Flammability Certificate
5622 Wannabe Rib

DESIGNTEX

5622 Wannabe Rib was tested and met the following flammability requirements:

ASTM E 84 Adhered Class A
CAN/ULC-S102

800.221.1540
designtex.com
Updated 09.10.24

SGS

Tested For:	**Teesha Prezeau**	**Phone:**	(201) 917-7738	**Received:**	6/7/2023
	Designtex	**Fax:**		**Completed:**	6/12/2023
	357 County Avenue	**Mobile:**		**Code:**	N
	Secaucus, NJ 07094	**PO#:**		**Test Report:**	3-51847-0
	USA	**Email:**	tprezeau@designtex.com		

Key Test: ASTM E84/ACT 735

Client's Identification:

Style: Wannabe [also represents Wannabe Rib and Wannabe Stripe]. Composition: 100% Recycled Polyester. Finish: None. Weight: 25 oz/Lin.yd. Product End Use: Wallcovering.

Test Category: Tunnel Test Specifier: ACT LE 2023; V 3/23 BG PC: ME

TEST PERFORMED: ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials [LE 2018a; V 9/18] --

As cited by the Association of Contract Textiles (ACT) Voluntary Performance Guidelines (December 2021)

APPROXIMATE THICKNESS OF SPECIMEN (as measured by SGS North America): 0.117"

SPECIMEN WEIGHT (to include substrate when applicable):

Prior to Conditioning: 93.9 lbs.

Stabilized Weight (taken twice within 24 hours): 93.1 lbs.

PRODUCT CATEGORY:

☒ Textile Type Product
☐ Vinyl Type Product
☐ Other than Textile Type or Vinyl Type Product: _____

BRIEF DESCRIPTION OF TEST: This test method is used to determine the relative burning behavior of a material under defined test conditions. The test is performed in a 25 ft. long tunnel/duct-like apparatus and is often referred to as the "tunnel test". The test contemplates a calibration where Red Oak burns to the 24 ft. mark in 5.5 minutes ± 15 seconds. During the actual test, a 24 ft. long x 23" wide specimen rests horizontally in a ceiling configuration inside the test chamber facing downward and toward two upward oriented burners. A furnace lid that rests in a water trough seals the chamber tight. A cement board placed on the backside of each specimen assembly protects the furnace lid during the test. The near face of the specimen is subjected to a 4.5 ft. flame insult of approximately 88 kW for ten minutes. The time and distance of the spread of flame along the length of the specimen and the smoke developed as read by the photometric system are all recorded. The Flame Spread and Smoke Developed are reported as an Index.

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Key Test: ASTM E84/ACT 735

SPECIMEN MOUNTING:

☐ Self-supporting: The test specimen was rigid enough to be self-supporting when placed into test position. No additional support was required.

☒ Adhered to IRC: The test specimen was bonded to ¼" Inorganic Reinforced Cement (IRC) boards.

☐ Adhered to Gypsum: The test specimen was adhered to $^{5}/_{8}$" thick Type X gypsum board.

☐ Unadhered: The specimen was not adhered to any substrate. Instead, it was laid over a 2" hexagonal wire mesh screen and ¼" rods.

☐ Other: _____

SPECIMEN LENGTH: The 24 ft. length was comprised of:

☐ Continuous unbroken 24 ft. length
☒ Sections: ☐ Three 8 ft. sections butted end to end
☐ Three 8 ft. sections positively joined
☒ Four 5 ft. and one 4 ft. sections butted end to end
☐ Other: _____

ADHESIVE (applied by SGS North America): ☐ No
☒ Yes (specify): Roman Pro-880

OBSERVATIONS: ☐ No unusual observations
☒ Burning Drips to Floor further qualified as: ☒ Minor; ☐ Moderate; ☐ Major
☐ Delamination
☐ Sagging
☐ Shrinkage
☐ Fallout (specimen displacement from ceiling mount)
☐ Other: _____

REMARKS: ☒ None
☐ Other: _____

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Key Test: ASTM E84/ACT 735

RESULTS: Flame Spread Index: 25
Smoke Developed: 10

ROUNDING: Flame Spread Index value has been rounded to the nearest multiple of 5.
Smoke Developed value has been rounded to:

Raw Data	Rounded
Less than 200	Nearest multiple of 5
200 or more	Nearest multiple of 50

ACCEPTANCE CRITERIA (as cited by ACT):

	Flame Spread Index	Smoke Developed
Class A	0 - 25	450 or less

NOTE: Class A is also known as Class 1 and may be so specified in some Codes.

