

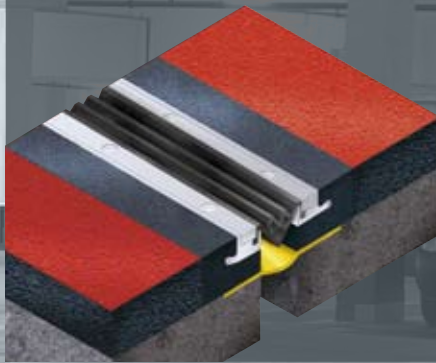


USL
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Britflex UCP Expansion Joints

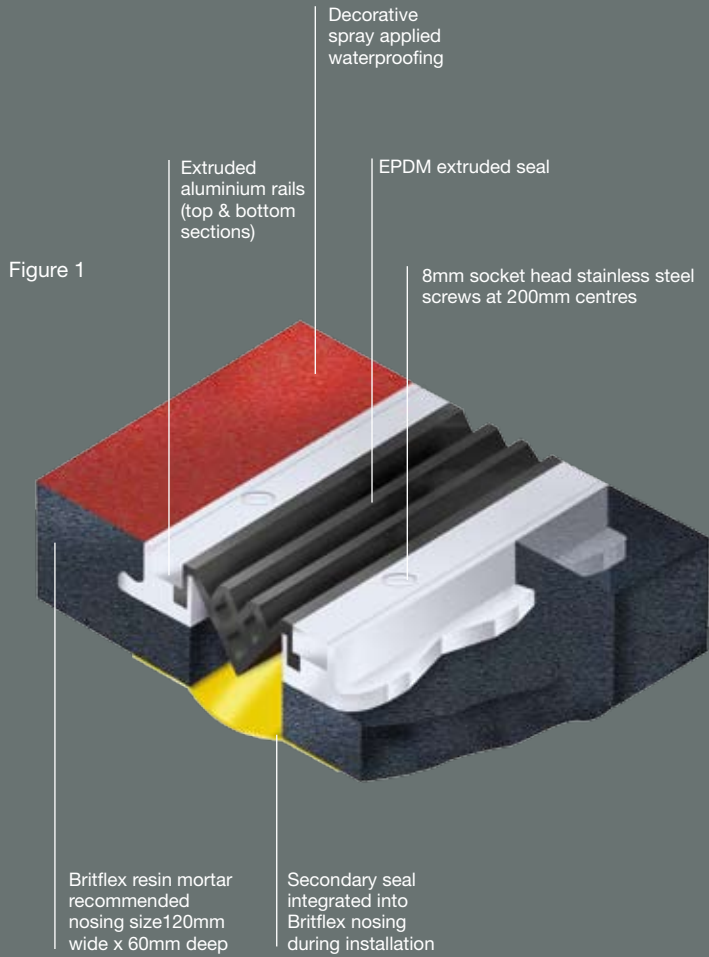
Car parks, footbridges and elevated structures



Market leaders in Expansion Joint Technology

The UCP expansion joint system has been carefully developed to provide a safe, efficient and economical method of sealing deck movement joints. These joints utilise the proven design technology successfully used in the Highways Agency approved BEJ range of expansion joints which are extensively used throughout Britain's motorway and truck road network and has an unrivalled 30 year track record.





UCP overview

Unlike conventional expansion joints which require deck drilling, the UCP joint is a surface mounted mechanical system which is bonded into the deck using a specially formulated polyureide resin.

Significant savings in installation costs and site possession periods can be achieved with each installation undertaken by USL StructureCare's fully trained, experienced personnel offering reassuring supply and installation packages.

There are currently two sizes of joint within the range UCP 50 and 70, capable of accommodating horizontal movements of 50mm and 70mm respectively.

In addition to the unique design, longevity and ease of installation, the joints are produced to the highest standards using premium ISO 9001 certified components.

These include heavy gauge aluminium rails, a resilient waterproof EPDM seal and additional secondary waterproof membrane.

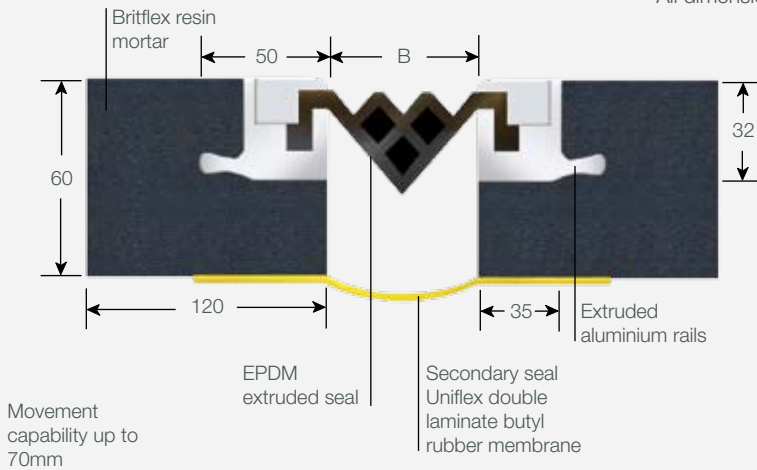
UCP joints are particularly suitable for applications where watertightness, low noise and smooth riding characteristics are paramount.

