



Product:	Roxul[®] Stonewool	P.D.S 39
Type:	FIRE PROTECTION	
Name:	PARTY WALL FIRE STOP 1100	Page 1 of 4

Description

Party Wall Fire Stop 1100 has been developed to provide up to 4 hours fire-resistance at the junctions between the top of party walls and roof structures, and to the diverse junctions of compartment walls and floors. It is a highly robust mineral wool that remains dimensionally stable at extremely high temperatures.

Thickness (mm)	Dimension (mm)	Pieces per Pack	Pack Contents (m ²)
100	1200 x 168	10	2.016

Product Performance and Properties

Fusion Temperature: > 1120°C - Melting point to flow of Roxul[®] Stonewool 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	0.044	0.052	0.062	0.074	0.088

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

Fire Resistance: Fire resistance performance was tested by CSIRO in accordance with A.S. 1530 Part 4 (Fire resistance tests of elements of building construction), and A.S. 4072-1992 (Components for the protection of openings in fire separating elements – Service penetrations and control joints. As a result of this testing a 200mm thick specimen of Roxul Party Wall Fire Stop achieved:

INTEGRITY 4 HOURS
INSULATION 4 HOURS

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Fire: Roxul[®] Stonewool Party Wall 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:** Roxul[®] Stonewool base mineral wool is chemically neutral and will neither cause nor promote corrosion.

**Corrosion Resistance:
Water Leachable Chlorides:** Roxul[®] Stonewool 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:** Roxul[®] Stonewool 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: Roxul[®] Stonewool specific heat factor is 0.84 kJ/kg per degree centigrade.

Calorific Value: Roxul[®] Stonewool has a low organic matter content giving a low caloric value of around 600 kJ/kg.

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Biological Properties: Roxul[®] Stonewool contains no nutrients and therefore provides no basis for growth of fungi, moulds or bacteria, nor does it attract insects, rodents or vermin.

Durability: Roxul[®] Stonewool 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: Roxul[®] Stonewool mineral wool is compatible with all materials which it is likely to come into contact in normal industrial and building applications.

Environment: Roxul[®] Stonewool 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. Party Wall Fire Stop must be fitted as a rectangular piece, accurately butt jointed and compressed by at least 5% vertically in thickness.
 2. Party Wall 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. However, double layer methods are acceptable where there is no other practical alternative. If used, 2 layers should be installed simultaneously.
 4. Expansion gaps can be fire-stopped with Fire Stop Fire Damper Strip materials. The compression levels should be observed in due regard to expansion movement.
 5. Installers may find simple smooth 'slip-plates' of benefit in installing Party Wall Fire Stop materials over rough surfaces.

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Health & Safety

Party Wall Fire Stop 1100 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 Stonewool products in Europe has resulted in the scientific conclusion that there are no long term health problems from using Stonewool.
- In March 1995 the UK Health and Safety Executive concluded that Stonewool 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, Stonewools are now considered not classifiable as to carcinogenicity to humans (Group 3),

It recommended that for the handling and installation of Roxul[®] Stonewool the internationally recognized Material Safety Data Sheet be followed; These are readily available from Australasian Insulation Supplies Pty Ltd.

For further information and technical advice on insulation contact:



AUSTRALASIAN INSULATION SUPPLIES PTY LTD

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