

FUNDERMAX NORTH AMERICA INC.

SUMMARY FIRE TEST REPORT

SCOPE OF WORK

ASTM E84 TESTING ON FUNDERMAX COMPACT INTERIOR WHITE CORE SAMPLE E84.4,
13MM THICK & FUNDERMAX COMPACT INTERIOR WHITE CORE SAMPLE E84.2, 6MM THICK

REFERENCE REPORT PROJECT NUMBERS

J8441.02-121-24 THROUGH J8441.03-121-24

TEST DATE

08/07/19 – 08/09/19

ISSUE DATE

08/23/19

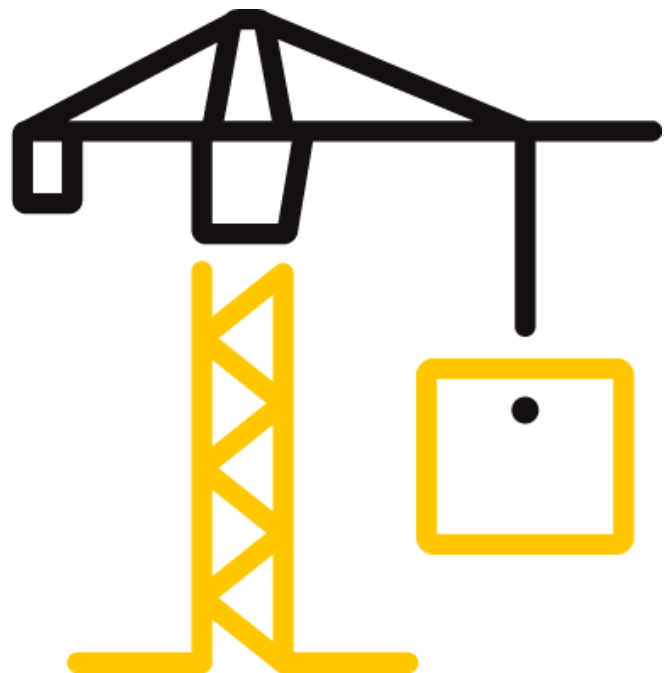
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TEST REPORT FOR FUNDERMAX NORTH AMERICA INC.

Report No.: J8441.02-121-24

Date: 08/23/19

REPORT ISSUED TO

FUNDERMAX NORTH AMERICA INC.

2015 Ayrslay Town Blvd.

Suite 202

Charlotte, North Carolina 28273

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by FunderMax North America Inc., Charlotte, North Carolina, to evaluate the flame spread and smoke developed properties of FunderMax Compact Interior White Core Sample E84.4, 13mm thick & FunderMax Compact Interior White Core Sample E84.2, 6mm thick. Testing was conducted at the Intertek B&C test facility in York, Pennsylvania. Results obtained are tested values and were secured by using the designated test method(s). A summary of test results and the complete graphical test data is reported herein.

This report does not constitute performance certification of this product nor an opinion or endorsement by this laboratory. Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained for the entire test record retention period.

SECTION 2

SUMMARY OF TEST RESULTS



Specimen I.D.: FunderMax Compact Interior White Core Sample E84.4, 13mm thick & FunderMax Compact Interior White Core Sample E84.2, 6mm thick by FunderMax North America Inc.

ASTM E84 Test Results

SERIES/MODEL	FLAME SPREAD INDEX	SMOKE DEVELOPED INDEX
E84.4, 13mm thick	55	190
E84.2, 6mm thick	65	130

*See Section 8 for additional information and commentary

For INTERTEK B&C:

COMPLETED BY:	Ben Samson	REVIEWED BY:	Ethan Grove
TITLE:	Technician – Fire Testing	TITLE:	Manager – Fire Testing
SIGNATURE:	 Digitally Signed by: Benjamin Samson	SIGNATURE:	 Digitally Signed by: Ethan Grove
DATE:	08/23/19	DATE:	08/23/19

BTS:ddr

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SECTION 3

TEST METHOD

The specimens were evaluated in accordance with the following:

ASTM E84-19b, *Standard Test Method for Surface Burning Characteristics of Building Materials*

SECTION 4

MATERIAL SOURCE/INSTALLATION

The test specimen was submitted to Intertek directly from the client. Samples were not independently selected for testing. Intertek has not verified the composition, manufacturing techniques or quality assurance procedures. The specimens, identified as FunderMax Compact Interior White Core Sample E84.4, 13mm thick & FunderMax Compact Interior White Core Sample E84.2, 6mm thick by FunderMax North America Inc., were received in good order.