USL StructureCare has a progressive attitude to product development, manufacturing excellence and quality control.

UCP design detail

UCP	Movement Capacity		Minimum Nosing Sizes		Nominal Nosing Gap	Minimum Nosing Gap	Maximum Nosing Gap
	Horizontal	Vertical	C	D	B	B.Min	B.Max
50	50	±12	120	60	50	25	75
70	70	±15	120	60	70	30	105

All dimensions in mm



System advantages

- Versatile
- Watertight
- Rapid installation
- No drilling of deck required
- No mechanical fixings
- EPDM seal easily removed if required
- Provides quiet comfortable riding characteristics
- Capable of accommodating movement up to 70mm

Other applications

Applications for UCP joints are numerous and include:

- Multi-storey car parks
- Podiums and elevated structures
- Pedestrian footbridges
- Access and egress ramps

Each UCP joint is available from stock. Special sections are available to accommodate changes in direction both in plan and elevation. Furthermore, intersections are available at 90° changes of direction or other skew angles as requested.

Specification for the UCP Expansion Joint

Materials

- Polyureide Resin**
The Britflex Polyureide Resin is a two part liquid system comprising one clear component (base) and one black (hardener), packed in colour coded drums.
- Aggregate:**
The aggregate is a graded mix supplied in sealed plastic bags.
- Aluminium Rails:**
The extrusions are supplied in 4 metre lengths and are cut to length on site to suit requirements. Kerb units and mitred junctions may be prefabricated when considered necessary.
- EPDM Elastoemc Insert:**
The extruded elastomeric insert is available in two sizes namely UCP 50 and 70 capable of accommodating horizontal movements of ±25mm and ±35mm respectively. The insert is supplied and installed in one continuous length up to 50 metres unless otherwise specified.
- Secondary Membrane:**
Uniflex membrane is a butyl rubber membrane capable of withstanding elongation.



Additional information

Notes

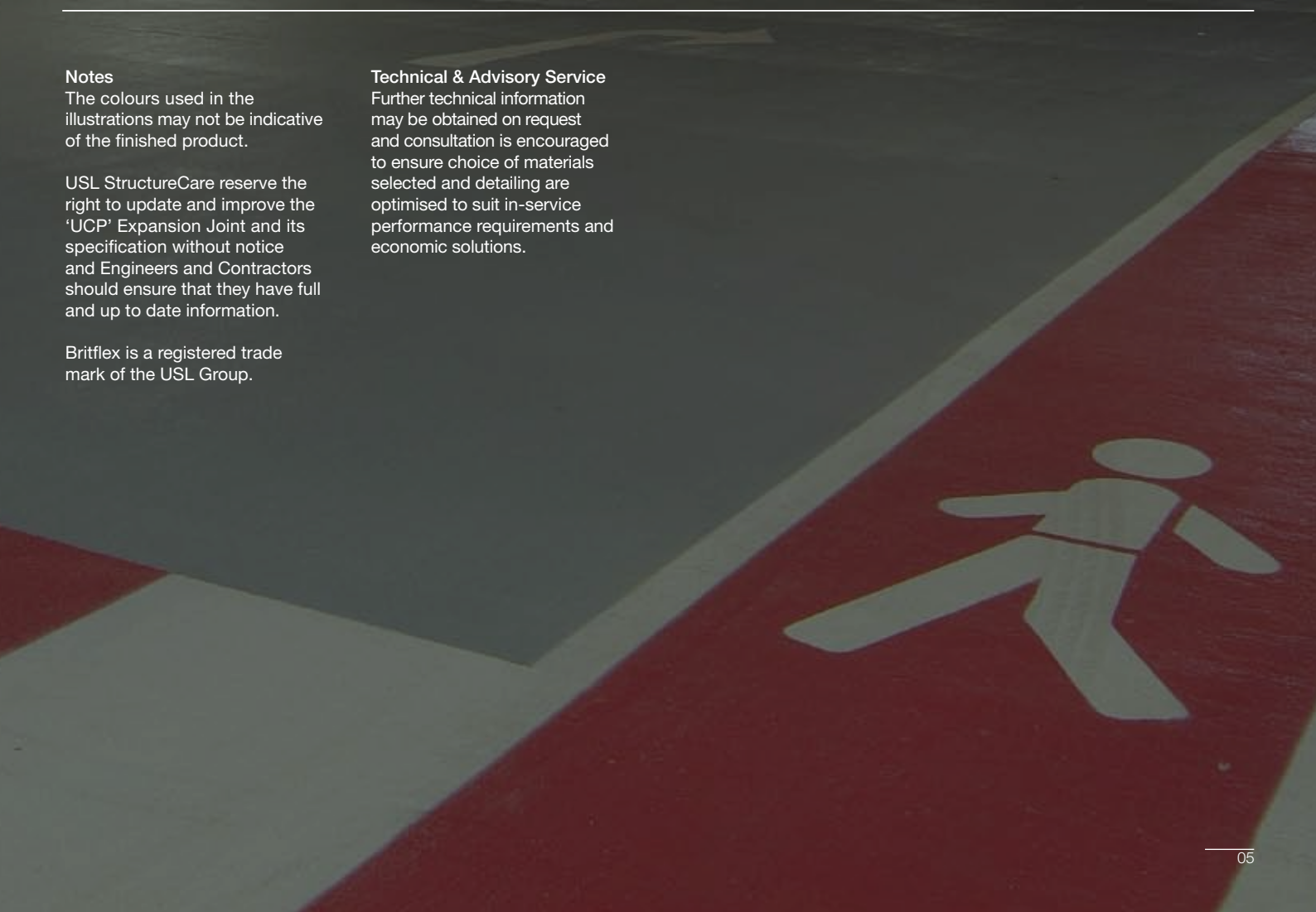
The colours used in the illustrations may not be indicative of the finished product.

