



# Oasis Technical Data

	Standard	Result
Tile Size (mm)		177.8 x 1219.2 mm (7" x 48")
Total Thickness (mm)		5.0 mm
Wear Layer Thickness (mm)		0.5 mm
Weight (±50 gr/m2)	EN 430	8.3kg / m²
Box Quantity		10 Planks / 2.167 m <sup>2</sup>
Peeling Strength of Layer	EN 431	Pass
Impact sound reduction	ISO 140-7	L'nT,w 52
Dimension stability	EN 434	0.10%
Color fastness to light	ISO 105 B02	≥ Grade6
Static indentation	EN 433	≤ 0.1mm
Embossing	Regular/Deep	
Flexibility	EN 435	Pass
Abrasion resistance	EN 660-2	Class T
Castor chair resistance	EN 425	Pass
Slip resistance	AS 4586:2013	R10
Fire rating	AS. ISO 9239.1 2003	CFH: 8.5 kW/m <sup>2</sup> Smoke Value: 208 % min
Usage category	EN 685	23/42
Resistance to chemical	EN 423	Pass
Electrostatic properties	EN 1815	< 2kv
Surface treatment		PUR
UL Environmental	UL 82386-4230	NSF/ANSI 332 - 2011 Silver - Sustainability Assessment for Resilient Floor Coverings
Environmental	Floor score (SCS-EC10.3-2014 v3.0)	Indoor Air Quality Certified; low VOC emissions
Adhesive	ISO 9001 : 2008	
Quality Control Mgmt		
Environmental Mgmt	ISO 14001 : 2004	











# For more information 1300 093 745



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Client:	-		ine Pty	Ltd							Rece	eiving	g Roo	om Vo	olun	ne:	6	65	m <sup>3</sup>						
Test Perfor	rmed:	Eric H	uang																						
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Product:					is Vinyl									RT	me			4	Im	p.					
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### FIELD IMPACT INSULATION TESTS

# ALLEGRA, SCARBOROUGH ST, SOUTHPORT



### **TEST REPORT**

Commissioned by:	DecoLine Pty Ltd
Date:	18 July 2017
Project number:	4222
Version:	V.0
Author:	Eric Huang
	-

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02													
03													
04													
05													



TITLE	Field Impact Insulation Test DecoLine Pty Ltd product tests, Unit 10 – ALLEGRA, 138, Scarborough St, Southport LnTw Test Report
TESTS BY	Eric Huang Acoustic Engineer - Palmer Acoustics (Australia) Pty Ltd
REPORT DATE	18 July 2017
TEST DATE	13 July 2017
TEST LOCATION	Level 6 Unit 10 Living area to Level 5 Unit 10 Living area
FOR	DecoLine Pty Ltd

#### CONTENTS

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#### 1.0 INTRODUCTION

Palmer Acoustics have been engaged by the DecoLine Pty Ltd to perform field impact insulation tests at level 6 Unit 10, ALLEGRA 139 Scarborough St Southport. The tests were conducted on loose laid vinyl plank flooring samples installed in the living area of level 6 Unit 10. The measurements were conducted in the living area of level 5 Unit 10 – directly beneath unit 10 in level 6. The descriptions of the tests are as follows:

- Test 1: Concrete slab with plasterboard ceiling;
- Test 2: 5mm Decoline Ocean loose lay vinyl plank;
- Test 3: 5mm Decoline Oasis loose lay vinyl plank;
- Test 4: 5mm Decoline loose lay vinyl tile;

#### 2.0 EQUIPMENT AND PROCEDURES

#### 2.1 Instrumentation

The following instruments were used in the evaluation.

- Norsonics 140 Sound level meter (serial number 1403252)
- Look Line tapping machine EM50 (serial number TM.14031)
- B & K 4231 Calibrator (serial number 2095146)

The operation of the sound level measuring equipment was field calibrated before and after each measurement session and was found to be within 0.2dB of the reference signal. All instrumentation used in this assessment holds a current calibration certificate from a certified NATA calibration laboratory.

#### 2.2 Measurement Procedures

Testing was conducted in conformance with ISO 140/VII "Field measurement of impact sound insulation of floors". The evaluation of the results to derive the single figure ratings of FIIC and L'nT,w were conducted to:

- ISO 717-2 1996 "Rating of insulation in buildings and of building elements Part 2 Impact Sound Insulation" and
- ASTM E989-1989 Standard Classification for Determination of Impact Insulation Class (IIC).

The loose lay vinyl plank samples in the living area were tapped in two (2) different orientations with the receiving spaces sound measurements averaged over a 1-minute period per test orientation.

