stirling lloyd
THE TECHNOLOGY OF PROTECTION

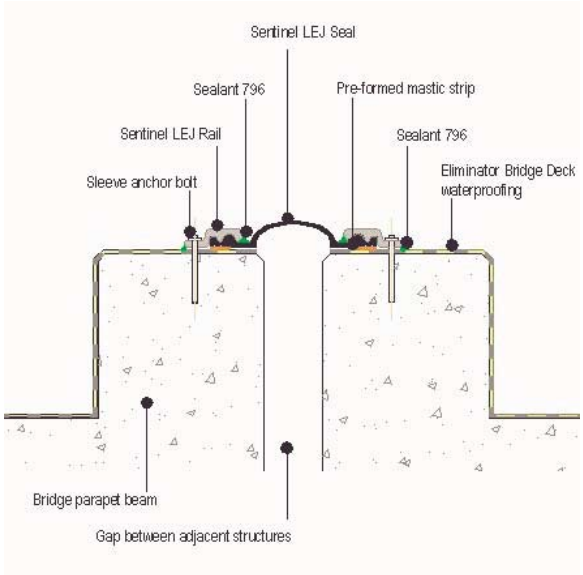
PRODUCT DATASHEET

sentinel® lej expansion joint system

LONGITUDINAL EXPANSION JOINT

DESCRIPTION

Sentinel LEJ is a longitudinal expansion joint designed to form a flexible watertight seal by spanning the gap between adjacent structures. It consists of a durable, highly flexible elastomeric seal that is clamped to the substrate with aluminium clamp rails, which are then bolted to the structure.



Sentinel LEJ is available in 2 seal sizes: LEJ 90 and LEJ 220 (Refer to Table 1 for movement capabilities)

USES

Sentinel LEJ will accommodate horizontal and vertical expansion as well as thermal and dynamic movements. It is not designed to be directly trafficked.

There are three primary uses for Sentinel LEJ:

- As a surface mounted joint between adjacent structures (see above detail)
- As a soffit mounted flexible watertight gutter detail
- As a watertight seal at a deck/wall interface

FEATURES

- Cost effective
- Rapid installation
- Surface mounted on decks, beams, walls and soffits
- Accepts a wide range of movements, up to 220mm
- Accepts horizontal and vertical movement
- Maintenance free
- Provides flexible waterproofing continuity between structures
- Installed only by authorised and trained contractors

TECHNICAL DATA

Table 1 - Movement Range

Type	Maximum Gap Width	Movement
90	100mm	+/- 45mm
220	240mm	+/- 110mm

SURFACE PREPARATION

No special preparation is required as the LEJ Seal is clamped into position, with the sealant below. However the substrate does need to be level and free from dirt and debris.

APPLICATION

LEJ Rails

The LEJ Rails are secured to the substrate using anchor bolt fixings. Holes for the anchors can be drilled through the LEJ Rails, using the holes in the LEJ Rails as a guide.

Pre-formed Mastic Strip

A pre-formed mastic strip should be applied to the substrate before the LEJ Seal is installed to provide a secondary seal between the Sentinel LEJ joint and the substrate.

LEJ Seals

LEJ Seals are supplied in 60m rolls. Wherever possible, joints in the LEJ Seals should be avoided.

Sealant 796

Once the LEJ Rails are fully tightened on both sides, securely embedding them into the Preformed Mastic Strip, a bead of Sealant 796 should be applied at both the LEL Rail/Eliminator waterproofing interface and at the LEJ Rail/LEJ Seal interface.

PACKAGING & STORAGE

Sentinel LEJ Rail	2m lengths with pre-drilled bolt holes
Sentinel LEJ Seals	60m rolls
Pre-formed Mastic Strip	12m rolls
Anchor Bolts	50 per Box
Sealant 796	310ml tubes, 12 per box

All components of the Sentinel LEJ System must be stored off the ground and protected from the elements and in accordance with the relevant site Health & Safety regulations. The LEJ Rails must be stored flat.

HEALTH & SAFETY

The Material Safety Data Sheet for the relevant components must be read, understood and available on site before commencing work.

It is the Company's policy to take all reasonable steps to prevent injury to all property and personnel from foreseeable hazards. This extends to the public in so far as they come into contact with the Company or its products.

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GENERAL INFORMATION

The Sentinel LEJ Expansion Joint System is part of a wide range of specialist expansion joints, waterproofing, surfacing and repair materials manufactured and supplied by Stirling Lloyd. These include the following highway related products:

- Eliminator Bridge Deck Waterproofing
- Sentinel – a range of expansion Joints
- Safetrack – a range including High Friction Surfacing, Colour Demarcation and Line Marking Systems
- Metaset – a range of rapid curing levelling screeds and repair mortars.

If you require any further information on these or any other of our products, please contact our Customer Services Department or visit www.stirlinglloyd.com

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Union Bank, King Street, Knutsford, Cheshire, WA16 6EF, England
Tel: +44 (0) 1565 633111 Fax: +44 (0) 1565 633555
E-Mail: info@stirlinglloyd.com
www.stirlinglloyd.com