



AMERICAN FLAMECOAT INC.

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Client: iVekter Inc.
825 Trillium Drive
Kitchener ON N2R 1J9

CAN/ULC-S102 Surface Burning Characteristics of Building Materials
12mm ezobord - Silver Grey – treated with FLAMECOAT & FIBERCARE

Test Report No: 65815
Test No: Iv-EzCAN-0718
Date: August 17, 2018

AMERICAN FLAMECOAT, INC. has conducted testing for iVekter Inc., to evaluate the surface burning characteristics of 12mm ezobord – acoustic panel – Silver Grey – treated with Flamecoat and Fibercare stain protection.

Testing was conducted in accordance with the standard methods of CAN/ULC S102, Standard Method of Test for Surface Burning Characteristics of Ceiling, Wall and Miscellaneous Materials and Assemblies. This evaluation began August 6, 2018.

3 Test Samples: Samples were USED FOR TESTING. The sample materials were received at the Evaluation Center on 08.06.2018

SAMPLE AND ASSEMBLY DESCRIPTION

Upon receipt of the samples they were placed in a conditioning room where they remained in an atmosphere of $23 \pm 3^{\circ}\text{C}$ ($73.4 \pm 5^{\circ}\text{F}$) and $50 \pm 5\%$ relative humidity. The sample material was cut to 21 in. wide by 6 ft long. The panels during the test were self-supporting. The samples are identified by the client as 12mm ezobord – Silver Grey were then tested in accordance with CAN/ULC S102.

The tunnel is preheated to 85°C , as measured from the back of the tunnel and allowed to cool to 40°C from the burners. All 3 test are performed without delay.

Testing and Evaluation Methods

TEST STANDARD:

The results of the tests are expressed by indexes, which compare the characteristics of the sample under tests relative to that of select grade red oak flooring and inorganic-cement board.

(A) Flame Spread Classification:

This index relates to the rate of progression of a flame along a sample in the 24-foot tunnel. A natural gas flame is applied to the front of the sample at the start of the test and drawn along the sample by a draft kept constant for the duration of the test. An observer notes the progression of the flame front relative to time. The test apparatus is calibrated such that the flame front for red oak flooring passes out the end of the tunnel in five minutes, thirty seconds (plus or minus 15 seconds).



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(B) Smoke Developed:

A photocell is used to measure the amount of light, which is obscured by the smoke passing down the tunnel duct. When the smoke from a burning sample obscures the light beam, the output from the photocell decreases. This decrease with time is recorded and compared to the results obtained for red oak, which is defined to be 100.

Testing and Evaluation Results

RESULTS AND OBSERVATIONS

(A) Flame Spread The resultant flame spread classifications are as follows:
(Classification rounded to nearest 5)

12mm ezobord – Silver-Grey	FLAME SPREAD (FSV)	FLAME SPREAD MEAN (SDV)
RUN 1	19	19
RUN 2	16	
RUN 3	22	

(B) Smoke Developed

The areas beneath the smoke developed curve and the related classifications are as follows:
(Classification rounded to nearest 5)

12mm ezobord – Silver-Grey	SMOKE DEVELOPED	SMOKED DEVELOPED CLASSIFICATION
RUN 1	266	237
RUN 2	217	
RUN 3	228	

(C) Observations

During the tests, the sample surface ignited at approximately 18 to 23 seconds after exposure to the test flame, the flame began to progress along the sample until it reached the maximum flame spread.

RESULTS:

This test sample ***meets** the Canadian Standard – CAN/ULC S102.

This test sample ***meets** the A.S.T.M. E-84 Standard.

This test sample ***meets** the N.F.P.A. LIFE SAFETY CODE 101.



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Conclusion

The samples of, iVekter - 12mm ezobord – acoustic panel – Silver Grey – treated with Flamecoat and Fibercare stain protection exhibited the following flame spread characteristics when tested in accordance CAN/ULC S102, Standard Method of Test for Surface Burning Characteristics of Ceiling and Miscellaneous Materials and Assemblies.

