



REPORT NUMBER: 1012610163COQ-001f ORIGINAL ISSUE DATE: January 31, 2017

EVALUATION CENTER

Intertek Testing Services NA Ltd. 1500 Brigantine Drive Coquitlam, B.C. V3K 7C1

RENDERED TO

Visound Acoustica SA
Rua Quinta do Bom Retiro
No. 16 Armazem 9
Charneca da Caparica
2820-690 PRT

PRODUCT EVALUATED: Multifuser Wood 36 Fire Rated Acoustic Panels EVALUATION PROPERTY: Surface Burning Characteristics

Report of Multifuser Wood 36 Fire Rated Acoustic Panels for compliance with the applicable requirements of the following criteria: CAN/ULC S102-10, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies

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2 Introduction

Intertek Testing Services NA Ltd. (Intertek) has conducted testing for Visound Acoustica SA, to evaluate the surface burning characteristics of Multifuser Wood 36 Fire Rated Acoustic Panels. Testing was conducted in accordance with the standard methods of CAN/ULC S102-10, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.

This evaluation began January 30, 2017 and was completed the same day.

3 Test Samples

3.1. SAMPLE SELECTION

Samples were submitted to Intertek directly from the client and were not independently selected for testing. The sample panels were received at the Evaluation Center on April 27, 2016.

3.2. SAMPLE AND ASSEMBLY DESCRIPTION

Upon receipt of the samples at the Intertek Coquitlam laboratory they were placed in a conditioning room where they remained in an atmosphere of $23\pm3^{\circ}\text{C}$ (73.4 $\pm5^{\circ}\text{F}$) and $50\pm5\%$ relative humidity.

The sample panels consisted of a 1 ¼ in. to 3 ¾ in. thick wood faced acoustic panel measuring 12 in. wide by 24 in. long and was described by the client as Multifuser Wood 36 Fire Rated Acoustic Panels..

For each test run, twenty four panels were placed end to end on the upper ledge of the flame spread tunnel to form the required 24 ft. sample length. The wood face was oriented towards the flame. A layer of 6 mm reinforced cement board was placed over top of the samples, the tunnel lid was lowered into place, and the samples were then tested in accordance with CAN/ULC S102-10.



4 Testing and Evaluation Methods

4.1. TEST STANDARD

The results of the tests are expressed by indexes, which compare the characteristics of the sample under tests relative to that of select grade red oak flooring and inorganic-cement board.

(A) Flame Spread Index:

This index relates to the rate of progression of a flame along a sample in the 25 foot tunnel. A natural gas flame is applied to the front of the sample at the start of the test and drawn along the sample by a draft kept constant for the duration of the test. An observer notes the progression of the flame front relative to time.

The test apparatus is calibrated such that the flame front for red oak flooring passes out the end of the tunnel in five minutes, thirty seconds (plus or minus 15 seconds).

(B) Smoke Developed:

A photocell is used to measure the amount of light, which is obscured by the smoke passing down the tunnel duct. When the smoke from a burning sample obscures the light beam, the output from the photocell decreases. This decrease with time is recorded and compared to the results obtained for red oak, which is defined to be 100.



5 Testing and Evaluation Results

5.1. RESULTS AND OBSERVATIONS

(A) Flame Spread

The resultant flame spread indexes are as follows: (Index rounded to nearest 5)

Multifuser Wood 36 Fire Rated Acoustic Panels	Flame Spread	Flame Spread Index
Run 1	36	
Run 2	42	40
Run 3	49	

(B) Smoke Developed

The areas beneath the smoke developed curve and the related classifications are as follows: (Classification rounded to nearest 5)

Wavewood Diffuser BC Fire Rated Acoustic Panels	Smoke Developed	Smoked Developed Classification
Run 1	181	
Run 2	98	145
Run 3	153	

(C) Observations

During the tests, the sample surface ignited at approximately 41 to 52 seconds; the flame began to progress along the sample until it reached the maximum flame spread.



6 Conclusion

The samples of Multifuser Wood 36 Fire Rated Acoustic Panels submitted by Visound Acoustica SA., exhibited the following flame spread characteristics when tested in accordance CAN/ULC S102-10, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.

