

# FIREPRO CENTABUILD INSULATION

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CI/SfB

DOC2520 DATASHEET - AUG08

Product specifications  
can change. Contact  
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our latest datasheet

## FIREPRO DOC2520 DUCT WRAP INSULATION

### DESCRIPTION

Firepro DOC2520 Duct Wrap Insulation is composed of a flexible and resilient glass fibre blanket bonded together with thermosetting resin which is laminated to fire retardant aluminium foil scrim kraft (FSK) facing.

### SIZES AVAILABLE

20Kg/M<sup>3</sup> 1200mm wide x 25mm thick  
20M Roll

### APPLICATION

Firepro DOC2520 Duct Wrap Insulation is suitable for use to insulate metal ducting and plenum in a commercial and residential heating and air-conditioning systems to control moisture condensation and for energy saving. It is used on the outside of the duct. For insulation inside the duct see our data sheet for Thermasound II BFC faced board.

### FIRE TESTING

See AS1530:3 test on reverse of this datasheet.



### PHYSICAL PROPERTIES

Maximum service temperature	120°C
Thermal conductivity at mean temp.	0.036 W/m.K
Vapour Permeability	0.02 PERMS
Moisture Absorption	3% @ 40°C 90%RH
Fire Hazard Testing to AS1530:3 1999)	(Tested
Ignitability	0
Spread of Flame	0
Heat Evolved	0

*NOTE: The technical information and suggestions for use and application presented herein represent the best information available to us and are believed to be reliable. They should not however be construed as controlling suggestions and there is no warranty of performance of our materials either expressed or implied. We urge that users of our materials conduct confirmatory tests to determine final suitability for their specific end uses. All dimensions are nominal. We reserve the right to make changes or to withdraw designs and products without notice.*

# APL Applied Physics Laboratory

ACCREDITED LABORATORY NUMBER 206

International Accreditation New Zealand

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All tests reported herein have been performed in accordance with the Laboratory's scope of accreditation

## TEST REPORT

Reference Number 05114

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### EARLY FIRE HAZARD PROPERTIES OF

### FIREPRO DOC-2520 ALUMINIUM FOIL FACED DUCTWRAP INSULATION

#### MATERIAL

FIREPRO DOC-2520 ALUMINIUM FOIL FACED DUCTWRAP INSULATION being a resin bound glasswool substrate material having a nominal density of 20 kilograms per cubic metre, with an aluminium foil layer factory laminated to the face, is marketed by Firepro Centabuild Ltd, 8 Botha Road, P O Box 12636, Penrose, Auckland, NEW ZEALAND.

The material was supplied by the client Firepro Centabuild Ltd as sufficient material for testing. The thickness tested was 25 millimetres and the aluminium foil face was exposed during the tests.

#### TEST METHOD

Australian Standard 1530, Methods for fire tests on building materials, components and structures. AS 1530 Part 3, 1999, "Simultaneous determination of ignitability, flame propagation, heat release and smoke release."

The material was assigned the Laboratory Number 9054 and the tests were conducted on 29 September 2005.

The specimens were fixed to the support frames using a perimeter clamping ring.

#### RESULTS

The following results were obtained on six specimens tested.

Mean ignition time (seconds): 0

Mean flame propagation time (seconds): 0

Mean heat release integral (kJ/m<sup>2</sup>): 0

Mean smoke release (Density/m): 0.006909

Mean smoke release (log<sub>10</sub> D): -2.16058

Standard error (log<sub>10</sub>D): 0.05909



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All tests reported herein have been performed in accordance with the Laboratory's scope of accreditation International Accreditation New Zealand (IANZ) has a mutual recognition agreement with the National Association of Testing Authorities, Australia (NATA) such that both organisations recognise accreditations by IANZ and NATA as equivalent. Users of test certificates are recommended to accept test certificates endorsed in the name of either accrediting body.



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### EARLY FIRE HAZARD PROPERTIES OF

### FIREPRO DOC-2520 ALUMINIUM FOIL FACED DUCTWRAP INSULATION

From the results the following indices were determined:

IGNITABILITY INDEX (Range 0 - 20) 0

SPREAD OF FLAME INDEX (Range 0 - 10) 0

HEAT EVOLVED INDEX (Range 0 - 10) 0

SMOKE DEVELOPED INDEX (Range 0 - 10) 0

#### Statement from the Standard.

The results of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

#### Statement from the Laboratory.

This statement appears on all of the Laboratory's test reports.

The Laboratory's experience is that the results of this fire test can be significantly modified by the detail of the specimens presented for testing.

The nature of substrate materials for example (where present) can significantly modify the test results.

The results reported apply to the material as described herein, and users of this test report are recommended to take particular note of the material description on page 1.

E. R. Weaver

30 September 2005



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