



## Conlit for Passive Fire Protection Systems

# General Product Information

ROCKWOOL stone wool products are made of basalt, a volcanic stone.

ROCKWOOL stone wool products are non-combustible with a melting point of approximately 1000°C. They are particularly suitable for thermal insulation, fire protection and sound reduction/absorption.

ROCKWOOL stone wool is inorganic and contains no

nutritious substance. Therefore it will not be attacked by microorganisms. Stone wool will not rot and does not attract vermin.

No CFCs, HFCs, HCFCs or asbestos are used in the manufacture of ROCKWOOL stone wool products.

# Conlit C and Conlit H



Fire demonstration showing Conlit products withstanding temperature above 1000°C



Conlit products used in fire door application

Conlit products are used as part of the component in passive fire protection systems such as fire rated partitions, fire rated ceilings, fire doors, penetration seal systems and fire rated ducts. They are made up of specially formulated stone wool with specific chemical composition produced by ROCKWOOL.

The insulation properties of Conlit provides the key benefits to passive fire protection systems to achieve the desired fire insulation criteria in fire test standards whilst fulfilling the overall system fire rating to meet local building fire regulation.

Conlit C series is commonly used by passive fire protection system owners as part of the insulation component in their systems to meet the fire insulation criteria. Its insulation performance is optimized with the overall system still intact or maintaining its fire integrity during occurrence of fire. Conlit C products are also suitable to be used in combination with other firestop coating systems to provide a fire rated solution for penetration seals application.

Conlit H series is designated to be used by passive fire protection system owners as a fire barrier to withstand fire exposure for a longer period during fire should the other

components in the systems give way or fail. This is crucial particularly when the system is on the edge of passing the fire test. The additional iron contents in Conlit H series makes the product slightly grayish in color, ensuring the stability of the fiber structures and provide a rigid surface when exposed directly to heat during a fire. The past research and development of fire test results of similar product type has shown the ability of the bare product to achieve the fire integrity and insulation criteria of up to two hours with a recorded unexposed surface temperature of less than 180°C when tested in accordance to BS476 Part 20 standards.

## Handling and Installation

ROCKWOOL products are lightweight and easy to handle. To cut the product, it only requires a sharp knife with serrated edge or a hand saw, measuring tape and steel ruler. Installation method for the product is dependent on the type of application it is being used. The product is normally tight-fitted into cavities or openings without the need to use mechanical fixings and adhesive. However, if required in some instances, insulation pins are used to hold the product onto other construction element surface.

■ Distribution by

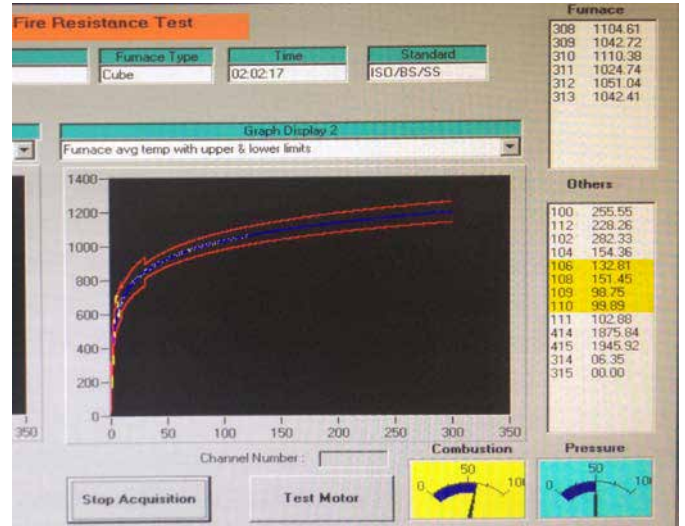
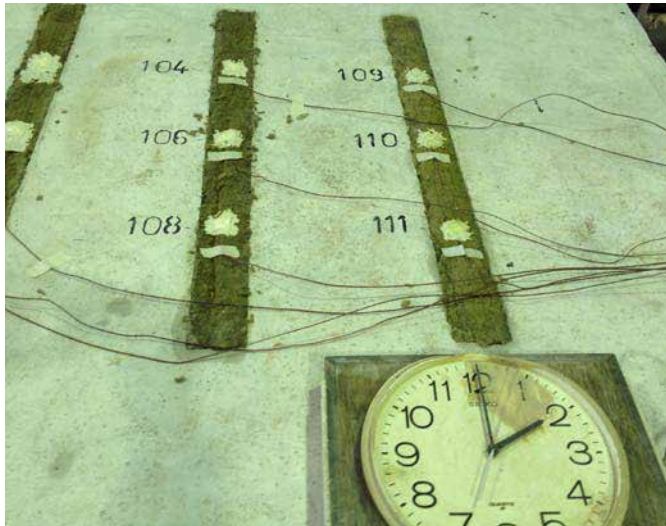


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Unexposed surface temperature of Conlit H is less than 180°C when subjected to fire resistance test

### Technical Parameters

Conlit C Series	C80	C100	C120	C140	C160	Standards
<b>Dimensions:</b>						
Thickness	25, 50, 75, 100mm					EN823
Length and Width	1200mm x 600mm					EN822
Thermal Conductivity at 20°C (W/mK)	0.034	0.034	0.035	0.037	0.037	ASTM C177/C518
Fire Performance	Class A1					EN13501-1
Melting point	= > 1000°C					ASTM E794
Water vapor absorption	Absorb <0.04%Vol					ASTM C1104/C1104M
Water absorption (partial immersion)	Less than 0.5kg/m³					EN1609:97
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Conlit H Series	H110					Standards
<b>Dimensions:</b>						
Thickness	25, 50, 75, 100mm					EN823
Length and Width	1200mm x 600mm					EN822
Thermal Conductivity at 20°C (W/mK)	0.036					ASTM C177/C518
Fire Performance	Non-combustible					BS476 Part 4
Melting point	= > 1000°C					ASTM E794
Max service temperature	Up to 850°C incapable of corroding steel					ASTM C411/C447
Water vapor absorption	Absorb <0.04%Vol					ASTM C1104/C1104M
Water absorption (partial immersion)	Less than 0.5kg/m³					EN1609:97

Note: The additional iron contents in Conlit H series make the product slightly grayish in colour.

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