

Hyper ArmourMate™ Expanda™

with Rip-A-Strip™ Capping

Product Description

Hyper ArmourMate Expanda is a premium armour edging solution designed for applications where the concrete edge and wear surface must withstand materials handling traffic with small hard-wheels carrying high-loads on a daily basis, in particular semi-automated and automated materials handling environments.

Ideally suited to external industrial pavements, Hyper ArmourMate Expanda is galvanised and pre-fitted with 10mm closed cell expansion foam to provide for the thermal expansion of concrete. Now featuring Rip-A-Strip the Hyper ArmourMate Expanda provides for easy filling of the joint with an approved sealant and continued servicability.

Product Specifications

- Edge protection achieved using 1020 cold-drawn steel rails, 40mm high x 10mm wide.
- Supplied in standard 3000mm lengths.
- Provided with a standard 60mm overlapping rail connection to allow for easy linear joining of lengths.
- Prefitted with 10mm thick closed-cell foam to accommodate concrete thermal expansion without restraint..
- Includes removable 10mm x 10mm Rip-A-Strip for installation of approved sealants and to support future joint repairs.

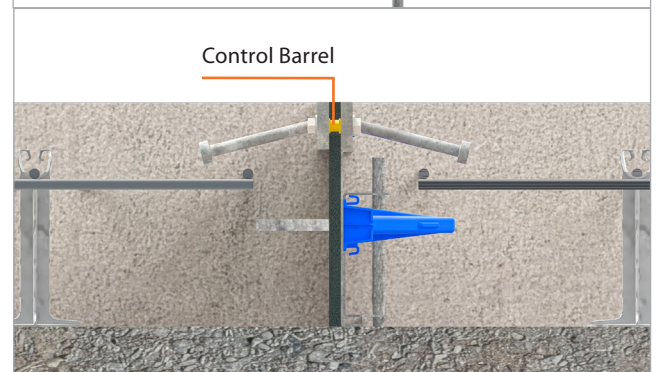
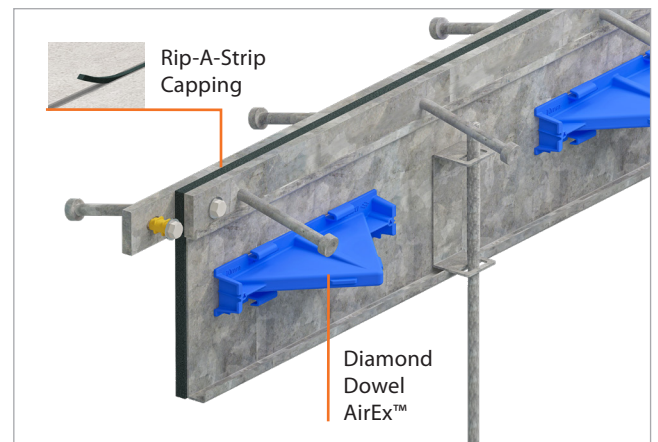
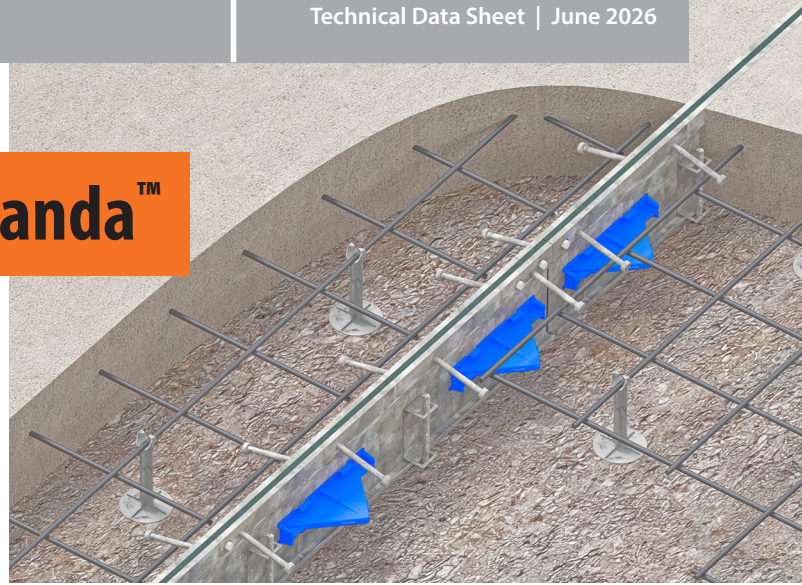
Materials & Components

- Galvanised top rails, shear studs, and separation plates.
- Galvanised Diamond™ Dowel AirEx™ for load transfer.

