



**Underwriters
Laboratories Inc.®**

Northbrook Division
333 Pfingsten Road
Northbrook, IL 60062-2096 USA
www.ul.com
tel: 1 847 272 8800

File R21556
Project 03CA30893

October 21, 2003

REPORT

on

PREPARED ROOF COVERING MATERIAL

Under The

LISTING PROGRAM

Country Cottage Roof Inc.
Lake City, FL

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GENERAL

INVESTIGATION:

The intent of this investigation was to establish Classification and Follow-Up Service on this manufacturer's thatch roofing material. The Intermittent Flame and Burning Brand tests were waived based on existing test data on similar assemblies utilizing G-P Gypsum Dens-Deck®. See Test Record No. 1 for the specific system tested. One spread of flame test was conducted on each type of thatch design.

DESCRIPTION

PRODUCT COVERED:

The product covered by this Report is roofing thatch material designated "Palm Thatch" and "Reed Thatch".

The products in this Report are Listed as to external fire exposure only.

USE:

The products are intended for use as building materials as permitted by authorities having jurisdiction.

TEST RECORD NO. 1

EXAMINATION OF MATERIALS:

The materials used in this investigation were produced under the observation of a representative of Underwriters Laboratories Inc. The composition of the finished materials is of a proprietary nature. Data on the composition is on file at the Laboratories for use in the Follow-Up Service Program.

Various physical and chemical tests were conducted on the components and finished products. The results developed from these tests were employed in establishing specifications for use in the factory Follow-Up Service Program.

FIRE TESTS:

SAMPLES

System No.	Description of System
1	A. One layer of Soprema Inc. "Colphene HR FR GR" self-adhered membrane. B. "Palm Thatch" or "Reed Thatch" mechanically fastened.

Note - One spread of flame test was conducted on each type of material.

METHOD

Class A fire tests were conducted on the above samples. These tests were conducted in accordance with the Test Standard ANSI/UL 790, "Tests for Fire Resistance of Roof Covering Materials," (ASTM E-108 and NFPA 256).

In the spread of flame tests described in this Report, the temperature of the test flame, as measured by a No. 14 gauge chromel-alumel wire thermocouple located as described in ANSI/UL Standard 790, was found to be 1400° ± 50°F. The physical appearance of the test flame when the test apparatus was calibrated for flame temperature, was generally triangular in shape, being about 3 ft wide at the deck's leading edge and gradually narrowing to a width of approximately 6 in. at the top of the 52 in. long calibration deck, with licks of flame extending approximately another 1 ft.

The wind velocity required by ANSI/UL 790 was determined by taking readings on a smooth deck (40 in. wide and 52 in. long) midway up the deck at the center and 3 in. from each vertical edge with a vane type anemometer and timer. The velocity measured at an incline of 5 in./ft was found to be 1050 ± 50 ft/min ($12 \pm 1/2$ mi/h) with the carriage in position.

RESULTS

The results of these tests are summarized below.

SPREAD OF FLAME TEST

<u>Slope of Deck, in./ft</u>	<u>Maximum Flame Spread, ft</u>	<u>Exposure of Roof Deck</u>
5	4-1/2	None
5	4-1/2	None

At no time during these tests were any flying flaming brands of roof covering material produced. Also, there was no significant lateral spread of flame from the path directly exposed to the test flame.

PRACTICABILITY:

The construction materials used in the roofing systems were readily installed by qualified workers with tools and methods commonly used for construction work of similar nature. Materials and installation procedures in accordance with those previously described in this Report are significant factors in the exterior fire performance of the construction.

CONCLUSION

The following conclusion represents the judgment of Underwriters Laboratories Inc. based upon the results of the examination, tests and data analysis presented in this Report, as they relate to established principles and previously recorded data.

The products covered by this Report are judged to be eligible for Listing and Follow-Up Service. The manufacturer is authorized to use the UL Listing Markings as shown below on such products which comply with the Follow-Up Service Procedure and any other applicable requirements of Underwriters Laboratories Inc. Only those products which properly bear the UL Listing Marking are considered as Listed by Underwriters Laboratories Inc.

LISTING MARKING

The Listing Markings to be used with the "Palm Thatch" and "Reed Thatch" is illustrated below:

LISTED
PREPARED ROOFING MATERIAL
CLASS A

DEGREE OF RESISTANCE TO EXTERNAL FIRE
AND FLAMMABILITY LIMITS
IN ACCORDANCE WITH STANDARD 790
WHEN APPLIED IN ACCORDANCE WITH
INSTRUCTIONS INCLUDED WITH THIS ROOFING

Following is the Listing as it will appear in our published advices:

Plastic thatch roofing for installation as Class A prepared roof covering materials when laid over 1/4 in. G-P Gypsum Dens-Deck® or 1/2 in. sheet rock followed by one layer of Soprema Inc. "Colphene HR FR GR" self-adhered membrane.

Report by:


ROGER L. ANDERSON
Senior Engineering Associate

Reviewed by:


DOUGLAS C. MILLER
Engineering Group Leader