ESP LOW-E NOW HAS A TESTED COMBINATION ASSEMBLY THAT MEETS THE NEW ASHRAE 90.1 STANDARDS The Oak Ridge Tested U-Factor Results For The Winter Application Is U 0.0453

Thermal Performance of a Hybrid Metal Building Insulation Assembly

Produced by Environmentally Safe Products - Tested At Oak Ridge National Laboratories



A metal building insulation assembly produced by Environmentally Safe Products was tested in accordance with ASTM C 1363 in the Large Scale Climate Simulator at the Oak Ridge National Laboratory. This hybrid system consisted of conventional fiberglass blanket insulation with ESP reflective insulation installed above the blanket insulation to form two reflective air spaces between the blanket insulation and the panels of a standing seam roof. The ESP reflective insulation had aluminum foil facers on both sides to provide low-emittance boundaries for both air spaces. The upper reflective air spaces provided a continuous layer of insulation between the blanket insulation and the roof panels while the lower air space varied in thickness. One-inch thick polystyrene spacers were installed as thermal blocks above the purlins.



Low-E Hybrid System - Thermal Imaging

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