

## PACKAGING INFORMATION

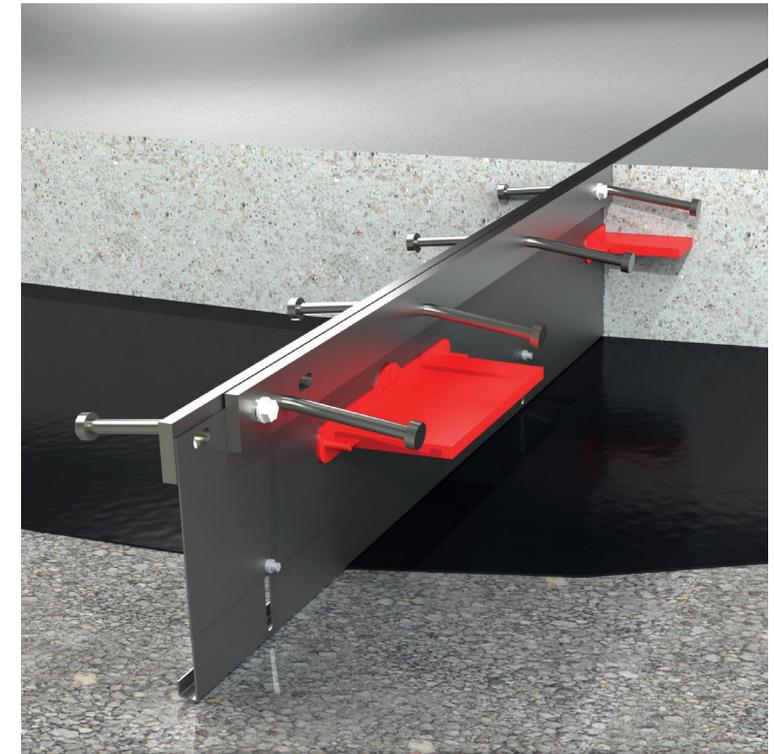
ARMOURJOINT® WEIGHTS (kg per joint)				
	Joint size (mm)			
Type	135	150-200	200-250	250-300
Dowels 5 x 8mm	33	36	38	42
Dowels 5 x 12mm	37	39	41	46

ARMOURJOINT® QUANTITY PER PALLET				
	Joint size (mm)			
Type	135	150-200	200-250	250-300
ALL	49	49	35	28

ARMOURJOINT® WEIGHTS (kg per road freight pallet)				
	Joint size (mm)			
Type	135	150-200	200-250	250-300
Dowels 5 x 8mm	1747	1879	1435	1295
Dowels 5 x 12mm	1918	2052	1559	1394

ARMOURJOINT® WEIGHTS (kg sea freight pallet)				
	Joint size (mm)			
Type	135	150-200	200-250	250-300
Dowels 5 x 8mm	1772	1904	1460	1320
Dowels 5 x 12mm	1943	2077	1584	1419

**ARMOURJOINT®**  
HEAVY-DUTY REINFORCEMENT



**TECHNICAL  
DATA SHEET**

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**ISEDIO®**  
THE COMPETITIVE EDGE  
IN CONCRETE FLOORING

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# ARMOURJOINT® HEAVY-DUTY REINFORCEMENT

Patents Pending

**ARMOURJOINT®** is a leave-in-place joint system designed specifically to meet the demanding needs of today's industrial concrete floors. **ARMOURJOINT®** surpasses the requirements of TR34 4th Edition.

**ARMOURJOINT®** stands for superior performance through innovative design.

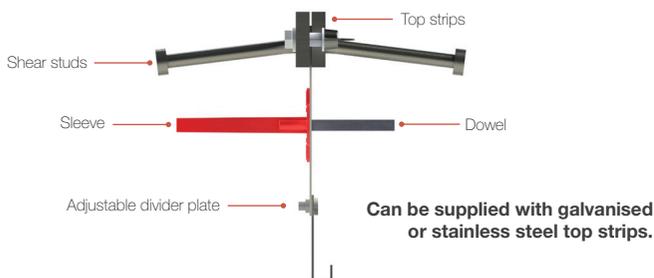
## PRODUCT DIMENSIONS AND FEATURES

**ARMOURJOINT®** is supplied in 3m lengths.

### PLAN VIEW



### END VIEW



## SLAB PANEL EDGE ARMOURING

**ARMOURJOINT®** provides heavy duty edge reinforcement by way of solid, high specification, cold drawn steel top strips nominally 10mm thick x 40mm deep. The top strips are fitted with shear studs, drawn arc welded in place, which provide anchorage in to the concrete. Each and every shear stud weld is tested to ensure its integrity. **ARMOURJOINT®** can also be supplied in stainless steel, galvanised and pre-installed with miothene.

