Test Report No: 676900-01    Date: August 29, 2006

The following sample was submitted by the Client as: 1 mm Palsun

DATE OF RECEIPT:        July 6, 2006

TESTING PERIOD:          August 17, 2006

AUTHORIZATION:           Order Confirmation Number 676900, dated July 27, 2006

TEST REQUESTED:          The submitted sample was tested for Surface Burning Characteristics in accordance with the procedures outlined in ASTM E84-05.

TEST RESULTS:            Continued on the following pages

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Page 1 of 3
RESULTS:

INTRODUCTION:

This report presents test results of Flame Spread and Smoke Developed Values per ASTM E-84-05. The report also includes Material Identification, Method of Preparation, Mounting and Conditioning of the specimens.

The tests were performed in accordance with the specifications set forth in ASTM E-84-05, Standard Test Method for Surface Burning Characteristics of Building Materials, both as to equipment and test procedure. This test procedure is similar to UL-723, ANSI No. 2.5, NFPA No. 255 and UBC 42-1.

The test results cover two parameters: Flame Spread and Smoke Developed Values during a 10-minute fire exposure. Inorganic cement board and red oak flooring are used as comparative standards and their responses are assigned arbitrary values of 0 and 100, respectively.

PREPARATION AND CONDITIONING:

Six sheets of sample, supplied by the client was placed onto screen and rods for support and then placed into the fire chamber end to end to form a 21 inch wide X 24 foot long specimen for testing. Inorganic cement boards were placed over the sample prior to testing as a means of protecting the interior of the tunnel lid.

The sample was conditioned at 73° ±5°Fahrenheit and 50 ±5% relative humidity.

TEST PROCEDURE:

The tunnel was thoroughly pre-heated by burning natural gas. When the brick temperature, sensed by a floor thermocouple, had reached the prescribed 105° Fahrenheit ±5° Fahrenheit level, the sample was inserted in the tunnel and test conducted in accordance with the standard ASTM E-84-05 procedures.

The operation of the tunnel was checked by performing a 10-minute test with inorganic board on the day of the test.
RESULTS:

TEST RESULTS:

The test results, calculated in accordance with ASTM E-84-05 for Flame Spread and Smoke Developed Values are as follows:

- Test Specimen: 1 mm Palsun
- Flame Spread Index*: 15
- Smoke Developed Value*: 235

*Rounded off to the nearest 5 units. Graphs of the Flame Spread, Smoke Developed and Time-Temperature are shown on the attached charts at the end of this report.

OBSERVATIONS:

Ignition occurred at 25-seconds. The following observations were noted:

- Charring
- Flaming Dripping
- Melting
- Warping
- Dripping
- Floor Burning

RATING:


The classifications are as follows:

- Class A Interior Wall & Ceiling Finish:
  - Flame Spread: 0-25
  - Smoke Developed: 0-450

- Class B Interior Wall & Ceiling Finish:
  - Flame Spread: 26-75
  - Smoke Developed: 0-450

- Class C Interior Wall & Ceiling Finish:
  - Flame Spread: 76-200
  - Smoke Developed: 0-450

Since the sample received a Flame Spread of 15 and a Smoke Developed Value of 235, it would meet the parameters for a Class A Interior Wall & Ceiling Finish Category.

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End of Report
Flame Spread Chart

- Test Sample
- Red Oak
- FSI Line

Fire Spread Distance (Feet) vs. Time (Minutes)