

THERMALSTAR® AND AIR SPACES

APPLICABLE THERMALSTAR® E+, X+, AND G+ PRODUCTS

ThermalStar® E+, ThermalStar® X+, and ThermalStar® G+ products are expanded polystyrene (EPS) or graphite enhanced polystyrene (GPS) insulation laminated with advanced polymeric film facers. The facers' primary benefits are providing water-resistive barrier and air-barrier performance, along with improved jobsite durability.

ThermalStar film facers are clear, opaque, or metallized. When metallized facers are present on ThermalStar products there is an additional R-value benefit when installed in combination with an enclosed air space. This enhancement of R-value when a metallized facer of ThermalStar products is facing the air space is documented in ASHRAE 90.1, "Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings".

The metallized facer reflects radiant heat into the air space, reducing heat transfer through radiation. The R-value gain above the EPS or GPS R-value depends on the size, orientation of the air space, the temperature difference, and the emissivity of the metallic surface facing the air space.

ThermalStar products are available with either a 0.05 or 0.20 emittance metallized film. When the metallized film is used facing a 0.75 inch air space in compliance with ASHRAE 90.1, an additional R-value of 2.8 or 2.0 respectively can be added to the insulation R-value.

VISIT [ATLASMOLDEDPRODUCTS.COM](https://atlasroofing.com/products) FOR ADDITIONAL PRODUCT INFORMATION.

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