

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 : Consolidated Veneers
PO Box 7053
Wetherill Park DC NSW 1851

Test Number : 14-001754
Issue Date : 19/12/2014
Print Date : 19/12/2014

Sample Description Clients Ref : "CLEAF 18mm HMR Melamine faced particleboard"
Rigid panel laminated on both faces
Colour : Brown
End Use : Internal wall linings, kitchen cabinetry, commercial furniture
Nominal Composition : Melamine/particleboard
Nominal Mass per Unit Area/Density : Approx. 13kg/m²
Nominal Thickness : 18mm

AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	66.4	65.6	61.2	64.4	kW/m ²
Average Specific extinction area	12.2	4.3	7.6	8.0	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen				
	1	2	3	Mean	
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	24	24	24	24	L/sec
Time to sustained flaming	58	51	61	57	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	172.7	179.1	169.2	173.7	kW/m ²
Average heat at 60 s	107.0	82.8	97.9	95.9	kW/m ²
Average heat at 180 s	144.7	136.2	142.1	141.0	kW/m ²
Average heat at 300 s	149.7	145.8	146.6	147.4	kW/m ²
Total heat released	235.6	232.5	216.3	228.1	MJ/m ²
Average effective heat of combustion	17.3	16.8	15.6	16.6	MJ/kg

6,336

1,989

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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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Initial thickness	18.0	18.0	18.0	18.0	mm
Initial mass	129.4	131.9	131.4	130.9	g
Mass remaining	17.7	19.1	17.4	18.0	g
Mass percentage pyrolysed	86.4	85.5	86.8	86.2	%
Mass loss	111.7	112.8	114.0	112.9	g
Average rate of mass loss	3.8	3.9	3.9	3.9	g/m ² .s

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescing 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 assessment of performance under real fire conditions.

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. The results reported herein shall not be used to derive a Group Number in accordance with the NCC without undertaking validation of the performance that is predicted.

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Classification of Fire Performance of Wall and Ceiling Lining Materials

Using the Method of Kokkala, Thomas and Karlsson

Reference: Kokkala, M.A. Thomas, P.H. and Karlsson, B. Rate of Heat Release and Ignitability Indices for Surface Linings. Fire and Materials Vol 17, 209-216 (1993)

Instructions: User input areas are those shaded in light-blue. Before entering or pasting new data into the two columns, it is best to clear any existing data by clicking on the 'Clear Data' button. If necessary, formatting of the cells can be restored by clicking on the 'Formatting' button. **Copy data from column U (time) of the csv file and paste into the time column. Copy data from column I (HRR) of the csv file and paste into the Rate of Heat Release column.**

Material Identification/Description:

14-001754-A spec1 CLEAF 18mm HMR Particleboard

Clear Data

Formatting

INPUT DATA BELOW	
Data from AS/NZS 3837:1998	
Test Heat Flux = 50 kW/m ²	
Time (sec)	Rate of Heat Release (kW/m ²)
0	1.2584
5	0
10	1.7505
15	4.6751
20	2.94669
25	1.85337
30	2.37633
35	1.00333
40	0.45097
45	2.49859
50	17.4029
55	31.7767
60	37.8494
65	48.7719
70	67.2616
75	85.6265
80	99.6495
85	111.379
90	117.573
95	124.991
100	129.338
105	135.747
110	135.158
115	138.391
120	141.766
125	142.08
130	147.606
135	151.339
140	153.318
145	155.923
150	159.521
155	160.303
160	161.786
165	161.912
170	165.135

Time to Ignition (sec) =	65.3
Ignitability Index (1/min) =	0.918
End of Test (sec) =	3600
Rate of Heat Release Index (m=0.34) =	27159.5
10 minute limit =	6304
Rate of Heat Release Index (m=0.93) =	1843.9
2 minute limit =	2323
12 minute limit =	1498

THE BCA CLASSIFICATION GROUP IS:

*
Group 3
*

This method assumes that no materials lead to flashover after 12 and before 20 minutes.
Materials that are predicted not to flashover within 12 minutes are put into Group 1.

