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**RENDERED TO**

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**France**

Report of Testing "EURODEKOR® Flammex E1 P2 B/M1 CE 38mm thickness" for compliance with the applicable requirements of the following criteria: NFPA 255 TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS (ASTM E84-11a, UL 723, UBC 8-1)

**TEST REPORT**

**ABSTRACT**

Specimen I. D.	“EURODEKOR® Flammex E1 P2 B/M1 CE 38mm thickness”	
Test Standard:	NFPA 255 TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS (UL 723, UBC 8-1, ASTM E84-11a)	
Test Date:	February 22, 2012	
Client:	Egger Panneaux & Decors	
Test Results:	<b>FLAME SPREAD INDEX</b>	<b>25</b>
	<b>SMOKE DEVELOPED INDEX</b>	<b>150</b>

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February 24, 2012

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February 26, 2012

## I. INTRODUCTION

This report describes the results of the NFPA 255 TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS a method for determining the comparative surface burning behavior of building materials. This test is applicable to exposed surfaces, such as ceilings or walls, provided that the material or assembly of materials, by its own structural quality or the manner in which it is tested and intended for use, is capable of supporting itself in position or being supported during the test period.

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

“The use of supporting materials on the underside of the test specimen may lower the flame spread index from that which might be obtained if the specimen could be tested without such support... This method may not be appropriate for obtaining comparative surface burning behavior of some cellular plastic materials... Testing of materials that melt, drip, or delaminate to such a degree that the continuity of the flame front is destroyed, results in low flame spread indices that do not relate directly to indices obtained by testing materials that remain in place.”

This test method is also published under the following designations:

ASTM E84-11a

UL 723

UBC 8-1

***This standard should be used to measure and describe the properties of materials, products, or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products, or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use.***

## II. PURPOSE

The NFPA 255 (25 foot tunnel) test method is intended to compare the surface flame spread and smoke developed measurements to those obtained from tests of mineral fiber cement board and select grade red oak flooring. The test specimen surface (18 inches wide and 24 feet long) is exposed to a flaming fire exposure during the 10 minute test duration, while flame spread over its surface and density of the resulting smoke are measured and recorded. Test results are presented as the computed comparisons to the standard calibration materials.

The furnace is considered under calibration when a 10 minute test of red oak decking will pass flame out the end of the tunnel in five minutes, 30 seconds, plus or minus 15 seconds. Mineral fiber cement board forms the zero point for both flame spread and smoke developed indexes, while the red oak flooring smoke developed index is set as 100.

## III. TEST PROCEDURE

The tests were conducted in accordance with the procedures outlined in the NFPA 255. The specimens are placed directly on the tunnel ledges. As required by the standard, one or more layers of 0.25 inch thick reinforced concrete board are placed on top of the test sample between the sample and the tunnel lid. After the test, the samples are removed from the tunnel, examined and disposed of.

## IV. REVISION SUMMARY

DATE	SUMMARY
February 24, 2012	Original

## V. DESCRIPTION OF TEST SPECIMENS

Date Received:	1/25/12
Date placed in the conditioning room:	1/25/12
Conditioning (73F & 50% R.H.):	28 days
Specimen Width (in):	24
Specimen Length (ft):	24
Specimen Thickness (in):	1.50
Total Specimen Weight (lbs):	260.0

### **Mounting Method:**

The specimen was self supporting. The specimen was the same on both sides.

### **Specimen Description:**

The specimen was described by the client as "EURODEKOR® Flammex E1 P2 B/M1 CE 38mm thickness".

The specimen consisted of ten 29-in. long x 2-ft. wide x 1.50-in. thick. wooden panels.

The product was received by our personnel in good condition.

## VI. TEST RESULTS & OBSERVATIONS

The test results, computed on the basis of observed flame front advance and electronic smoke density measurements are presented in the following table.

Test Specimen	Flame Spread Index	Smoke Developed Index
“EURODEKOR® Flammex E1 P2 B/M1 CE 38mm thickness”	25	150

The data sheets are included in Appendix A. These sheets are actual print-outs of the computerized data system which monitors the tunnel furnace, and contain all calibration and specimen data needed to calculate the test results.

## VII. OBSERVATIONS

During the test, the specimen was observed to behave in the following manner.

Time (min:sec)	Observations
0:41	The specimen surface began to blister.
0:43	A steady ignition is observed.
1:01	The specimen surface began to crack.
7:25	The specimen surface began to flake.
10:00	Test burners were turned off.

After the burners were turned off, a 49-sec. after flame was observed.

