

APL Applied Physics Laboratory

ACCREDITED LABORATORY NUMBER 206

International Accreditation New Zealand

E R (Ray) Weaver 24 Umere Crescent, Ellerslie, Auckland.

NEW ZEALAND.

Telephone/Fax 0-9-5793912.



All tests reported herein have been performed in accordance with the Laboratory's scope of accreditation

TEST REPORT

Reference Number 01156

Page 1 of 2.

EARLY FIRE HAZARD PROPERTIES OF CAVALIER BREMWORTH 590 RAFFIA CARPET

MATERIAL

CAVALIER BREMWORTH 590 RAFFIA CARPET being a patterned loop pile tufted carpet with a pile specified as 100% new wool and a pile weight of 1360 grams per square metre, and a jute secondary backing, is manufactured in New Zealand by Cavalier Bremworth Limited, 7 Grayson Avenue, Papatoetoe, P O Box 97040, Auckland, NEW ZEALAND.

The material was supplied by the client Cavalier Bremworth Limited as one piece, sufficient to cut the specimens for testing.

The colour tested was in brown and gold shades.

TEST METHOD

Australian Standard 1530, Methods for fire tests on building materials, components and structures. AS 1530 Part 3, 1999, "Simultaneous determination of ignitability, flame propagation, heat release and smoke release."

The material was assigned the Laboratory Number 4046 and the tests were conducted on 18 December 2001.

The specimens were restrained between two layers of wire mesh having apertures 12 mm by 12 mm and wire 0.8 mm diameter and fixed to the support frames using a perimeter clamping ring.

RESULTS

The following results were obtained on six specimens tested.

Mean ignition time (seconds): 327.33

Standard error: 3.6

Mean flame propagation time (seconds): 0

Mean heat release integral (kJ/m²): 9.33

Standard error: 1.0

Mean smoke release (Density/m): 0.12828

Mean smoke release (Log₁₀D/m): -0.89184

Standard error (log₁₀D): 0.04768

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International Accreditation New Zealand (IANZ) has a mutual recognition agreement with the National Association of Testing Authorities, Australia (NATA) such that both organisations recognise accreditations by IANZ and NATA as equivalent.

Users of test certificates are recommended to accept test certificates endorsed in the name of either accrediting body.



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CAVALIER BREMWORTH 590 RAFFIA CARPET

From the results the following indices were determined:

IGNITABILITY INDEX (Range 0 - 20)	15
SPREAD OF FLAME INDEX (Range 0 - 10)	0
HEAT EVOLVED INDEX (Range 0 -10)	0
SMOKE DEVELOPED INDEX (Range 0 - 10)	4

Statement from the Standard.

The results of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

Statement from the Laboratory.

This statement appears on all of the Laboratory's test reports.

The Laboratory's experience is that the results of this fire test can be significantly modified by the detail of the specimens presented for testing.

The nature of substrate materials for example (where present) can significantly modify the test results.

The results reported apply to the material as described herein, and users of this test report are recommended to take particular note of the material description on page 1.

E. R. Weaver. 

19 December 2001