Certificate of Assessment

Job No.: NK7709

No. 2363

SIRC

"Copyright CSIRO 2017 ©" Copying or alteration of this report without written authorisation from CSIRO is forbidden.

This is to certify that the specimen described below was tested by the CSIRO Infrastructure Technologies in accordance with Australian/ New Zealand Standard 3837, Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter, 1998, at 50 kW/m², on behalf of:

D.R. Faulkes & E.D. Faulkes trading as Decor Systems 6 Millennium Court SILVERWATER NSW 2128 AUSTRALIA

A full description of the test specimen and the complete test results are detailed in the Division's sponsored investigation report numbered FNK 11887.

SAMPLE IDENTIFICATION:	DecorTrend, DecorZen, DecorTile, DecorArti, DecorMilano, DecorStyle
DESCRIPTION OF SAMPLE:	The sponsor described the tested specimen as a timber veneer-faced standard medium density fibreboard (MDF) with an Integrated Acoustic Backing (IAB) on the unexposed face. The MDF had an open area range of 7.7% to 28.4%, and was comprised of the following layers:
	Layer 1:polyurethane clear coating;Layer 2:timber veneer;Layer 3:12-mm to 16-mm standard MDF;Layer 4;IAB layer.
	Nominal total thickness: 12-mm to 16-mm Colour: natural timber
SAMPLE CLASSIFICATION:	Group Number: Group 3 (In accordance with Specification A2.4 of the Building Code of Australia.) ^{1,2}
Notes:	Average specific extinction area: 33.4 m ² /kg (Refer to Specification C1.10 section 4(c) of the Building Code of Australia.) ^{1,2}
1. The results of	this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method Ie a full assessment of fire hazard under all fire conditions.

2. As per Section 9 (n) of AS 5637.1:2015, the determination of the group number was based on the AS/NZS 3837:1998 test, and was deemed valid in the cone calorimeter for the assignment of National Construction Code (NCC) group number.

Testing Officer:

Heherson Alarde

Date of Test:

1 February 2017

Issued on the 7th day of February 2017 without alterations or additions.

Brett Roddy Team Leader, Fire Testing and Assessments



NATA Accredited Laboratory Number: 165 Corporate Site No 3625 Accredited for compliance with ISO/IEC 17025 - Testing.

CSIRO INFRASTRUCTURE TECHNOLOGIES

14 Julius Avenue, Riverside Corporate Park, North Ryde NSW 2113 AUSTRALIA Telephone: 61 2 9490 5444 Facsimile: 61 2 9490 5555 www.csiro.au INFRASTRUCTURE TECHNOLOGIES www.csiro.au



Test on timber veneer-faced MDF board with acoustic backing material at 50-kW/m² irradiance in accordance with AS/NZS 3837:1998

Fire Testing Report

Author: Heherson Alarde Report Number: FNK 11887 Quote Number: NK7709

Date: 7 February 2017 Version: Draft

Client: D.R. Faulkes & E.D. Faulkes trading as Decor Systems

Commercial-in-confidence



NATA Accredited Laboratory Number: 165 Corporate Site No 3625 Accredited for compliance with ISO/IEC 17025 - Testing.

Enquiries

Enquiries should be addressed to:

Team Leader, Fire Testing and Assessments	Author	Client
Infrastructure Technologies	Infrastructure Technologies	D.R. Faulkes & E.D. Faulkes trading
14 Julius Avenue	14 Julius Avenue	as Decor Systems
North Ryde, NSW 2113	North Ryde, NSW 2113	6 Millennium Court
Australia	Australia	Silverwater NSW 2128
Telephone +61 2 94905444	Telephone +61 2 94905445	Australia

Test Report Details

Document: Fire Testing Report

Client: D.R. Faulkes & E.D. Faulkes trading as Decor Systems

Test Standard: AS/NZS 3837:1998 at 50-kW/m² irradiance Quote Number: NK7709

Test Report Status and Revision History

VERSION	STATUS	DATE	DISTRIBUTION	COMMENT	ISSUE NO.
Draft	Draft for internal review	6 February 2017	CSIRO	CSIRO	Draft
A	Final for issue	7 February 2017	CSIRO; D.R. Faulkes & E.D. Faulkes trading as Decor Systems		FNK 11887

Test Report Authorisation

AUTHOR	REVIEWED BY	AUTHORISED BY
Heherson Alarde	Russell Collins	Brett Roddy
Rulade	R Cili	B. Roday
7 February 2017	7 February 2017	7 February 2017

Use of this Report

Use of Reports – Testing

This report is subject to binding obligations under which it was prepared. In particular, the Report must not be used:

- as a means of endorsement; or
- in a company prospectus or notification to a Stock Exchange document for capital raising, without the prior written consent of CSIRO.

