

April 26, 2006



ATTN: Nixie Kriel  
Intertek ETL SEMKO  
1500 Brigantine Street  
Coquitlam BC V3K 7C1  
Canada



Subject: Intertek Letter Report Number 3092430-001  
Vancouver Project Number 3092207 (Middleton Project Number 3092430) - Novik



The Middleton, Wisconsin fire testing laboratory of Intertek Testing Services NA (Intertek)/Warnock Hersey conducted ASTM E108 tests of a simulated slate roof covering material provided by Novik on March 10 – April 19, 2006. Following is a summary of the tests. A formal report will be forwarded after the complete series of tests has been completed.



**Intertek Testing Services NA, Inc.**  
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Letter Report #3092430-001, 3/10-4/19/2006

## Test Deck #5 – Intermittent Flame (Class C)

### Test Conditions

Test Date	3/31/2006
Air Velocity	1056 +/-44 fpm
Ambient Air Temperature	NA
Slope of Test Deck	5:12
Surface Material	Simulated Slate (PPFR)
Underlayment	30# Felt

### Test Observations

Cycle		Time To:		Observations/Comments (Include Off Cycles)
No.	Min.	Ignition (min : sec)	Flame Out (min : sec)	
1	Start			00:42 – Slates bending upward.
2	3			Slates continue to melt, no flaming.
3	6	06:20		06:20 – Small flame at the center of the top surface. 15:00 – Approximately 6” area of flames at the center of the top surface. 16:43 – Light smoke at the joint of the underside of the deck. 23:35 – Discoloration of the underside of the deck. 37:00 – No flaming of the underside of the deck. 57:00 – Glowing embers developing at the joint of the underside of the deck. 60:00 – End of test, no flaming of the underside of the deck.

Acceptance Level: Class “C” – No flaming of the underside of the deck.

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## Test Deck #6 – Spread of Flame (Class C)

### Test Conditions

Test Date	3/31/2006
Air Velocity	1056 +/-44 fpm
Ambient Air Temperature	61°F
Slope of Test Deck	5:12
Surface Material	Simulated Slate (PPFR)
Underlayment	30# Felt

### Test Observations

TIME (min:sec)	DISTANCE (feet-inches)	OBSERVATIONS/COMMENTS
00:00		Burner ignited.
01:30		Attached flame.
01:32	1'	
02:06	2'	
02:41	3'	
03:00		Flame front continues to move up slope.
03:16	4'	
04:00	4' 6"	Gas turned off, end of test.

Acceptance Level: Class "C" – Flame spread less than 13'.

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## Test Deck #9 – Burning Brand (Class C) – Spaced Deck

Test Date	4/12/2006
Air Velocity	1056 +/-44 fpm
Ambient Air Temperature	72°F
Brand Type	Class C
Slope of Test Deck	5:12 Inches
Surface Material	Simulated Slate (PPFR)
Underlayment	Soprema Lastobond

BRAND#	TIME (min:sec)	OBSERVATIONS
1	00:00	Brand 1 placed on deck.
2	01:02	Brand 2 placed on deck.
3	01:59	Brand 3 placed on deck.
	03:00	Underlayment material melting beneath the brand locations.
4	03:15	Brand 4 placed on deck.
5	04:11	Brand 5 placed on deck.
6	04:58	Brand 6 placed on deck.
7	05:57	Brand 7 placed on deck.
8	07:40	Brand 8 placed on deck.
9	08:40	Brand 9 placed on deck.
10	10:00	Brand 10 placed on deck.
11	10:56	Brand 11 placed on deck.
12	12:05	Brand 12 placed on deck.
13	13:03	Brand 13 placed on deck.
14	14:05	Brand 14 placed on deck.
15	15:05	Brand 15 placed on deck.
16	16:07	Brand 16 placed on deck.
17	16:55	Brand 17 placed on deck.
18	18:00	Brand 18 placed on deck.
19	19:03	Brand 19 placed on deck.
20	20:00	Brand 20 placed on deck.
	45:00	No smoking or flaming of the top surface.
	60:00	No smoking or flaming of the top surface. Top surface of the deck cool to the touch.
	75:00	End of test, no smoke for 30 minutes.

Acceptance Level: Class "C" – No flaming of the underside of the deck.