CONCLUSION: Based on the reported Results and cited Acceptance Criteria, the item tested:

☒ Complies ☐ Does not comply

DATA SUMMARY:

Time to Ignition (minutes:seconds): 02:10
Maximum Flame Spread "Distance" (feet): 6.2
Maximum Flame Spread "Time" (seconds): 197

CODE CLASSIFICATION: Based on the reported Results and cited Code Classification System, the item tested is assigned a:

☒ Class I or A rating
☐ Class II or B rating
☐ Class III or C rating
☐ Fails to achieve a minimum classification thereby rendering the product unsuitable in terms of code requirement.
☐ Based on product performance*, ASTM E84 is not a suitable test method for the material.

* Severe melt, drip, delamination or other behavior that destroys the continuity of the flame front such that a valid flame spread is unobtainable (See "Remarks" on Page 2 of 4.)

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USA

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Email: tprezeau@designtex.com

Received: 6/7/2023
Completed: 6/12/2023
Code: N
Test Report: 3-51847-0

Key Test: ASTM E84/ACT

CODE CLASSIFICATION SYSTEM:

	Flame Spread Index	Smoke Developed
Class I or A:	0 - 25	450 or less
Class II or B:	26 - 75	450 or less
Class III or C:	76 - 200	450 or less

LIMITATIONS OF THE ASTM E84 CLASSIFICATION SCHEME: Most building codes will accept the ASTM E84 classifications when the interior finish product is used in a sprinklered area. Certain local authorities such as NYC have more stringent requirements, i.e. Smoke Developed ranges from a maximum 25 to 100.

If the interior finish product is a textile or vinyl wall covering used in a non-sprinklered area, the NFPA 265 room corner fire test applies.

Certain products which give off excessive heat such as but not limited to cellular plastics, cellular foam (either with or without coverings as applicable), polypropylene, and high density polyethylene should be tested by NFPA 286 - Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth. In SGS North America's opinion, the codes require NFPA 286 for such products, even in sprinklered areas.

CERTIFICATION: I certify that the reported results were obtained after testing specimens in accordance with the procedures and equipment specified above.

DocuSigned by:
Michael Magee
1D12C24670FA402...
6/15/2023

AUTHORIZED SIGNATURE
SGS NORTH AMERICA
/ab /dv

Test Engineer: Matthew Simak

DS
MM

Enclosure: Graphs

Program: Steiner Tunnel (Version 1.0.3.0)

Test Method	:	ASTM E84
Report #	:	3-51847-0
Test Date	:	6/12/2023
Client	:	Designtex
Operator	:	Matthew Simak
Details of Preparation	:	The test specimen was bonded to 1/4" inorganic reienforced cement boards (IRC) using roman pro 880. The specimen length was comprised of four 5ft and one 4ft sections butted end to end.
Observations	:	Minor burning drips to floor.

Results

Area Under Flame Curve (ft min)	:	48.04
Raw Flame Spread Index	:	24.74
Ignition Time (mm:ss)	:	02:10
Area Under Smoke Curve (%A min)	:	7.45
Raw Smoke Developed Index	:	9.44
Total Gas Flow (ft^3)	:	56.4
Maximum Flame Front Achieved (ft)	:	6.2 @ 197s
Flame Spread Index	:	**25**
Smoke Developed Index	:	**10**
Material Classification	:	**A**

