Summary of Investigation
For
Breton SpA, Castello Di Godego TV

Subject: Surface Burning Characteristics of Lapitec Sintered Stone
Reference: 4789650696

February 26th, 2021
(Revised: March 1st, 2021)

The following is a summary of the test results obtained on sintered stone produced from natural minerals submitted for testing by Breton SpA under Project 4789650696. The tests were conducted at ULC's test facility in Toronto, Ontario on February 11th, 2021 in accordance with CAN/ULC-S102:2018-REV1, *Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies*, 8th Edition (Including Revision 1), Revision Date March 2019.

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The sole purpose of this investigation was to provide fire test data for the sintered stone produced from natural minerals submitted and tested in accordance with the requirements of CAN/ULC-S102:2018-REV1. The test results relate only to the items tested and may not apply to subsequently produced samples or assemblies. This data should not be considered representative of test results for other sintered stone produced from natural minerals in the absence of testing the sintered stone produced from natural minerals in accordance with CAN/ULC-S102:2018-REV1.

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Sincerely,

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Reviewed by:

Beny Spensieri Jr

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SAMPLE DESCRIPTION AND PREPARATION

The sintered stone produced from natural minerals was submitted for testing in ready-to-test form and designated “Lapitec Sintered Stone”. Details of the materials used in the construction of the sintered stone produced from natural minerals were not provided nor investigated. The sintered stone produced from natural minerals consisted of a solid, white slab with one glossy side and one dull side. Ten boards – each measuring 732 mm long by 551 mm wide by 13 mm thick – were butted end-to-end to create a 7,320 mm long test. Three test specimens were prepared and conditioned to constant mass at a temperature of 23 ± 3°C and a relative humidity of 50 ± 5% prior to the test.

Due to the rigidity of the test specimens, supplementary means of support was not required. The test specimens were installed on the ceiling of the tunnel furnace with the shinny side exposed to the gas burners. A 350 mm long by 560 mm wide by 1.6 mm thick, uncoated, steel plate was placed on the specimen mounting ledge in front of and under the specimen at the fire end of the tunnel furnace “upstream” from the gas burners to complete the 7620 mm chamber length. An airtight water seal was maintained around the furnace lid during the test.

TEST METHOD

The tests were conducted in accordance with CAN/ULC-S102:2018-REV1, *Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies*, 8th Edition (Including Revision 1), Revision Date March 2019.

This method defines the relative surface burning characteristics under specific test conditions. Although the procedure is applicable to materials, products and assemblies used in building construction for development of comparative surface spread of flame data, test results may not reflect the relative surface burning characteristics of tested materials under all building fire conditions. Test results relate only to the items tested.

SURFACE BURNING CHARACTERISTICS

A summary of the individual test results is tabulated below. Graphical plots of flame spread and light transmission data are attached. The test results relate only to the actual samples tested.

TEST No.	SAMPLE DESCRIPTION	CALCULATED VALUES	
		FLAME SPREAD VALUE (FSV)	SMOKE DEVELOPED VALUE (SDV)
1†	13 mm thick Lapitec Sintered Stone - Glossy side exposed	0.0	0.5
2†	13 mm thick Lapitec Sintered Stone - Glossy side exposed	0.0	2.0
3†	13 mm thick Lapitec Sintered Stone - Glossy side exposed	0.0	3.2

