



**ENGINEERED
PRODUCTS**

SQUARE DOWEL BOXES

FOR MOVEMENT JOINT APPLICATIONS



**MAKING
THE
COMPLEX
SIMPLE**



SRG GLOBAL SQUARE DOWEL BOXES

Permanent Movement Joint Load Transfer System

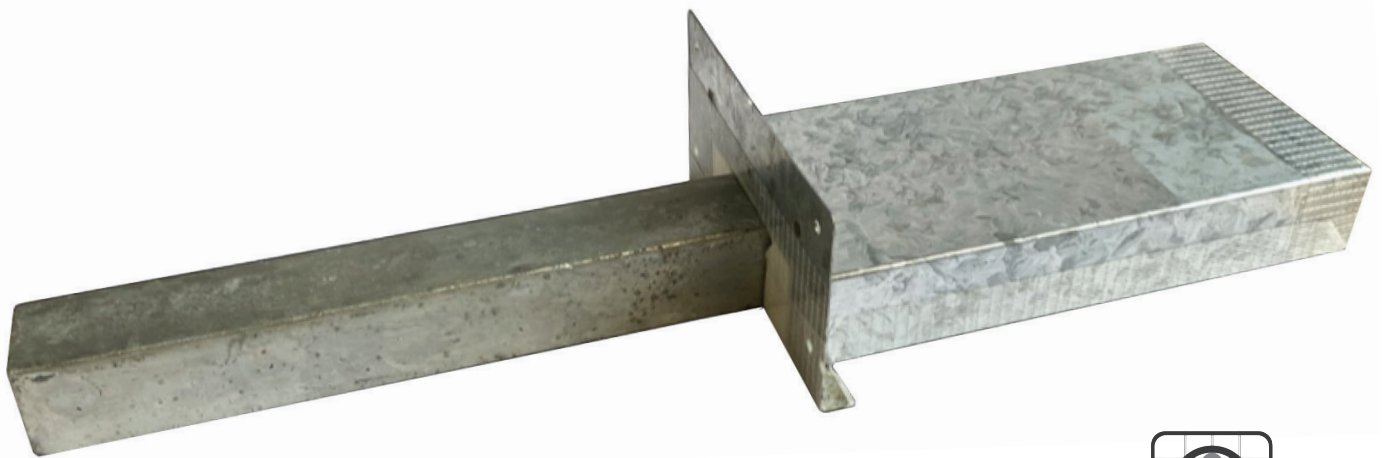
Square dowel boxes allow for longitudinal and lateral movement in concrete slab joints while providing high shear capacity. The boxes and dowels are manufactured with ACRS certified galvanised steel and comply with the relevant Australian Standards (AS3679.1, AS1365 and AS1397:2011)

SRG's square dowel boxes allow for early concrete longitudinal and lateral shrinkage across the joint and long term thermal expansion.

The boxes allow for a minimum lateral movement of 20mm either side of the bar and provide a large expansion joint capacity for a typical maximum expansion of 20mm.

The system comprises of two components, a high quality galvanised sheet metal box that is intended to be nailed to the edge-board before the first concrete pour, and a square HDG dowel bar that slides into the box before the second pour. SRG offer manufacturing of any length and width of dowel and box.

- Easy to install, fixed straight to formwork.
- Designed for post-tensioned slabs.
- Allows for longitudinal and lateral shrinkage.
- Minimum lateral movement of 20mm either side of the bar.





SPECIFICATIONS

Dowel Specifications

Model	Bar Section Size	Material	Material Standard	Steel Grade	Yield Stress	Tensile Strength	Applicable Standard
	mm				MPa	MPa	
16 Dowel	16	HDG Mild Steel	AS/NZS3679.1	Grade 300	340	490	AS/NZS3679.1
20 Dowel	20	HDG Mild Steel	AS/NZS3679.1	Grade 300	360	510	AS/NZS3679.1
25 Dowel	25	HDG Mild Steel	AS/NZS3679.1	Grade 300	335	490	AS/NZS3679.1
32 Dowel	32	HDG Mild Steel	AS/NZS3679.1	Grade 300	349	532	AS/NZS3679.1
40 Dowel	40	HDG Mild Steel	AS/NZS3679.1	Grade 300	320	520	AS/NZS3679.1

400mm bar length typical. Non-standard bar lengths available on request.

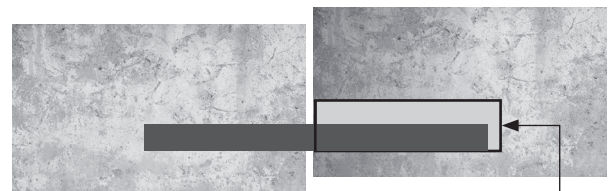
Box Specifications

Model	Box Size	Material	Material Standard	Steel Grade	Yeald Stress	Tensile Strength	Applicable Standard
	mm				MPa	MPa	
Dowel Box	Varies to suit bar size	HDG Mild Steel	AS/NZS1365	Grade 300	310	360	AS/NZS1397:2011

Plan view detail when poured



Plan view detail post shrinkage



Sleeve allows for lateral movement without restraint





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