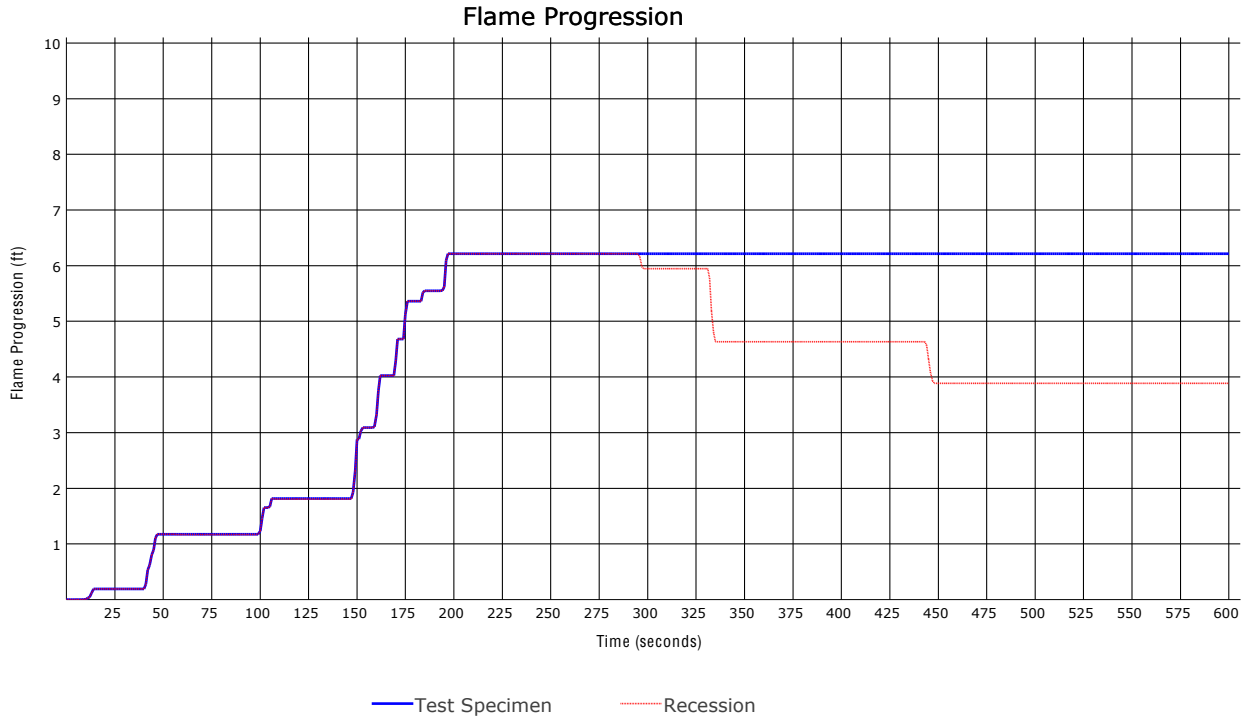
CERTIFICATION : I certify that the above results were obtained after testing the specimens in accordance with the procedures and equipment specified by ASTM E84

