

LGS | LINEAR GAP SEAL

Technical Data Sheet

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SIDERISE[®]
integrity in all we do

Acoustic, fire and thermal insulation specialists

Application

Siderise LGS Linear Gap Seals are flexible, water-resistant, intumescent linear gap seals that expand when exposed to heat. They provide a versatile means of sealing junctions between building elements against fire penetration. They are maintenance-free and resistant to fungi and vermin.

The compressible foam core accommodates different joint widths to allow for structural movement whilst additionally meeting requirements for cold smoke seal, thermal and acoustic properties.

Standard sizes are available to suit voids up to 150mm and provide a 2-hour fire rating. The material can also be used as an effective, adaptable fire stop inside cable trunkings - allowing for the installation of further cables.

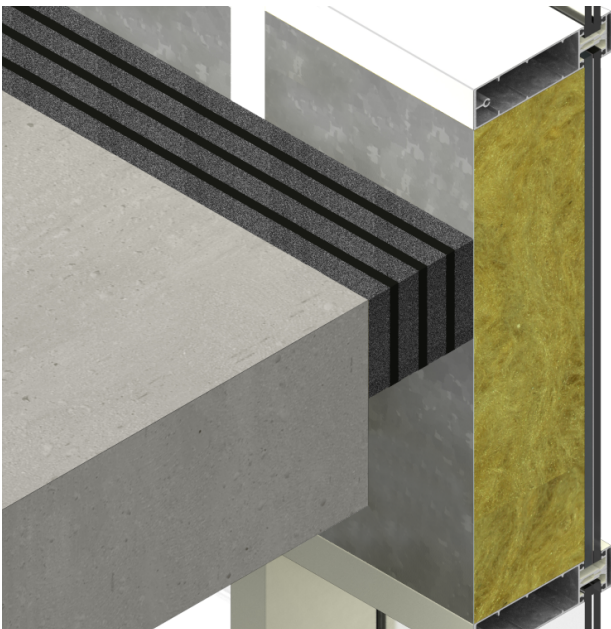
Product Description

Siderise LGS Linear Gap Seals are made from an open-cell flame retardant acoustic foam laminate with a graphite intumescent coating containing binders which ensure material flexibility.

In fire conditions, the seal maintains a close-fitting position to prevent the passage of cold smoke. At the designed temperature, the intumescent coating begins to expand on the fire side of the joint.

During this reaction, the foam gradually compresses and is replaced by the expanding mass of intumescent graphite.

The seal retains its flexibility on the non-fire side to accommodate any heat-induced movement of the structural elements. Thus the fire is prevented from penetrating rapidly into the joint.



Fire Performance

Table 1: Fire Resistance to BS 476-20:1987

Product Ref.	Max. Joint Width (mm)	Seal Width (mm)	Seal Depth (mm)	Integrity (mins)
CJ/FS120/012-012	10	12	12	E 120
CJ/FS120/029-012	20	29	12	E 120
CJ/FS120/032-020	25	32	20	E 120
CJ/FS120/053-020	35	53	20	E 120
CJ/FS120/061-035	50	61	35	E 120
CJ/FS120/085-040	65	85	40	E 120
CJ/FS120/090-050	75	90	50	E 120
CJ/FS120/126-100	100	126	100	E 120
CJ/FS120/147-125	120	147	125	E 120
CJ/FS120/170-100	150	170	100	E 120

Application Technique: Compressed into gap/joint such that the multi-layers/banding are visible.

Siderise LGS Linear Gap Seals are supplied in 1 metre lengths of various widths to suit the size of the gap required.

The standard sizes are listed in the Fire Rating table above. For void sizes other than those tabled please contact the technical team.

- Block/masonry/concrete walls and floors shall be at least 150mm thick and have at least the same fire rating as that of the Linear Gap Seal.
- Block/masonry/concrete gap faces must be within the density range of 450 to 2300kg/m³, and gap faces must be free from loose or flaking material.

Acoustic Performance

Siderise LGS has been tested to EN ISO 10140-2:2010 and achieves:

- Rw (C;Ctr) : 8 (0;-1) dB
- DnEw (C;Ctr) : 18 (0:1) dB

Environmental

Siderise LGS Linear Gap Seals environmental properties:

- Halogen-free
- Individual components may be separated mechanically; however, they are currently not recyclable.
- Please see Safety Data Sheet

Additional Information

The following information is available upon request or via download from the website:

- NBS Specification Clause
- Standard Details
- Safety Data Sheet

Technical Support

For technical advice or support please contact: technical.services@siderise.com

For Installation Training or Site Inspections please contact: site.services@siderise.com

Context

The information in this datasheet is believed to be accurate at the date of publication. Siderise has a policy of continuous product improvement and reserves the right to alter or amend the specifications of products without prior notice. Siderise does not accept responsibility for the consequences of using the products described outside of the recommendations within this datasheet. Expert advice should be sought where there is any doubt about the correct specification or installation of Siderise products.

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