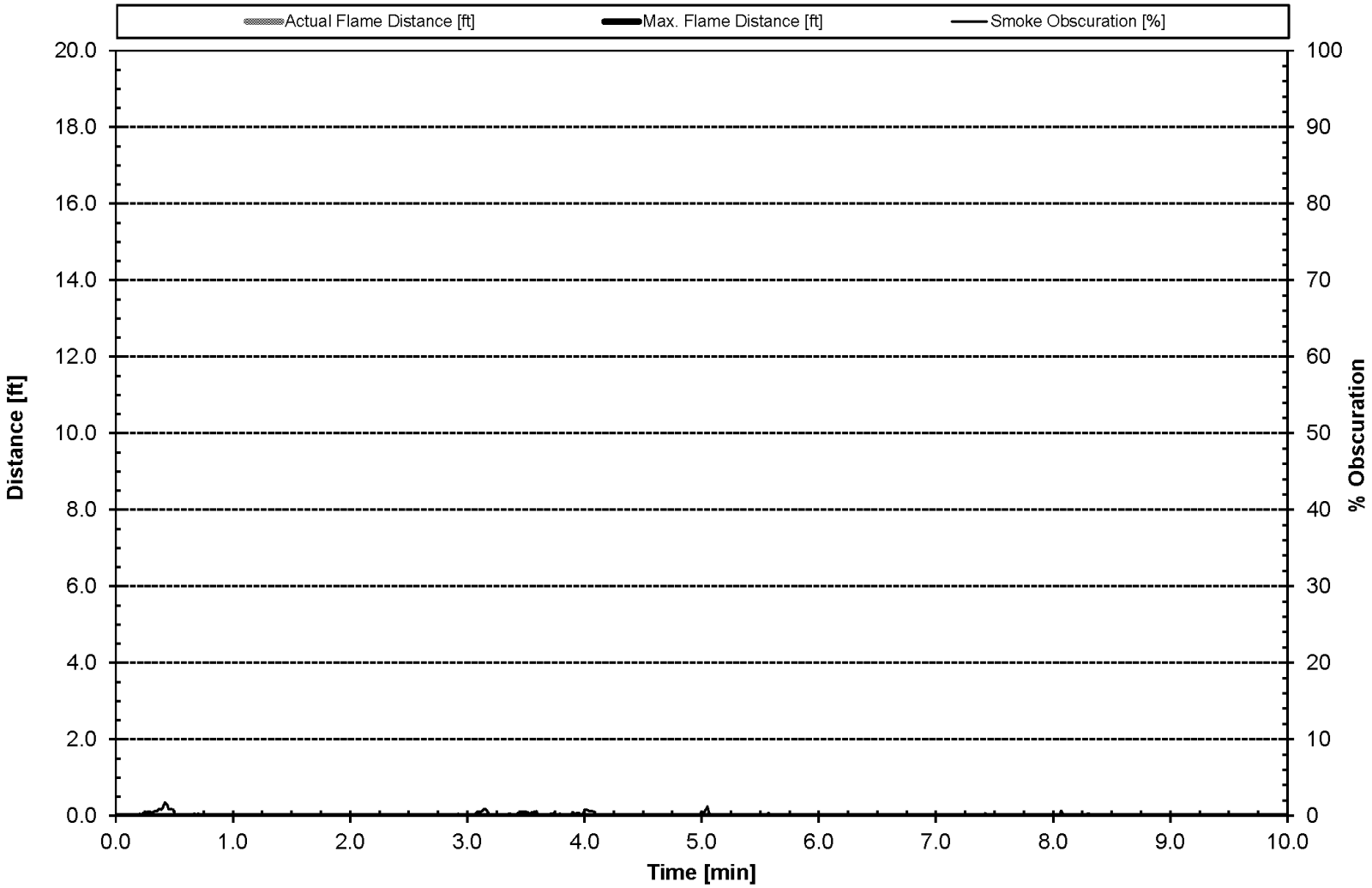
†NOTE: A distinct identifiable ignition on the surface of the sample was not observed.

The surface burning characteristics of sintered stone produced from natural minerals described herein warrants the assignment of the following rating or classification in comparison to untreated red oak as 100 and inorganic reinforced cement board as 0.

MATERIAL DETAILS	RATING OR CLASSIFICATION	
	FLAME SPREAD RATING (FSR)	SMOKE DEVELOPED CLASSIFICATION (SDC)
13 mm thick Lapitec Sintered Stone	0	0

SURFACE BURNING CHARACTERISTICS
BRETON SPA
13 mm thick Lapitec Sintered Stone - Glossy side exposed