A series of three test runs was conducted to conform to the requirements of the National Building Code of Canada.

SAMPLE	FLAME SPREAD CLASSIFICATION	SMOKE DEVELOPED CLASSIFICATION
12mm ezobord – Silver-Grey	20	235

SIGNED BY:

WILLIAM C. LAFFODAY
AMERICAN FLAMECOAT, INC.

CAN/ULC S102 Surface Burning Characteristics of Building Materials



CAN/ULC S102 DATA SHEETS

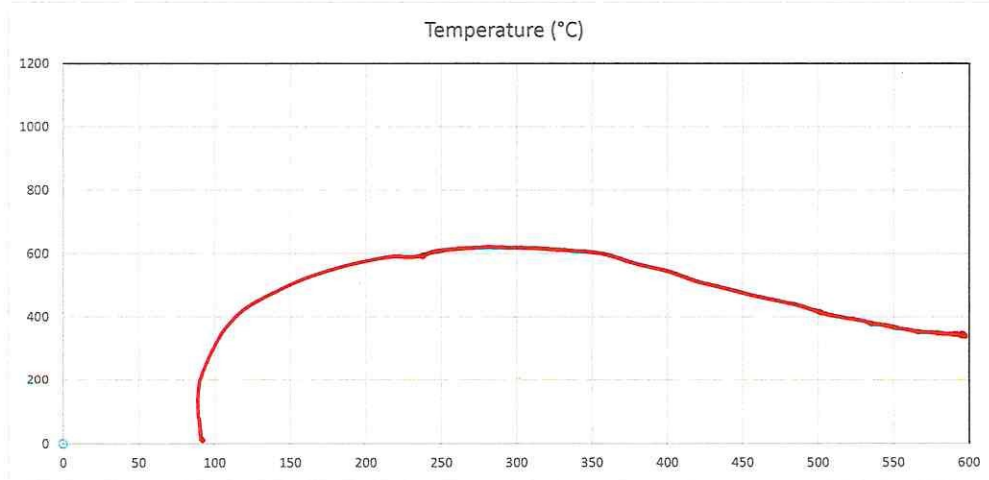
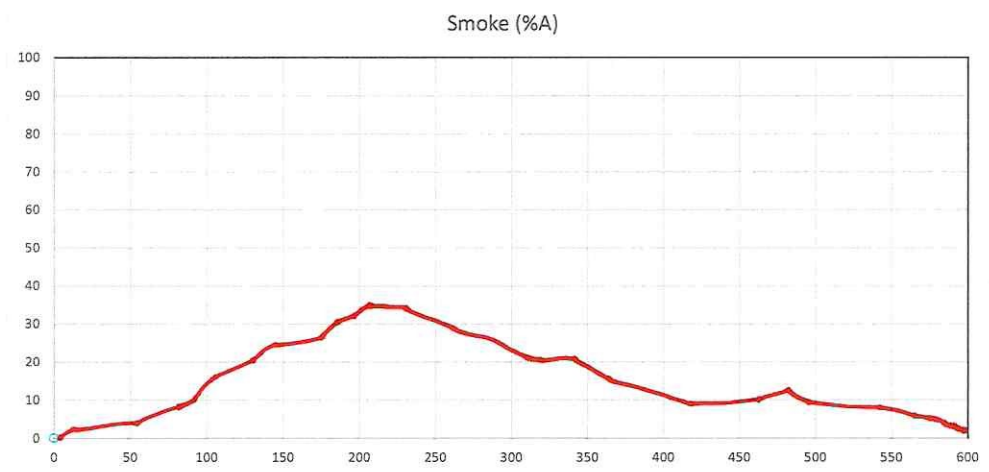
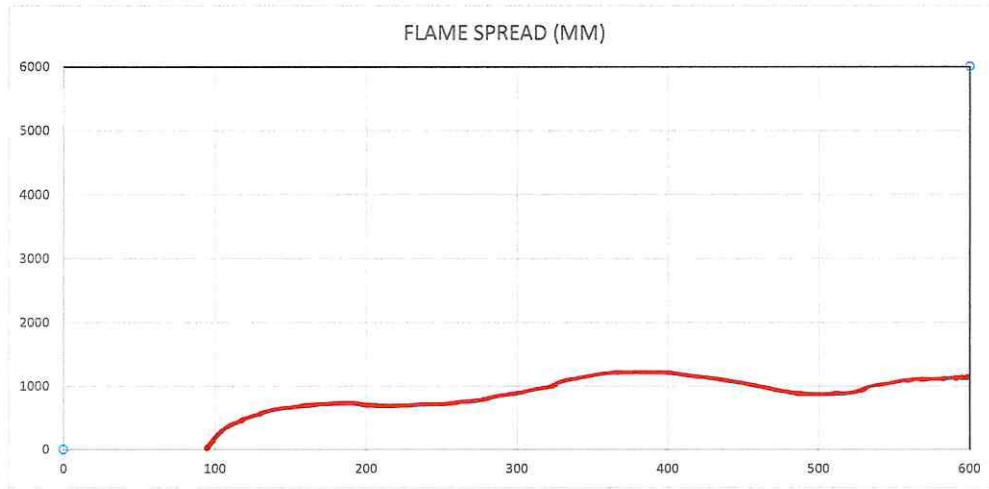
RUN 1

