

PROFESSIONAL FIRE SAFETY TESTING

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**Australian Standard 1530 Methods
for fire tests on building materials,
components and structures, Part 3:
Simultaneous Determination of
Ignitability, Flame Propagation,
Heat Release and Smoke Release**

TUFFLON-P90FR

**PRODUCT EVALUATION
AND TESTING**

IGNL-3092-00-03-01 I01 R01

Tested: 24.07.2019

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DOCUMENT REVISION HISTORY

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01	01	25.09.2019	Revised figure detail	BHB	FW

SPONSOR

Liquimix

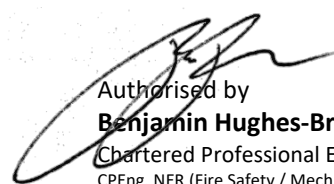
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1 TEST SUMMARY

SPONSOR:	Liquimix		
ADDRESS:	24 Rosa Place, Richlands QLD 4077, Australia		
SAMPLE IDENTIFICATION:	Plastic laminate board		
TRADE NAME:	TUFFLON-P90FR		
DESCRIPTION OF MATERIAL:	The sponsor described the tested specimen as polyurea coating material and the end-use being water proofing membrane with the following characteristics:		
	Nominal thickness:	2-3 mm	
	Nominal mass-per-unit area:		
	Colour:	Cream	
METHOD OF MOUNTING:	Each test specimen was clamped in four places. A woven metal radiant panel was used in lieu of ceramic tiles. [deviation of the standard Clause 4.3]		
OBSERVATIONS:	Six specimens were tested, as required by Clause 2.8 of AS/NZS 1530.3:1999. The six specimens presented equivalent results. Very minimal smoke was emitted with darkening of the panel occurring in the centre area.		
	Face tested	External Face	
	Date tested	24.07.2019	
TEST RESULTS:		Standard Error	mean
	Ignition time	0.23	7.12 min
	Flame propagation time	4.05	68.60 sec
	Heat Release integral	7.25	145.62 kJ/m²
	Smoke release, log d	0.05	0.05
	Optical density, d	0.15	1.17 /metre
	Number of specimens ignited	6	
	Number of specimens tested	6	
	Regulatory Indices		
	Ignitability Index	13	Range 0-20
	Spread of Flame Index	6	Range 0-10
	Heat Evolved Index	5	Range 0-10
	Smoke Developed Index	8	Range 0-10
Supplementary Observations:	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 piloted flame during the test.		

2 TEST PHOTOS

FIGURE 1:

SPECIMEN 1 BEFORE, DURING AND AFTER THE TEST



FIGURE 2:

SPECIMEN 2 BEFORE, DURING AND AFTER THE TEST



FIGURE 3:

SPECIMEN 3 BEFORE, DURING AND AFTER THE TEST



FIGURE 4:

SPECIMENT 4 BEFORE, DURING AND AFTER THE TEST



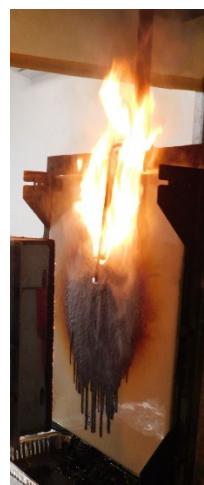
FIGURE 5:

SPECIMENT 5 BEFORE, DURING AND AFTER THE TEST



FIGURE 6:

SPECIMENT 6 BEFORE, DURING AND AFTER THE TEST



3 APPLICATION OF TEST RESULTS

3.1 TEST LIMITATIONS

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. The results only relate to the behaviour of the specimen of the element of the construction under the particular conditions of the test, they are not intended to be the sole criteria for assessing the potential fire performance of the element in use nor do they necessarily reflect the actual behaviour in fires.

3.2 VARIATIONS FROM THE TESTED SPECIMEN

This report details the methods of construction, test conditions and the results obtained when the specific element of construction described herein was tested following the procedure

3.3 UNCERTAINTY OF MEASUREMENT

Because of the nature of fire hazard property testing and the consequent difficulty in quantifying the uncertainty of measurement of fire hazard properties, it is not possible to provide a stated degree of accuracy of the result.

--- END OF REPORT ---

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Ignis Labs Pty Ltd

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