

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

Vintage col. 0662
 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	0.87 watts/cm ²	0.81 watts/cm ²	0.78 watts/cm ²
Total Burn Length	20.0 cm	23.0 cm	25.0 cm
Flame Front Out	10.0 minutes	10.0 minutes	10.0 minutes

<u>Average Critical Radiant Flux</u>	0.82 watts/cm²
Estimated Standard Deviation	0.05 watts/cm²
	5.6% coefficient of variation

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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:	1259		
Burner Fuel:	Propane		

Sample Description

Vintage col. 0662
 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), %	16%	20%	12%	
at, minutes	11.92	8.33	8.77	9.67
Maximum Specific Optical Density (DM)	105	92	122	106
Clear Beam, (DC)	1	1	1	1
DM, CORRECTED (DMC)	104	91	121	105
Specific Optical Density at 1.5 minutes	7	6	14	9
Specific Optical Density at 4.0 minutes	43	53	77	58
Time to 90% DM, minutes	9.05	5.93	6.85	7.28
Time to DS = 16, minutes	2.55	2.23	1.57	2.12

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SMOKE DENSITY TEST (NIST)

Operating Conditions

Irradiance:	2.5 watts/cm ²	G Factor	132
Thermal Exposure:	Non-flaming		
Furnace Voltage:	107		
Burner Fuel:	--		

Sample Description

Vintage col. 0662
 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), %	55%	25%	33%	
at, minutes	12.77	11.85	12.92	12.51
Maximum Specific Optical Density (DM)	298	343	328	323
Clear Beam, (DC)	1	1	1	1
DM, CORRECTED (DMC)	297	342	327	322
Specific Optical Density at 1.5 minutes	2	4	3	3
Specific Optical Density at 4.0 minutes	132	140	143	138
Time to 90% DM, minutes	8.62	8.40	8.67	8.56
Time to DS = 16, minutes	1.98	1.93	1.92	1.94