

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 : CARTER HOLT HARVEY
LEVEL 6, TOWER A ZENITH CENTRE
821 PACIFIC HIGHWAY
CHATSWOOD NSW 2067

TEST NUMBER : 7-554725-CN
DATE : 04/09/2007

SAMPLE DESCRIPTION Clients Ref: "Shadowclad - Texture"
Timber Panels
Colour: Natural
Approximate thickness: 12mm
Approximate mass: 6120g/m²

**THESE RESULTS MUST BE CONSIDERED IN CONJUNCTION
WITH THE COMMENTS ON THE FOLLOWING PAGE(S)**

Material Specification provided by client:

Nominal composition: 5 ply sheets of radiata pine rough sawn "B" grade
face timber treated with LOSP preservative H3 clear

AS/NZS 1530.3 - 1999 Simultaneous determination of Ignitability, Flame
Propagation, Heat Release and Smoke Release

RESULTS:

Face tested: Face

Date tested: 04/09/2007

	Mean		Standard Error
Ignition time	5.24	min	0.16
Flame propagation time	32.8	s	2.4
Heat release integral	184.4	kJ/m ²	4.4
Smoke release, log d	-1.5414		0.0899
Optical density, d	0.0315	/m	

Number of specimens ignited: 6

Number of specimens tested: 6

REGULATORY INDICES:	Ignitability Index	15	Range 0-20
	Spread of Flame Index	8	Range 0-10
	Heat Evolved Index	7	Range 0-10
	Smoke Developed Index	2	Range 0-10

162634

1

(CONTINUED NEXT PAGE)

PAGE 1

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- 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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0204/11/06

APPROVED SIGNATORY

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

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TEST NUMBER : 7-554725-CN
DATE : 04/09/2007

Comments:

These results only apply to the specimen mounted, as described in this report.

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

Each test specimen was clamped in four places.

162634

PAGE 2

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TEST REPORT

CLIENT : CARTER HOLT HARVEY
LEVEL 6, TOWER A ZENITH CENTRE
821 PACIFIC HIGHWAY
CHATSWOOD NSW 2067

TEST NUMBER : 7-554558-CN
DATE : 24/08/2007

SAMPLE DESCRIPTION Clients ref: "Shadowclad Texture"
Timber panels Colour - Natural Nom comp: 5 ply sheets
of radiata pine rough sawn "B" grade face, timber treated
with LOSP preservative H3 clear
Nominal thickness: 12mm

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

Results:-

	1	Specimen 2	3	Mean	
Average Heat Release Rate	81.8	81.2	78.5	80.5	kW/m2
Average Specific extinction area (according to Specification C1.10 of the Building Code of Australia)	95.5	70.8	65.8	77.3	m2/kg

BCA Classification:-
Group Classification 3 3 3
(according to Specification A2.4 of the Building Code of Australia)

162640

1

(CONTINUED NEXT PAGE)

PAGE 1

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DATE : 24/08/2007

Test orientation: Horizontal

	Specimen			Mean	
	1	2	3	50	
Irradiance	50	50	50	50	kW/m2
Exhaust flow rate	24	24	24	24	l/s
Time to sustained flaming	20	15	17	17	s
Test duration	1360	1425	1415	1400	s

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

Peak heat release after ignition	309.6	339.0	313.1	320.6	kW/m2
Average heat at 60s	164.5	159.6	166.9	163.7	kW/m2
Release rate at 180s	139.6	133.5	140.0	137.7	kW/m2
After ignition at 300s	152.1	146.3	148.3	148.9	kW/m2
Total heat released	109.7	114.6	109.6	111.3	MJ/m2
Average effective heat of combustion	17.5	17.5	17.4	17.5	MJ/kg

Initial thickness	12.0	12.0	12.0	12.0	mm
Initial mass	60.2	62.0	60.4	60.9	g
Mass remaining	4.3	4.0	4.5	4.3	g
Mass percentage pyrolysed	92.9	93.5	92.5	93.0	%
Mass loss	55.9	58.0	55.9	56.6	g
Average rate of mass loss	4.7	4.6	4.5	4.6	g/m2.s

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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PAGE 2

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