



FIREPRO®

LINEAR & TRAPEZOIDAL FIRESTOP SYSTEM

Fire stopping solutions at compartment junctions

Linear and Trapezoidal Firestop products are made from dense, moisture resistant stone wool, allowing adequate compression yet retaining the necessary lateral stiffness for ease of installation.

The Linear and Trapezoidal Firestop System can be manufactured to suit a wide range of steel profile dimensions.

All Firestop products are supplied in standard lengths of 1m.

- Up to 4 hours fire resistance
- Suitable for walls ranging from 400kg/m³
- Manufactured for a wide range of profiles
- Easy installation



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APPLICATIONS

Linear and Trapezoidal Firestop Systems have been developed to provide up to 4 hours firestopping at the junctions of compartment walls and floors.

Solutions illustrated are for masonry walls with a density of at least 400 kg/m³ and include both fire integrity and insulation criteria for concrete decks, composite decks and simple profiled sheeting.

Linear Firestop 2A

- Rectangular strips (installed under min. 5% compression)
- Thicknesses: 12.5, 20, 30, 40, 50, 60, 70, 80, 90, 100mm
- Widths: 100, 150, 200, 300, 400mm
- Fire resistance: Up to 4 hours

Trapezoidal Firestop 2B

- Trapezoidal strips (tight fit required)

Available for all profiled decks. Deck profile to be named at time of order, e.g. Ribdeck 60, Alphaslok etc.

Dovetail Infill Firestop Strip

- Supplied as narrow rectangular strips for pinched installation into nominated dovetail shaped deck profiles; e.g. Holorib, Quickspan, Q51



Figure 1
Linear Firestop 2A



Figure 2
Linear Firestop 2A and 2B



Figure 3
Linear Firestop 2A and Dovetail
Infill Strip

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PERFORMANCE

Fire performance

All fire ratings apply to gaps over walls constructed of dense aggregate blocks, lightweight aggregate concrete, clay bricks or concrete blocks with a minimum density of 400Kg/m³.

Fire resistance includes integrity and insulation criteria to BS 476: Part 20: 1987

Min. wall thickness/ fire stop width	Fire resistance (integrity and insulation)
100mm	2 hours
150mm	3 hours
200mm	4 hours
Friction fitted	600 x 600mm

Note: Stated performance assumes fire resistance of supporting wall is no less than fire stop.

PRODUCT INFORMATION

Property	Description
Length	1000mm
Width	Up to 400mm
Thickness	12.5 – 100mm
Deck Profiles	Various
Density	110 Kg/m ³
Fire Resistance	Up to 4 hours

STANDARDS AND APPROVALS

Certificate

Linear and trapezoidal firestop systems are third party approved by the Loss Prevention Council Certification board (LPCB) for performance and quality and are listed in the "Red Book" - certificate no. 022b(2). Certificates can be accessed online at rockwool.com/uk or redbooklive.com

This product has been authorised for use in LUL surface and sub-surface premises when installed in accordance with this datasheet - please refer to the LUL Approved Product Register website www.LU-apr.co.uk for specific details.



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INSTALLATION

The following installation requirements must be met in order to reliably achieve the stated fire resistances.

- Linear Firestop 2A must be fitted as rectangular pieces, tightly butt jointed and compressed by at least 5% in thickness.
- Up to 3 layers may be used. Single layer firestopping will always be preferred, with multi-layer methods limited to those occasions where building tolerances demand practicality. All layers should be installed simultaneously. The height of void should not exceed the width of the Firestop.
- Gaps associated with perimeter floor slab/wall fire stopping should be achieved using ROCKWOOL SP Firestop Systems.

Handling/storage

Linear and Trapezoidal Firestop materials are light and easy to handle and should be cut using a sharp bladed knife. Store in dry conditions.

Maintenance

Once installed, Linear and Trapezoidal Firestop materials will need no maintenance unless disturbed.

Other information

For areas such as clean rooms, Firestop systems are available totally enclosed in shrink wrap.