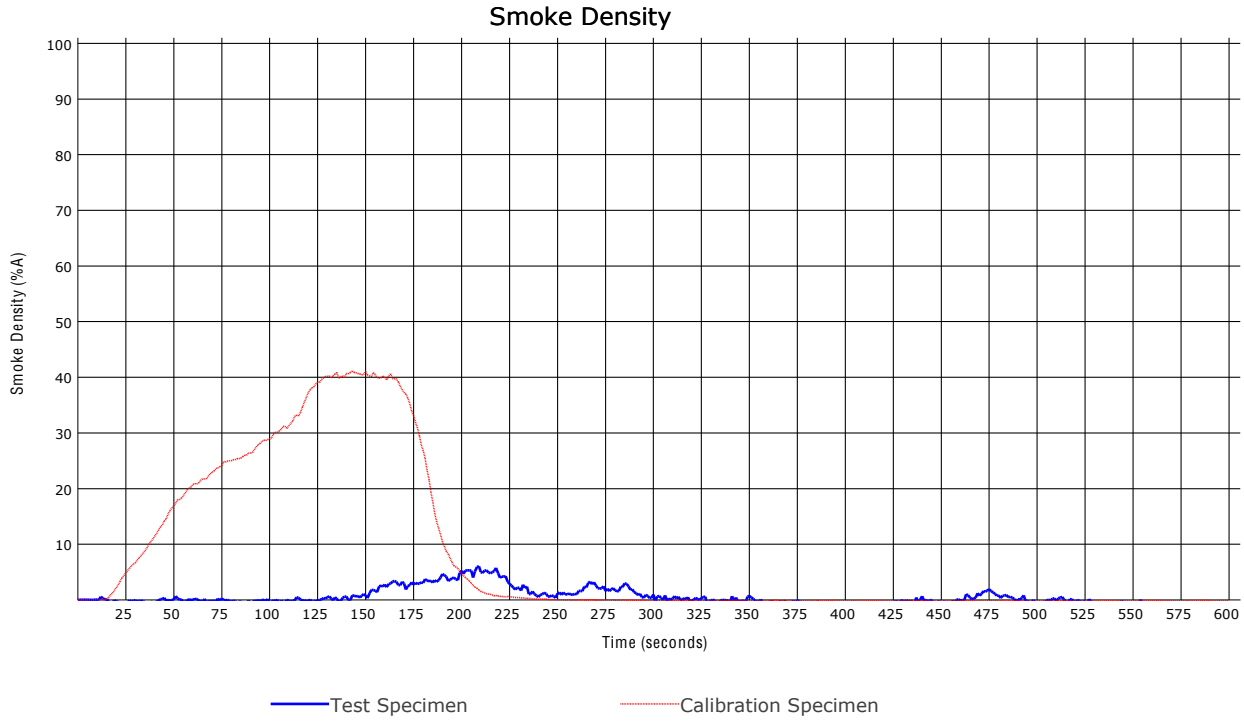
Matthew Simak

AUTHORIZED SIGNATURE

Program: Steiner Tunnel (Version 1.0.3.0)

Test Method : ASTM E84
Test Report # : 3-51847-0





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Testing. calibrating. advising

CAN/ULC-S102 Surface Burning Characteristics of "Wannabe / Wannabe Rib" Polyester Felt

A Report To:	**Designtex** 357 County Avenue Secaucus, NJ 07094 USA
Phone:	+1 201-917-7743
Attention: E-mail:	Adity Phadnis aphadnis@designtex.com
Submitted by:	Exova Warringtonfire North America
Report No.	18-002-489 6 Pages
Date:	September 4, 2018

ACCREDITATION To ISO/IEC 17025 for a defined Scope of Testing by the International Accreditation Service

SPECIFICATIONS OF ORDER

Determine Flame Spread and Smoke Developed Values based upon triplicate testing conducted in accordance with CAN/ULC-S102-10, as per Designtex reference Purchase Order No. 2015670 dated August 9, 2018.

SAMPLE IDENTIFICATION (Exova sample identification number 18-002-S0489)

Ribbed felt material, adhered to a cement board substrate, described as 100% Polyester Felt", identified as: "Wannabe / Wannabe Rib"

TEST PROCEDURE

The method, designated as CAN/ULC-S102-10, "Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies", is designed to determine the relative surface burning characteristics of materials under specific test conditions. Results of less than three identical specimens are expressed in terms of Flame Spread Value (FSV) and Smoke Developed Value (SDV). Results of three or more replicate tests on identical samples produce average values expressed as Flame Spread Rating (FSR) and Smoke Developed Classification (SDC).

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

SAMPLE PREPARATION

The 2.5 mm thick felt material was adhered to a 6 mm thick fiberglass reinforced cement board substrate using Roberts Multi-purpose adhesive. Each test specimen consisted of a total of three prepared sections of material, each approximately 533 mm in width by 2438 mm in length. The sections were butted together to create the requisite specimen length. Prior to testing, each specimen was conditioned to constant mass at a temperature of 23 ± 3°C and a relative humidity of 50 ± 5%. At the initiation of testing, each specimen was self-supporting. In all cases, the ribbed surface was exposed to the test flame.

Testing was performed on: Test #1: 2018-09-04 Test #2: 2018-09-04 Test #3: 2018-09-04

SUMMARY OF TEST PROCEDURE

The tunnel is preheated to 85°C, as measured by the backwall-embedded thermocouple located 7090 mm downstream of the burner ports, and allowed to cool to 40°C, as measured by the backwall-embedded thermocouple located 4000 mm from the burners. At this time the tunnel lid is raised and the test sample is placed along the ledges of the tunnel so as to form a continuous ceiling 7315 mm long, 305 mm above the floor. The lid is then lowered into place.

SUMMARY OF TEST PROCEDURE (continued)

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 the Flame Spread Values (FSV) are determined by calculating the total area under the curve for each test sample. If the total area under the curve (AT) is less than or equal to 29.7 m·min, FSV = 1.85·AT; if greater, FSV = 1640/(59.4-AT).

