

September 29, 2006

Dr. Dick Stevens  
CIM Industries, Inc.  
23 Elm St  
Peterborough, NH 03458

Our Reference: NC9218/06CA41705

Subject: Report Of Roof Coverings Fire Tests On Samples As Submitted By CIM Industries, Inc.

Dear Dr. Stevens

This is a Report summarizing the results of tests conducted under the Commercial Inspection and Testing Services (CITS) program identified as Assignment No. 06CA41705.

#### GENERAL:

The results relate only to items tested. The test results indicated in this report are not intended to imply Listing, Classification or other Recognition of the product.

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#### METHOD:

Class A fire tests were conducted on the above samples. These tests were conducted in accordance with the test standard ANSI/UL 790, eighth edition, dated April 22, 2004, "Tests for Fire Resistance of Roof Covering Materials,"

The spread of flame tests described in this Report is intended to determine the lateral wind-aided flame spread across the test assembly. In this test the temperature of the test flame as measured by a No. 14 gauge chrome-alumel wire thermocouple located as described in ANSI/UL Standard 790, was found to be  $1400 \pm 50$  °F. The physical appearance of the test flame when the test apparatus was calibrated for flame temperature, was generally triangular in shape, being about 3 ft wide at the deck's leading edge and gradually narrowing to a width of



approximately 6 in. at the top of the 52 in. long calibration deck, with licks of flame extending approximately another 1 ft.

The wind velocity required by ANSI/UL 790 was determined by taking readings on a smooth deck (40 in. wide and 52 in. long) midway up the deck at the center and 3 in. from each vertical edge with a vane type anemometer and timer. The velocity measured at an incline of 5 in./ft was found to be 1050 ±50 ft/min (12 ± 1/2 mi./h) with the carriage in position.

The maximum distance the flame travels along the length of the sample from the end of the igniting flame is determined by observation

#### SAMPLES:

The coatings utilized in this investigation were neither prepared nor selected by a Laboratories' representative such that no verification of composition can be provided.

SYSTEM #	DESCRIPTION OF SYSTEM
1	Barrier Board: 1/4 in. G-P Gypsum Corp. "Dens-Deck" Surfacing: C.I.M. 2000, 60 mils

#### RESULTS:

The results tabulated below are considered applicable only to the specific sample tested.

#### SPREAD OF FLAME TEST

Test Code	System No.	Class	Slope of deck (in/ft)	Maximum Flame Spread (ft)	Exposure of roof deck (Yes/No)
08280603	1	A	1/2	4.5	No

At no time during these tests were any flying flaming brands of the roof covering material produced or did exposure of the roof deck occur. Also, there was no significant lateral spread of flame from the path directly exposed to the test flame.

This single trial meet the Class A Spread of Flame requirements specified in UL 790.

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Information conveyed by this Report applies only to the specimens actually involved in these tests. UL has not established a factory Follow-Up Service Program to determine the conformance of subsequently produced material, nor has any provision been made to apply any registered mark of UL to such material.

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Should you have any questions, please contact the undersigned.

Very truly yours,

Reviewed by:

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