

**WFRA Test Report No.**

WFRA 499199

**Test Sponsor**

Third Ecology Pty Ltd  
82a Hope Street  
Geelong West  
Victoria 3218

**AS/NZS 1530.3-1999: Test On Sealection 500 Insulation Material****Objective**

To determine the performance of the material samples as described in this report when subjected to the test conditions stated in the test standard referenced below

**Product**

Sealection 500  
A semi-rigid spray applied  
polyurethane foam

**Test Reference**

WFRA 499199

**Date of Test**

31 May 2005

**Test Method**

AS/NZS 1530.3:1999  
Part 3: Simultaneous determination of  
ignitability, flame propagation, heat  
release and smoke release

**Supplementary Standards**

Nil

**Product Description**

The specimens tested consisted of 600mm by 450mm by 80.0 mm thick sections of Sealection 500, a two component open cell spray-applied semi-rigid polyurethane foam insulation material having a nominal density of 7.6 kg/m<sup>3</sup>. These Sealection 500 material test specimens were cream in colour and were supplied to WFRA for testing by the sponsor of the test. WFRA personnel were not involved with the selection of these test specimens. A total of nine specimens were tested and these specimens were conditioned to a constant mass, at a temperature of 20 deg C and a relative humidity of 65%, immediately prior to conducting these tests

**TESTING AUTHORITY****Address**

Warrington Fire Research (Aust) Pty Ltd  
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**Authorisation**

Prepared By:

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Reviewed By:

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**Test Results – WFRA 499199**

	Mean		Standard Error
Ignition Time	2.46	minutes	0.25
Flame Propagation Time	Nil	seconds	Nil
Heat Release Integral	37.0	kJ/m <sup>2</sup>	1.4
Smoke Release, log d	-0.1659		0.0637
For 4 specimens that ignited			
Smoke Release, log d	-0.5879		0.0733
For 5 specimens that did not ignite			
Optical Density, d	0.7042	per metre	
	Number of specimens ignited	Four	
	Number of specimens tested	Nine	

**Regulatory Indices**

Ignitability Index	18	Range 0 to 20
Spread of Flame Index	0	Range 0 to 10
Heat Evolved Index	1	Range 0 to 10
Smoke Developed Index	7	Range 0 to 10

**Comments**

Each specimen had an unattached backing of 4.5mm thick fibre reinforced cement board. Each specimen was restrained on the exposed face by a layer of welded wire square mesh (12mmx12mmx0.8) and the assembly clamped along all sides. These results only apply to the specimens mounted as described in this report. Ignition is initiated by a pilot flame that is held near, but does not touch the specimen. A material that does not ignite during the standard test may ignite if contacted with a pilot flame during the test.

**Conditions/Validity**

This product has been tested in accordance with AS/NZS 1530.3-1999 and this report should be read in conjunction with that standard.

This test report does not provide an endorsement by Warrington Fire Research (Aust) Pty Ltd of the performance of the actual products supplied. The tests were performed at AWTA laboratories under the technical control of Warrington Fire Research (Aust) Pty. Ltd.

The results of these tests 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.

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