The Smoke Developed Value is determined by comparing the area under the obscuration curve for the test sample to that of inorganic reinforced cement board and red oak, established as 0 and 100, respectively. The Smoke Developed Value (SDV) is determined by dividing the total area under the obscuration curve by that of red oak and multiplying by 100.

TEST RESULTS

SAMPLE: **"Wannabe / Wannabe Rib"**

Test	Approx. Time to Ignition (s)	Maximum Flame Front Distance (m)	Time to Maximum Flame Front (s)	Maximum Air Temperature (°C)	Flame Spread Value (FSV)	Smoke Developed Value (SDV)
1	26	0.90	205	328	**12**	**57**
2	25	1.05	207	322	**14**	**45**
3	22	0.69	185	312	**10**	**48**
				Average:	12	50
				Rounded Average Flame Spread Rating **(FSR)**:	**10**	-
				Rounded Average Smoke Developed Classification **(SDC)**:	-	**50**

Observations of Burning Characteristics

The specimens ignited approximately 22 to 26 seconds after exposure to the test flame. Melting, dripping, and flaming dripping behavior was observed. In Test #2, material that dripped to the floor of the apparatus also ignited.

Results Interpretation

CAN/ULC-S102-10 contains no performance criteria of its own. The National Building Code of Canada (NBCC) or other jurisdictional documentation should be referenced to determine the FSR and/or SDC performance criteria that is applicable to the product under test for the intended application.

Francis Williams,
Technician.

Ian Smith,
Technical Manager.

Test 1 of 3 Sample: "Wannabe / Wannabe Rib"

Chart 1. FLAME SPREAD (Specimen #1)

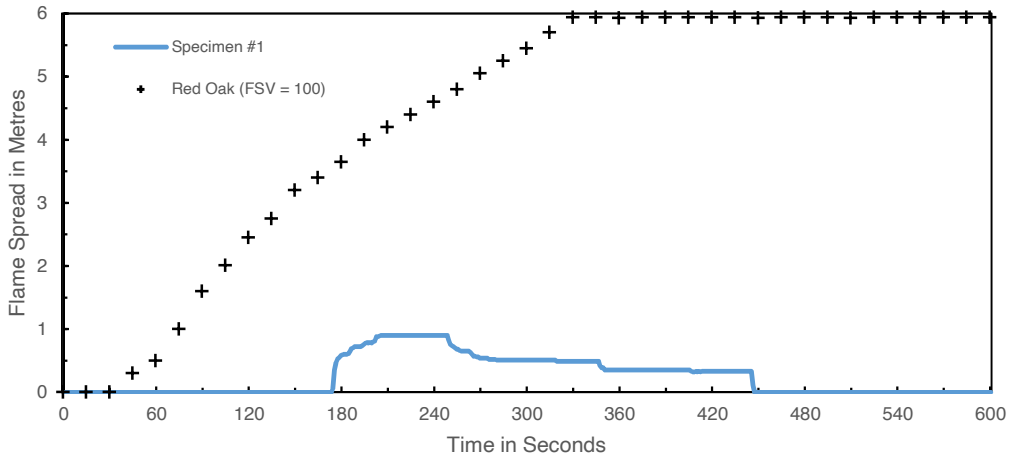


Chart 2. SMOKE DEVELOPED (Specimen #1)

