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Sample ID : SPC PARKE

	TEST	STANDARD	METHOD	Specimen	RESULT
*	Tests on the fire behavior of floor coverings Part 1: Determination of the fire behavior when exposed to a radiant heater	EN 14041:2018	EN 9239-1:2010	SPC PARKE	Bfl-s1



Seal



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Environment

The requirements and standards apply to equipment intended for use in

X	Residential (domestic) environment
X	Commercial and light-industrial environment
X	Industrial environment
X	Medical environment

Scope

This part of ISO 9239 describes a method for assessing fire response and flame propagation of horizontal floor coverings exposed to a heat flow gradient in a test chamber and ignited by a pilot flame.

Conditioning

The specimens were conditioned in accordance with BS EN 13238:2001.

Criteria

According to "Fire classification of construction products and building elements-Part 1: Classification using test data from reaction to fire tests", EN ISO 13501-1.

To meet class "b S1", floor coverings have to meet the following limits when tested according to EN ISO 9239-1:	Mean critical radiant flux (CHF) > 8.0 kW/m ² Smoke development < 750% x min
To meet class "c S1", floor coverings have to meet the following limits when tested according to EN ISO 9239-1:	Mean critical radiant flux (CHF) > 4.5 kW/m ² Smoke development < 750% x min
To meet class "d S1", floor coverings have to meet the following limits when tested according to EN ISO 9239-1:	Mean critical radiant flux (CHF) > 3.0 kW/m ² Smoke development < 750% x min

Procedure

*	The calibration sample should be removed from the test chamber and the lid closed. The radiator must be ignited. The test chamber should then be heated for at least 1 hour until the temperature stabilizes.
*	The sample, including the substrate(s) and backing plate, is placed in the sample holder. Unless other fasteners are used, the steel mounting clamps are tensioned along the back of the sample assembly and the nuts tightened. The sample is then mounted on the sliding support frame with the sample holder. The pilot burner is fired and left at a distance of at least 50 mm from the intended position of the sample zero line. The support frame, which slides with the sample, is then slid into the test chamber, after which the lid is immediately closed. This time counts as the start of the exam. The timing device and recorders turn on. After two minutes of preheating with the pilot burner at a distance of at least 50 mm from the sample zero line, the pilot flames should be brought into contact with the sample at a distance of 10 mm from the edge of the sample holder. The flames of the pilot burner should contact the sample for 10 minutes; then pull the burner away from the sample zero line at least 50 mm. Pilot flames must be extinguished. The gas and air supply to the radiator must be kept constant during the test.
*	Burning distances shall be measured at 10-minute intervals from the start of the test and when the flame is extinguished, the distance between the flame front and the sample zero line rounded to 10 mm. Specific observations shall be recorded, such as flaming, melting, bubbling, duration and location of smoldering after flame extinction, burning up to backing plate, etc.

Smoke Production Results

Sample	Max %	% x min
SPC PARKE	2	1

Flame Production Results

Sample	Maximum Flame Front (mm)	Critical Heat Flux (if applicable) (Kw/m ²)	Flame Front At 30 min (mm)	HF30 (Kw/m ²) (if applicable)	Duration Of Flaming (sec)
SPC PARKE	96	>11.0	N/A	N/A	736

Mean Results of Flame and Smoke Production

Direction	Final Flame Front (mm)	Critical Heat Flux (if applicable) (kW/m ²)	Flame Front At 30 min (mm)	Heat Flux HF-30 (if applicable) (kW/m ²)	Smoke Production % x min
Across	96	>11.0	N/A	N/A	1
The sample met Class Bfl-s1 classification when tested according to the standard.					

Sample Image



*****End of Report*****