After the test, the specimen was observed to be damaged as follows:

Distance (FEET)	Damage Descriptions
0 – 8	The specimen’s surface was heavily charred.
8 – 14	The specimen’s surface was heavily discolored.
14 – 24	The specimen’s surface was discolored.

**APPENDIX A**  
**NFPA 255**  
**DATA SHEETS**

## TEST RESULTS

**FLAMESPREAD INDEX: 25**  
**SMOKE DEVELOPED INDEX: 150**

## SPECIMEN DATA . . .

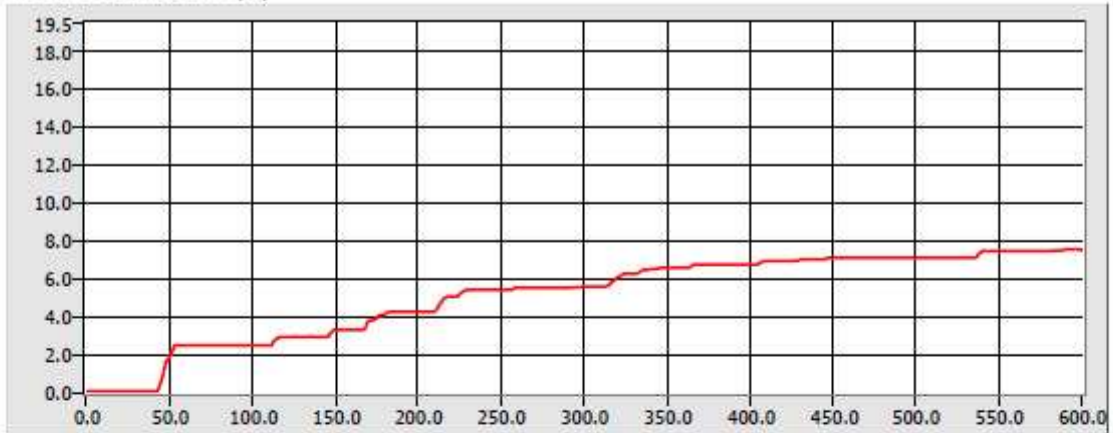
Time to Ignition (sec): 43  
Time to Max FS (sec): 540  
Maximum FS (feet): 7.4  
Time to 980 F (sec): Never Reached  
Time to End of Tunnel (sec): Never Reached  
Max Temperature (F): 683  
Time to Max Temperature (sec): 590  
Total Fuel Burned (cubic feet): 49.77  
  
FS\*Time Area (ft\*min): 50.9  
Smoke Area (%A\*min): 188.3  
Unrounded FSI: 26.2

## CALIBRATION DATA . . .

Time to Ignition of Last Red Oak (Sec): 40.0  
Red Oak Smoke Area (%A\*min): 124.9



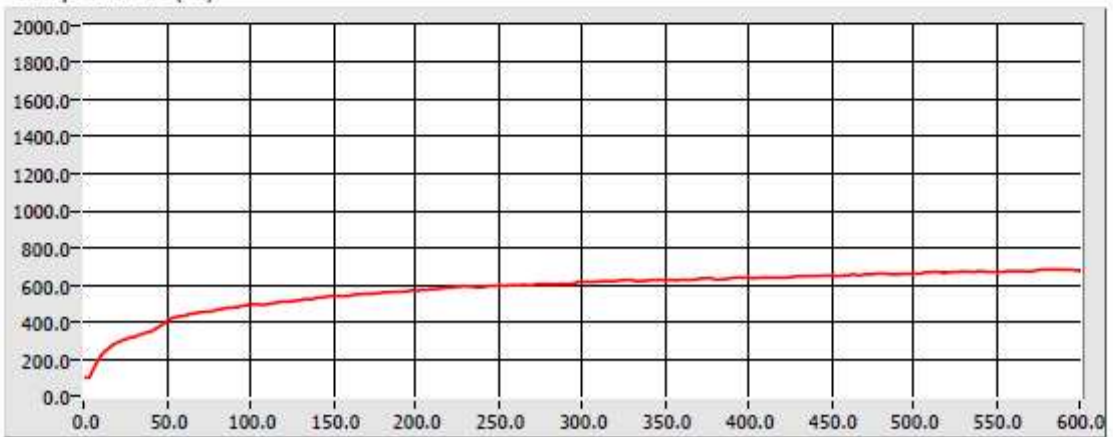
FLAME SPREAD (ft)



Smoke (%A)



Temperature (°F)



Time (sec)

600