Client: iVekter Inc.

Specimen ID: 12mm ezobord - Silver - Grey - treated with Flamecoat & Fibercare

Test No.: 655815

Standard: CAN/ULC S102



Time (sec)
600

CAN/ULC S102 DATA SHEETS

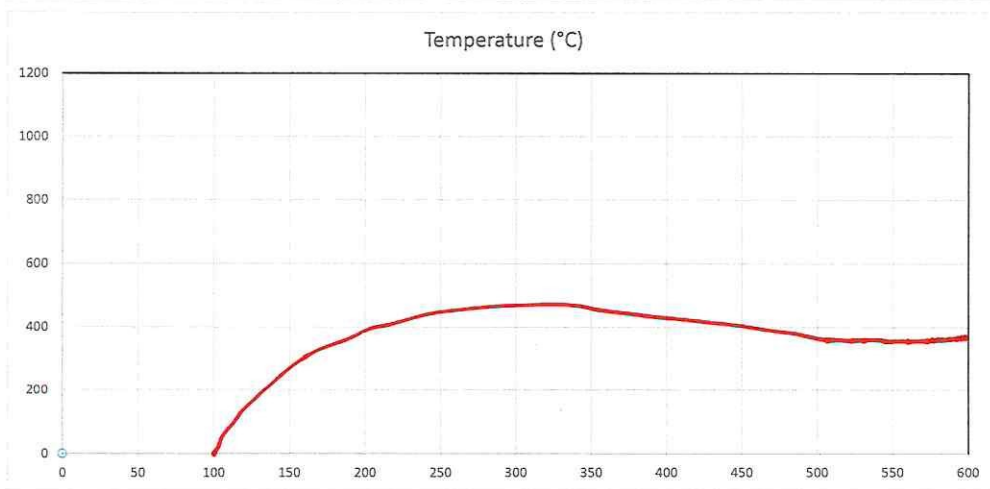
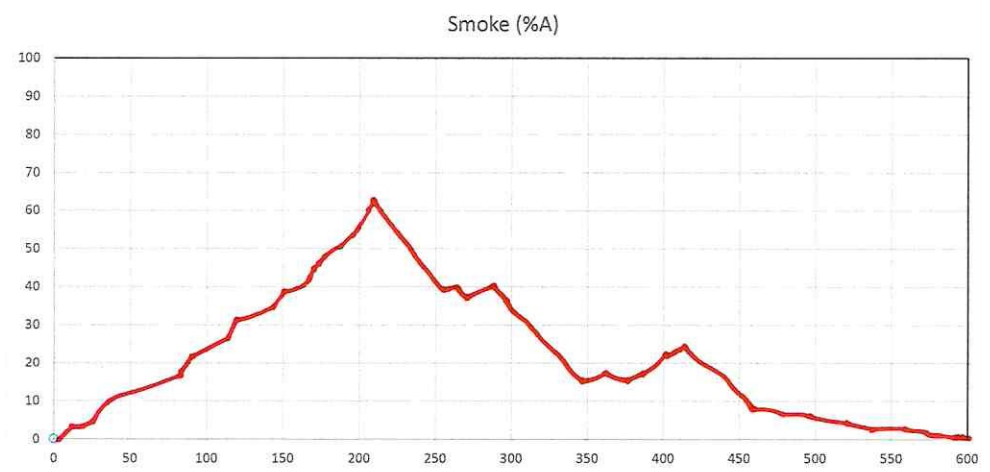
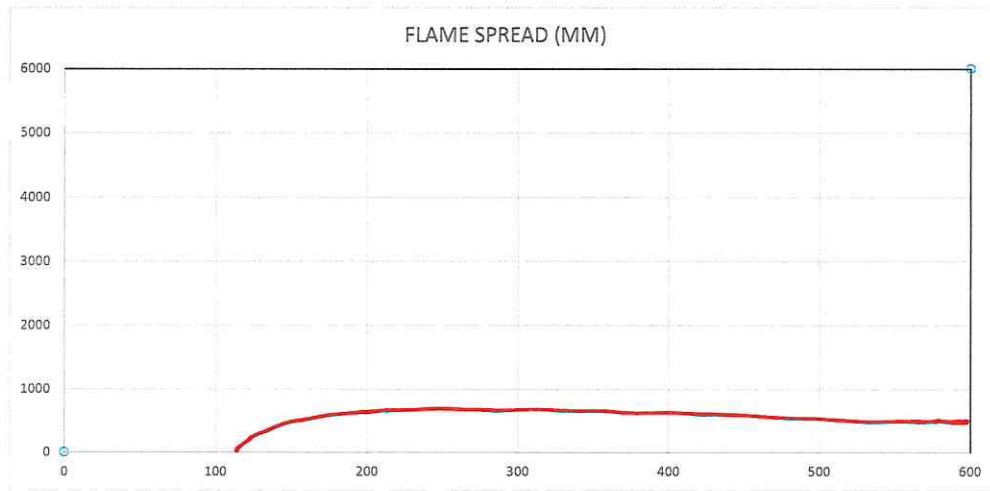
RUN 2

Client: iVekter Inc.