USL StructureCare reserve the right to update and improve the 'UCP' Expansion Joint and its specification without notice and Engineers and Contractors should ensure that they have full and up to date information.

Britflex is a registered trade mark of the USL Group.

Technical & Advisory Service

Further technical information may be obtained on request and consultation is encouraged to ensure choice of materials selected and detailing are optimised to suit in-service performance requirements and economic solutions.





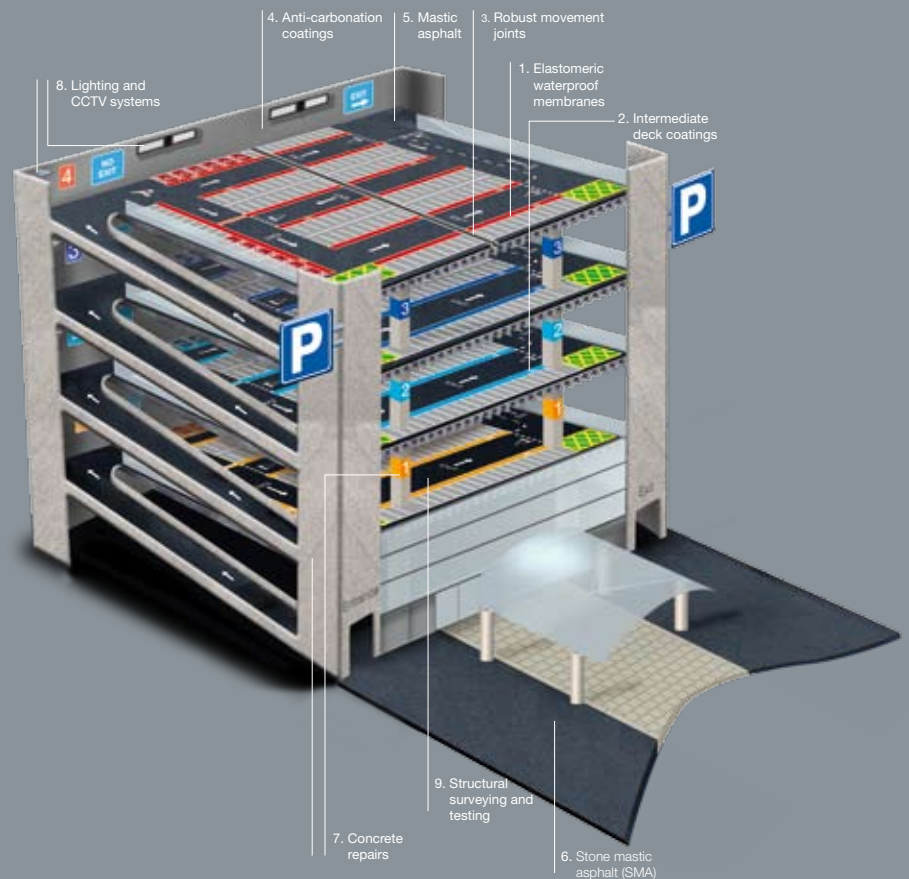
Additional services

In addition to expansion joints USL StructureCare also offer their clients the comfort of a 'one stop shop' car park refurbishment solution by utilising a range of state of the art, high performance, proprietary systems including:

- Structural waterproofing
- Anti carbonation / protective coatings
- Mastic asphalt
- Stone mastic asphalt (SMA)
- Concrete repairs
- Structural surveying and testing

Clients should be safe in the knowledge that all products are manufactured to strict ISO 9001:2000 quality standards and all work is carried out by USL's own highly trained and experienced contracting teams.

For more information on USL StructureCare's services please refer to their company brochure or visit www.structurecare.com







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