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**CLIENT: STRUCTUS BUILDING TECHNOLOGIES, INC.**

P.O. Box 5937  
Bend, OR 97708  
Bill Scannell

**167199**

**April 25, 2002**

**SAMPLE ID:** The Client submitted and identified the following test materials as No-Coat Structural Drywall Corners applied to 1/2" gypsum board corners.

**DATE OF RECEIPT:** Entered into SGS USTC sample tracking system on February 7, 2002 as STN 34399.

**TESTING PERIOD:** April 17, 2002.

**AUTHORIZATION:** Testing authorized by Bill Scannell.

**TEST REQUESTED:** Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-01, "Standard Method of Test for Surface Burning Characteristics of Building Materials". The foregoing test procedure is comparable to UL 723, ANSI/NFPA No. 255, and UBC No. 8-1.

**TEST RESULTS:**                      Flame Spread                      Smoke Density

5

100

For detailed results see page 3.

**Tested by**

Brian Ortega  
Test Technician

**Signed for and on behalf of  
SGS U.S. Testing Company Inc.**

Greg Banasky  
Supervisor Fire Technology

Date: April 25, 2002

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**PREPARATION AND CONDITIONING:** The sample material was submitted in corner shaped pieces, with 2 ¼" legs and a length of 96". The pieces were applied to 1/2" gypsum board corners with drywall mud. Three of these corner pieces were placed parallel to the centerline of each burner. Six of these corners were used as the specimen. The pieces were supported during testing by 2" hexagonal mesh poultry netting running the length of the test chamber and ¼" round metal rods placed at two foot intervals across the width of the test chamber.

Prior to testing, the specimen was placed in the conditioning room (maintained at 73.4 ± 5° F and a relative humidity of 50 ± 5%) and allowed to reach moisture equilibrium.

**SUMMARY OF ASTM E84 RESULTS:** Because of the possible variations in reproducibility, the results are adjusted to the nearest figure divisible by 5.

<u>SAMPLE IDENTIFICATION</u>	<u>FLAME SPREAD</u>	<u>SMOKE DENSITY</u>
No-Coat Structural. Drywall Corners applied to 1/2" gypsum board corners	5	100

In order to obtain the Flame Spread Classification, the above results should be compared to the following table:

<u>NFPA CLASS</u>	<u>UBC CLASS</u>	<u>FLAME SPREAD</u>
A	I	0 through 25
B	II	26 through 75
C	III	76 through 200

**BUILDING CODES CITED:**

1. National Fire Protection Association, ANSI/NFPA No. 101, "Life Safety Code", 1994 Edition.
2. Uniform Building Code, 1994 Edition, Chapter 8, Interior Finishes, Sections 801-807.

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**E 84 TEST DATA SHEET:**

**CLIENT:** Drywall Systems International **DATE:** 8/2/00

**SAMPLE:** No-Coat Structural Drywall Corners applied to 1/2" gypsum board corners

**FLAME SPREAD:**

**IGNITION:** 1 minute, 52 seconds

**FLAME FRONT:** 1.5 feet maximum

**TIME TO MAXIMUM SPREAD:** 6 minutes, 27 seconds

**TEST DURATION:** 10 minutes

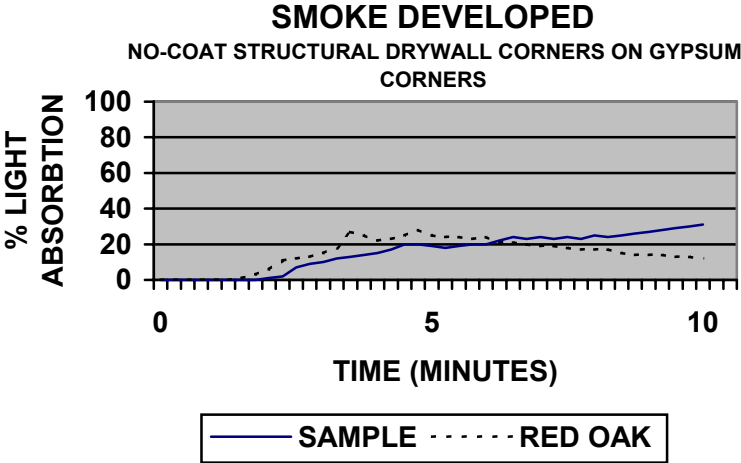
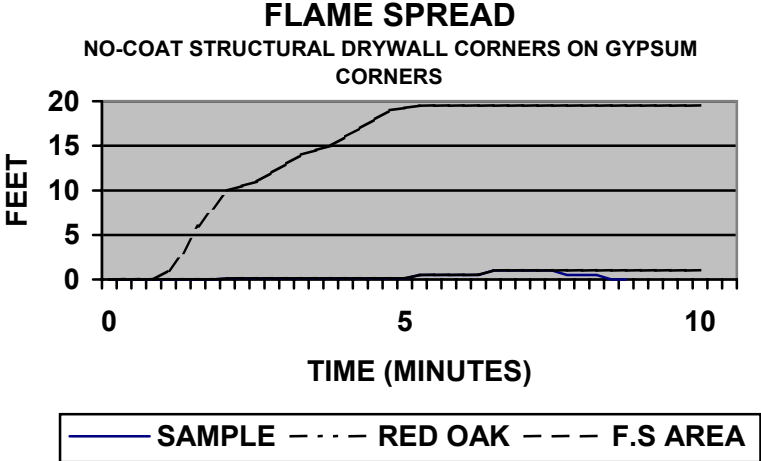
**CALCULATION:**  $5.28 \times 0.515 = 2.72$

**SUMMARY:** FLAME SPREAD: 5 SMOKE DENSITY: 100

**OBSERVATIONS:** Sample surface ignition occurred at 1 minute, 52 seconds. A maximum flame front advance of 1.5 feet was observed at 6 minutes, 27 seconds.

167199

Date: April 25, 2002



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End of Report