

TEST REPORT

DATE: 04-27-2017	Page 1 of 1	TEST NUMBER:	0237048
CLIENT	Magnetic Building Solutions		
TEST METHOD CONDUCTED	ASTM E662 Smoke Density (Non-Flaming) Sto Specific Optical Density of Smoke Generated referenced as NFPA 258		

DESCRIPTION OF TEST SAMPLE

IDENTIFICATION	Magnetic Underlayment

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				
TESTING CONDITION	As Received				
FURNACE VOLTAGE	118 V	IRRADIANCE	2.5 watts/sq cm		
CHAMBER TEMPERATURE	95° F	CHAMBER PRESSURE	3" H ₂ O		
TEST MODE	Non-Flaming				

AVERAGE MAXIMUM DENSITY CORRECTED (Dmc) NON-FLAMING		70	
AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES			64
	Specimen 1	Specimen 2	Specimen 3
Maximum Density (Dm)	61.0	75.0	84.0
Time to Dm (minutes)	6.0	6.5	6.5
Clear Beam (Dc)	1.0	3.0	5.0
Corr. Max Density (Dmc)	60.0	72.0	79.0
Density at 1.5 minutes	9.0	13.0	18.0
Density at 4.0 minutes	51.0	68.0	73.0
Time to 90% Dm (minutes)	3.5	3.5	3.5
Specimen Weight (grams)	26.3	26.3	26.4

* This sample PASSES the requirements of 450 or less.

Harry athury APPROVED BY:



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