16mm x 16mm x 200mm Long Sleeve	Each
70 610	Square 16mm x 16mm x 230mm Long Sleeve	Each
10 615	Square 16mm x 16mm x 300mm Long Sleeve	Each
11 605	Black Square 16mm x 16mm x 400mm Long Dowel	Each
11 610	Black Square 16mm x 16mm x 460mm Long Dowel	Each
11 615	Black Square 16mm x 16mm x 600mm Long Dowel	Each
11 650	Galvanised Square 16mm x 16mm x 400 Long Dowel	Each
11 655	Galvanised Square 16mm x 16mm x 460mm Long Dowel	Each
11 660	Galvanised Square 16mm x 16mm x 600mm Long Dowel	Each
10 620	Square 16mm Base Plate	Each
12 605	Black Square 16mm x 16mm x 400mm Long Dowel with Square 16mm x 16mm x 200mm Long Sleeve	Set
12 605.G	Galvanised Square 16mm x 16mm x 400mm Long Dowel with Square 16mm x 16mm x 200mm Long Sleeve	Set
12 610	Black Square 16mm x 16mm x 460mm Long Dowel with Square 16mm x 16mm x 230mm Long Sleeve	Set
12 660	Galvanised Square 16mm x 16mm x 460mm Long Dowel with Square 16mm x 16mm x 230mm Long Sleeve	Set
12 615	Black Square 16mm x 16mm x 600mm Long Dowel with Square 16mm x 16mm x 300mm Long Sleeve	Set
12 670	Galvanised Square 16mm x 16mm x 600mm Long Dowel with Square 16mm x 16mm x 300mm Long Sleeve	Set

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## DOWEL SYSTEMS

### SPEED DOWEL

#### PRODUCT INFORMATION

##### SQUARE SPEED DOWELS, SLEEVES AND BASE PLATES

CODE	SIZE	UNIT
10 705	Square 19mm x 19mm x 230mm Long Sleeve	Each
10 710	Square 19mm x 19mm x 300mm Long Sleeve	Each
11 705	Black Square 19mm x 19mm x 460mm Long Dowel	Each
11 710	Black Square 19mm x 19mm x 600mm Long Dowel	Each
11 755	Galvanised Square 19mm x 19mm x 460mm Long Dowel	Each
11 760	Galvanised Square 19mm x 19mm x 600mm Long Dowel	Each
10 715	Square 19mm Base Plate	Each
12 710	Black Square 19mm x 19mm x 460mm Long Dowel with Square 19mm x 19mm 230mm Long Sleeve	Set
12710.G	Galvanised Square 19mm x 19mm x 460mm Long Dowel with Square 19mm x 19mm x 230mm Long Sleeve	Set
12 715	Black Square 19mm x 19mm x 600mm Long Dowel with Square 19mm x 19mm x 300mm Long Sleeve	Set
12 720	Galvanised Square 19mm x 19mm x 600mm Long Dowel with Square 19mm x 19mm x 300mm Long Sleeve	Set
70 720	Square 20mm x 20mm x 230mm Long Sleeve	Each
70 725	Square 20mm x 20mm x 300mm Long Sleeve	Each
11 715	Black Square 20mm x 20mm x 460mm Long Dowel	Each
11 720	Black Square 20mm x 20mm x 600mm Long Dowel	Each
11 770	Galvanised Square 20mm x 20mm x 460mm Long Dowel	Each
11 775	Galvanised Square 20mm x 20mm x 600mm Long Dowel	Each
10 730	Square 20mm Base Plate	Each

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## DOWEL SYSTEMS

### SPEED DOWEL

#### PRODUCT INFORMATION

##### SQUARE SPEED DOWELS, SLEEVES AND BASE PLATES

CODE	SIZE	UNIT
72 805	Black Square 20mm x 20mm x 460mm Long Dowel with Square 20mm x 20mm x 230mm Long Sleeve	Set
72 860	Galvanised Square 20mm x 20mm x 460mm Long Dowel with Square 20mm x 20mm x 230mm Long Sleeve	Set
72 810	Black Square 20mm x 20mm x 600mm Long Dowel with Square 20mm x 20mm x 300mm Long Sleeve	Set
72 865	Galvanised Square 20mm x 20mm x 600mm Long Dowel with Square 20mm x 20mm x 300mm Long Sleeve	Set

##### ROUND SPEED DOWELS, SLEEVES AND BASE PLATES

	SIZE	UNIT
10 090	Round 12mm x 230mm Long Sleeve	Each
10 095	Round 12mm x 300mm Long Sleeve	Each
11 023	Black Round 12mm x 460mm Long Dowel	Each
11 104	Black Round 12mm x 600mm Long Dowel	Each
10 098	Round 12mm Base Plate	Each
12 096	Black Round 12mm x 460mm Long Dowel with Round 12mm x 230mm Long Sleeve	Set
12 097	Black Round 12mm x 600mm Long Dowel with Round 12mm x 300mm Long Sleeve	Set
12 100	Galvanised Round 12mm x 460mm Long Dowel with Round 12mm x 230mm Long Sleeve	Set
12 101	Galvanised Round 12mm x 600mm Long Dowel with Round 12mm x 300mm Long Sleeve	Set

