

Product:	Lapinus[®] Rockwool	P.D.S 33
Type:	FIRE PROTECTION	
Name:	FIRE STOP DAMPER STRIP	Page 1 of 4

Description

Fire Damper Fire Stop has been developed to provide up to 4 hours fire-resistance to penetrations and small voids that may be created in a fire-rated wall. Primarily it is used to maintain the fire-rating of the wall when a fire-damper is installed. Fire Stop is compressed between the fire damper and the opening in the wall that housed the fire-damper. It is a highly robust mineral wool that remains dimensionally stable at extremely high temperatures.

Thickness (mm)	Dimension (mm)	Pieces per Pack	m2/Pack
13	1000 x 225	60	13.5

Product Performance and Properties

Density: >115 kg/m³ being delivered density (nominal) according to ASTM C - 612 - 93

Fusion Temperature: > 1120°C - Melting point to flow of Lapinus Rockwool fibre.

Thermal Conductivity (typical data): Tested in accordance with DIN 52612

Mean Temp °C	50	100	150	200	250	300
K value W/m. K	0.038	0.043	0.049	0.058	0.067	0.078

Note: The above are declared thermal conductivity performances and are based on the mean value of many Lapinus laboratory and independent testing authority test results.

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Fire Resistance: When installed in accordance with the installation instructions Fire Damper fire Stop will achieve the following fire-resistance performance

Wall Width (mm)	Fire Resistance (hrs)
100	2
150	3
200	4

Fire: Lapinus Rockwool Fire Damper Fire Stop is non-combustible when tested according to international standards e.g. ASTM E-136-82, DIN 4102, BS476 Pt4-1970, ISO 1182 and IMO A 799 (19).

**Corrosion Resistance:
Chemical Neutrality:** Lapinus Rockwool base mineral wool is chemically neutral and will neither cause nor promote corrosion.

**Corrosion Resistance:
Water Leachable Chlorides:** Lapinus Rockwool base mineral wool has a very low content of water leachable chloride, approximately 6 ppm, so it can be safely used on austenitic stainless steel. Meets the requirements for use over stainless steel in accordance with ASTM C795 and of "AS-Quality" of AGI Q135.

Moisture Resistance Vapour Diffusion: Water vapour diffusion resistance factor of $\mu = 1.3$. This low value means that water can pass through and cool without condensing.

**Moisture Resistance:
Absorption from the air:** Lapinus Rockwool absorbs very little water from the air. Tests show at relative humidity of 90% for 30 days the hygroscopic water content is around .004 volume per cent. The water vapour absorption (vapor sorption) in accordance with ASTM C110 4/C 110 M is $\pm 0.02\%$ (vol).

Specific Heat: Lapinus Rockwool specific heat factor is 0.84 kJ/kg per degree centigrade.

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Calorific Value: Lapinus Rockwool has a low organic matter content giving a low calorific value of around 600 kJ/kg.

Biological Properties: Lapinus Rockwool contains no nutrients and therefore provides no basis for growth of fungi, moulds or bacteria, nor does it attract insects, rodents or vermin.

Durability: Lapinus Rockwool mineral wool has been proven in services for over 50 years in all types of exposure and as such will give effective protection for the lifetime of the equipment they insulate.

Compatibility: Lapinus Rockwool mineral wool is compatible with all materials which it is likely to come into contact in normal industrial and building applications.

Environment: Lapinus Rockwool mineral wool presents a very effective ecological profile in all elements of manufacture, recycling use, service life and energy efficiency of material. No CFC's or HCFC's are used in its manufacture.

Installation Instructions:

1. Fire Damper Fire Stop must be fitted as rectangular piece, accurately butt jointed and compressed by at least 5% vertically in thickness.
2. Fire Damper Fire Stop must be fitted to give a tight and accurate fit, closely following the profile of the gap.
3. Appraisal documents permit 1 or 2 layers to be used. Single layer fire stopping will always be preferred, with double layer methods limited to those occasions where building tolerances demand practicality. If used, 2 layers should be installed simultaneously.
4. Vertical expansion gaps must be fire-stopped provided the compression levels are observed in due regard to expansion movement.
5. Installers may find simple smooth 'slip-plates' of benefit in installing Fire Stop materials over rough surfaces.

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Health & Safety

Fire Damper Fire Stop is NOT CLASSIFIED as HAZARDOUS according to NOHSC criteria as a consequence of the following events and conclusions about the health effects of long term occupation exposure to mineral wool insulation products.

- Over 50 years of extensive health research on Rockwool products in Europe has resulted in the scientific conclusion that there are no long term health problems from using Rockwool.
- In March 1995 the UK Health and Safety Executive concluded that Rockwool should not be classified as a potential carcinogen.
- Under note Q of the National Occupational health and Safety Commission (NOHSC) publication “List of Designated Hazardous Substances” (NOHSC; 1005-1999) the classification of NON-CARCINOGENIC is to apply.
- Under the European Union Criteria set out in 67/548/EEC a classification of CARC, Cat O applies, ie; “Not classifiable for carcinogenicity.”
- Under World Health Organisation (WHO) and its Monographs Programme of the International Agency for Research on Cancer (IARC) it has been concluded that, “Rock (stone) wool are now considered not classifiable as to carcinogenicity to humans (Group 3),

It is recommended that for the handling and installation of Lapinus Rockwool that the internationally recognized Material Safety Data Sheet be followed;

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