Test #1: FSV = 0.0; SDV = 0.5 **CAN/ULC-S102:2018-REV1**



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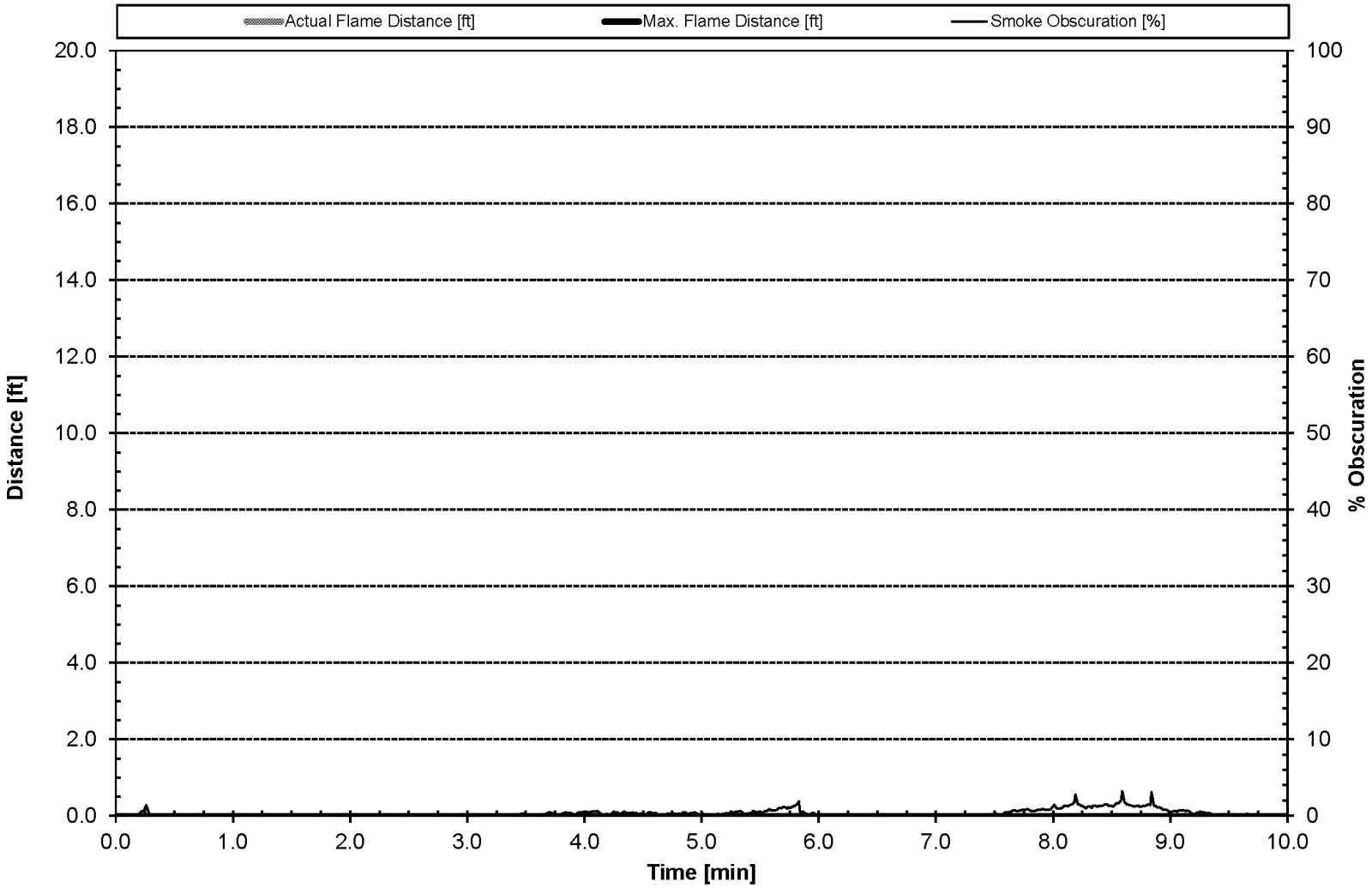
SURFACE BURNING CHARACTERISTICS
BRETON SPA
13 mm thick Lapitec Sintered Stone - Glossy side exposed