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## DOWEL SYSTEMS

### SPEED DOWEL

#### PRODUCT INFORMATION

##### ROUND SPEED DOWELS, SLEEVES AND BASE PLATES

CODE	SIZE	UNIT
10 100	Round 16mm x 230mm Long Sleeve	Each
10 105	Round 16mm x 300mm Long Sleeve	Each
11 110	Black Round 16mm x 460mm Long Dowel	Each
11 115	Black Round 16mm x 600mm Long Dowel	Each
11 155	Galvanised Round 16mm x 460mm Long Dowel	Each
11 160	Galvanised Round 16mm x 600mm Long Dowel	Each
10 110	Round 16mm Base Plate	Each
12 110	Black Round 16mm x 460mm Long Dowel with Round 16mm x 230mm Long Sleeve	Set
12 115	Black Round 16mm x 600mm Long Dowel with Round 16mm x 300mm Long Sleeve	Set
12 160	Galvanised Round 16mm x 460mm Long Dowel with Round 16mm x 230mm Long Sleeve	Set
12 170	Galvanised Round 16mm x 600mm Long Dowel with Round 16mm x 300mm Long Sleeve	Set
70 220	Round 20mm x 230mm Long Sleeve	Each
10 225	Round 20mm x 300mm Long Sleeve	Each
11 210	Black Round 20mm x 460mm Long Dowel	Each
11 215	Black Round 20mm x 600mm Long Dowel	Each
11 255	Galvanised Round 20mm x 460mm Long Dowel	Each
11 260	Galvanised Round 20mm x 600mm Long Dowel	Each
10 230	Round 20mm Base Plate	Each

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## DOWEL SYSTEMS

### SPEED DOWEL

#### PRODUCT INFORMATION

##### ROUND SPEED DOWELS, SLEEVES AND BASE PLATES

CODE	SIZE	UNIT
12 205	Black Round 20mm x 460mm Long Dowel with Round 20mm x 230mm Long Sleeve	Set
12 210	Black Round 20mm x 600mm Long Dowel with Round 20mm x 300mm Long Sleeve	Set
12 255	Galvanised Round 20mm x 460mm Long Dowel with Round 20mm x 230mm Long Sleeve	Set
12 210.01	Galvanised Round 20mm x 600mm Long Dowel with Round 20mm x 300mm Long Sleeve	Set
10 305	Round 24mm x 230mm Long Sleeve	Each
10 310	Round 24mm x 300mm Long Sleeve	Each
11 305	Black Round 24mm x 460mm Long Dowel	Each
11 310	Black Round 24mm x 600mm Long Dowel	Each
11 355	Galvanised Round 24mm x 460mm Long Dowel	Each
11 365	Galvanised Round 24mm x 600mm Long Dowel	Each
10 315	Round 24mm Base Plate	Each
12 305	Black Round 24mm x 460mm Long Dowel with Round 24mm x 230mm Long Sleeve	Set
12 310	Black Round 24mm x 600mm Long Dowel with Round 24mm x 300mm Long Sleeve	Set
12 305.1	Galvanised Round 24mm x 460mm Long Dowel with Round 24mm x 230mm Long Sleeve	Set
12310.1	Galvanised Round 24mm x 600mm Long Dowel with Round 24mm x 300mm Long Sleeve	Set

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## DOWEL SYSTEMS

### SPEED DOWEL

#### PRODUCT INFORMATION

##### ROUND SPEED DOWELS, SLEEVES AND BASE PLATES

CODE	SIZE	UNIT
10 415	Round 32mm Base Plate	Each
10 405	Round 32mm x 230mm Long Sleeve	Each
10 410	Round 32mm x 300mm Long Sleeve	Each
11 405	Black Round 32mm x 460mm Long Dowel	Each
11 410	Black Round 32mm x 600mm Long Dowel	Each
11 455	Galvanised Round 32mm x 460mm Long Dowel	Each
11 465	Galvanised Round 32mm x 600mm Long Dowel	Each
12 390	Black Round 32mm x 460mm Long Dowel with Round 32mm x 230mm Long Sleeve	Set
12 410	Black Round 32mm x 600mm Long Dowel with Round 32mm x 300mm Long Sleeve	Set
12 395.01	Galvanised Round 32mm x 460mm Long Dowel with Round 32mm x 230mm Long Sleeve	Set
12 410.01	Galvanised Round 32mm x 600mm Long Dowel with Round 32mm x 300mm Long Sleeve	Set

**OTHER SIZES AVAILABLE, PLEASE CONTACT FOR PRICING**

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## DOWEL SYSTEMS

### SPEED DOWEL

#### PRODUCT INFORMATION

##### ROUND SPEED DOWELS, SLEEVES AND BASE PLATES

CODE	SIZE	UNIT
10 515	Round 38mm Base Plate	Each
10 505	Round 38mm x 250mm Long Sleeve	Each
12 511	Black Round 38mm x 500mm Long Dowel with Round 38mm x 250mm Long Sleeve	Each

**OTHER SIZES AVAILABLE, PLEASE CONTACT FOR PRICING**