The Report may be published verbatim and in full, provided that a statement is included on the publication that it is a copy of the Report issued by CSIRO.

Excerpts of the Report may not be published without the prior written consent of CSIRO.

Copyright and disclaimer

© 2017 CSIRO To the extent permitted by law, all rights are reserved and no part of this publication covered by copyright may be reproduced or copied in any form or by any means except with the written permission of CSIRO.

Important disclaimer

CSIRO advises that the information contained in this publication comprises general statements based on scientific research. The reader is advised and needs to be aware that such information may be incomplete or unable to be used in any specific situation. No reliance or actions must therefore be made on that information without seeking prior expert professional, scientific and technical advice. To the extent permitted by law, CSIRO (including its employees and consultants) excludes all liability to any person for any consequences, including but not limited to all losses, damages, costs, expenses and any other compensation, arising directly or indirectly from using this publication (in part or in whole) and any information or material contained in it.

Contents

1	Sumn	nary	1
2	Test [Details	1
	2.1	Sample Identification	1
	2.2	Sponsor	1
	2.3	Manufacturer	1
	2.4	Job Number	1
	2.5	Test Date	1
	2.6	Description of Sample	1
	2.7	Documentation	2
3	Meth	od	2
	3.1	Conditioning of Specimens	2
	3.2	Test Method	2
	3.3	Departure from Standard	2
	3.4	Duration of Test	2
4	Resul	ts and Observations	3
	Obser	rvations	3
	4.2	Results of Tests	4
5	Asses	sment Certificate	7

Tables

Results of test 4

Figures

Figure 1 Heat Release Rate (HRR)	5
Figure 2 Effective Heat of Combustion (EHC)	6
Figure 3 Certificate of Assessment 2363	7

1 Summary

Sponsored Investigation Report Number FNK 11887

Test on timber veneer-faced MDF board with acoustic backing material at 50-kW/m² irradiance in accordance with AS/NZS 3837:1998

2 Test Details

2.1 Sample Identification

DecorTrend, DecorZen, DecorTile, DecorArti, DecorMilano, DecorStyle

(Samples labelled 2-9 to 2-16)

2.2 Sponsor

D.R. Faulkes & E.D. Faulkes trading as Decor Systems 6 Millennium Court SILVERWATER NSW 2128 AUSTRALIA

2.3 Manufacturer

D.R. Faulkes & E.D. Faulkes trading as Decor Systems 6 Millennium Court SILVERWATER NSW 2128 AUSTRALIA

2.4 Job Number

NK7709

2.5 Test Date

1 February 2017

2.6 Description of Sample

The sponsor described the tested specimen as a timber veneer-faced standard medium density fibreboard (MDF) with an Integrated Acoustic Backing (IAB) on the unexposed face. The MDF had an open area range of 7.7% to 28.4%, and was comprised of the following layers:

Layer 1: polyurethane clear coati	ng;
-----------------------------------	-----

Layer 2: timber veneer;

Layer 3: 12-mm to 16-mm standard MDF;

Layer 4; IAB layer.

Nominal total thickness:	12-mm to 16-mm
Colour:	natural timber

2.7 Documentation

The following documents were supplied by the sponsor as a full and complete description of the sample:

• Test Agreement and form FTAF33 dated 29 November 2016.

3 Method

3.1 Conditioning of Specimens

Prior to the test, the specimens were conditioned to constant mass at a temperature of 23 ± 2 °C and a relative humidity of 50 ± 10 %.

3.2 Test Method

Tests were performed in accordance with Australian/New Zealand Standard 3837:1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter. All test specimens were exposed in the horizontal orientation with the standard pilot operating.

Nominally 100×100 -mm specimens were tested as supplied. Specimens were tested with the use of an edge frame. The edge frame reduces the test surface area to 0.0088-m² and this is the area used in calculations.

Three specimens were tested at an irradiance level of 50-kW/m².

The nominal exhaust system flow rate for all tests was 0.024-m³/s.

A measured quantity of ethanol was burnt to obtain a C factor to be used in the Heat Release calculations.

3.3 Departure from Standard

In performing heat release rate calibration to determine the orifice constant, *C*, an alternative procedure was employed as specified in Clause 10.2.4 of ISO 5660-1:2002(E) by burning a measured quantity of absolute ethanol.

3.4 Duration of Test

The test is terminated when any one of the following is applicable:

- 1. 2 minutes have passed since all flaming from the specimen ceased; and
- 2. the average mass loss over a 1 minute period has dropped below 150-g/m²;
- 3. 60 minutes have elapsed; or
- 4. the specimen fails to ignite after a 10 minute exposure.

4 **Results and Observations**

Observations

4.1.1 SPECIMEN 1

The specimen began to smoke after 10 seconds exposure to the test. The specimen ignited during the test. The test was terminated when the average mass loss over a 1 minute period has dropped below 150-g/m².

