

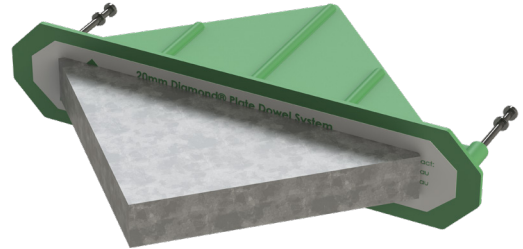
Product Data Sheet

Danley™ Diamond™ Dowel 20

Date:	April, 2019
Reference:	DD200419
Item Code:	DDSLPL20G
Author:	K. Storer

Product Overview:

Diamond™ Dowels are a plate dowel and sleeve system designed for construction joint applications in **heavy duty** concrete slabs and pavements. Diamond™ Dowels are designed as a fast fix system that **provides load transfer** across the joint and minimises differential deflection between adjacent slab panels.

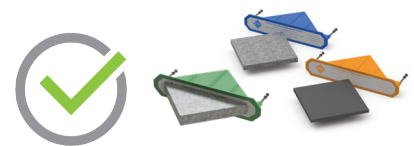


Diamond™ Dowels comply with the requirements of TR34 (4th Edition).

Diamond™ Dowels provide a low in-place cost solution by eliminating the need for the drilling or processing of formwork that is required with traditional round and square dowel systems. Diamond™ Dowels attach directly to wooden formboard or metal formwork plates and come pre-packaged with all components ready for installation.

Product Features:

- Standard Diamond™ Dowel plates are manufactured from steel to AS/NZS 3679.1 Grade 300.
- Maximises surface area at the joint.
- Nailing flange provides secure attachment to formboards.
- Double-headed nails help retain the sleeve in the concrete when stripping the formboards.
- Sleeve system ensures the dowel is perpendicular to the formboard and is stable.
- Sleeves moulded from durable, non-compressible plastic.
- Hot-dip galvanised steel to AS/NZS 4680.



Diamond™ Dowels allows for perpendicular and parallel differential shrinkage. Patented Diamond shape reduces the risk of restraint.

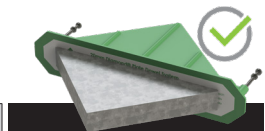
Applications:

- Industrial, Commercial and Civil flooring applications.
- Heavy duty concrete slab-on-ground roadways & pavements.

Danley™ Diamond™ Dowel 20	
Item Code:	DDSLPL20G
Trade Pack Qty:	7 pcs
Pack Weight:	16 kgs
Pallet Qty:	630 pcs
Available:	July, 2019

Product Performance Data:

Slab Thickness (mm)	Single Dowel Design Capacity (kN)	Single Wheel Design Load (kN) (mid panel joint)	Single Wheel Design Load (kN) (edge loading)
200	25.2	162	89
250	38.4	281	154
300	54.4	431	237
350	73.1	635	349
400	94.5	889	489
450	118.7	1184	651



Diamond™ Dowels comply with the requirements of TR34 (4th Edition), providing load capacity at joint width gaps up to 20mm.

Concrete Compressive Strength Effect:

Strength MPa	30	32	35	40	45
Factor	1	1.03	1.08	1.15	1.22

Notes:

Dowel spacing 450mm
 Concrete strength 30MPa
 Joint opening 10mm
 Design capacities should be compared with factored loads