

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

Zenit col 0904
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	0.74 watts/cm ²	0.83 watts/cm ²	0.68 watts/cm ²
Total Burn Length	27.0 cm	22.0 cm	30.0 cm
Flame Front Out	10.0 minutes	10.0 minutes	10.0 minutes

Average Critical Radiant Flux **0.75 watts/cm²**
Estimated Standard Deviation **0.08 watts/cm²**
10.1% coefficient of variation



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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

Zenit col 0904
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), %	13%	1%	1%	
at, minutes	11.22	9.00	10.12	10.11
Maximum Specific Optical Density (DM)	777	924	924	875
Clear Beam, (DC)	26	5	11	14
DM, CORRECTED (DMC)	751	919	913	861
Specific Optical Density at 1.5 minutes	60	26	26	37
Specific Optical Density at 4.0 minutes	391	429	443	421
Time to 90% DM, minutes	9.30	7.12	8.35	8.26
Time to DS = 16, minutes	1.07	1.40	1.32	1.26

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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

Zenit col 0904
 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), %	12%	69%	72%	
at, minutes	20.00	20.00	20.00	20.00
Maximum Specific Optical Density (DM)	254	285	283	274
Clear Beam, (DC)	1	1	1	1
DM, CORRECTED (DMC)	253	284	282	273
Specific Optical Density at 1.5 minutes	15	20	19	18
Specific Optical Density at 4.0 minutes	48	60	62	57
Time to 90% DM, minutes	16.93	16.60	17.07	16.87
Time to DS = 16, minutes	1.70	1.30	1.33	1.44



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