Classification of Fire Performance of Wall and Ceiling Lining Materials

Using the Method of Kokkala, Thomas and Karlsson

Reference: Kokkala, M.A. Thomas, P.H. and Karlsson, B. Rate of Heat Release and Ignitability Indices for Surface Linings. Fire and Materials Vol 17, 209-216 (1993)

Instructions: User input areas are those shaded in light-blue. Before entering or pasting new data into the two columns, it is best to clear any existing data by clicking on the 'Clear Data' button. If necessary, formatting of the cells can be restored by clicking on the 'Formatting' button. **Copy data from column U (time) of the csv file and paste into the time column. Copy data from column I (HRR) of the csv file and paste into the Rate of Heat Release column.**

Material Identification/Description:

14-001754-A spec2 CLEAF 18mm HMR Particleboard

Clear Data

Formatting

INPUT DATA BELOW	
Data from AS/NZS 3837:1998	
Test Heat Flux = 50 kW/m ²	
Time (sec)	Rate of Heat Release (kW/m ²)
0	0.254161
5	0
10	0.0285213
15	0.0880714
20	0
25	0
30	0
35	0.0460877
40	0
45	2.15042
50	10.4115
55	19.9937
60	27.9309
65	43.3386
70	54.4426
75	70.2668
80	81.9921
85	88.2399
90	97.6873
95	104.356
100	111.071
105	116.745
110	123.081
115	128.546
120	133.896
125	139.183
130	141.826
135	146.343
140	151.778
145	151.761
150	157.919
155	159.02
160	160.136
165	163.254
170	164.962

Time to Ignition (sec) =	68.0
Ignitability Index (1/min) =	0.882
End of Test (sec) =	3600
Rate of Heat Release Index (m=0.34) =	26706.5
10 minute limit =	6324
Rate of Heat Release Index (m=0.93) =	1798.4
2 minute limit =	2329
12 minute limit =	1504

THE BCA CLASSIFICATION GROUP IS:

*
Group 3
*

This method assumes that no materials lead to flashover after 12 and before 20 minutes. Materials that are predicted not to flashover within 12 minutes are put into Group 1.

Classification of Fire Performance of Wall and Ceiling Lining Materials

Using the Method of Kokkala, Thomas and Karlsson

Reference: Kokkala, M.A. Thomas, P.H. and Karlsson, B. Rate of Heat Release and Ignitability Indices for Surface Linings. Fire and Materials Vol 17, 209-216 (1993)

Instructions: User input areas are those shaded in light-blue. Before entering or pasting new data into the two columns, it is best to clear any existing data by clicking on the 'Clear Data' button. If necessary, formatting of the cells can be restored by clicking on the 'Formatting' button. **Copy data from column U (time) of the csv file and paste into the time column. Copy data from column I (HRR) of the csv file and paste into the Rate of Heat Release column.**

Material Identification/Description:

14-001754-A spec3 CLEAF 18mm HMR Particleboard

Clear Data

Formatting

INPUT DATA BELOW	
Data from AS/NZS 3837:1998	
Test Heat Flux = 50 kW/m ²	
Time (sec)	Rate of Heat Release (kW/m ²)
0	0.587374
5	0
10	0.301716
15	0
20	0
25	0
30	0
35	0
40	0
45	0
50	0
55	0
60	2.18997
65	20.1843
70	34.1472
75	47.0047
80	71.058
85	87.3518
90	101.562
95	108.83
100	118.036
105	125.051
110	127.975
115	134.386
120	137.877
125	143.97
130	149.885
135	153.635
140	155.586
145	157.455
150	161.387
155	162.679
160	163.051
165	166.466
170	167.2

Time to Ignition (sec) =	75.6
Ignitability Index (1/min) =	0.793
End of Test (sec) =	3610
Rate of Heat Release Index (m=0.34) =	25541.5
10 minute limit =	6372
Rate of Heat Release Index (m=0.93) =	1828.5
2 minute limit =	2344
12 minute limit =	1519

THE BCA CLASSIFICATION GROUP IS:

*
Group 3
*

This method assumes that no materials lead to flashover after 12 and before 20 minutes. Materials that are predicted not to flashover within 12 minutes are put into Group 1.