

Plate 85 ArmourMate™

Technical Data Sheet

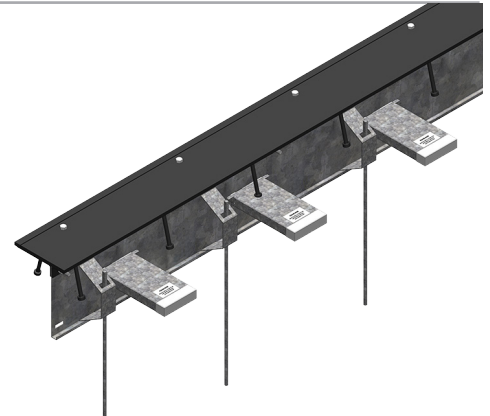
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Product Description

Plate 85 ArmourMate™ is designed to be installed at the construction joints in Post Tension slab applications or where large shrinkage joints are expected to occur.

The plate that bridges over the gap provides a smooth ride for traffic travelling over the joint, minimising wheel damage and impacts and allows for up to 85mm expansion in the joints. Plate 85 ArmourMate™ is supplied in standard 2.25 metre lengths.

Plate 85 ArmourMate™ is a cover plate type armour edging solution and is designed for applications where the wear surface must withstand materials handling traffic with small hardwheels carrying high-loads on a daily basis, in particular semi-automated and automated materials handling environments.



Performance Data

20mm Square Dowel

Slab Thickness (mm)	Single Dowel Design Capacity (kN)	Single Wheel Design Load (kN) (mid panel joint)	Single Wheel Design Load (kN) (edge loading)
150	9.2	53	29
160	10.5	62	34
175	12.3	74	41
200	14.3	92	51
250	14.5*	106	59
300	14.5*	115	63

25mm Square Dowel

Slab Thickness (mm)	Single Dowel Design Capacity (kN)	Single Wheel Design Load (kN) (mid panel joint)	Single Wheel Design Load (kN) (edge loading)
150	9.9	57	31
160	11.3	66	36
175	13.7	82	45
200	18.1	117	64
250	25.7*	188	104
300	25.7*	204	112

Dowel spacing 450mm. Concrete strength 30MPa. Joint opening 40mm.

Design capacities should be compared with factored loads. Limiting capacity is concrete shear cone capacity, except for *

* Limiting capacity is steel bearing/bending capacity - do not apply concrete factors.

Concrete Compressive Strength Effect

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

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