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Figure 4
 Profiled metal deck over blockwork wall



Figure 5
 Profiled metal deck with/without concrete
 over a universal beam

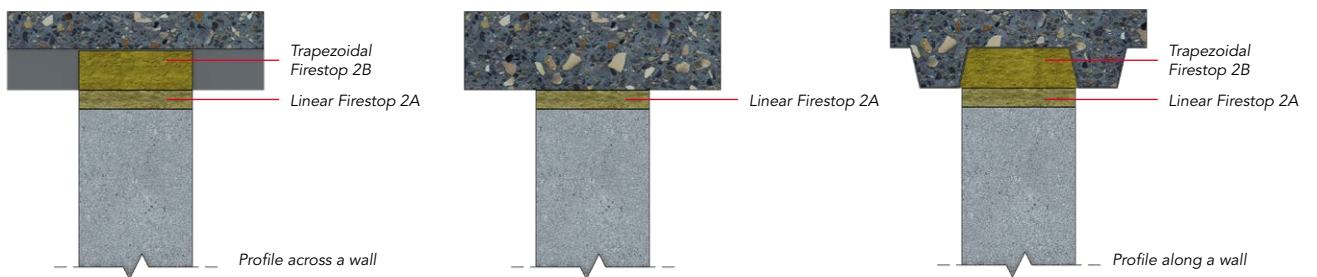


Figure 6
 With/without profiled metal deck under a
 lightweight concrete slab

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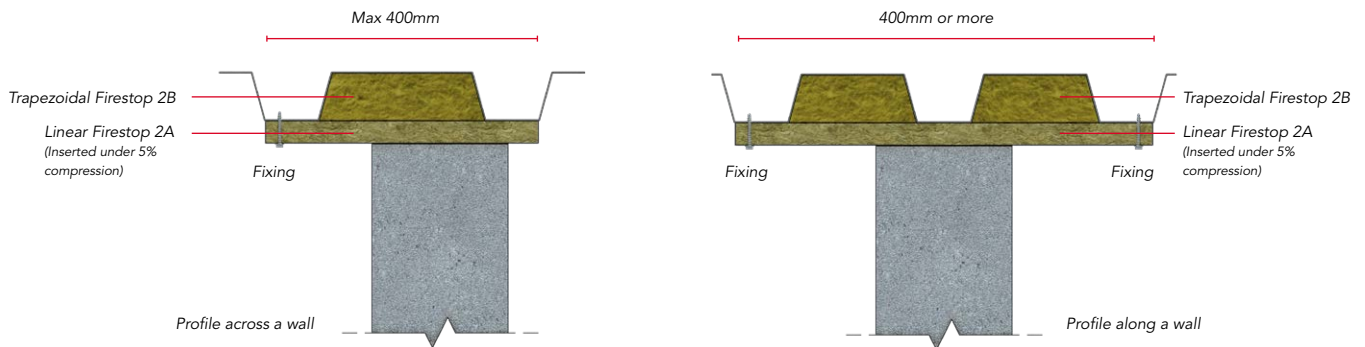


Figure 7a & 7b

Metal profiles parallel but offset from the wall line

Fig 7a: The 'overhang' of the Linear Firestop 2A should be supported with steel self-tapping screws or 'hammer fix' anchors into deck / concrete soffit at 350mm maximum centres (minimum of 3 fixings per 1m length of fire stop).

Fig 7b: Where the Linear Firestop 2A is required to be fixed to the deck at distances in excess of 400mm, turn the 1m length of fire stop 90° and cut to required size to suit profile spacing. In such cases, secure each length of fire stop to the soffit using at least 2 fixings at both ends.