A series of three test runs of each material was conducted to conform to the requirements of the National Building Code of Canada.

Sample Material	Flame Spread Index	Smoke Developed Classification
Multifuser Wood 36 Fire Rated Acoustic Panels	40	145

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

INTERTEK TESTING SERVICES NA LTD.

Tested and Reported by:

Greg Philp
Technician – Building Products Testing

Reviewed by:

Riccardo DeSantis

Manager - Building Products



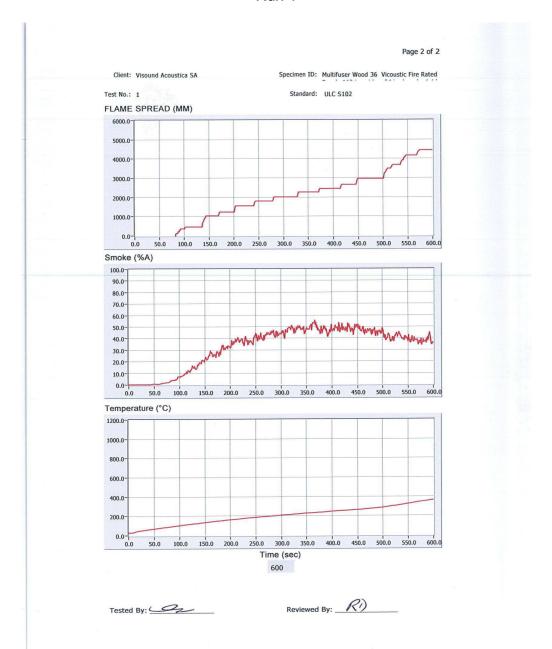
APPENDIX A

DATA SHEETS



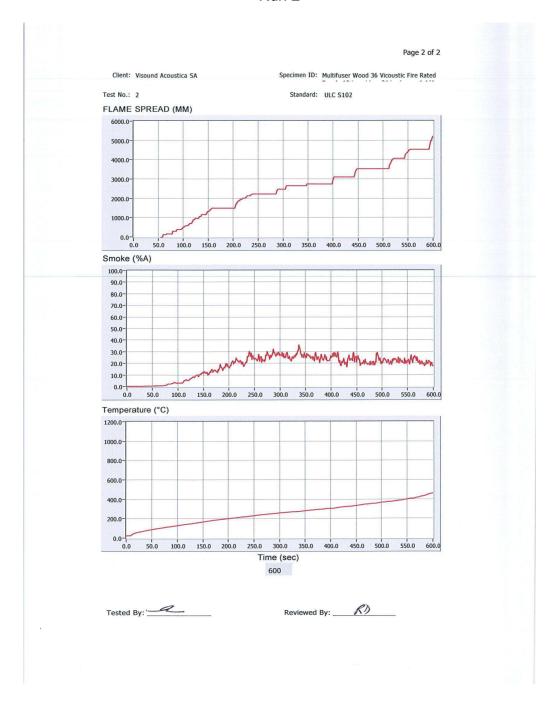
Standard:	ULC S102		Page 1 of 2
Client:	Visound Acoustica SA		
Date:	01 30 2017		
Project Number:	102610163		
Test Number:			
	Greg Philp		
<u> </u>			
Specimen ID:	Multifuser Wood 36 Vicoustic Fire Ra	ited Panels 112 in. wide x 24	in. long by 1
	1/4 in. to 3 3/4 in. thick	RD	
		N.Z	
TEST RESULTS			
	FLAMESPREAD INDEX: 35		
SMO	KE DEVELOPED INDEX: 180		
SPECIMEN DATA			
	Time to Ignition (sec): 52		
	Time to Max FS (sec): 580		
	Maximum FS (mm): 4437.9 Time to 527 C (sec): Never Rea	ched	
Tir	ne to End of Tunnel (sec): Never Rea		
	Max Temperature (C): 362	oned	
Time to	Max Temperature (sec): 600		
	Fuel Burned (cubic feet): 45.97		
	,		
	FS*Time Area (M*min): 19.4		
	Smoke Area (%A*min): 328.5		
	Unrounded FSI: 35.8		
	Unrounded SDI: 181.2		
CALIBRATION DATA			
CALIBRATION DATA	***		
Time to Ignition	of Last Red Oak (Sec): 42.0		
	Smoke Area (%A*min): 181.3		
neu Oak	5	****	





