SGS U.S. Testing Company Inc.

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CLIENT: Contego Global Holdings
15205 E 200 S
Akron, IN 46910

Test Report No:	**150747-2-R1**	**Date:**	**February 23, 2001**

The following samples were submitted by the Client as:

Rated Class 1 Polyurethane Foam Insulation Coated with Pyrologistix Intumescent Paint

DATE OF RECEIPT: January 4, 2001

TESTING PERIOD: January 17, 2001

AUTHORIZATION: Client's Purchase Order Number 2001-001.

TESTS REQUESTED: The submitted sample was tested for Flammability in accordance with the procedures outlined in ASTM E-84-98.

PREPARED BY:

Mark Ostrovsky, Technician
Fire Technology
lv

SIGNED FOR AND ON BEHALF OF SGS U.S. TESTING COMPANY INC.

Dominick Lepore, Manager
Fire Technology

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INTRODUCTION:

This report presents test results of Flame Spread and Smoke Developed Values per ASTM E-84-98. 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-84-98, 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:

Sections of the material were arranged to form a 24" x 24'0" sample. The sample was laid on a 2-inch galvanized hexagonal wire mesh, supported by steel rods spanning the width of the tunnel.

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-84-98 procedures.

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

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TEST RESULTS:

The test results, calculated in accordance with ASTM E-84-98 for Flame Spread and Smoke Developed Values are as follows:

Test Specimen	:	Rated Class 1 Polyurethane Foam Insulation Coated with Pyrologistix Intumescent Paint
Flame Spread Index*	:	20
Smoke Developed Value*	:	435

*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 was noted after 23 seconds followed by charring and melting of the specimen directly exposed to the flame. Also observed was dripping as the flamefront advanced 5.0 feet after 5.00 minutes. Significant afterburn was evident upon test completion.

After an additional 15 minute burn, the sample showed no evidence of significant progressive combustion. The flamefront did progress to 6.0 feet at 13 minutes and showed no further progression.

RATING:

The National Fire Protection Association Life Safety Code 101, Section 6-5.3, "Interior Wall and Ceiling Finish Classification", has a means of classifying materials with respect to Flame Spread and Smoke Developed when tested in accordance with NFPA 255, "Method of Test of Surface Burning Characteristics of Building Materials", (ASTM E-84).

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 20 and a Smoke Developed Value of 435, it would fall into the Class A Interior Wall & Ceiling Finish Category.

****End of Report****