Ambient sound levels were measured before and after the testing with the results included in the assessment as per standard.

Receiving room reverberation measurements were performed, utilising RT Software in the Norsonics 140 analyser, at four locations throughout the spaces with the results arithmetically averaged.



#### 3.0 DESCRIPTION OF ROOMS

All windows and doors were closed in the source room and receiving room.

#### **Transmitting Room**

Test Floor:	Decoline loose lay planks;
Walls:	Plasterboard;
Enclosure:	Windows and all doors were closed;
Room finish:	Not finished.

#### **Receiving Room**

Floor:	Concrete Slab;
Ceiling:	10mm plasterboard ceiling with a 100mm air gap;
Walls:	Plasterboard;
Enclosure:	Windows and all doors were closed;
Room finish:	Not finished.



#### 4.0 **RESULTS**

Our tests gave the following results:

Test System	L'nT,w
Test 1 – Concrete slab with plasterboard ceiling	59
Test 2 – 5mm Decoline Ocean loose lay vinyl plank	51
Test 3 – 5mm Decoline Oasis loose lay vinyl plank	52
Test 4 – 5mm Decoline loose lay vinyl tile	53

Table 1: Test Result Summary – impact tests

Test Certificates detailing the 1/3 octave band results are provided in APPENDIX B to this report in terms of L'nT,w, and related spectrum adaptation terms in accordance with ISO 717 - 2: 1996

L'nT,w is a term used in the Building Code of Australia (BCA), see also APPENDIX A. It should be noted that L'nT,w is a weighted room noise level and that a lower number represents better performance.



#### 5.0 DISCUSSION

The following table shows the vinyl plank samples' impact insulation rating reduction from the bare concrete slab (with plasterboard ceiling):

Flooring types	Δ L'nT,w Reduction
1. 5mm Decoline Ocean loose lay vinyl plank	8
2. 5mm Decoline Oasis loose lay vinyl plank	7
3. 5mm Decoline loose lay vinyl tile	6

Author:

Huan

ERIC HUANG BEng Engineer

Reviewed by:

whit

**ROGER HAWKINS** RPEQ 6022 Senior Engineer



#### APPENDIX A

#### GLOSSARY

#### IMPACT MEASUREMENT AND ASSESSMENT DESCRIPTORS

- *L<sub>Aeq,T</sub>* Time average A-weighted sound pressure level is the average energy equivalent level of the A Weighted sound over a period "T".
- *L<sub>Aeq</sub>* Equivalent Continuous Noise Level. The noise level in dB(A) which if present for the entire measurement period would produce the same sound energy to be received as was actually received as a result of a signal which varied with time. Normally abbreviated to "L<sub>eq</sub>" or "L<sub>Aeq</sub>", often followed by a specification of the time period (such as 1 hour or 8 hours) indicating the period of time to which the measured value has been normalized;
- *L'<sub>nT,w</sub>* Weighted Standardised impact sound pressure level; a measurement of impact sound transmission between rooms. Lower values denote better performance. The single figure measure is derived by adapting a standard response curve to measured 1/3 octave band sound pressure levels. Measured results are adjusted based upon a reverberation tome of 0.5 sec in receiving room. Normally derived from a field test.
- $L'_{n,w}$  Weighted Normalized impact sound pressure level; a laboratory measurement of impact sound transmission between rooms. Lower values denote better performance. The single figure measure is derived by adapting a standard response curve to measured 1/3 octave band sound pressure level measurements. Measured results are adjusted based on the absorption of  $10m^2$  in the receiving room. Normally derived from a laboratory test.
- *C*<sub>1</sub> A spectrum adaptation term compensating for the effect of floor coverings when applied to bare floors under test. The usually negative value, in decibels, is added to the single-number quantity, L'<sub>nw</sub> or L'<sub>nTw</sub>.
- *Field Impact Insulation Class (FIIC)* a single-number rating derived from measured values of normalized one-third octave band impact sound pressure levels in accordance with Eq 4 and the reference contours in Classification E 989. It provides an estimate of the sound insulating performance of a floor-ceiling assembly and associated support structures under tapping machine excitation.
- *Impact Insulation Class (IIC)* This classification covers the determination of a single-figure rating that can be used for comparing floor-ceiling assemblies for general building design purposes.
- *Impact Sound Pressure Level* (*L*) the average sound pressure level in a specified frequency band produced in the receiving room by the operation of the standard tapping machine on the floor assembly, averaged over each of the specified machine positions.
- *L'*<sub>nT</sub> *Standardised Impact Sound Pressure Level* the impact sound pressure level standardised to room with a reference reverberation time of 0.5 seconds.
- *L'<sub>n</sub> Normalized Impact Sound Pressure Level* the impact sound pressure level normalized to reference absorption area of 10 metric sabins (108 sabins).



