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Expo

CENTRAL LABORATORY REPORT

Report Date	11/2/2020	Selling Division	Philadelphia
Style Number	5598V	Style Name	Alchemist
Reference Test Report	R-190806-62563	Backing	

Test Method

ASTM E648 - Critical Flux of Floor-Covering Systems Using a Radiant Heat Energy Source

Test Overview

Three test specimens are cut from the test material. They are installed per intended end use requirement. If installed as loose laid (floating floor) or nailed, specimen will be installed on a mounting board and conditioned for a minimum of 48 hours. If the specimen are specified to use an adhesive for installation the specimen will be installed on a mounting board and conditioned for a minimum of 96 hours. The test specimen is clamped into a holder and placed horizontally in the radiant panel test chamber. The radiant panel test chamber has an air-gas fueled radiant heat energy panel inclined 30 degrees and directed toward the test specimen. The radiant panel generates a radiant energy flux distribution ranging along the 100 cm length of the test specimen. Specimen are allowed to heat for 5 minutes (or until the specimen ignites if less than 5 minutes) with the pilot burner positioned at least 50 mm from the test position. The pilot burner is then repositioned in direct contact with the specimen. After 5 minutes, the pilot burner is moved at least 50 mm away from the specimen and extinguished. If the specimen propagates a flame, the flame is allowed to continue to burn until combustion is complete. The test specimen is then removed from the chamber and the furthest distance burned is measured. The measurement of the burn is then converted to Critical Radiant Heat Flux (watts/cm²). Heat flux for each of the three test specimens are averaged together to calculate the heat flux for the test material. Flooring Assembly:

The floor covering was tested as a glue down application over a simulated concrete (reinforced cement board) subfloor using Shaw Adhesive:

Shaw 4100

Test Results

Specimen 1 Critical radiant heat flux (watts/ cm ²)	0.92
Specimen 2 Critical radiant heat flux (watts/ cm ²)	0.89
Specimen 3 Critical radiant heat flux (watts/ cm ²)	0.91
Average Critical radiant heat flux (watts/ cm²)	0.91

Result Interpretation

National Fire Protection Association (NFPA) classifies floor coverings as Class 1, Class 2 or Unclassifiable based on critical radiant heat flux average test results.

Classification

Class 1: 0.45 - 1.10 watts/ cm²

Deviations from Standard Test Method

None

Approval:

Physical Lab Manager/ Technical Services Division



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