

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
A.B.N. 43 006 014 106
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O. Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

CLIENT : CSR LTD RESEARCH AND DEV
TRINTI 3 39 DELHI ROAD
NORTH RYDE NSW 2113

TEST NUMBER : 7-596289-CN
ISSUE DATE : 06/03/2014
PRINT DATE : 06/03/2014

SAMPLE DESCRIPTION Clients Ref: "AFS Rediwall Canadian"

Plastic surface set on concrete
Nominal Composition: AFS Rediwall Canadian PVC on
32MPa concrete Nominal mass: 73.5kg/m²
Mass of specimen: 0.72kg (0.04kg PVC, 0.68kg concrete)
Producer: Nuform Canada
End use: Permanent formwork used in basements and
internal walls in residential apartments

AS/NZS 3837:1998 Method of Test for Heat and Smoke Release Rates
for Materials and Products Using an Oxygen
Consumption Calorimeter

Results:-

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	30.0	37.3	36.6	34.6	kW/m ²
Average Specific extinction area	184.9	199.4	164.0	182.8	m ² /kg
(according to Specification C1.10 of the Building Code of Australia)					

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This Laboratory is accredited by the National Association of Testing Authorities, Australia, for:
-Chemical Testing of Textiles & Related Products : Accreditation No. 983
-Mechanical Testing of Textiles & Related Products : Accreditation No. 985
-Heat & Temperature Measurement : Accreditation No. 1356

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APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

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Test orientation: Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m2
Exhaust flow rate	24	24	24	24	l/s
Time to sustained flaming	52	45	51	49	s
Test duration	339	404	426	390	s

Heat release rate curve on the 9 attached sheets which form part of this report

Peak heat release after ignition	46.3	55.2	49.5	50.4	kW/m2
Average heat at 60s	41.9	44.3	42.7	43.0	kW/m2
Release rate at 180s	40.3	46.9	45.6	44.3	kW/m2
After ignition at 300s	30.2	40.3	40.6	37.0	kW/m2
Total heat released	8.6	13.9	14.5	12.3	MJ/m2
Average effective heat of combustion	6.5	7.4	7.5	7.2	MJ/kg
Initial thickness	38.0	38.0	38.0	38.0	mm
Initial mass	743.3	769.5	768.6	760.5	g
Mass remaining	731.6	754.3	752.5	746.1	g
Mass percentage pyrolysed	1.6	2.0	2.1	1.9	%
Mass loss	11.7	15.2	16.1	14.3	g
Average rate of mass loss	4.6	5.0	4.9	4.8	g/m2.s

The formulae given in the Building Code of Australia have been shown to give inaccuracies in determination of Group Number for certain materials. Due to this AWTA Product Testing no longer reports Group Numbers. The formulae for calculation of Group Number is available from the website of the Australian Building Codes Board. Group Number calculation based on the results described in this report can be undertaken at the clients discretion

Tests were conducted with a wire grid placed over the sample during testing This was done to contain intumescent sample within the sample holder

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for the assessment of performance under real fire conditions

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(END OF REPORT)

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MANAGING DIRECTOR