

Product:	ROCKWOOL™ stone wool	P.D.S 39
Type:	FIRE PROTECTION	
Name:	PARTY WALL FIRE STOP	Page 1 of 4

Description

Party Wall Fire Stop 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	Installed length – for a single layer (m)	Installed area – after compression (m ²)
100	1200 x 150	10	12.0	1.08

Product Performance and Properties

Fusion Temperature: > 1120°C - Melting point to flow of ROCKWOOL stone wool 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 ROCKWOOL laboratory and independent testing authority test results.

Fire Resistance: Fire resistance performance was tested by CSIRO in accordance with AS 1530 Part 4 (Fire resistance tests of elements of building construction), and AS 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 Common Wall Fire Stop achieved:

INTEGRITY 4 HOURS
INSULATION 4 HOURS

	PRODUCT DATA SHEET	REVISION 7 (07 Mar 2018)
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Fire: 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 IMO A 799 (19) and AS 1530.1.

**Corrosion Resistance:
Chemical Neutrality:** Stone wool is chemically neutral and will neither cause nor promote corrosion.

**Corrosion Resistance:
Water Leachable Chlorides:** Stone 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:** Stone wool 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 (vapour sorption) in accordance with ASTM C110 4/C 110 M is $\pm 0.02\%$ (vol).

Specific Heat: Stone wool specific heat factor is 0.84 kJ/kg per degree centigrade.

Calorific Value: Stone wool has a low organic matter content giving a low caloric value of around 600 kJ/kg.

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Biological Properties:

Stone wool contains no nutrients and therefore provides no basis for growth of fungi, moulds or bacteria, nor does it attract insects, rodents or vermin.

Durability:

Stone 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:

Stone wool is compatible with all materials which it is likely to come into contact in normal industrial and building applications.

Environment:

Stone 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.

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Health & Safety

Party Wall 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 rock(stone)wool products in Europe has resulted in the scientific conclusion that there are no long term health problems from using rock(stone)wool.
- In March 1995 the UK Health and Safety Executive concluded that rock(stone)wool should not be classified as a potential carcinogen.
- 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 recommended that for the handling and installation of rock(stone)wool the internationally recognized Safety Data Sheet be followed. These are readily available from Australasian Insulation Supplies Pty Ltd.

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