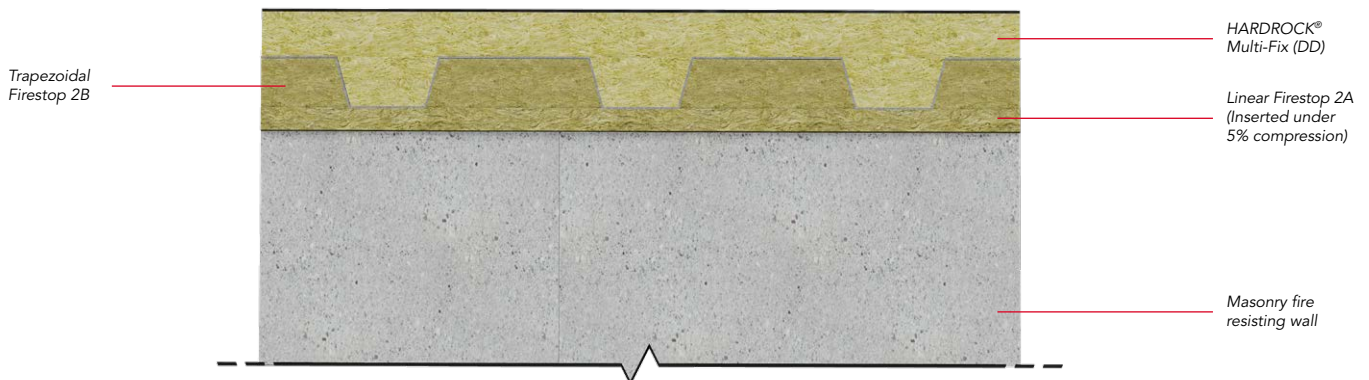


Figure 8

ROCKWOOL Insulated flat roof deck with profiles perpendicular to the wall line

When fire stopping between the head of a fire resistant wall and the underside of a perforated roof deck insulated with ROCKWOOL HARDROCK® Multi-Fix [DD] flat roof insulation, it should be considered best practice to fill both the upper and lower deck profiles with Trapezoidal Firestop 2B products. In such cases, when placing an order it should be noted that the sizes of the two profiles may differ.

In cases where combustible thermal insulation passes over the head of a fire resisting wall, guidance on maintaining fire compartmentation is provided in Approved Document B (Volume 2, Section B3) of The England and Wales Building Regulations 2000 (2006 edition). To reduce the risk of fire spreading to an adjacent compartment in such cases, it may be necessary to extend the wall through the roof line or introduce a 'protected zone' 1500mm either side of the fire resisting wall.

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DISCLAIMERS

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Information contained in this data sheet is up-to-date as at the date of issue. As ROCKWOOL Limited cannot control or anticipate the conditions under which this product may be used, each user should review the information in specific context of the planned use. To the maximum extent permitted by law, ROCKWOOL Limited will not be responsible for damages of any nature resulting from the use or reliance upon the information contained in this data sheet. No express or implied warranties are given other than those implied by law.

SUPPORTING INFORMATION

For further information relating to any aspect of the FIREPRO range, please refer to the applicable ROCKWOOL standard details at www.rockwool.com/uk or contact the ROCKWOOL technical solution team on 01656 868490 or technical.solutions@rockwool.com.

SUSTAINABILITY

As an environmentally conscious company, ROCKWOOL promotes the sustainable production and use of insulation and is committed to a continuous process of environmental improvement.

All ROCKWOOL products provide outstanding thermal protection as well as four added benefits:



HEALTH & SAFETY

The safety of ROCKWOOL stone wool is confirmed by current UK and Republic of Ireland health & safety regulations and EU directive 97/69/EC:ROCKWOOL fibres are not classified as a possible human carcinogen.

A Material Safety Data Sheet is available and can be downloaded from www.rockwool.com/uk to assist in the preparation of risk assessments, as required by the Control of Substances Hazardous to Health Regulations (COSHH).

ENVIRONMENT

Made from a renewable and plentiful naturally occurring resource, ROCKWOOL insulation saves fuel costs and energy in use and relies on trapped air for its thermal properties.

ROCKWOOL insulation does not contain (and has never contained) gases that have ozone depletion potential (ODP) or global warming potential (GWP).

ROCKWOOL is approximately 97% recyclable. For waste ROCKWOOL material that may be generated during installation or at end of life, we are happy to discuss the individual requirements of contractors and users considering returning these materials to our factory for recycling.