

Received: 07/10/2012 | Completed: 07/12/2012 | Letter: Q | rb | P.O.#: | Test Report #: 2-92962-0-

**Client's Identification** Flexible Polyurethane Foam 2.8 Pound Density, 50 ILD, Light Blue Color and Treated to be Fire Retarded. End Use of Product: Padded Floor Covering.

**Tested For: Carlo Badalamenti** **Key Test: ASTM E 648 (BLDG)** 645  
 Foam Factory Inc  
 22800 Hall Road **Tel: 1-(586)-627-3626** **Ext:**  
 Clinton Twp, MI 48036 **Fax: 1-(586)-627-5830**

BLDG: V 4/09 PC: 48H or 96H /jd

APPROXIMATE THICKNESS OF MATERIAL (as measured by Govmark): 4.0"

TEST PERFORMED: ASTM E 648 - Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source (NFPA Designation No. 253)

**SPECIMEN PREPARATION:**

- Each specimen was laid flat over a 1/4" Etera board (a cement asbestos substitute). No bonding agent was used. [PC: 48H]
- Each specimen was bonded to a 1/4" Etera board (a cement asbestos substitute) using \_\_\_\_\_. [PC: 96H]
- Each specimen, with self adhesive backing, was bonded to a 1/4" Etera board (a cement asbestos substitute) [PC: 96H]
- Each specimen was placed over a rubber coated jute and animal hair 50 oz/yd<sup>2</sup> cushioning material [PC: 48H]
- Other: Tested as received foam; no substrate

**RESULTS:**

Specimen #	Furthest Progression of Flame Front		Critical Radiant Flux (watts/cm <sup>2</sup> )	Time to Extinguishment (mm:ss)
	(inches)	(cm)		
1	195	49.53	0.40	07:40
2	175	44.45	0.47	02:21
3	240	60.96	0.27	07:02
Avg:			0.38	

Standard Deviation: 0.10

**CODE CLASSIFICATION -- As cited by:**

- (1) The 2009 Edition of NFPA 101 Life Safety Code paragraph, 10.2.7.4
- (2) The 2009 Edition of NFPA 5000 Building Construction & Safety Code, paragraph 10.6.4
- (3) The 2012 Edition of the International Building Code, paragraph 804.2

Class I: Minimum 0.45 watts/cm<sup>2</sup>  
 Class II: Minimum 0.22 watts/cm<sup>2</sup>

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<b>Tested For: Carlo Badalamenti</b>	Foam Factory Inc 22800 Hall Road Clinton Twp, MI 48036			<b>Key Test: ASTM E 648 (BLDG)</b>		645
				<b>Tel: 1-(586)-627-3626</b>	<b>Ext:</b>	
				<b>Fax: 1-(586)-627-5830</b>		

OBSERVATIONS (of burning characteristics):

All Specimens  
 Specimen #'s \_\_\_\_\_

Premature ignition during the 5 min preheat:  
 At approximately \_\_\_\_ minutes \_\_\_\_ seconds

Penetration of the flame through the foam thickness for the first approximate  
 6 inches of length

Delamination

Blistering

Melting

Sagging

Shrinkage

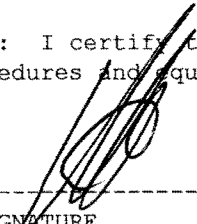
OTHER: Describe \_\_\_\_\_

REMARKS: None.

CONCLUSION: Based on the above Results and Code Classification, the item tested is assigned a:

Class I rating;  Class II rating;  Not Rated

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by ASTM E 648 (NFPA Designation No. 253).



*Robert I. Brown*

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 AUTHORIZED SIGNATURE  
 THE GOVMARK ORGANIZATION, INC. /jlb

JUL 18 2012