TEST REPORT

DATE: 11/30/2006	TEST NUMBER: 104215
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CLIENT	Mats, Inc.

TEST METHOD CONDUCTED	ASTM E662-03 Smoke Density (Flaming) Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials also
	referenced as NFPA 258

DESCRIPTION OF TEST SAMPLE		
IDENTIFICATION	Pro Shield Tile	
COLOR	Blue	
ROLL		
CONSTRUCTION	Needle Punch	
FIBER		
BACKING	Rubber	
REFERENCE		

GENERAL PRINCIPLE

This procedure is designed to measure the specific optical density of smoke generated by the test specimen within a closed chamber. Each specimen is exposed to an electrically heated radiant-energy source positioned to provide a constant irradiance level of 2.5 watts/square cm on the specimen surface. Measurements are recorded through a photometric system employing a vertical beam of light and a photo detector positioned to detect the attenuation of light transmittance caused by smoke accumulation within the chamber. The light transmittance measurements are used to calculate specific optical density, a quantitative value which can be factored to estimate the smoke potential of materials. Two burning conditions can be simulated by the test apparatus. The radiant heating in the absence of ignition is referred to as the Non-Flaming Mode. A flaming combustion in the presence of supporting radiation constitutes the Flaming Mode.

CONDITIONS				
PREDRYING OF TEST SAMPLE	24 Hours at 140° F			
CONDITIONING OF TEST SAMPLE	24 Hours at 70° F and 50% Relative Humidity			
FURNACE VOLTAGE	114 V	IRRADIANCE	2.5 watts/sq cm	
CHAMBER TEMPERATURE	95° F	CHAMBER PRESSURE	3" H ₂ O	
TEST MODE	Flaming			

AVERAGE MAXIMUM DENSITY CORRECTED (DM	nc)	FLAMING	104
AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MI	56		
	Specimen 1	Specimen 2	Specimen 3
Maximum Density (Dm)	143.0	122.0	84.0
Time to Dm (minutes)	11.0	11.5	12.0
Clear Beam (Dc)	14.0	11.0	11.0
Corr. Max Density (Dmc)	129.0	111.0	73.0
Density at 1.5 minutes	41.0	42.0	41.0
Density at 4.0 minutes	57.0	54.0	56.0
Time to 90% Dm (minutes)	9.0	9.0	9.5
Specimen Weight (grams)	17.4	17.4	17.4

APPROVED BY:

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