

Factory Mutual Research

1151 Boston-Providence Turnpike
Norwood, Massachusetts 02062

1H600.AC
(4820)

Exploratory Evaluation
By
ASTM E-84 (81a) Fire Test Method
On
Panel Fabric Material

for

ABSECON MILLS, INC.

PO BOX 672
Cologne, NJ 08213

I INTRODUCTION

Absecon Mills, Incorp. submitted a sample, which they designated as Marquessa Lana Panel Fabric material, for an evaluation per ASTM E-84 (81a) Fire Test Method.

The material tested is not manufactured under the Factory Mutual follow up inspection and re-exam program; therefore, the manufacturer cannot use the Factory Mutual name for marking or advertising the material.

The product is not approved, except where separately listed in the Factory Mutual Approval Guide for specific end-use application.

II TEST METHOD

Tests were conducted in accordance with the Standard Method of Test for "SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS," ASTM Designation E-84 (81a). The results yield Flame Spread and Smoke Density values for the test materials during a ten-minute fire exposure.

The purpose of the test is to determine the comparative surface burning characteristics of building materials by evaluating the flame spread performance of Red Oak under identical conditions. The Smoke Density value of the material may be compared with that of asbestos-cement and Red Oak which have been arbitrarily established as 0 and 100 respectively.

IV TEST RESULTS

The following are the ASTM E-84 (81a) test results of nominal .035 in. (0.9 mm) thick Marquessa Lana Panel Fabric material supplied by Absecon Mills, Inc. and tested September 28, 1994

Marquessa Lara Panel Fabric Material

Thickness - 0.35 (0.9 mm) nominal
Color - Light Brown
Method of Support - 1/4 in. (6.35 mm)
diameter steel rods on a
2 ft. (0.6 m) spacing

Flame Spread 10
Smoke Density 40

Observations: 0:02 - Fabric melting
5:45 - Burning on floor
in exposure area
6:13 - Maximum Flame
Spread of 2 ft.
(0.6 m)

CAUTION: These Numerical Flame Spread and Smoke Density values are not intended to reflect the hazards presented by this or any material under actual fire conditions.

The products of combustion were not analyzed nor is it required by the ASTM E-84 Test Method.

V LABORATORY RESPONSIBILITY

The Factory Mutual Research Corporation makes no judgement of product uniformity solely as a result of this fire test evaluation. Product uniformity depends in part on manufacturing facilities and quality control procedures. Factory Mutual's Audit Inspection and Re-examination Program provides a means to assess these conditions.

Factory Mutual makes no judgement of product suitability for its intended end-use based entirely on ASTM E-84 test results. This decision is usually the prerogative of the local authority having jurisdiction.

TMC/pj

TESTS SUPERVISED AND REPORTED BY:



T. M. Chestnut
Materials Engineer