

Hyper ArmourMate™ 20

Product Data Sheet

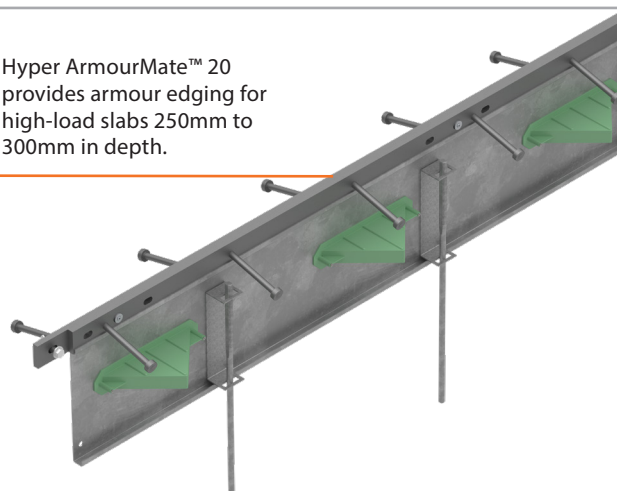
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Product Description

Danley™ Hyper ArmourMate™ 20 is the premium armour edging solution suited to heavy duty slabs 250mm to 300mm in thickness, where the wear surface must withstand materials handling equipment (MHE) traffic with small hard-wheels carrying high-loads on a daily basis.

Hyper ArmourMate™ 20 is designed to provide the total joint system by incorporating 3 systems in the one solution:
 The Hyper ArmourMate™ steel rails provide armour edging.
 The 20mm Diamond™ Dowels & Sleeves provide load transfer.
 The Galvanised 245mm sacrificial separation plate replaces timber form boards.

Hyper ArmourMate™ 20 provides armour edging for high-load slabs 250mm to 300mm in depth.



Product Features & Applications

- Supplied to site in standard 3 metre lengths.
- Danley™ 20mm Diamond™ Dowels provide load transfer @ 450mm centres.
- Danley™ Diamond™ Dowel plates are manufactured from steel to AS/NZS 3679.1 Grade 300. Hot-dip Galvanised steel to AS/NZS 4680:2006.
- Rails manufactured from high-quality, precision cold drawn steel.
- Solid flat bar rail 40mm x 10mm.
- 245mm sacrificial formwork plate replaces traditional timber form boards. Separation plates are available in Galvanised finish to AS/NZS 4680:2006.
- Flatness Tolerance = ±0.5 mm/600mm (±1.0 mm per 3m length).
- Twist & Lockstake bracket system.
- Hyper ArmourMate™ 20 full joint systems are available in either Black (AMHY245FJS) or Galvanised (AMHY245FJSG) top rail configurations.
- 245mm Hyper ArmourMate™ pre-fabricated 2, 3 and 4 Way Intersections are also available - sold separately. Contact the Customer Service team for details.

- Port facilities and container terminals
- Heavy rail and intermodal facilities
- Airports, hangers and runways
- Mining and heavy haulage hardstands
- Freight and transport facilities



Hyper ArmourMate™ 20

Product Performance Data: Diamond™ Dowel 20mm

Slab Thickness (mm)	Single Dowel Design Capacity (kN)	Single Wheel Design Load (kN) (mid panel joint)	Single Wheel Design Load (kN) (edge loading)
250	38.4	281	154
300	54.4	431	237

Concrete Compressive Strength Effect:

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

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

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

Need more information? Contact the Danley™ Customer Service Team.

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