

TEST DATES:
JANUARY 25, 2005
FEBRUARY 1, 2005

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FEBRUARY 4, 2005

INTERTEK TEST REPORT NO. 3071368

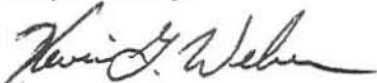
SPREAD OF FLAME, BURNING BRAND, AND INTERMITTENT FLAME TESTS
ON

PLASTIC SLATE ROOF TILE SHINGLES
CLASS "C" APPLICATION

FOR:

NEW GROUP ASIA CONSTRUCTION MATERIAL SUPPLY, INC.
2316 TIMBER SHADOWS
SUITE 208
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INTRODUCTION

Intertek Testing Services NA (Intertek) Fire Testing Laboratory in Middleton, Wisconsin conducted an investigation of the external fire resistance characteristics of Plastic Slate Roof Tile Shingles as a roof covering system for a class "C" application.

The tests were conducted in accordance with the criteria in ASTM E108 (2004) "*Standard Test Methods for Fire Tests of Roof Coverings*", UL 790 (1997), and UBC 15-2 (1997). The test results described in this report are limited to the submitted items.

DESCRIPTION OF MATERIAL AND ROOF COVERING SYSTEM

The plywood decks were constructed by Intertek employees at the Middleton, WI laboratory and the samples were supplied by the client through the Intertek laboratory in Mississauga, Ontario.

TEST ASSEMBLY CONSTRUCTION

1. The plywood decks were constructed by Intertek employees according to the specifications of the test standard ASTM E108 (2004) "*Standard Test Methods for Fire Tests of Roof Coverings*".
2. The test material was submitted by the client through the Intertek laboratory in Mississauga, Ontario.
3. The test materials were applied by Intertek employees per the installation instructions of the manufacturer.

SPREAD OF FLAME TESTSTEST DECK 1 – SPREAD OF FLAME:Test Conditions

Test Date: 1/25/2005
Ambient Air Temperature: 69°F
Air Velocity: 1056 +/-44 fpm
Slope of Test Decks: 5:12 inches

Test Observations

TIME (min:sec)	DISTANCE (feet-inches)	OBSERVATIONS
02:20		Attached Flame.
02:39	1'	
02:45	2'	
02:58	3'	
03:12	4'	
03:30	5'	
03:55	6'	
04:00		Gas Turned off, end of test.
	7'	

Acceptance Level: Class "C". Maximum flame spread = 5' 11". Flame spread less than 13' allowed by the standard.

TEST DECK 2 – SPREAD OF FLAME:

Test Conditions

Test Date: 1/25/2005
Ambient Air Temperature: 70°F
Air Velocity: 1056 +/-44 fpm
Slope of Test Decks: 5:12 inches

Test Observations

TIME (min:sec)	DISTANCE (feet-inches)	OBSERVATIONS
03:10		Attached Flame.
03:20	1'	
03:52	2'	
03:59	3'	
04:00		Gas Turned off, end of test.

Acceptance Level: Class "C". Maximum flame spread = 3' 3". Flame spread less than 13' allowed by the standard.

INTERMITTENT FLAME TESTSTEST DECK 3 – INTERMITTENT FLAME:Test Conditions

Test Date: 1/25/2005
Ambient Air Temperature: 65°F
Air Velocity: 1056 +/-44 fpm
Slope of Test Decks: 5:12 inches

Test Observations

Cycle		Time To:		Observations/Comments
No.	Min.	Ignition Min:Sec	Flame Out Min:Sec	
1	0			No ignition of the surface/ no smoke.
2	3			Smoke from the top surface at 4:10. Smoke stopped at 4:50.
3	6			No ignition of the surface. Smoke from the top surface at 7:10, smoke stopped at 7:50.

Acceptance Level: Class "C". There was no burning or flaming of the underside of the deck.

TEST DECK 4 – INTERMITTENT FLAME:Test Conditions

Test Date: 1/25/2005
Ambient Air Temperature: 65°F
Air Velocity: 1056 +/-44 fpm
Slope of Test Decks: 5:12 inches

Test Observations

Cycle		Time To:		Observations/Comments
No.	Min.	Ignition Min:Sec	Flame Out Min:Sec	
1	0			No ignition of the surface/ no smoke.
2	3			Light smoke from the top surface at 4:10.
3	6			No ignition of the surface. Smoke from the top surface at 7:10, smoke stopped at 7:25.

Acceptance Level: Class "C". There was no burning or flaming of the underside of the deck.

BURNING BRAND TESTS

TEST DECK 5 – BURNING BRAND:

Test Conditions

Test Date: 2/1/2005
Ambient Air Temperature: 63°F
Air Velocity: 1056 +/-44 fpm
Slope of Test Decks: 5:12 inches

Test Observations

At the conclusion of the Burning Brand Test there was no penetrations or burning of the underside of the deck at any of the 20 burning brand locations.

Acceptance Level: Class "C". There was no penetration or burning of the underside of the deck.

TEST DECK 6 – BURNING BRAND:

Test Conditions

Test Date: 2/1/2005
Ambient Air Temperature: 62°F
Air Velocity: 1056 +/-44 fpm
Slope of Test Decks: 5:12 inches

Test Observations

At the conclusion of the Burning Brand Test there was no penetrations or burning of the underside of the deck at any of the 20 burning brand locations.

Acceptance Level: Class "C". There was no penetration or burning of the underside of the deck.

CONCLUSION

The Plastic Slate Roof Tile Shingles as a roof covering system, as described herein, complied with the acceptance criteria of ASTM E108 (2004) "*Standard Test Methods for Fire Tests of Roof Coverings*", UL 790 (1997), and UBC 15-2 (1997) for a "Class C" rating.

This report does not automatically imply product certification. Products must bear the Warnock Hersey registered certification mark to demonstrate compliance.