Standard: ULC	S102		Page 1 of 2	
Client: Visound Acoustica SA				
Date: 01 30 2017				
Project Number: 102610163				
Test Number: ²				
Operator: Greg Philp				
operation.				
Specimen ID: Multifuser Wood 36 Vicon in. to 3 3/4 in. thick	ustic Fire Rated Par	nels 12 in. wide x 24	4 in. long x 1 1/4	
TEST RESULTS				
FLAMESPREAD INDEX	K: 40			
SMOKE DEVELOPED INDEX	(: 95			
ODEOIMEN DATA				
SPECIMEN DATA				
Time to Ignition (sec				
Time to Max FS (sec	5			
Maximum FS (mm				
Time to 527 C (sec				
Time to End of Tunnel (sec				
Max Temperature (C				
Time to Max Temperature (sec				
Total Fuel Burned (cubic feet): 46.00			
FOAT' - A (Mt)	-) - 00 0			
FS*Time Area (M*mir				
Smoke Area (%A*mir Unrounded FS				
Unrounded SE				
CALIBRATION DATA				
ONLIBIO (TION BATTALL)				
Time to Ignition of Last Red Oak (Sec	. 42.0			
Red Oak Smoke Area (%A*min): 181.3			
Tested By:		Reviewed By:	RD	
. 55.54 57.				

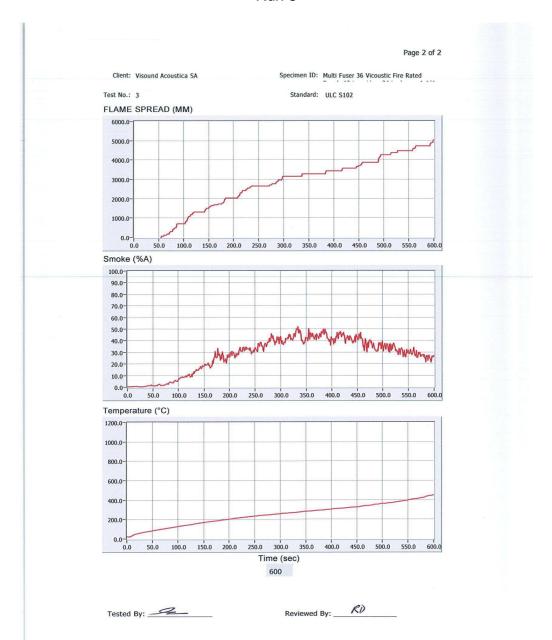






Standard:	ULC S102	Page 1 of	2
Client: Visound	Acoustica SA		
Date: 01 30 2	017		
Project Number: 102610	163		
Test Number: 3			
Operator: Greg Ph	ilp		
Specimen ID: Multi Fu 3 3/4 in.	ser 36 Vicoustic Fire Rated Panels 12 in. wi thick	de x 24 in. long x 1 1/4 in. to	
TEST RESULTS			
FLAME	SPREAD INDEX: 50		
SMOKE DEVI	ELOPED INDEX: 155		
SPECIMEN DATA			
	to Ignition (sec): 41		
	to Max FS (sec): 598 ximum FS (mm): 4872.3		
	e to 527 C (sec): Never Reached		
	d of Tunnel (sec): Never Reached		
	Temperature (C): 450		
	mperature (sec): 600		
	rned (cubic feet): 46.07		
EC*Tir	ne Area (M*min): 26.3		
	e Area (%A*min): 277.9		
	Unrounded FSI: 48.6		
	Unrounded SDI: 153.3		
CALIBRATION DATA			
Time to Ignition of Last	Red Oak (Sec): 42.0		
Red Oak Smoke	Area (%A*min): 181.3		
Tested By:	Revie	wed By:	







REVISION SUMMARY

DATE	PAGE(S)	SUMMARY
January 31, 2017	All	Original Issue Date

