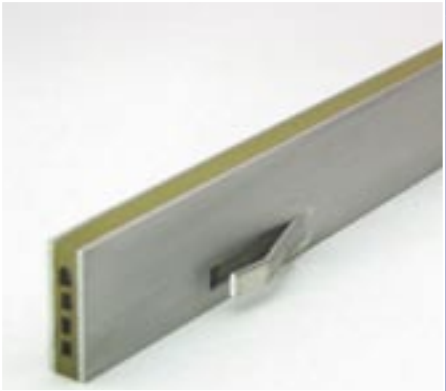
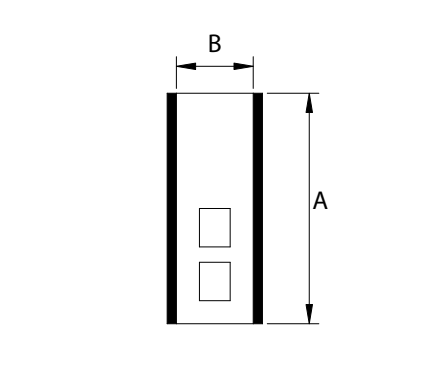
Mortarloc Thick-Bed Expansion Joints





MORTARLOC Expansion Joints are designed for thick-bed (mortar style) installations as opposed to thin bed installations where Batex is primarily used.

MORTARLOC is manufactured utilising two side plates, generally 1.2mm in thickness, sandwiching a Neoprene infill in between.

The thickness of the side plates is normally determined by the metal being used, and the subsequent installation surrounds and scenario. Thicker or thinner side plates can be used on request.

Mortarloc is manufactured in four standard metals; Aluminium, Brass, Stainless Steel, and Zinc.

The outstanding feature of the MORTARLOC Expansion Joints is that, unlike other available materials, there are no separate anchors required to hold the joint in place. The anchors are part of the existing side- plate, and are simply bent out to 45 degrees during installation, holding them in the mortar bed.

MORTARLOC and BATEX Expansion Joints are not mechanical movement joints and should only be installed where limited movement within the floor covering is expected.

One of the major reasons for movement is temperature fluctuation caused by either seasonal change, failure or disconnection of airconditioning systems within closed buildings or sudden downpours in tropical locations. All of which may result in thermal expansion or contraction between .003mm and .008mm per metre per degree centigrade temperature fluctuation. For basic calculations an average factor of .006mm per metre per degrees centigrade is acceptable.

Mortarloc can be custom made to specification i.e. radial, single-sided or multiple neoprene adhesion.

EXAMPLE		
Temperature during installation		25˚C
Expected Temperature rise		25°C (to 50°C)
Minimum Available Expansion on Mortarloc with 6mm neoprene infill = 10%		0.6mm
0.006mm/m °C x 25°C = 0.15mm/m Expansion per line metre		
Available expansion / Expansion per metre	0.6mm / 0.15mm/m	=4m (Distance between expansion joints

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Material Specifications:

SidePlates Used	
Aluminium	Alloy 6063
Brass	Alloy 380/F
Stainless Steel	Grade 304 / 316
Zinc	

All of these materials have high tensile strength, and good resistance to corrosion in an industrial atmosphere

Neoprene - available in 6mm or 10mm widths	
Colours	Black, Grey, Beige, other colours available on request
Hardness ASTM D2240 - Shore A	55
Tensile Strength ASTM D412	*10 MPA*
Elongation at Break	*600%*
Tear Resistance ASTM D624	*28 Kn/M*
Temperature Range	*-30˚C to + 110°C*
Acid Resistance - Concentrated	*Good*
Acid Resistance - Diluted	*Excellent*
Solvent Resistance - Hydrocarbons	*Good*
Solvent Resistance - Oxygenated	*Fair*
Oil & Gasoline	*Excellent*
Animal & Vegetable Oils	*Good*
Chlorine	*Fair*
Citric Acids	*Excellent*

Neoprene is universally recognised as having excellent resistance to deterioration from ozone and weathering, as well as high physical strength.
Please note that Neoprene can slightly discolour under extreme UV exposure. For more information contact B.A.T. Trims Pty Ltd.

Adhesive	
Softening Point	*165˚ C*
Normal Operating Temperature Range	*-60˚C to +180˚C*
Tensile Sheer Strength	*15-20 N/mm²*
Humidity Resistance	*High*

The adhesive used is specially formulated to bond Neoprene to metal