4.1.2 SPECIMEN 2

The specimen began to smoke after 5 seconds exposure to the test. The specimen ignited during the test. The test was terminated when the average mass loss over a 1 minute period has dropped below 150-g/m².

4.1.3 SPECIMEN 3

The specimen began to smoke after 10 seconds exposure to the test. The specimen ignited during the test. The test was terminated when the average mass loss over a 1 minute period has dropped below $150-g/m^2$.

4.2 Results of Tests

The results of tests as specified in the Standard are summarised in Table 1.

Test Details:

Date of test:	01/02/17
Test Report Date:	07/02/17
Ethanol burn ('C' factors):	0.036735

Table 1 Results of test

		IRRADIANCE (kW/m²)	TIME TO SUSTAINED BURNING (s)	TEST DURATION (s)	THICKNESS (mm)	SPECIMEN MASS (g)	MASS REMAINING (g)	MASS LOSS (g)	PERCENT OF MASS PYROLYSED (%)	AVERAGE RATE OF MASS LOSS (g/m².s)	PEAK HRR (kW/m²)	AVERAGE HRR (FIRST 60s AFTER IGN)	AVERAGE HRR (FIRST 180s AFTER IGN)	AVERAGE HRR (FIRST 300s AFTER IGN)	TOTAL HEAT RELEASED (MJ/m²)	AVERAGE EHC (MJ/kg)	AVERAGE SPECIFIC EXTINCTION AREA (m²/kg)
Sampl	le 1	50	29	600	16.86	90.55	19.05	71.50	78.96	14.00	307.2	125.5	141.4	138.5	97.80	12.04	26.9
Sampl	le 2	50	36	645	13.24	82.85	18.15	64.70	78.09	11.84	214.5	119.8	131.4	131.2	91.29	12.42	37.7
Sampl	le 3	50	30	715	13.03	77.08	8.08	69.00	89.52	11.00	223.6	106.1	146.9	171.3	102.57	13.08	35.7
Mea	n		31.7	653.3		83.5	15.1	68.4	82.2	12.3	248.4	117.1	139.9	147.0	97.2	12.5	33.4
SD			3.8	58.0		6.8	6.1	3.4	6.4	1.5	51.1	10.0	7.9	21.3	5.7	0.5	5.8

Notes:

- 1. 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.
- 2. As per Section 9 (n) of AS 5637.1:2015, the determination of the group number was based on the AS/NZS 3837:1998 test, and was deemed valid in the cone calorimeter for the assignment of National Construction Code (NCC) group number.

Figure 1 Heat Release Rate (HRR)

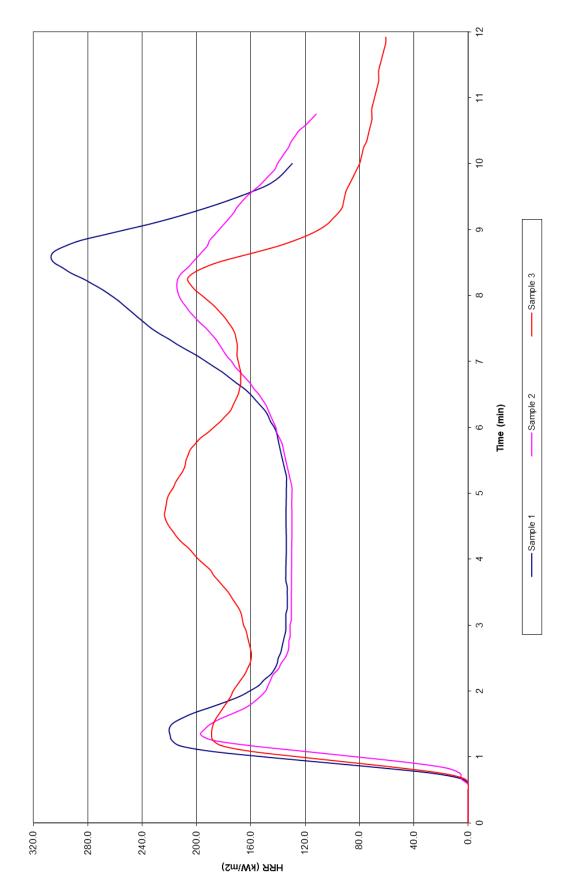
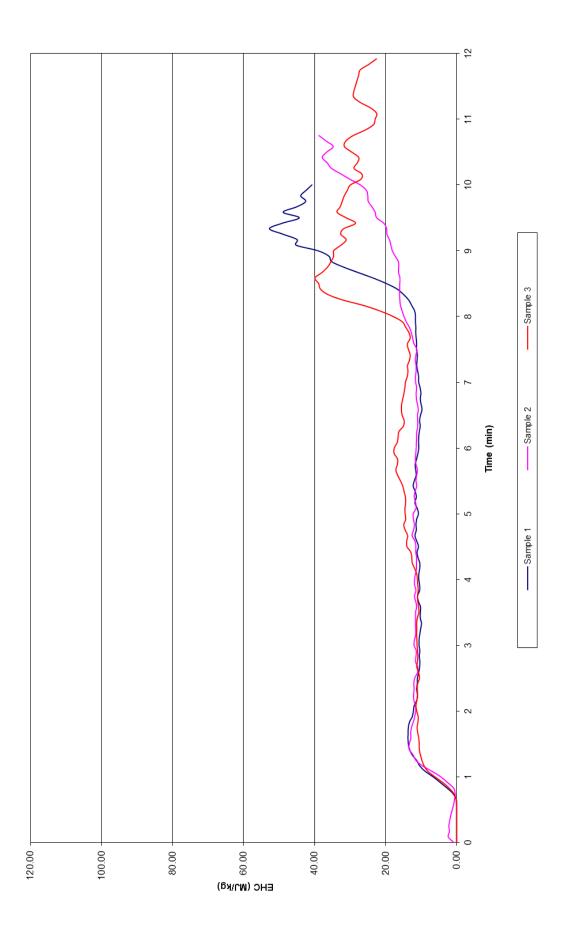


