

PO Box 1948 - 1503 East Morris Street - Dalton, GA 30722
 Phone: 706-278-3013 • Fax: 706-272-7057 • E-mail: info@ittslab.com

Test Report

Customer: Kvadrat Inc.

December 17, 2020

Subject: Specimens of the submitted sample were prepared and tested in accordance with ASTM E 648-17 and/or Federal Test Method 372. NFPA 253

FLOORING RADIANT PANEL TEST

Sample Description

Kanon col. 0002
 Kvadrat Rugs by Kinnasand

Test Assembly

Mounted on 6mm FRC Board
 (Using Premium Multi Purpose Adhesive)

<u>Test Results</u>	<u>Specimen No. 1</u>	<u>Specimen No. 2</u>	<u>Specimen No. 3</u>
Critical Radiant Flux	0.54 watts/cm ²	0.48 watts/cm ²	0.51 watts/cm ²
Total Burn Length	37.0 cm	40.0 cm	39.0 cm
Flame Front Out	11.0 minutes	12.0 minutes	11.0 minutes

Average Critical Radiant Flux **0.51 watts/cm²**

Estimated Standard Deviation **0.03 watts/cm²**

5.9% coefficient of variation



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Test Report

Customer: Kvadrat Inc.

December 17, 2020

Subject: Specimens of the submitted sample were prepared and tested in accordance with the procedures proposed by the National Institute of Standards and Technology (formerly National Bureau of Standards), Technical Note 708 and NFPA 258, ASTM E 662-15a.

SMOKE DENSITY TEST (NIST)

Operating Conditions

Irradiance:	2.5 watts/cm ²	G Factor	132
Thermal Exposure:	Flaming		
Furnace Voltage:	1260		
Burner Fuel:	Propane		

Sample Description

Kanon col. 0002
 Kvadrat Rugs by Kinnasand

Test Results

	#1	#2	#3	Average
Chamber Temperature, °F (start)	95	95	95	
Chamber Pressure	Maintained positive, under 3" H ₂ O			
Minimum Transmittance (TM), %	30%	26%	27%	
at, minutes	10.05	9.57	11.77	10.46
Maximum Specific Optical Density (DM)	69	77	75	74
Clear Beam, (DC)	4	4	3	4
DM, CORRECTED (DMC)	65	73	72	70
Specific Optical Density at 1.5 minutes	3	4	2	3
Specific Optical Density at 4.0 minutes	24	33	13	23
Time to 90% DM, minutes	7.02	6.52	8.40	7.31
Time to DS = 16, minutes	3.72	3.47	4.12	3.77

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SMOKE DENSITY TEST (NIST)

Operating Conditions

Irradiance: 2.5 watts/cm² G Factor 132
 Thermal Exposure: Non-flaming
 Furnace Voltage: 107
 Burner Fuel: --

Sample Description

Kanon col. 0002
 Kvadrat Rugs by Kinnasand

Test Results

	#1	#2	#3	Average
Chamber Temperature, °F (start)	95	95	95	
Chamber Pressure	Maintained positive, under 3" H ₂ O			
Minimum Transmittance (TM), %	30%	20%	35%	
at, minutes	13.15	12.35	13.35	12.95
Maximum Specific Optical Density (DM)	333	356	324	338
Clear Beam, (DC)	10	11	7	9
DM, CORRECTED (DMC)	323	345	317	328
Specific Optical Density at 1.5 minutes	9	9	8	9
Specific Optical Density at 4.0 minutes	150	169	146	155
Time to 90% DM, minutes	8.67	7.95	8.40	8.34
Time to DS = 16, minutes	1.72	1.70	1.77	1.73



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