



Received:02/16/2016 Completed:02/23/2016 Letter: S RW P.O.#: Test Report #: 3-11799-0-

Client's Identification Product Description: Europost.

Tested For: Bente Ellingsoe, Quality Department Key Test: NFPA 286 (BLDG) 3250
 Gabriel A/S
 Hjulmagervej 55 Tel: 011-45-9630-3100 Ext:
 DK-9000 Aalborg, Denmark Fax: 011-45-9811-6125

Category: Room Corner BLDG: V 03/15 PC: 7 days /jd
 NFPA 286: LE: 2015; V 03/15; NE 2019

APPROXIMATE THICKNESS OF SUBMITTED MATERIAL (as measured by Govmark): 0.101"

TEST PERFORMED: NFPA 286 - Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth

BRIEF DESCRIPTION OF TEST: The test is conducted in an 8 ft. high fire room. The test panels cover three of the fire room walls. A square gas burner located at the bottom of the corner offers an open flame ignition exposure of 40 kW for a period of 5 minutes, and 160 kW for a period of 10 minutes. Test observations are made. Video is recorded and included with original test report.

TIME FROM CONDITIONING ROOM TO START OF TEST: 10 minutes

CATEGORY:	RESULTS:
40 kW Exposure	

Flame Height:	6 ft 6 in at (mm:ss) 01:50
160 kW Exposure	

(a) Peak Rate of Heat Release: [includes 160 kW Exposure]	360 kW
(b) Time to Reach Peak:	392 seconds
(c) Total Heat Release --	
5 minutes:	18.6 MJ
10 minutes:	90.9 MJ
15 minutes:	150.1 MJ
(d) Peak Rate of Smoke Release:	0 m ² /s
(e) Time to Reach Peak:	391 seconds
(f) Total Smoke Released --	109.2 m ²



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CATEGORY: RESULTS:

160 kW Exposure (continued):

(g) Peak Temperature Readings --
 Room midpoint: 566°F; 297°C
 Quadrant #1: 794°F; 423°C
 Quadrant #2: 486°F; 252°C
 Quadrant #3: 477°F; 247°C
 Quadrant #4: 472°F; 244°C
 AVERAGE: 559°F; 293°C

(h) Peak Carbon Monoxide Reading: 215 ppm
 (i) Peak Carbon Dioxide Reading: 1 ppm
 (j) Peak Heat Flux at Floor Level: 1.7 kW/m²
 (k) Ignition of Paper Monitors on Floor: [] Yes; [x] No
 (l) Lateral Flame Spread --
 8 ft. Wall: 5 ft 3 in
 Near 12 ft. Wall: 5 ft 6 in
 Far 12 ft. Wall: 0 ft 0 in
 (m) Flames Exit Doorway: [] Yes; [x] No
 (n) Flaming Droplets are not factored into the Failure Criteria;
 however, they are reported as an observation:
 (1) Flaming Droplets are observed: [x] Yes; [] No
 (2) A fire pool forms beneath the test item: [x] Yes; [] No
 (3) If a fire pool occurs, the level of
 intensity is described as: [] Minor; [x] Moderate; [] Intense

(o) OBSERVATIONS:

Note: Parentheses () are used to indicate a result that represents a flashover value.

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FLASHOVER CRITERIA: Flashover is determined to have occurred when any two of the following conditions have been attained:

- (1) The heat release rate exceeds 1 MW (1,000 kW)
- (2) Heat flux at the floor exceeds 20 kW/m²
- (3) The average upper layer temperature exceeds 600°C (1112°F)
- (4) Flames exit the doorway
- (5) Autoignition of a paper target on the floor occurs

ACCEPTANCE CRITERIA - As cited by:

- (A) The 2015 Edition of NFPA 101 Life Safety Code, para. 10.2.3.7.2;
- (B) The 2015 Edition of NFPA 5000 Building Construction and Safety Code, para. 10.4.5.2;
- (C) The 2015 Edition, International Building Code, para. 803.1.2

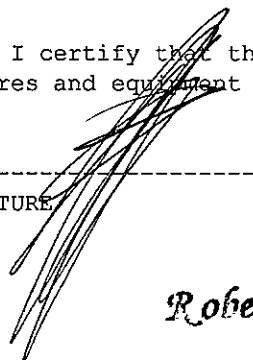
- (1) During the 40 kW exposure, flames shall not spread to the ceiling.
- (2) The flame shall not spread to the outer extremity of the sample on any wall or ceiling.
- (3) Flashover shall not occur.
- (4) The Peak Heat Release Rate throughout the test shall not exceed 800 kW.
- (5) The Total Smoke Released throughout the test shall not exceed 1,000 m².

CONCLUSION: Based on the above Results and Acceptance Criteria, the item tested:

Passes; Fails

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by NFPA 286.

 AUTHORIZED SIGNATURE
 GOVMARK
 /pm /tm



Robert I. Brown

Test Technician: Robert Warren

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FEB 23 2016