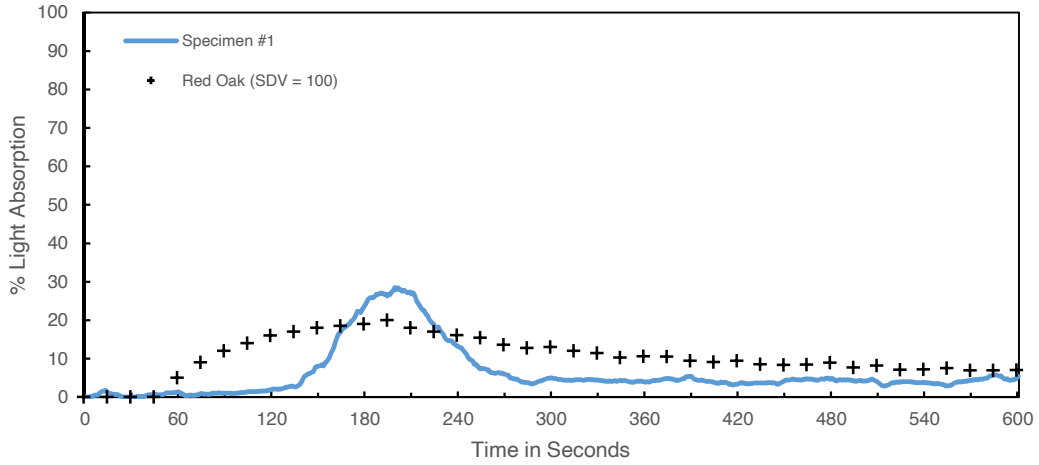
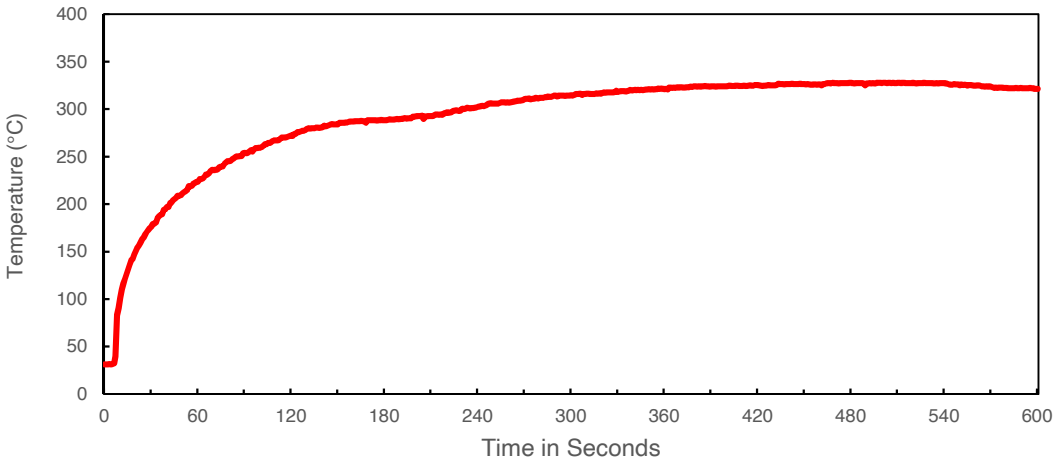


Chart 3. TEMPERATURE (Specimen #1)



Flame Spread Value (FSV)	Smoke Developed Value (SDV)	Maximum Air Temperature (°C)
12	**57**	328

Test 2 of 3 Sample: "Wannabe / Wannabe Rib"

Chart 4. FLAME SPREAD (Specimen #2)

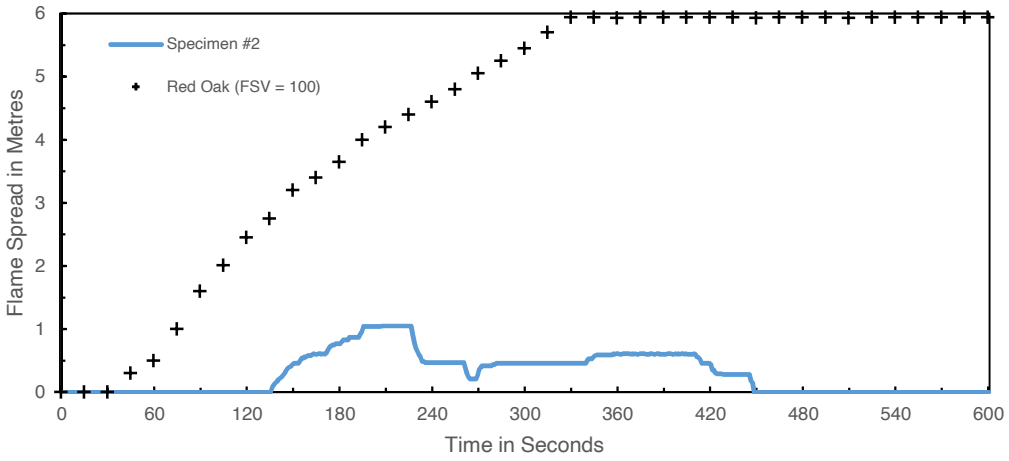


Chart 5. SMOKE DEVELOPED (Specimen #2)