Figure 2 Effective Heat of Combustion (EHC)



5 Assessment Certificate

Figure 3 Certificate of Assessment 2363

Job No.: NK7709			No. 2363
		without writ	"Copyright CSIRO 2017 ©" Copying or alteration of this report ten authorisation from CSIRO is forbidden
with Australian/ New	•	w was tested by the CSIRO Aethod of test for heat a	Infrastructure Technologies in accordance nd smoke release rates for materials and
p	an service and sectored as and	es trading as Decor System	
옷 지금 것 같은 것 같아요. 한 성격적은 것 같은 것 같아. 것 같아.	he test specimen and the cor numbered FNK 11887.	nplete test results are det	ailed in the Division's sponsored
SAMPLE IDENTIFICATION:	DecorTrend, DecorZen, D	ecorTile, DecorArti, Decor	Milano, DecorStyle
DESCRIPTION OF SAMPLE:	fibreboard (MDF) with an	Integrated Acoustic Back	ber veneer-faced standard medium density ing (IAB) on the unexposed face. The MDI comprised of the following layers:
	Layer 2: timbe	rethane clear coating; er veneer; m to 16-mm standard MD ayer.	F;
	Nominal total thickness: Colour:	12-mm to 16-mm natural timber	
SAMPLE CLASSIFICATION:	Group Number: (In accordance with Speci	Group 3 ification A2.4 of the Buildir	ng Code of Australia.) ^{1,2}
Notori	Average specific extinctio (Refer to Specification C1		ding Code of Australia.) ^{1,2}
	this fire test may be used to dir de a full assessment of fire haza	NA 2018A 0102072 (ASSESS	should be recognised that a single test method
2. As per Section	n 9 (n) of AS 5637.1:2015, the d	etermination of the group nu	mber was based on the AS/NZS 3837:1998 test nal Construction Code (NCC) group number.
Testing Officer:	Heherson Alarde	Date of Test:	1 February 2017
Issued on the 7 th day	of February 2017 without all	terations or additions.	
B. Rod	T		
Brett Roddy Team Leader, Fire Te	sting and Assessments		
	NATA	NATA Accredited Labor Number: 165 Corporate Site No 36 edited for compliance with ISO/IE	25

CONTACT US

t 1300 363 400 +61 3 9252 6000

- e enquiries@csiro.au
- w www.csiro.au

YOUR CSIRO

Australia is founding its future on science and innovation. Its national science agency, CSIRO, is a powerhouse of ideas, technologies and skills for building prosperity, growth, health and sustainability. It serves governments, industries, business and communities across the nation.

FOR FURTHER INFORMATION

Infrastructure Technologies Heherson Alarde Fire Testing Engineer t +61 2 9490 5445 e heherson.alarde@csiro.au w www.csiro.au/en/Do-business/Services/Materials-

Infrastructure Technologies

infrastructure/Fire-safety

Brett Roddy Team Leader, Fire Testing and Assessments t +61 2 94905449 e brett.roddy@csiro.au w www.csiro.au/en/Do-business/Services/Materialsinfrastructure/Fire-safety

Certificate of Assessment

Job No.: NK7709

No. 2364

SIRC

"Copyright CSIRO 2017 ©" Copying or alteration of this report without written authorisation from CSIRO is forbidden.