Design & Functional Features

Patented Control Barrel positioned at the offset joint connection:

- Assists with alignment control.
- Prevents crushing of the 10mm expansion foam during manufacture and installation.
- Enhances joint-to-joint connection integrity.
- Twist-N-Lock Stake Bracket system for simple and secure joint installation and levelling.



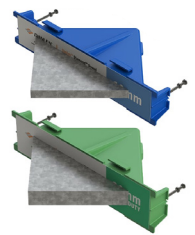
Hyper ArmourMate Expanda provides slab edge protection to prevent concrete spalling and provides for the thermal expansion of concrete.

Product Codes & Measurements: **Hyper ArmourMate Expanda**

Product Codes	Rail Dims H x W (mm)	Length (mm)	Diamond™ Dowel (mm)	Dowel Centres (mm)	FJS Height (mm)	Slab Depth (mm)	Finish
AMHY145FJSG-EF	40 x 10	3000	10	450	145	150-165	Galvanised
AMHY165FJSG-EF					165	170-185	
AMHY190FJSG-EF			190		195-220		
AMHY245FJSG-EF			245		250-300		

Material Specification **Diamond Dowel AirEx**

Component	Dimension (mm)	Material Type	Finish	Standard	Yield Stress (MPa)	Tensile Strength (MPa)
10mm Plate	10 x 110 x 110	Steel	Galv	AS/NZS 3679.1:2016 / AS/NZS 4680:2025	300	440
20mm Plate	20 x 114 x 114					
10mm Plate	10 x 110 x 110	Stainless Steel 316	SS	ASTM A240 Grade 316	205	515

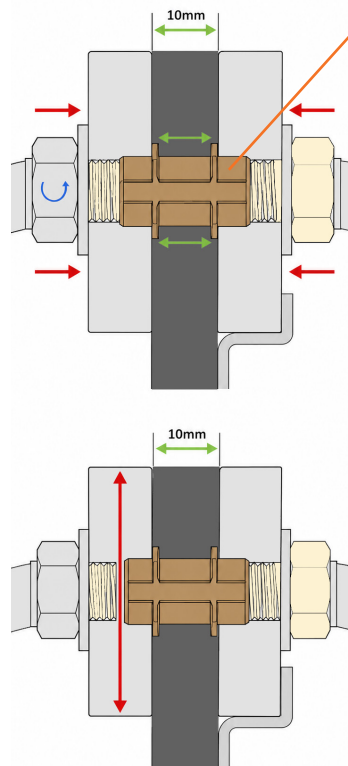


10mm Diamond Dowel AirEx is also available in Stainless Steel. 20mm Diamond Dowel AirEx is available in Galvanised ONLY.



Rip-A-Strip Joint Preparation

- Allows for approved joint sealant to be added to the joint.
- Removes concrete laitance over joint and provides clean joint line.
- Comes out cleanly ready for application of sealant, with no joint face cleaning required.
- Aids in future joint repairs.
- The use of joint sealants prevents debris from getting into joint when contraction occurs.



Control Barrel Function

The sacrificial Control Barrel is designed to maintain rail spacing and control joint movement during assembly, transport and concrete expansion/compression cycles.

- Maintains rail spacing and prevents foam compression during installation.
- Allows controlled clamping of steel rails without reducing 10mm expansion capability.
- Provides dowel-like deflection control between armoured steel rails.
- Control ribs shear when joint expands to allow unrestrained joint movement due to concrete expansion.
- Supports secure onsite joining between adjacent joint lengths.
- Obround barrel design improves alignment and ensures correct installation orientation.
- Allows lateral fastener movement for improved assembly onsite joining alignment.

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