Pedisystems®

Pedimat®, Pedimat® AA & TreadLine® ASTM E-648 Test

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Underwriters Laboratories Inc.®

August 27, 1993

Mr. Roger Barr
R&D Department
Construction Specialties, Inc.
P.O. Box 380
Muncy, PA 17756

Our Reference: File R7821 - Project 93NK17413
Subject: Report of Preliminary Investigation of Flooring Material in Accordance with ASTM E648

Dear Mr. Barr;

The is a Report summarizing the results of ASTM E-648 Critical Radiant Flux tests conducted on a developmental basis under a Preliminary Investigation.

METHOD:
The tests were conducted in accordance with Standard ASTM E-648, "Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source." The samples were placed on a piece of inorganic reinforced cement board during the test to simulate actual installation practice.

SAMPLES:
The samples consisted of three different floor mat constructions as described in Table 1. The samples were constructed such that the carpet channels were parallel to the long direction of the specimen. Three specimens per sample were tested.

TABLE 1 - SAMPLE SUMMARY

Sample Identification	Sample Name	Sample Construction
A	Pedimat	Aluminum connectors and aluminum beneath the carpet channels. (5) carpet channels.
B	Pedimat II	Aluminum connectors with vinyl beneath the carpet channels. (5) carpet channels
C	Treadline	Vinyl connectors and vinyl beneath the carpet channels. (5) carpet channels.

The samples utilized in this investigation were neither prepared nor selected by a Laboratories representative such that no verification of composition can be provided.

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RESULTS:

The results are summarized in Table 2. Photographs of the specimen after the test are presented in Appendix A. Copies of the original data sheets generated during each test, including complete observations of the burning characteristics of the specimen during the testing exposure are presented in Appendix B.

TABLE 2 - DATA SUMMARY

Series No.	Sample I.D.	Observations	Max. Flame Propagation (cm)			Critical Radiant Flux (W/cm^2)			Avg. Flux (W/cm^2)	Std. Deviation	Coefficient of Variation
1	A	a	35	37	43	.620	.578	.459	.552	.084	15.1
2	B	b	42	76	79	.478	.158	.143	.260	.189	72.9
3	C	c	69	78	43	.195	.148	.459	.267	.172	66.1

a - The carpet began to melt at approx. 1 min. The center carpet strips curled back and away from the aluminum underlayment. The carpet strips ignited at approx. 5:30.
b - The carpet began to melt at approx. 1 min. The carpet strips curled back at approx 4 min. The carpet strips ignited one another while flaming and curling back.
c - The carpet began to melt at approx. 1 min. During the second test a carpet strip curled up into the radiant panel and ignited at 3:27. The vinyl underlayment ignited and curled back significantly in the first two tests.

It should be understood that the results presented in Table 2 apply only to the particular samples submitted for testing.

GENERAL:

Preliminary Investigations are initiated to obtain information with respect to a product or products prior to submittal to Underwriters Laboratories Inc. for Investigation, Classification and Follow-Up Service. This Report does not constitute evidence of an Investigation, Classification and Follow-Up Service Submittal to Underwriters Laboratories Inc.

The products tested under This Preliminary Investigation not covered under the Follow-Up Service Program of Underwriters laboratories Inc. The Classification marking of UL on the product is the only method provided by Underwriters Laboratories Inc. to identify products which have been produced under its Classification and Follow-Up Service. No use of a Classification Marking has been authorized as a result of this investigation.

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including, but not limited to, consequential damages, arising out of or in connection with the use, or inability to use the information contained in this Report.

This Report completes all anticipated work under Project 93NK17413. However, you indicated that you wish to conduct additional tests. Therefore, we will keep this Project active, and extend the completion date to October 20, 1993.

Please do not hesitate to contact us if we can be of further assistance.

Very truly yours,

DEBORAH B. BROWN (Ext. 43390)
Project Engineer
Engineering Services - 411C

Reviewed by:

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