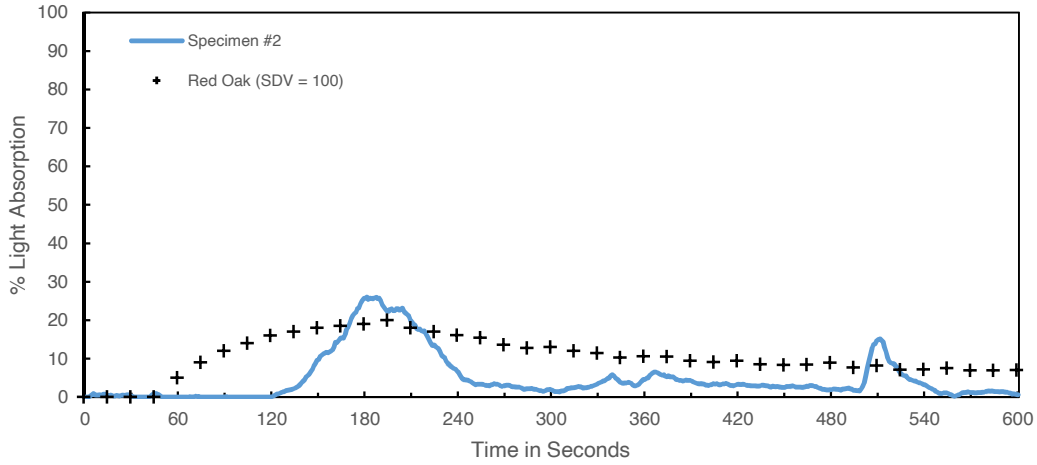
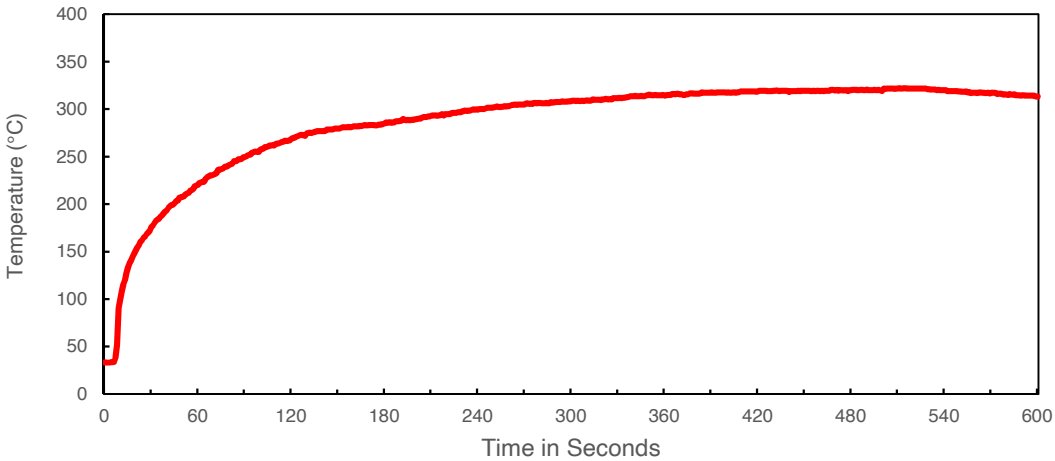


Chart 6. TEMPERATURE (Specimen #2)



Flame Spread Value (FSV)	Smoke Developed Value (SDV)	Maximum Air Temperature (°C)
14	**45**	322

Test 3 of 3 Sample: "Wannabe / Wannabe Rib"

Chart 7. FLAME SPREAD (Specimen #3)