- *Receiving Room* a room below or adjacent to the floor specimen under test in which the impact sound pressure levels are measured.
- *Source Room* the room containing the tapping machine.

#### **STANDARDS**

• ISO 140 – 6

Acoustics – Measurement of sound Insulation in buildings and of building elements – Part 6: Laboratory measurements of impact sound insulation of floors

• ISO 140 – 7

Acoustics – Measurement of sound Insulation in buildings and of building elements – Part 7: Field measurements of impact sound insulation of floors

- ISO 717 2 Acoustics – Rating of sound insulation in building and of building elements – Part 2: Impact sound insulation
- ASTM Classification E 1007 97 Standard Test Method for Field Measurement of Tapping Machine Impact Sound Transmission through Floor-Ceiling Assemblies and Associated Support Structures
- ASTM Classification E 989 89 Standard Classification for Determination of Impact Insulation Class (IIC)



#### APPENDIX B

Test certificates (4)





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Client:			ine Pty	Ltd						<b>Receiving Room Volume:</b> 65 m <sup>3</sup>											
Test Perfo	rmea:	Eric H	uang																		
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m/s Decoria Floor Unit 3/ 3363-3365 PACIFIC HIGHWAY SLACKS CREEK QLD 4127

# **DECOLINE OASIS**

Sample description as provided by customer VINYL PLANK Dimensions 177.8 mm x 1219.2 mm Thickness 5 mm Wear Layer 0.5 mm Order No. James

P172066A

LABORATORY TEST REPORT

TEST METHOD: AS.ISO 9239.1 2003 Reaction To Fire Tests For Floorings Part 1 Determination of the Burning Behaviour Using a Radiant Heat Source. As required by the Building Code of Australia (BCA) and National Construction Code 2015 (NCC) specifications C1.10. Sample conditioning as specified in BS EN 13238.2010.

Sample Submitted Date May 2017

Test Date 12 May 2017

Total Thickness mm

### Assembly System: DIRECT STICK (Details Below).

The floor covering was directly stuck to the substrate using Vinyl adhesive.

Substrate: Non-Combustible - 6mm Fibre Reinforced Cement Board to simulate a Non-Combustible Flooring. The Holding Torque on Specimen Frame was 2Nm.

The standard requires two Initial Tests be conducted on samples mounted in both Length and Width directions. Two further samples are then tested in whichever direction has the lowest Critical Radiant Flux.

Initial Tests:Length Direction Critical Radiant Flux8.9 kW/m²Width Direction Critical Radiant Flux8.9 kW/m²

	Specimen Tests conducted in the Length Direction									
	Specimen #1	Specimen #2	Specimen #3	Mean						
Critical Radiant Flux (kW/m <sup>2</sup> )	8.9	7.8	8.8	8.5						
Smoke Development Rate (%.min)	187	235	203	208						

The values quoted below are as required by BCA and NCC Specification C1.10 Fire Hazard Properties (Floors). The Critical Radiant Flux quoted is the value at Flame-Out/Extinguishment (BCA General Provisions A1.1).

# Mean Critical Radiant Flux 8.5 kW/m<sup>2</sup>

# Mean Smoke Development Rate 208 %.min

Observations: The samples shrunk away from the heat source, ignited and burnt a relatively short distance.

AS.ISO 9239.1 Clause 9(o) The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use. All information required for compliance with the BCA and NCC is given on this test report page.

Page 1 of 2

(v5-0, 11/03/2017)



TECHNICAL Accreditation No. 15393 COMPETENCE Accredited for compliance with ISO/IEC 17025.

APL Australia Pty Ltd 5 Carinish Rd, Oakleigh South Victoria 3167 Australia Telephone: 03 9543 1618 Facsimile: 03 9562 1818 Mobile: 0411 039 088 Email: apl@aplaustralia.com.au Web: www.aplaustralia.com.au ABN 69 468 849 319



LABORATORY TEST REPORTThe information provided on this page of the test report is for the Sponsors Use Only and will meet the requirements of the standard.Page 2 of 2P172066This page is Not Required and has No Validity under Specification C1.10 Fire Hazard Properties (Floors) of the BCA and NCC 2015.<br/>The laboratory does not allow the use of this page of the report without the use of page 1.Page 2 of 2

#### TIME FOR EACH SPECIMEN TO REACH EACH MARKER IN SECONDS

Specimen	50	60	110	160	210	260	310	360	410	460	510	560	610	660	710	760	810	860
1	274	276	304	388	528	1												
2	188	189	283	452	605	859	/											
3	249	251	306	497	642	.7												