Specimen ID: 12mm ezobord - Silver - Grey - treated with Flamecoat & Fibercare

Test No.: 655815

Standard: CAN/ULC S102



Time (sec)
600

CAN/ULC S102 DATA SHEETS

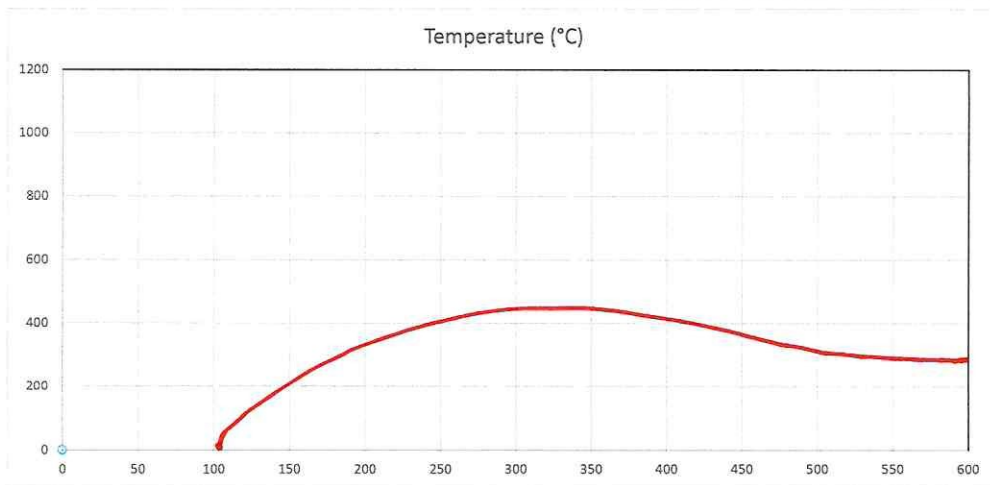
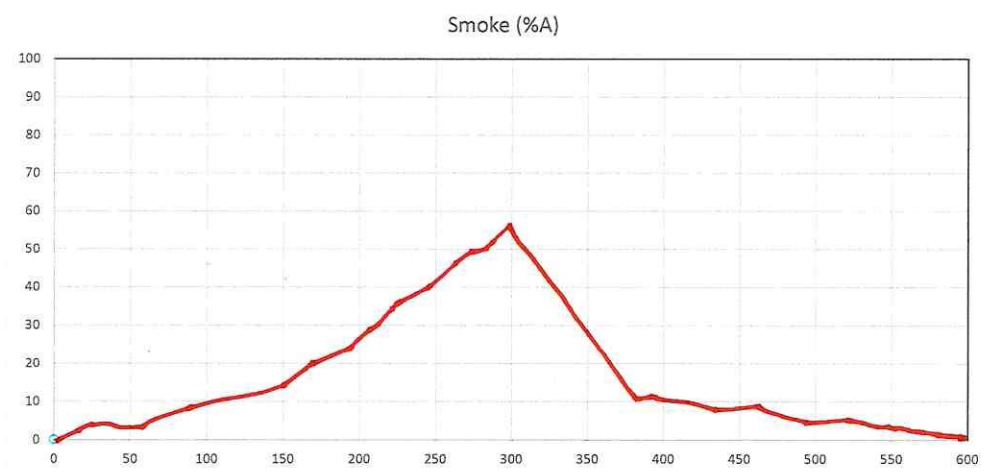
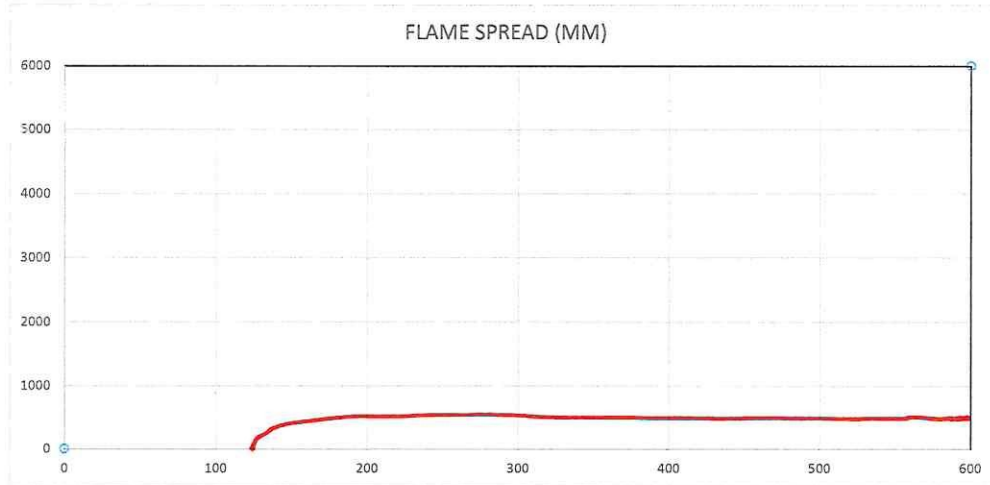
RUN 3

Client: iVektor Inc.

Specimen ID: 12mm ezobord - Silver - Grey - treated with Flamecoat & Fibercare

Test No.: 655815

Standard: CAN/ULC S102



Time (sec)
600