PREMIUM
ROOFING PRODUCTS

01992 444 100

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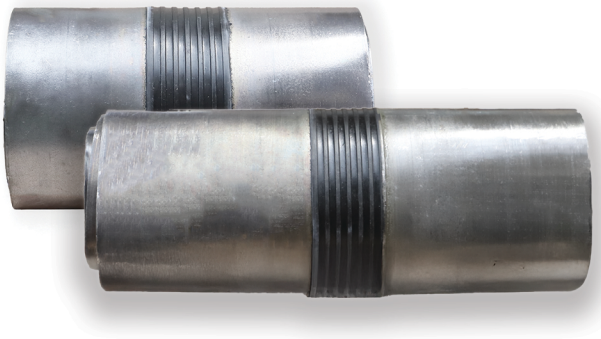
PRODUCT INFORMATION SHEET

EXPANSION JOINT



Recommended by the Lead Sheet Advisory Service (LSAS)

- An economic option to drip joints on shallow falls.
- Suitable for lead lined stone cornices and lead lined gutters.
- Life expectancy greater than 20 years.

Premium Lead Expansion Joints have been designed to overcome the problems arising when laying lead-lined gutters with restricted falls and to provide a lower-cost alternative to the restructuring of existing gutter detail. Traditionally, in applications such as lead-lined gutters, lead sheet lengths are joined by overlapping them at drips that stand at least 50mm high. However, if the fall is insufficient for this to be possible, a length of Lead Expansion Joint may be welded between the upper and lower sheets.

A weather-tight joint is achieved, which is sufficiently flexible to absorb the strains exerted by the thermal expansion and contraction of the adjoining lead sheets. The changes in length that lead sheet undergoes during expansion and contraction are absorbed by the neoprene insert in the Lead Expansion Joint.

The neoprene is vulcanized at elevated temperature and pressure while in contact with the lead wings, forming a very strong rubber-metal bond. The metal wings of the joint are manufactured from BS EN 12588, Code 5 rolled lead sheet.

Lead Expansion Joints have been recommended for cases where it is impracticle to incorporate drip joints in the refurbishment of lead-lined parapet or eave gutters. Lead Expansion Joints are able to operate satisfactorily in temperatures between -40°C and 100°C. They carry a manufacturer's guarantee of 10 years and have an expected life of greater than 20 years, if correctly installed. Expansion Joint Plus is a product that incorporates a strip of Code 3 lead that covers the neoprene section of the joint.

LSAS
LEAD SHEET ADVISORY SERVICE

Unit B, Bingley Road, Hoddesdon,
Hertfordshire, EN11 0NX

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- Lead Expansion Joint should be fixed at intervals conforming to LSAS guidelines.
- Overlay each length of lead sheet to be joined on either lead wing of the Lead Expansion Joint and trim the sheet on both sides so that both overlays are a minimum of 25mm in width.
- Protect the rubber in the Lead Expansion Joint with a damp cloth before starting to weld.
- Using standard lead burning techniques, weld the Lead Expansion Joint to both lengths of the sheet. A single weld should be sufficient when lap welding code 5 rolled lead sheet, however, a double weld would provide greater strength.
- Always apply a coat of Premium Roofing Patination Oil to all exposed lead surfaces. Take care that Patination Oil does not come into contact with the rubber section of the joint.
- If the Lead Expansion Joint Plus is used, ensure that the bonded edge of the cover strip is on the upper side of the neoprene strip with respect to the gutter fall.

LOT SIZES

Standard Expansion Joint:

3.0m x 260mm Code 5 one per box.
3.0m x 400mm Code 5 one per box

Expansion Joint Plus:

1.5m x 400mm Code 5 one per box

HEALTH & SAFETY ADVICE

- Keep out of the reach of children.
- When working with lead, follow standard health and safety procedures as laid out in Control of Lead at Work Regulations 2002. Always wash hands well before eating, drinking or smoking.
- Remove lead residues from skin after working with lead metal by washing with soap and bodywash.
- Lead is a dense material. Take suitable precautions when lifting or carrying.

PRODUCT DESCRIPTION & PROPERTIES

Composite: Lead alloy sheet is manufactured to BS EN 12588 Code 5 neoprene rubber

Density of lead: 11,340kg/m^3

Melting point of lead: 327°C

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