

## SIGMA *COPPERFLECT* RADIANT BARRIER

Property	Test Method <sup>1,2</sup>	Values
Thickness (Microns   Mils)	Caliper	101.6   4.0
Weight (g/m <sup>2</sup> )	ASTM D3776	75.0
Tear Strength (Trapezoid Tear)	ASTM D4533	Warp: 6.58   Weft: 5.97
Tear Strength (Tongue Tear)	ASTM D2261	Warp: 10.18   Weft: 12.97
Emissivity (e)	ASTM C1371	0.03
Corrosion Resistance	ASTM D3310	No Foil Loss
Oxidation Resistance (e)	STM-1001	< 0.05
Delamination and Pliability	ASTM C1313	No Bleeding or Delamination
Fungi Resistance	ASTM C1338	No Fungal Growth
Water Vapor Transmission (Perms)	ASTM E96 A	Perforated: 8.1
Flame Spread Smoke Development	ASTM E84	Class A   Class 1
Insulating R-Value <sup>3</sup>	ASHRAE Tables	Heat Flow Down: 12.46 <sup>4</sup> Heat Flow Up: 2.17 <sup>5</sup> Heat Flow Horizontal: 5.54 <sup>6</sup>

**WARNING:** Sigma Copper Radiant Barrier Products are combustible and should be protected from flame and other heat sources with a temperature potential exceeding 600 F

<sup>1</sup> "STM" refers to Sigma Test Methods and are available upon request.

<sup>2</sup> ASTM E84 testing conducted using E2599 mounting method.

<sup>3</sup> Cavity R-values per FTC 16 CFR Part 460 for intended application for 50F, with a temperature differential of 30F. All R-Value data achieved with 2-sided Sigma Radiant Barrier.

<sup>4</sup> Crawlspace application with the product installed to the bottom of 2x4 joists and facing down into an air space below.

<sup>5</sup> Sealed roof cavity installed to the bottom of 2x4 roof rafters at a 45° angle without a dead air space below

<sup>6</sup> Block wall assembly installed with 1x4 furring strips on both sides of the product