This is to certify that the specimen described below was tested by the CSIRO Infrastructure Technologies in accordance with Australian/ New Zealand Standard 3837, Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter, 1998, at 50 kW/m², on behalf of:

D.R. Faulkes & E.D. Faulkes trading as Decor Systems 6 Millennium Court SILVERWATER NSW 2128 AUSTRALIA

A full description of the test specimen and the complete test results are detailed in the Division's sponsored investigation report numbered FNK 11888.

SAMPLE IDENTIFICATION:	DecorTrend, DecorZen, DecorTile, DecorArti, DecorMilano, DecorStyle
DESCRIPTION OF SAMPLE:	The sponsor described the tested specimen as a two pack polyurethane-coated medium density fibreboard (MDF) with an Integrated Acoustic Backing (IAB) on the unexposed face. The MDF had an open area range of 7.7% to 28.4% and was comprised of the following layers:
	Layer 1:Polyurethane;Layer 2:12-mm to 16-mm standard MDF;Layer 3:IAB layer.
	Nominal total thickness: 12-mm to 16-mm Colour: white (polyurethane coating)
SAMPLE CLASSIFICATION:	Group Number: Group 3 (In accordance with Specification A2.4 of the Building Code of Australia.) ^{1,2}
	Average specific extinction area: 40.4 m ² /kg (Refer to Specification C1.10 section 4(c) of the Building Code of Australia.) ^{1,2}
Notes:	
1. The results of t	this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method

2. As per Section 9 (n) of AS 5637.1:2015, the determination of the group number was based on the AS/NZS 3837:1998 test, and was deemed valid in the cone calorimeter for the assignment of National Construction Code (NCC) group number.

Testing Officer:

Heherson Alarde

Date of Test:

2 February 2017

Issued on the 7th day of February 2017 without alterations or additions.

will not provide a full assessment of fire hazard under all fire conditions.

B. Roday

Brett Roddy Team Leader, Fire Testing and Assessments



NATA Accredited Laboratory Number: 165 Corporate Site No 3625 Accredited for compliance with ISO/IEC 17025 - Testing.

CSIRO INFRASTRUCTURE TECHNOLOGIES

14 Julius Avenue, Riverside Corporate Park, North Ryde NSW 2113 AUSTRALIA Telephone: 61 2 9490 5444 Facsimile: 61 2 9490 5555 www.csiro.au INFRASTRUCTURE TECHNOLOGIES www.csiro.au



Test on polyurethane-coated MDF board with acoustic backing material at 50-kW/m² irradiance in accordance with AS/NZS 3837:1998

Fire Testing Report

Author: Heherson Alarde Report Number: FNK 11888 Quote Number: NK7709

Date: 7 February 2017 Version: A

Client: D.R. Faulkes & E.D. Faulkes trading as Decor Systems

Commercial-in-confidence



NATA Accredited Laboratory Number: 165 Corporate Site No 3625 Accredited for compliance with ISO/IEC 17025 - Testing.

Enquiries

Enquiries should be addressed to:

Team Leader, Fire Testing and Assessments	Author	Client
Infrastructure Technologies	Infrastructure Technologies	D.R. Faulkes & E.D. Faulkes trading
14 Julius Avenue	14 Julius Avenue	as Decor Systems
North Ryde, NSW 2113	North Ryde, NSW 2113	6 Millennium Court
Australia	Australia	Silverwater NSW 2128
Telephone +61 2 94905444	Telephone +61 2 94905445	Australia

Test Report Details

Document: Fire Testing Report

Client: D.R. Faulkes & E.D. Faulkes trading as Decor Systems

Test Standard: AS/NZS 3837:1998 at 50-kW/m² irradiance Quote Number: NK7709

Test Report Status and Revision History

VERSION	STATUS	DATE	DISTRIBUTION	COMMENT	ISSUE NO.
Draft	Draft for internal review	6 February 2017	CSIRO	CSIRO	Draft
A	Final for issue	7 February 2017	CSIRO; D.R. Faulkes & E.D. Faulkes trading as Decor Systems		FNK 11888

Test Report Authorisation

AUTHOR	REVIEWED BY	AUTHORISED BY
Heherson Alarde	Russell Collins	Brett Roddy
kulade	R all	B. Rody
7 February 2017	7 February 2017	7 February 2017

Use of this Report

Use of Reports – Testing

This report is subject to binding obligations under which it was prepared. In particular, the Report must not be used:

- as a means of endorsement; or
- in a company prospectus or notification to a Stock Exchange document for capital raising, without the prior written consent of CSIRO.

The Report may be published verbatim and in full, provided that a statement is included on the publication that it is a copy of the Report issued by CSIRO.

Excerpts of the Report may not be published without the prior written consent of CSIRO.

Copyright and disclaimer

© 2017 CSIRO To the extent permitted by law, all rights are reserved and no part of this publication covered by copyright may be reproduced or copied in any form or by any means except with the written permission of CSIRO.