TESTS	<b>BURNING CHARAC</b>	TERISTICS	SMOKE PRODUCTION				
Specimen	Burn Length (mm) at Flame Out/ Extinguishment	Time To Burn Out (s)	Maximum Light Attenuation (%)	Smoke Development Rate (%.min)			
Initial Test: Width	230	843	42	219			
Specimen Tests: Length							
1	230	806	44	187			
2	280	1,196	43	235			
3	236	885	41	203			
Mean	249	962	43	208			



2004 04 09 4346 3 July 2017



Telephone: 03 9543 1618 Facsimile: 03 9562 1818 Mobile: 0411 039 088 Email: apl@aplaustralia.com.au Web: www.aplaustralia.com.au ABN 69 468 849 319





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#### **Registered Testing Authority - CSIRO**

23 November 2018

Our Ref. EN13 / 2582 03/0212

### TEST REPORT No. 8180.1

Requested by:	Decoline Pty Ltd 3/3363-3365 Pacific Highway Slacks Creek, QLD 4127
on (date):	6 September 2018
Manufacturer:	
Product Desc.:	Oasis
O a man line of a facility	
Sampling details:	
Where:	At customer premises
Date:	29 October 2018
By whom:	Customer (delivered by courier)
How (methods):	
The results reported relat	e only to the sample(s) tested and the information received. No responsibility is taken for the accuracy of the sampling

The results reported relate only to the sample(s) tested and the information received. No responsibility is taken for the accuracy of the sampling unless it is done under our own supervision. CSIRO cannot accept responsibility for deviations in the manufactured quality and performance of the product. While CSIRO takes care in preparing the reports it provides to clients, it does not warrant that the information in this particular report will be free of errors or omissions or that it will be suitable for the client's purposes. CSIRO will not be responsible for the results of any actions taken by the client or any other person on the basis of the information contained in the report or any opinions expressed in it. The reproduction of this test report is only authorised in the form of a complete photographic facsimile. Our written approval is necessary for any partial reproduction.

This test report consists of 4 pages

	SUMMARY OF SLIP RESISTANCE TESTS PERFORMED:	Result	Class
AS 4586:2013 (Amendment No. 1)	Slip resistance classification of new pedestrian surface materials, Appendix D: OIL-WET INCLINING PLATFORM TEST METHOD Corrected mean overall acceptance angle:	12°	R 10

In order to interpret the classifications, please refer to Standards Australia Handbook 198, An Introductory Guide to the Slip Resistance of Pedestrian Surface Materials, which recommends minimum classifications for a wide variety of locations.

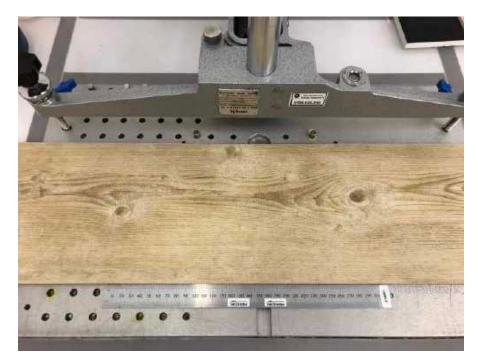
It is important to realise that test results obtained on unused factory-fresh samples may not be directly applicable in service, where proprietary surface coatings, contamination, wear and subsequent cleaning all influence the behaviour of the pedestrian surface.



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PHOTOS:



Top view



Close up



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#### SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

#### **OIL-WET INCLINING PLATFORM TEST METHOD**

TEST CARRIED OUT IN ACCC AS 4586:2013 (Appendix D) (A		Test Date: 23 November 2018	
Location: Slip Resistance L	aboratory Test conducted by: k	KH, DN	
Sample Unfixed			
Joint width: 0 mm			
Surface structure:	[ ] Smooth [X] Profiled [ ] Structured		
RESULTS			
Corrected mean overall acc	ceptance angle: 12 °		
Displacement space:	not tested		
CLASSIFICATION:	Slip Resistance Assessmer	nt Group: R 10	
	Displacement Space Asses	sment Group: -	

Test shoe used: Leipzig V73-SP



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REPORT NO: ISSUE DATE: MANUFACTURER: PRODUCT DESC: 8180.1 23 November 2018 Oasis Page 4 of 4

Date and Place

23 November 2018, Clayton, Vic

Name, Title and Digital Signature:

KHANH HO Technical Officer Tel: 61 3 95452777 Email: Khanh.Ho@csiro.au