SECTION 5

LIST OF OBSERVERS

NAME	COMPANY
Ben Samson	Intertek B&C
Scott Gingrich	Intertek B&C
Micah Brillhart	Intertek B&C

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SECTION 6

TEST PROCEDURE

This report describes the results of testing conducted in accordance with ASTM E84-19b; Standard Test Method for Surface Burning Characteristics of Building Materials. The test method is for comparative surface burning behavior of building materials by determining a flame spread index (FSI) and a smoke developed index (SDI). This test is applicable to exposed surfaces, such as finish materials for ceilings or walls, and is conducted with the specimen in the ceiling position with the surface to be evaluated facing down toward the ignition source. The material or assembly of materials, shall be capable of being mounted into the test position by its own self-supporting structural quality or the manner in which it is tested and intended for use, by using added supports along the test surface or by securement from the back side.

“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. These test results do not necessarily relate to those indices obtained by testing materials without such support.” – ASTM E84-19b Section 1.4

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

It is the intent of the test method to provide measurement of surface flame spread of the tested material when subjected to a fire exposure that is calibrated with select grade red oak flooring and fiber-cement board. It is also the intent of the test method to provide the comparative measurement of smoke development of the tested material against smoke development measurements for a running average value of 295 ± 2 grams of Liquid Heptane (high-performance liquid chromatography [HPLC] Grade). The test method exposes a nominal 24-ft (7.32-m) long by 20-in. (508-mm) wide test specimen to a controlled air flow and flaming fire exposure adjusted to produce a specific flame spread distance vs time calibration using select grade red oak flooring.

The test method does not provide information regarding heat transmission through the tested surface, the effect of aggravated flame spread behavior resulting from the proximity of combustible walls and ceilings, or the classification or definition of materials as noncombustible using flame spread index alone.

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.

There were no deviations from the requirements prescribed in ASTM E84.

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SECTION 7

TEST SPECIMEN DESCRIPTION

For a complete assembly description and installation procedures, reference Intertek-ATI test report numbers J8441.02-121-24 through J8441.03-121-24.

MANUFACTURER*	FunderMax North America Inc.
PRODUCT TYPE*	FunderMax compact interior white core
SERIES/MODEL*	Sample E84.4, 13mm thick
COMPOSITION*	Compact laminate
SUPPORT USED*	Material was self-supporting
MOUNTING METHOD	Material was self-supporting
SUBSTRATE USED*	No substrate was utilized
CEMENT BOARD	1/4 in. thick fiber cement board was placed on top of the sample.

MANUFACTURER*	FunderMax North America Inc.
PRODUCT TYPE*	FunderMax compact interior white core
SERIES/MODEL*	Sample E84.2, 6mm thick
COMPOSITION*	Compact laminate
SUPPORT USED*	Material was self-supporting
MOUNTING METHOD	Material was self-supporting
SUBSTRATE USED*	No substrate was utilized
CEMENT BOARD	1/4 in. thick fiber cement board was placed on top of the sample.

*From the client's material description and/or instructions

Note: Specimens were conditioned as per the requirements of Section 6.4 of ASTM E84-19b.

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SECTION 8

TEST RESULTS

TEST RESULTS – E84.4, 13mm thick	
Test Date	08/07/19
Test Operator	Ben Samson
Flame Spread Index (FSI)	55
FSI Unrounded	55.2
Smoke Developed Index (SDI)	190
SDI Unrounded	190.2

TEST RESULTS – E84.2, 6mm thick	
Test Date	08/09/19
Test Operator	Ben Samson
Flame Spread Index (FSI)	65
FSI Unrounded	63.1
Smoke Developed Index (SDI)	130
SDI Unrounded	129.8

COMMENTARY ON CLASSIFICATION

Neither ASTM E84 nor UL 723 include classification criteria for the results obtained from testing. The International Building Code® (IBC), NFPA 101: Life Safety Code® (NFPA 101), and NFPA 5000: Building Construction and Safety Code® (NFPA 5000) all describe a set of classification criteria required for interior wall and ceiling finish materials based on Flame Spread Index and Smoke Developed Index when tested in accordance with ASTM E84 or UL 723. The classification criteria for all three model codes is the same:

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

Note that classification under this scheme for interior wall and ceiling finishes does not strictly apply to all products or materials tested in accordance with ASTM E84 or UL 723 because not all products or materials are recommended or suitable for use as interior wall or ceiling finish materials in buildings, regardless of the surface burning characteristics. Consult with the product manufacturer and the local authority having jurisdiction (AHJ) regarding specific applications of a given product or material.



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SECTION 9

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	08/23/19	N/A	Original Report Issue