Important disclaimer

CSIRO advises that the information contained in this publication comprises general statements based on scientific research. The reader is advised and needs to be aware that such information may be incomplete or unable to be used in any specific situation. No reliance or actions must therefore be made on that information without seeking prior expert professional, scientific and technical advice. To the extent permitted by law, CSIRO (including its employees and consultants) excludes all liability to any person for any consequences, including but not limited to all losses, damages, costs, expenses and any other compensation, arising directly or indirectly from using this publication (in part or in whole) and any information or material contained in it.

Contents

1	Sumn	nary	1
2	Test [Details	1
	2.1	Sample Identification	1
	2.2	Sponsor	1
	2.3	Manufacturer	1
	2.4	Job Number	1
	2.5	Test Date	1
	2.6	Description of Sample	1
	2.7	Documentation	2
3	Meth	od	2
	3.1	Conditioning of Specimens	2
	3.2	Test Method	2
	3.3	Departure from Standard	2
	3.4	Duration of Test	2
4	Resul	ts and Observations	3
	Obser	rvations	3
	4.2	Results of Tests	4
5	Asses	sment Certificate	7

Tables

Results of test 4

Figures

Figure 1 Heat Release Rate (HRR)	5
Figure 2 Effective Heat of Combustion (EHC)	6
Figure 3 Certificate of Assessment 2364	7

1 Summary

Sponsored Investigation Report Number FNK 11888

Test on polyurethane-coated MDF board with acoustic backing material at 50-kW/m² irradiance in accordance with AS/NZS 3837:1998

2 Test Details

2.1 Sample Identification

DecorTrend, DecorZen, DecorTile, DecorArti, DecorMilano, DecorStyle

(Samples labelled 3-17 to 3-24)

2.2 Sponsor

D.R. Faulkes & E.D. Faulkes trading as Decor Systems 6 Millennium Court SILVERWATER NSW 2128 AUSTRALIA

2.3 Manufacturer

D.R. Faulkes & E.D. Faulkes trading as Decor Systems 6 Millennium Court SILVERWATER NSW 2128 AUSTRALIA

2.4 Job Number

NK7709

2.5 Test Date

2 February 2017

2.6 Description of Sample

The sponsor described the tested specimen as a two pack polyurethane-coated medium density fibreboard (MDF) with an Integrated Acoustic Backing (IAB) on the unexposed face. The MDF had an open area range of 7.7% to 28.4% and was comprised of the following layers:

Layer 1:Polyurethane;Layer 2:12-mm to 16-mm standard MDF;Layer 3:IAB layer.Nominal total thickness:12-mm to 16-mmColour:white (polyurethane coating)

2.7 Documentation

The following documents were supplied by the sponsor as a full and complete description of the sample:

• Test Agreement and form FTAF33 dated 29 November 2016.

3 Method

3.1 Conditioning of Specimens

Prior to the test, the specimens were conditioned to constant mass at a temperature of 23 ± 2 °C and a relative humidity of 50 ± 10 %.

3.2 Test Method

Tests were performed in accordance with Australian/New Zealand Standard 3837:1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter. All test specimens were exposed in the horizontal orientation with the standard pilot operating.

Nominally 100×100 -mm specimens were tested as supplied. Specimens were tested with the use of an edge frame. The edge frame reduces the test surface area to 0.0088-m² and this is the area used in calculations.

Six specimens were tested at an irradiance level of 50-kW/m^2 .

The nominal exhaust system flow rate for all tests was 0.024-m³/s.

A measured quantity of ethanol was burnt to obtain a C factor to be used in the Heat Release calculations.

3.3 Departure from Standard

In performing heat release rate calibration to determine the orifice constant, *C*, an alternative procedure was employed as specified in Clause 10.2.4 of ISO 5660-1:2002(E) by burning a measured quantity of absolute ethanol.

3.4 Duration of Test

The test is terminated when any one of the following is applicable:

- 1. 2 minutes have passed since all flaming from the specimen ceased; and
- 2. the average mass loss over a 1 minute period has dropped below 150-g/m²;
- 3. 60 minutes have elapsed; or
- 4. the specimen fails to ignite after a 10 minute exposure.

4 **Results and Observations**

Observations

4.1.1 SPECIMEN 1

The specimen began to smoke after 9 seconds exposure to the test. The specimen ignited during the test. The test was terminated when the average mass loss over a 1 minute period has dropped below 150-g/m².

4.1.2 SPECIMEN 2

The specimen began to smoke after 11 seconds exposure to the test. The specimen ignited during the test. The test was terminated when the average mass loss over a 1 minute period has dropped below $150-g/m^2$.

4.1.3 SPECIMEN 3

The specimen began to smoke after 5 seconds exposure to the test. The specimen ignited during the test. The test was terminated when the average mass loss over a 1 minute period has dropped below 150-g/m².