Test #2: FSV = 0.0; SDV = 2.0 **CAN/ULC-S102:2018-REV1**



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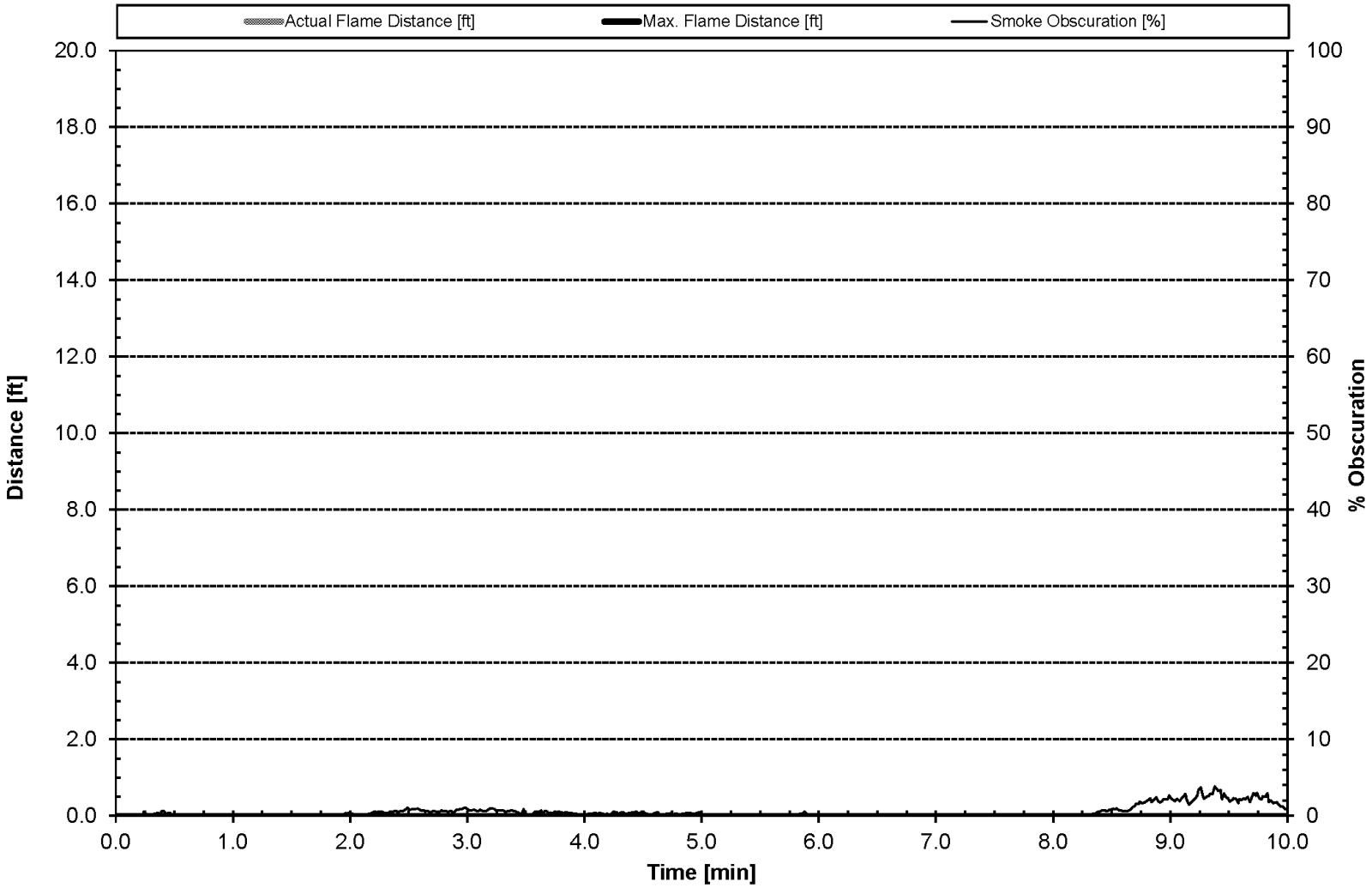
SURFACE BURNING CHARACTERISTICS
BRETON SPA
13 mm thick Lapitec Sintered Stone - Glossy side exposed

Test #3: FSV = 0.0; SDV = 3.2 **CAN/ULC-S102:2018-REV1**



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