

TESTING GROUP www.bodycote.com www.bodycotetesting.com

ASTM E 84 Surface Burning Characteristics of "Flamant" Wallcover

A Report To: Arte NV

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Submitted by: **Fire Testing**

Report No.

4 Pages

09-002-186(A)

Date: March 25, 2009

Bodycote Testing Group

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For:

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ACCREDITATION Standards Council of Canada, Registration #1

SPECIFICATIONS OF ORDER

accordance with ASTM E 84-08a, as per our Quotation No. 09-002-1599 RV1 dated February 27, 2009 Determine the Flame Spread and Smoke Developed Indices based upon a single test conducted in

SAMPLE IDENTIFICATION

(Bodycote sample identification number 09-002-S0186-1)

Wallcover material identified as "Flamant"

TEST PROCEDURE

and Smoke Developed (SD). of materials under specific test conditions. Results are expressed in terms of Flame Spread Index (FSI) Characteristics of Building Materials", is designed to determine the relative surface burning characteristics The method, designated as ASTM E 84-08a, "Standard Method of Test for Surface Burning

development of comparative surface spread of flame data, the test results may not reflect the relative surface burning characteristics of tested materials under all building fire conditions. Although the procedure is applicable to materials, products and assemblies used in building construction for

SAMPLE PREPARATION

The sample consisted of 3 sections of material, each approximately 21 inches in width by 96 inches adhesive. Prior to testing, the sample was conditioned at a temperature of $73 \pm 5^{\circ}F$ and a relative humidity of $50 \pm 5\%$ in length, adhered to a 6 mm thick, fiberglass reinforced cement board substrate with Shurstik 111

The testing was performed on: 2009-03-19

SUMMARY OF TEST PROCEDURE

downstream of the burner ports, and allowed to cool to 105°F, as measured by the floor-embedded along the ledges of the tunnel so as to form a continuous ceiling 24 feet long, 12 inches above the floor. thermocouple located 13 feet from the burners. At this time the tunnel lid is raised and the test sample is placed is then lowered into place The tunnel is preheated to 150°F, as measured by the floor-embedded thermocouple located 23.25 feet

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SUMMARY OF TEST PROCEDURE (c)

(continued)

preinforced cement board and red oak, arbitrarily established as 0 and 100, respectively. is determined by comparing the area under the obscuration curve for the test sample to that of inorganic curve (A) is less than or equal to 97.5 min·ft, FSI = 0.515·A; if greater, FSI = 4900/(195-A). Smoke Developed and arbitrarily established as 100. If the area under the curve (A) is less than or equal to 29.7 m·min, on comparison with flame spread characteristics of select red oak, determined in calibration trials Flame spread distance versus time is plotted, ignoring any flame front recessions. Calculations are based Upon ignition of the gas burners, the flame spread distance is observed and recorded every 15 seconds

TEST RESULTS

"Flamant"	SAMPLE
10	FSI
20	SD

Observations of Burning Characteristics

- The sample began to ignite immediately upon exposure to the test flame
- receded to the baseline by approximately 4 minutes The flame front propagated to a maximum distance of 1.5 feet at approximately 1.5 minutes and
- Smoke Developed was recorded during the test (see accompanying chart).

Authorities having jurisdiction usually refer to these categories:

450 Maximum	76 - 200	Class 3 or C
450 Maximum	26 - 75	Class 2 or B
450 Maximum	0 - 25	Class 1 or A
Smoke Developmer	Flame-Spread Index	

Robert A. Carleton, Fire Testing.

Ian Smith,

Fire Testing.

Note: This report consists of 4 pages, including the cover page, that comprise the report "body". It should be considered incomplete if all pages are not present.

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