4.1.4 SPECIMEN 4

The specimen began to smoke after 11 seconds exposure to the test. The specimen ignited during the test. The test was terminated when the average mass loss over a 1 minute period has dropped below 150-g/m².

4.1.5 SPECIMEN 5

The specimen began to smoke after 20 seconds exposure to the test. The specimen ignited during the test. The test was terminated when the average mass loss over a 1 minute period has dropped below 150-g/m^2 .

4.1.6 SPECIMEN 6

The specimen began to smoke after 11 seconds exposure to the test. The specimen ignited during the test. The test was terminated when the average mass loss over a 1 minute period has dropped below 150-g/m^2 .

4.2 Results of Tests

The results of tests as specified in the Standard are summarised in Table 1.

Test Details:

Date of test:	02/02/17
Test Report Date:	07/02/17
Ethanol burn ('C' factors):	0.037313

Table 1 Results of test

	IRRADIANCE (kW/m²)	TIME TO SUSTAINED BURNING (s)	TEST DURATION (s)	THICKNESS (mm)	SPECIMEN MASS (g)	MASS REMAINING (g)	(g) MASS LOSS (g)	PERCENT OF MASS PYROLYSED (%)	AVERAGE RATE OF MASS LOSS (g/m².s)	PEAK HRR (kW/m²)	AVERAGE HRR (FIRST 60s AFTER IGN)	AVERAGE HRR (FIRST 180s AFTER IGN)	AVERAGE HRR (FIRST 300s AFTER IGN)	TOTAL HEAT RELEASED (MJ/m²)	AVERAGE EHC (MJ/kg)	AVERAGE SPECIFIC EXTINCTION AREA (m²/kg)
Sample	e 1 50	47	585	16.86	89.5	21.00	68.50	76.54	14.15	309.2	150.5	160.6	149.6	97.19	12.49	25.5
Sample	e 2 50	52	620	13.24	81.31	20.81	60.50	74.41	11.83	252.5	143.5	134.0	136.8	82.71	12.03	44.4
Sample	e 3 50	17	535	13.03	61.01	10.81	50.20	82.28	10.68	239.6	80.6	134.5	163.2	75.85	13.30	59.2
Sample	e4 50	50	560	12.49	86.28	21.3	65.00	75.34	14.11	283.1	160.0	150.9	141.8	88.75	12.02	41.7
Sample	e 5 50	51	545	15.9	88.79	22.6	66.20	74.56	14.87	339.1	151.8	158.9	156.2	93.10	12.38	33.5
Sample	e6 50	46	605	12.44	87.4	22.0	65.40	74.83	13.07	360.2	161.7	149.9	133.2	92.17	12.40	38.0
Mea	n	43.8	575.0		82.4	19.7	62.6	76.3	13.1	297.3	141.4	148.1	146.8	88.3	12.4	40.4
SD		13.3	33.9		10.9	4.4	6.6	3.0	1.6	47.7	30.5	11.5	11.6	7.8	0.5	11.4

Notes:

- 1. 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.
- 2. As per Section 9 (n) of AS 5637.1:2015, the determination of the group number was based on the AS/NZS 3837:1998 test, and was deemed valid in the cone calorimeter for the assignment of National Construction Code (NCC) group number.

Figure 1 Heat Release Rate (HRR)

