

Technical Data sheet - Polyurethane Movement Join

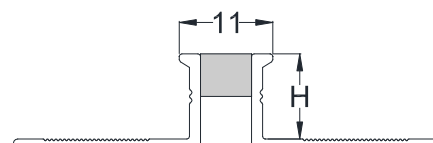
PU-JOIN Series

Movement Join

Our movement/expansion join was developed with Alusite in house technology to help you protect your floor from the cracking caused by thermal expansion.

Our engineered EJ series offers an easy replacement with advanced co-extruded infill, optimizing toughness and durability.

Offering a narrower width and more seamless integration to your flooring, the PU series is manufactured with high strength aluminium alloys and a high wear resistance Polyurethane infill bonded with Alusite bonding technology (patent pending). It is tough and yet flexible to accommodate thermal expansion.



Aluminium Details	
European Standard	EN573-3
British Standard	BS1474
American Standard	ASTM B221
Australian Standard	AS/NZ1866
Alloy	6063
Temper	T5
Composition : Si%	0.2-0.6
Composition : Fe%	0.35
Composition : Cu%	0.1
Composition : Mn%	0.1
Composition : Mg%	0.45-0.90
Composition : Zn%	0.1
Composition : Ti%	0.1
Composition : Cr%	0.1
Composition : Al%	Balance
Tensile Strength <3mm (N/mm ²)	175
0.2% Proof Stress <3mm (N/mm ²)	130
Elongation <3mm (%)	8
Flammability	Solid Aluminium is non-combustible material. Does not burn, does not give off smoke when exposed to fire and does not emit sparks on impact.

Polyurethane Details	
Chemical Base	One-part polyurethane
Hardness	Shore A 45
Tensile strength	2.4 N/mm² (340 psi)
Density	1.18 +/-0.05
Elongation at break	> 80%
Elongation at break	700%
Peel adhesion	150 N/cm (84 pounds per inch)
Tear strength	6 N/mm
Heat Resistance	- 40 to + 90 C (Service temperature-continuous)
Chemical resistance	Good resistance to water, saltedwater, diluted acids and bases

Head Office & Factory

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Laboratory Test Details

Toxicity and Heavy Metal (RoHS)	ISO 3613	Passed
Toxicity and Heavy Metal (RoHS)	US EPA 3052 & 6010B	Passed
Salt Spray (Corrosion Test)	ASTM B 117-03	240 Hrs
Accelerated Weathering test	ASTM G154	1,000 Hrs

Maintenance

Alusite Series utilizes 6063 aluminium alloy commonly used for building material. As with any finished building material, anodized aluminum requires reasonable care prior to and during installation and periodic cleaning and maintenance after installation. Although anodized aluminum possesses exceptional resistance to corrosion, discoloration, and wear, its natural beauty can be marred by harsh chemicals, rough conditions or neglect. Such conditions usually affect only the surface finish and do not reduce the service life of the aluminum. However, scratching and wear and may be damaged by tile adhesive, mortar, or grouting material. Therefore, setting materials must be removed with a sponge and warm water immediately.

Precautions

Remove and clean adhesive or grout residue from visible surfaces immediately. Avoid using aggressive alkaline or acid cleaners on aluminum finishes. Do not use cleaners containing trisodium phosphate, phosphoric acid, hydrochloric acid, hydrofluoric acid, fluorides, or similar compounds on anodized aluminum surfaces. Strong solvents or abrasive cleaners can cause damage to painted surfaces. Always follow the cleaner manufacturer's recommendations as to the proper cleaner and concentration. Test-clean a small area first. Different cleaners should not be mixed.

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