



TEXTILE TESTING LABORATORY REPORT No. 01/532

(Please quote this number in all correspondence)

CLIENT:
Cavalier Bremworth Limited
P O Box 97 040
Papatoetoe
AUCKLAND

SAMPLE RECEIVED FROM:
Cavalier Bremworth Limited

Date: 23/02/01

SAMPLE DESCRIPTION:
1 Carpet, Marquetry.

Attn: P Leyland

Client Order No.: 8288

Client Reference:

3/12

ASTM E648 - 1999 CRITICAL RADIANT FLUX OF FLOOR-COVERING SYSTEMS USING A RADIANT HEAT ENERGY SOURCE

This test was developed to provide a basis for estimating one aspect of the likelihood of floor-coverings to spread flame in corridors and exit ways given a fully developed fire in an adjacent room.

Test Conditions:

Assembly System - Sample mounted over Gib Fireboard using a clamping frame.
Heat flux profile – 200mm : 0.92 W/cm²
400mm : 0.49 W/cm²
600mm : 0.24 W/cm²

Results:

Critical Radiant Flux

Specimen 1 =	0.45 W/cm ²
Specimen 2 =	0.49 W/cm ²
Specimen 3 =	0.45 W/cm ²
\bar{x} =	0.46 W/cm ²
s.d. =	0.02
CV% =	4.98

Critical radiant flux is measured on a scale of 0.1 W/cm² to 1 W/cm². In terms of this test, the longer the length a floor-covering system burns, the lower the critical radiant flux (W/cm²).

Typical specifications range from a minimum of 0.25 W/cm² for domestic situations to 0.5 W/cm² for commercial situations, but Local Government regulations may vary, as may contractual specifications.

Observations: Use surface ignited, melted then turned to char.
Burnt through to backing.

L A Greer, Testing Manager
Signatory

15/03/2001

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