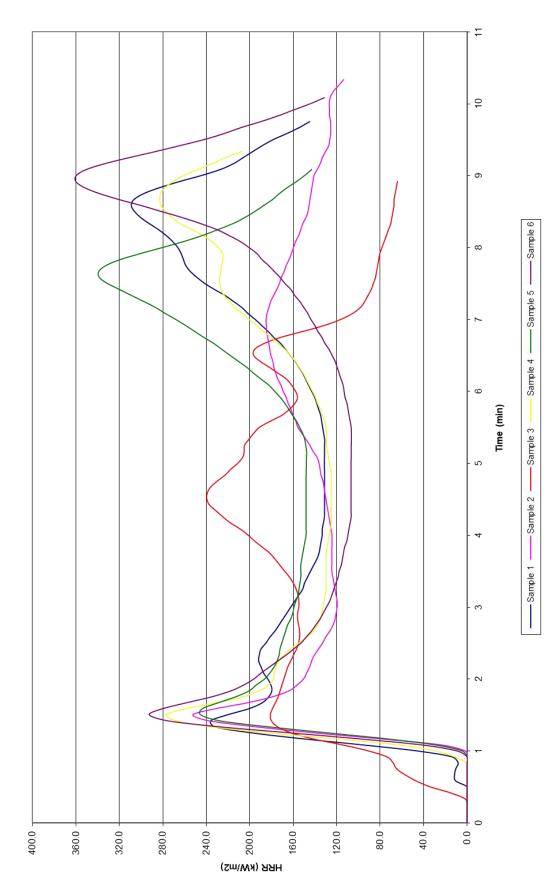
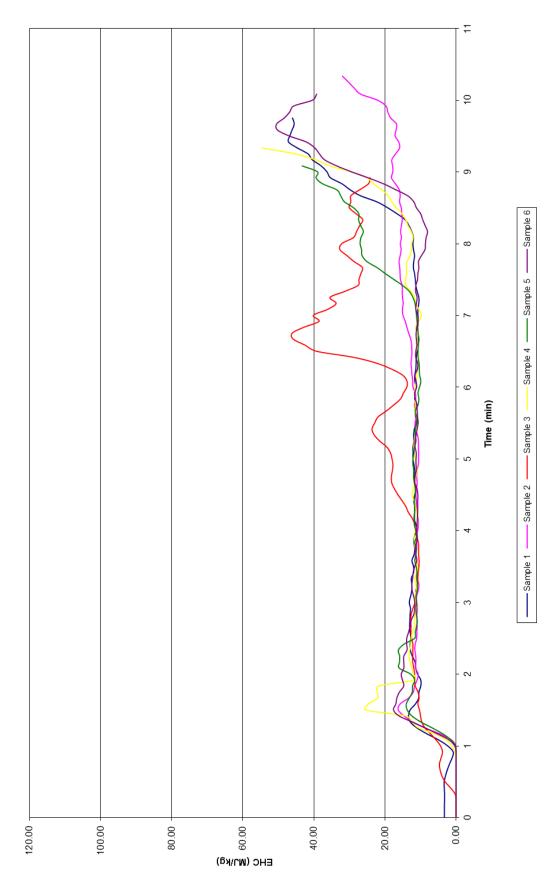


Figure 2 Effective Heat of Combustion (EHC)



5 Assessment Certificate

Figure 3 Certificate of Assessment 2364

Job No.: NK7709			No. 2364
		without wri	Copyright CSIRO 2017 © Copying or alteration of this repor itten authorisation from CSIRO is forbidden
with Australian/ Net	w Zealand Standard 3837		D Infrastructure Technologies in accordance and smoke release rates for materials and behalf of:
	20. 10. 10. 10. 10. 10. 10. 10. 10. 10. 1	ulkes trading as Decor Systen	
	he test specimen and the numbered FNK 11888.	complete test results are det	tailed in the Division's sponsored
SAMPLE IDENTIFICATION:	DecorTrend, DecorZen	, DecorTile, DecorArti, Decor	rMilano, DecorStyle
DESCRIPTION OF SAMPLE:	fibreboard (MDF) with	an Integrated Acoustic Back	p pack polyurethane-coated medium densit king (IAB) on the unexposed face. The MDI comprised of the following layers:
	Layer 2: 12	lyurethane; -mm to 16-mm standard MD 8 layer.	DF;
	Nominal total thicknes Colour:	s: 12-mm to 16-mm white (polyurethane c	oating)
SAMPLE CLASSIFICATION:	Group Number: (In accordance with Sp	Group 3 ecification A2.4 of the Buildi	ng Code of Australia.) ^{1,2}
	Average specific extine (Refer to Specification	tion area: 40.4 m²/kg C1.10 section 4(c) of the Bui	Iding Code of Australia.) ^{1,2}
Notes:			
will not provi	de a full assessment of fire ha	azard under all fire conditions.	it should be recognised that a single test metho
			umber was based on the AS/NZS 3837:1998 test onal Construction Code (NCC) group number.
Testing Officer:	Heherson Alarde	Date of Test:	2 February 2017
lssued on the 7 th day	of February 2017 without	alterations or additions.	
B. Rod	4-		
Brett Roddy	sting and Assessments		
ream Leader, File re			
	NATA	NATA Accredited Labo Number: 165 Corporate Site No 30	

CONTACT US

t 1300 363 400 +61 3 9252 6000

- e enquiries@csiro.au
- w www.csiro.au

YOUR CSIRO

Australia is founding its future on science and innovation. Its national science agency, CSIRO, is a powerhouse of ideas, technologies and skills for building prosperity, growth, health and sustainability. It serves governments, industries, business and communities across the nation.

FOR FURTHER INFORMATION

Infrastructure Technologies Heherson Alarde Fire Testing Engineer t +61 2 9490 5445 e heherson.alarde@csiro.au w www.csiro.au/en/Do-business/Services/Materials-

Infrastructure Technologies

infrastructure/Fire-safety

Brett Roddy Team Leader, Fire Testing and Assessments t +61 2 94905449 e brett.roddy@csiro.au w www.csiro.au/en/Do-business/Services/Materialsinfrastructure/Fire-safety