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INSPECTION REPORT

TÜRCERT TEKNİK KONTROL VE BELGELENDİRME A.Ş.

UNITED ACCREDITATION FOUNDATION UAF

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Report No:	2022270464
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Sample Accepted on :	20.04.2022
Test Resulted Date :	27.04.2022
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Sample ID : **Laminat (CGF-10 MM)**

	TEST	METHOD	RESULT	
*	Standard Test Method for Surface Burning Characteristics of Building Materials	ASTM E 84-21A	PASS	
			CLASS A	
			FSI	SD
			21	40

EUROLAB LABORATORY SERVICES APPROVED

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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

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ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials

Scope

This standard is used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled conditions, but does not by itself incorporate all factors required for fire-hazard or fire-risk assessment of the materials, products, or assemblies under actual fire conditions.

General

The purpose of this test method is to determine the relative burning behavior of the material by observing the flame spread along the specimen. Flame spread and smoke developed index are reported. However, there is not necessarily a relationship between these two measurements.

Mehtod

This fire-test–response standard for the comparative surface burning behavior of building materials is applicable to exposed surfaces such as walls and ceilings. The test is conducted with the specimen in the ceiling position with the surface to be evaluated exposed face down to the ignition source. The material, product, or assembly shall be capable of being mounted in the test position during the test. Thus, the specimen shall either be self-supporting by its own structural quality, held in place by added supports along the test surface, or secured from the back side.

Summary Of Test Procedure

Upon ignition of the gas burners, the flame spread distance is observed and recorded every second. Flame spread distance versus time is plotted. Calculations ignore all flame front recessions and Flame Spread Index (FSI) is determined by calculating the total area under the curve for the test sample. If the area under the curve (A) is less than or equal to 97.5XA min·ft, then FSI = 0.515·A; if greater, FSI = 4900/(195-A). FSI is then rounded to the nearest multiple of 5. Smoke Developed (SD) is determined by dividing the total area under the obscuration curve by that of red oak, and multiplying by 100. SD is then rounded to the nearest multiple of 5 if less than 200. SD values over 200 are rounded to the nearest multiple of 50. Section 5.1.9.1 of ASTM E 84-12c specifies a single combination of lamp and photocell to create the requisite optical system. It is anticipated that alternative, equivalent systems will be permitted in future revisions of the test standard. In May 2012, the Exova tunnel was modified to include a specially-designed optical measurement system that is utilized by many other tunnel systems worldwide. Although an improvement to performance and reliability is realized, as of this date the new system is not specifically recognized by ASTM E 84 so this represents a deviation to the test protocol.

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RESULTS

Calculated Flame Spread (CFS)	Rounded Flame Spread Index (FSI)	Calculated Smoke Developed (CSD)	Rounded Smoke Developed Index (SDI)	Max Temperature to Exposure (◦F)
21.5	21	40	41	523

Observations of Burning Characteristics

- The sample began to ignite approximately 55 seconds after the test was exposed to fire.
- The front of the flame spread to a maximum distance of 0,3m in about 90 seconds.

Classification:

Class	Flame Spread Index	Smoke Developed Index
A	0 - 25	450 Max
B	26 - 75	450 Max
C	76 - 200	450 Max

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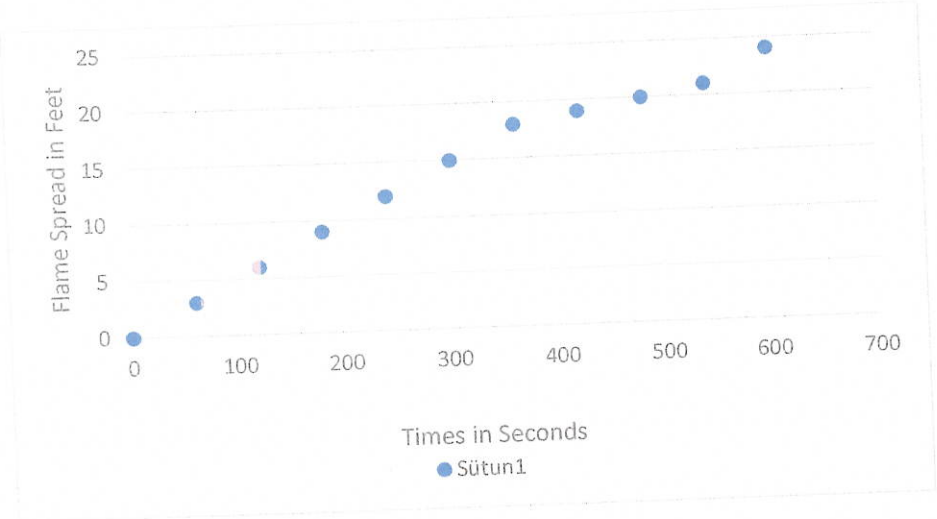
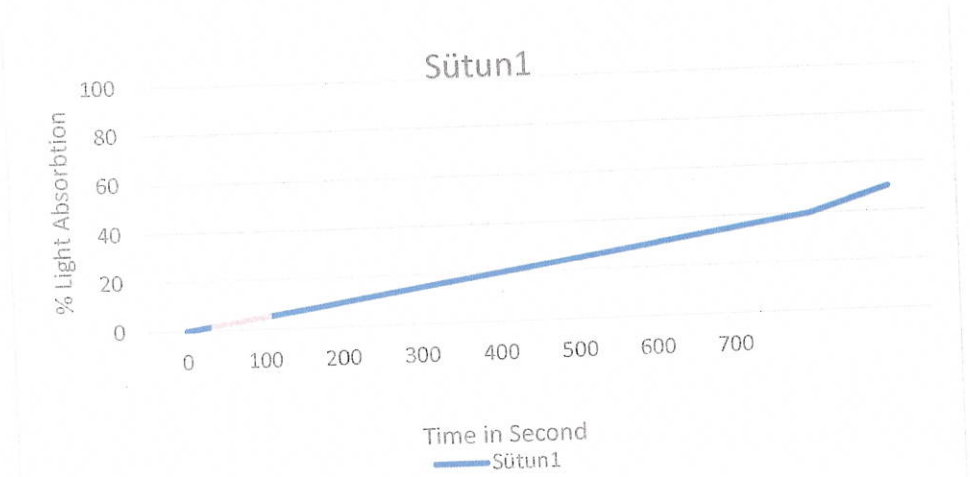
FLAME SPREAD INDEX



SMOKE DEVELOPED



Flame Spread (Index FSI)	Smoke Developed (SD)
21	40

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IMAGE

End of Report

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