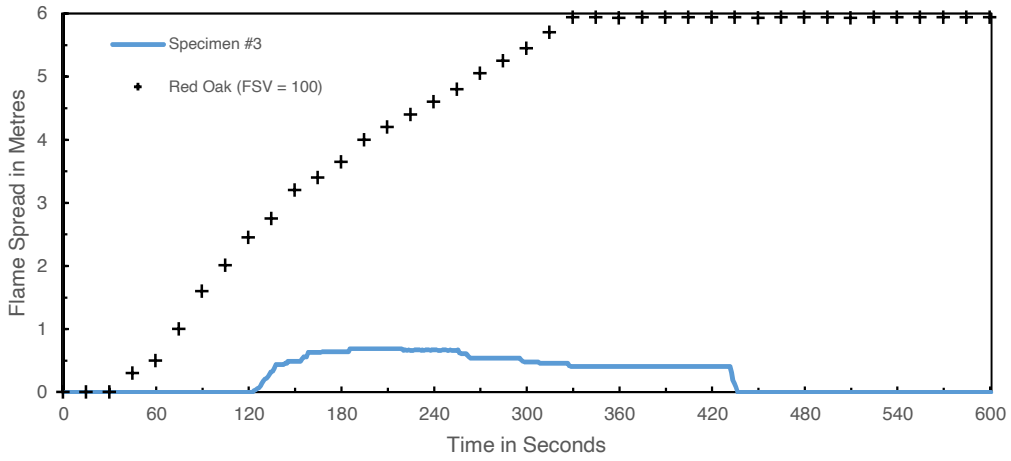


Chart 8. SMOKE DEVELOPED (Specimen #3)

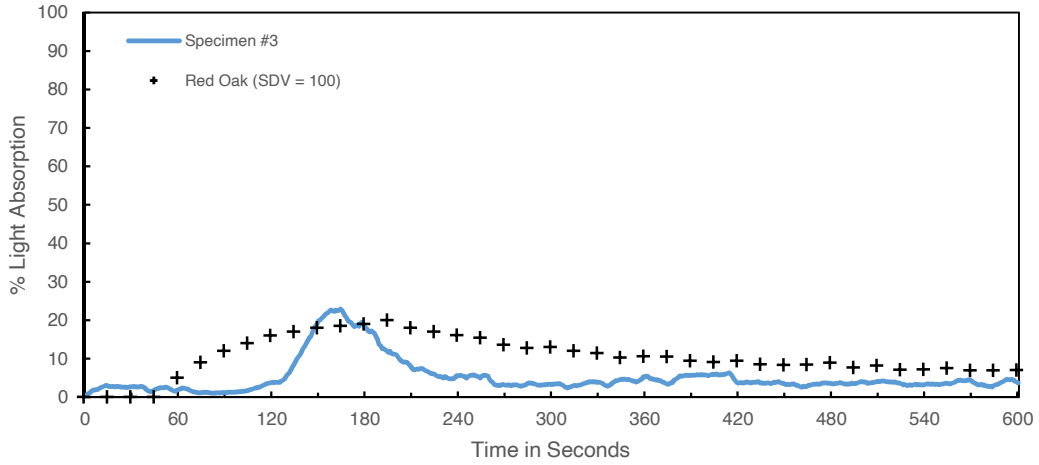
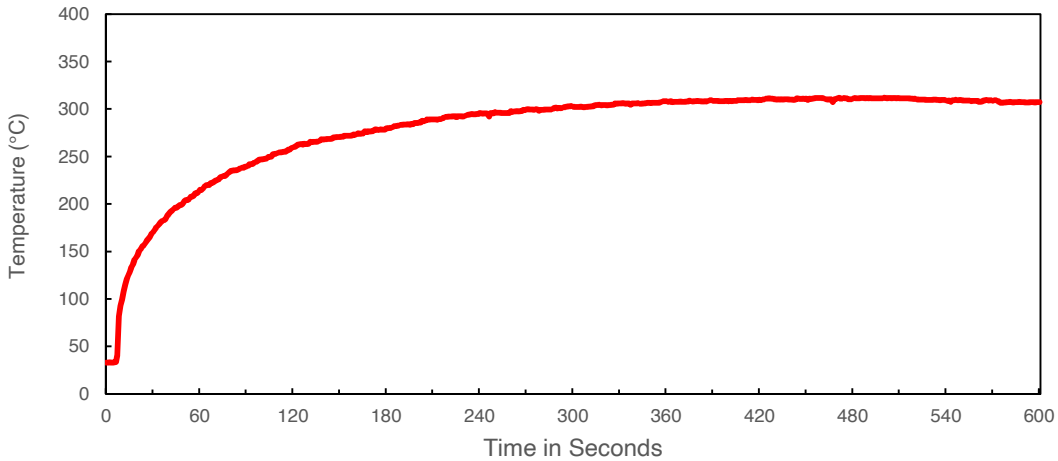


Chart 9. TEMPERATURE (Specimen #3)



Flame Spread Value (FSV)	Smoke Developed Value (SDV)	Maximum Air Temperature (°C)
10	**48**	312