## HEIGHT ADJUSTABLE DIVIDER PLATE

**ARMOURJOINT®** is offered with a traditional fixed depth divider plate for slab thicknesses less than 150mm or greater than 300mm. For more common slab thicknesses of 150-300mm, **ARMOURJOINT®** utilises its patents pending adjustable divider plate. The divider plate has a top and bottom section, securely attached together by special fasteners that require no tools or adjustment on site. The extendable range is 50mm and the

bottom section of divider plate makes contact with the sub-base membrane. **ARMOURJOINT®** is available in 150-200mm, 200-250mm and 250-300mm joint sizes. There are two key benefits from this innovative system. Firstly, there is no spillage of concrete under the joint. This saves clean up time, eliminates concrete waste and disposal costs. Secondly, at the end of the project surplus joints can be saved for use on the next job site.

## DOWEL DESIGN

Since its inception in 2009, **ARMOURJOINT®** continues to lead the way with its unique and revolutionary 'Asymmetric Plate Dowel' design. Other traditional joint systems have an inherent design weakness such that the dowel is positioned centrally across the closed joint. From the moment the joint opens, dowel engagement on the free side reduces, thus moving away from a condition of equal dowel engagement on both sides of the joint. Ultimately, with large joint openings there is a risk of the dowel becoming totally disengaged on the free side and the complete loss of load transfer across the joint. **ARMOURJOINT®** works differently since the dowel is offset 90mm on the sleeve side and 60mm on the fixed side of the joint. As the joint opens, **ARMOURJOINT®** moves towards a condition of equal dowel engagement. Even at a maximum joint opening of 30mm, each side of the joint has a class leading 60mm of dowel engagement in each slab panel.

**ARMOURJOINT®** dowels are made from a high grade S355 steel (355 N/mm<sup>2</sup> yield strength).

**ARMOURJOINT®** is offered with 5 dowels per 3m length (600mm dowel, spacing). This is the optimum dowel spacing for highest load transfer capacity.

Joints that create a full depth gap in the slab should be sealed with a suitable joint sealer to prevent detritus and waste surface wash water from reaching the sub-base in accordance with TR34 4th Edition.

## SLEEVE DESIGN

The sleeve forms a barrier between the steel dowel and the concrete slab and allows the concrete to release in two horizontal planes (longitudinal and perpendicular to the joint) on the free side of the joint. Vertical displacement between adjacent slab panels is undesirable as this can lead to a reduction in floor and joint life. **ARMOURJOINT®** sleeves are designed to facilitate a class leading +/- 20mm of longitudinal movement without the joint needing to open up. Other joint systems do not cater for sufficient longitudinal movement between slab panels, thus causing slab lock up, internal stresses and ultimately leading to cracking.

The long term performance of a concrete floor is highly dependent upon the quality and performance of the joint system. Specify the best, **ARMOURJOINT®** – 'the name says it all'.

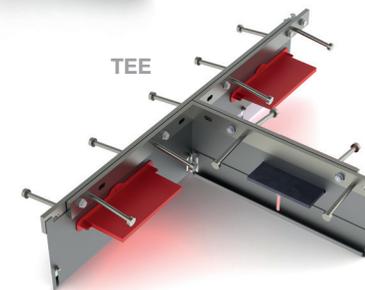
## ACCESSORIES

A full range of corners, tees and 4 ways are available along with **ARMOURFIX** installation jacks for setting **ARMOURJOINT®** up on site.

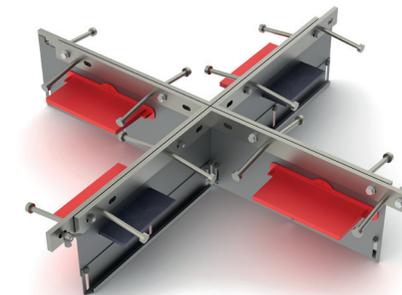
### CORNER



### TEE



### 4 WAY



### ARMOURFIX INSTALLATION JACK

