

DOWEL BARS – STEEL

DESCRIPTION

Dowel bars (or dowel rods) transfer load across concrete joints, preventing slab deflection while allowing natural joint movement. Allcon's premium dowel bars are **cut, not cropped**, ensuring smooth, burr-free ends for true joint movement – cropping can leave burrs and deformations that hinder performance. Available in round or square profiles and are galvanised to Australian standards for corrosion protection.



FEATURES & BENEFITS

Cut, not cropped

Smooth, burr-free ends allow true joint movement and load transfer.

Galvanised

Galvanised to Australian Standards for corrosion protection

Round & square profiles

Selectable to suit load transfer and joint detailing.

12–32 mm dia, 300–600 mm long

Sized to slab thickness and traffic loads.

Sleeve & cradle compatible

Faster placement and reliable on-site alignment.

Consistent straightness

Uniform diameter for dependable load performance.

ESTIMATING & SIZES

SKU	DIAMETER × LENGTH	PROFILE	STEEL GRADE	YIELD STRENGTH	TENSILE STRENGTH
DBS12R300G	R12 × 300 mm	Round	300	575 MPa	620 MPa
DBS12R450G	R12 × 450 mm	Round	300	575 MPa	620 MPa
DBS16R450G	R16 × 450 mm	Round	300	440 MPa	680 MPa
DBS16S450G	SQ16 × 450 mm	Square	300	440 MPa	680 MPa
DBS16R600G	R16 × 600 mm	Round	300	440 MPa	680 MPa
DBS20S450G	SQ20 × 450 mm	Square	300	445 MPa	700 MPa
DBS20R450G	R20 × 450 mm	Round	300	445 MPa	700 MPa
DBS20S600G	SQ20 × 600 mm	Square	300	445 MPa	700 MPa
DBS20R600G	R20 × 600 mm	Round	300	445 MPa	700 MPa
DBS24R450G	R24 × 450 mm	Round	300	340 MPa	510 MPa
DBS25S400G	SQ25 × 400 mm	Square	300	340 MPa	510 MPa
DBS28R450G	R28 × 450 mm	Round	300	430 MPa	660 MPa
DBS32R450G	R32 × 450 mm	Round	300	395 MPa	650 MPa

Estimating: Space dowels at 300–600 mm centres at mid-slab depth. Match bar diameter to slab thickness (commonly 12–25 mm). Contact Allcon for load-transfer design assistance.

All bars Grade 300 to AS/NZS 3679.1. Yield & tensile from MTS tensile test reports (AS 1391:2020): 16–32 mm per report 25-0671-B (Jun 2025); 12 mm per report 25-1507 (Nov 2025). Square profiles quote the tested value for the equivalent round diameter.

◆ INSTALLATION

- 1 Set dowels at mid-depth of the slab, perpendicular to and centred on the joint.
- 2 Space at 300–600 mm centres in accordance with the design.
- 3 Ensure dowels are supported with sleeves, reinforcing or anchored into an existing pavement for alignment.
- 4 Use a dowel sleeve or apply a bond breaker or grease to the free end to permit horizontal movement.
- 5 Check dowels are parallel and level before placing concrete.

◆ PROPERTIES & TESTING

- › Manufactured from steel bar to relevant AS/NZS standards.
- › Hot-dip galvanised coating for corrosion resistance .
- › Cut ends, not cropped, for a clean, burr-free finish.
- › Test certificates available on request.

◆ STORAGE

Store off the ground on a dry, level surface under cover.
Keep galvanised bars ventilated and clear of standing water to prevent white rust. Handle to avoid damaging the galvanised coating.

◆ DISCLAIMER

Allcon products are manufactured to the highest quality, and if used in the correct applications and in accordance with all directions, will produce quality and consistent results. However Allcon Group Pty Ltd accepts no responsibility for inappropriate usage or faulty workmanship by the end user.