

Thermal Resistance results for Therma-Guard (units ft²·h·°F/BTU)

Assembly 1:

Low e (reflective) facing down (toward the interior) under 29 gauge metal roof, Heat flow down. R (air-film resistance included):

Roof slope

0 / 12 R 5.1

4 / 12 R 4.1

8 / 12 R 3.3

Assembly 2:

1x4" board purlin under metal roof creating ¾" air gap:

	Roof slope 0°	Roof slope 45°
Heat flow down	R 4.8	R 4.4
Heat flow up	R 2.9	R 3.3

Assembly 3:

Two reflective sides, one reflective under metal facing down, then 2x4" board creating 1.5" air gap, then another reflective facing up:

	Roof slope 0°	Roof slope 45°
Heat flow down	R 6.4	R 5.2
Heat flow up	R 3.8	R 4.2

Assembly 4:

Floor above crawl space, low emittance (reflective) side faces downward, creating two enclosed air spaces:

	Floor slope 0°
Heat flow down	R 12
Heat flow up	R 6.9

The R-values shown above, as calculated by R&D Services Inc., include the enclosed air space, the insulation material, and the air-film resistance taken from ASHRAE Handbook-Fundamentals. Results are rounded in accordance with FTC Rule.



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