Flammability Certificate
8405 Grasscloth

DESIGNTEX

8405 Grasscloth was tested and met the following flammability requirements:

ASTM E84 Adhered Class A

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800.221.1540
designtex.com

Updated 12.04.25

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SGS

Tested For:	**Phone:**	**Received:**	6/7/2023
Designtex	**Fax:**	**Completed:**	6/12/2023
200 Hudson St, 9th Floor	**Mobile:**	**Code:**	T
New York, NY 10013	**PO#:**	**Test Report:**	3-51853-0
USA	**Email:**		

Key Test: ASTM E84/ACT 735

Client's Identification:

Material ID: 20 oz Vinyl Wallcovering with Non-Woven Backing.

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): 0.013"

SPECIMEN WEIGHT (to include substrate when applicable):

Prior to Conditioning: 94.5 lbs.

Stabilized Weight (taken twice within 24 hours): 94.0 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.

The results contained in this report relate only to the item(s) tested. The test report shall not be reproduced except in full, without written approval from SGS North America.

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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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RESULTS: Flame Spread Index: 5
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): 01:39
Maximum Flame Spread "Distance" (feet): 1.9
Maximum Flame Spread "Time" (seconds): 226

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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Key Test: ASTM E84/ACT 735

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:
Bobby Brown
B50EB94D593C454...

6/14/2023

AUTHORIZED SIGNATURE
SGS NORTH AMERICA
/jab /gb

Test Engineer: Jimmy Rosinsky

DS
BB

Enclosure: Graphs

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Program: Steiner Tunnel (Version 1.0.3.0)

Test Method	:	ASTM E84
Report #	:	3-51853-0-T
Test Date	:	6/12/2023
Client	:	Designtex
Operator	:	Jimmy Rosinsky
Details of Preparation	:	The test specimen was bonded to 1/4" Inorganic Reinforced Cement boards using Roman Pro 880 glue. The 24 ft. length was comprised of four 5 ft. sections and one 4 ft. section butted end to end.
Observations	:	No unusual observations

Results

Area Under Flame Curve (ft min)	:	14.07
Raw Flame Spread Index	:	7.24
Ignition Time (mm:ss)	:	01:39
Area Under Smoke Curve (%A min)	:	9.51
Raw Smoke Developed Index	:	12.06
Total Gas Flow (ft^3)	:	56.3
Maximum Flame Front Achieved (ft)	:	1.9 @ 226s
Flame Spread Index	:	**5**
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

Jimmy Rosinsky

AUTHORIZED SIGNATURE

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Program: Steiner Tunnel (Version 1.0.3.0)

Test Method : ASTM E84
Test Report # : 3-51853-0-T