

P.O. Box 1948

1503 Murray Ave.

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TEST REPORT

Customer: UPOFLOOR

January 19, 2005

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 662-03.

SMOKE DENSITY TEST (NIST)

Operating Conditions

Irradiance:	2.5 watts/cm ²	G Factor	132
Thermal Exposure:	Non-flaming		
Furnace Voltage:	104		
Burner Fuel:	--		

Sample Description

Altro Vinyl Quartz Tile
 Gauge: 2.5 mm.

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), %	37%	46%	41%	
at, minutes	10.10	9.80	10.00	9.97
Maximum Specific Optical Density (DM)	189	177	183	183
Clear Beam, (DC)	4	3	3	3
DM, CORRECTED (DMC)	185	174	180	180
Specific Optical Density at 1.5 minutes	21	26	24	24
Specific Optical Density at 4.0 minutes	127	113	118	119
Time to 90% DM, minutes	8.40	7.10	7.60	7.70
Time to DS = 16, minutes	1.40	1.30	1.30	1.33



L. Kent Suddeth
 Executive Vice President

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SMOKE DENSITY TEST (NIST)

Operating Conditions

Irradiance:	2.5 watts/cm ²	G Factor	132
Thermal Exposure:	Flaming		
Furnace Voltage:	105		
Burner Fuel:	Propane		

Sample Description

Altro Vinyl Quartz Tile
 Gauge: 2.5 mm.

Test Results

Chamber Temperature, °F (start)
 Chamber Pressure
 Minimum Transmittance (TM), %
 at, minutes
 Maximum Specific Optical Density (DM)
 Clear Beam, (DC)
DM, CORRECTED (DMC)
 Specific Optical Density at 1.5 minutes
 Specific Optical Density at 4.0 minutes
 Time to 90% DM, minutes
 Time to DS = 16, minutes

#1	#2	#3	Average
95	95	95	
Maintained positive, under 3" H ₂ O			
31%	21%	27%	
5.00	4.40	4.90	4.77
199	221	207	209
16	15	15	15
183	206	192	194
60	75	67	67
192	219	201	204
3.40	3.20	3.30	3.30
1.00	0.80	0.90	0.90



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