

Spectral Test

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Hemispherical Spectral Reflectance Test Report

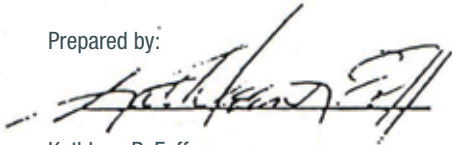
presented by:

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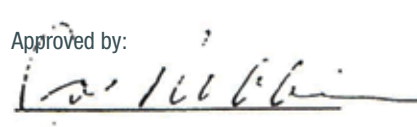
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Introduction

This report presents results of spectral reflectance measurements on the following five specimens:

TC1/45B/202 and TC938/45S/202	Elastomeric Insulating Roof Coating for non-metal
TC1/45B/101 and TC938/45S/101	Elastomeric Insulating Roof Coating for metal

Test Methods and Procedures

Hemispherical spectral reflectance measurements were performed in accordance with ASTM Standard Test Method E903-88. The measurements were performed with a Beckman 5240 Spectrophotometer utilizing an integrating sphere. Total reflectance measurements were obtained in the solar spectrum from 2500nm to 300nm at an incident angle of 15°C. The measurements employ a detector-baffled, wall-mounted integrating sphere that precludes the necessity of employing a reference standard except to define the instrument's 100% line. The measurements are properly denoted as being "hemispherical spectral reflectance".

Total Solar (p) reflectance value was obtained by integrating the spectral data against Air Mass 1.5¹ global solar spectrum utilizing 109 weighted ordinates. All spectral data are submitted herewith in the original.

Observations, Deviation, and Waivers

The measurements were made with the uncoated side of the specimens to the source.

Results

Specimen Code	% Solar Reflectance (p)
TC1/45B/202 and TC938/45S/202 Elastomeric Insulating Roof Coatings for non-metal	81.5%
TC1/45B/101 and TC938/45S/101 Elastomeric Insulating Roof Coatings for metal	80.4%