

# ThermalStar<sup>®</sup> X-GRADE<sup>™</sup>

Below Grade Insulation

## It's Orange or It's Ordinary<sup>®</sup>

- Built with EPS<sup>™</sup> Technology
- Water-resistant polystyrene and wax matrix
- No change in R-value over time
- Termite-resistant
- Scored for 16" or 24" OC
- Code-approved—see ESR-1962
- NO Formaldehyde, CFCs, HCFCs or other volatile contents
- 20-year Thermal Insulation Warranty

### ThermalStar<sup>®</sup> Type Compressive Strength

- X-Grade<sup>™</sup> 15** 15 psi
- X-Grade<sup>™</sup> 25** 25 psi
- X-Grade<sup>™</sup> 40** 40 psi

### Codes and Compliances

ThermalStar<sup>®</sup> complies with the requirements of the following model business codes when properly installed.

- CAN/ULC Listed—S102.2, S701—see UL R16529.B0ZCC
- UL Listed—28PO, R16529
- ASTM C578—see **product marking for applicable type**
- International Residential Code (IRC), International Building Code (IBC), BOCA National Building Code (NBBC), Universal Building Code (UBC), Standard Building Code (SBC), International Energy Conservation Code (IECC)—see ICC-ES report ESR-1962.

**Williams Insulation, Inc.**  
5410 S. Adrian Hwy.  
Adrian, MI 49221



**28PO**

FOAMED PLASTIC  
SURFACE BURNING CHARACTERISTICS

1/4" to 6" Maximum\*  
FLAME SPREAD 20\*\*  
SMOKE DEVELOPED 300\*\*

\*Installed in a thickness, or stored in an effective thickness, as indicated, for a density up to 2.00 lb/ft<sup>3</sup>.

\*\*Flame spread and smoke developed recorded while material remained in the original test position. Ignition of molten residue on the furnace floor resulted in a flame travel equivalent to calculated flame spread classification of 140 and smoke developed classification of over 500.

R-Value*	Thickness Inches (mm)	Pieces/Bundle	Sq Ft Per Package 4' x 8' 4' x 9'
2	1/2" (13)	192	6144 6912
3	3/4" (19)	128	4096 4608
4.1	1" (25)	96	3072 3456
5	1-3/16" (30)	80	2560 2880
6.2	1-1/2" (38)	64	2048 2304
8.3	2" (51)	48	1536 1728
10	2-3/8" (60)	40	1280 1440
15	3-5/8" (92)	24	768 864
20	4-7/8" (124)	20	640 720
25	6" (152)	16	512 576

**Thermal Insulation:** "R" means resistance to heat flow. The higher the R-value, the greater the insulating power. To get the marked R-value, it is essential that this insulation be installed properly. If you do it yourself, follow the instructions carefully. Instructions do not come with this package; obtain from your supplier.

**CAUTION:** This product is combustible. It will burn if exposed to an ignition source of sufficient heat or intensity, such as open flame or a welder's torch. A protective barrier or thermal barrier is required as specified in the appropriate building code, except as specified in ICC-ESR-1962.

**WARRANTY:** Other than the aforementioned representations and descriptions, Atlas Roofing Corporation (hereafter "Seller") makes no representations or warranties as to the insulation sold herein. The Seller disclaims all other warranties, express or implied, including the warranty of merchantability and the warranty of fitness for a particular purpose. Seller does, however, have a limited warranty as to the R-value of the insulation; the terms are available upon request from the Seller.

**LIMITATION OF LIABILITY:** The Seller shall not be liable for any incidental or consequential damages, including the cost of installation, removal, repair, or replacement of this product. The Buyer's remedies shall be limited exclusively to, at the Seller's option, the repayment of the purchase price or re-supply of product manufactured by Atlas in a quantity equal to that of the nonconforming product. Atlas distributors, agents, salespersons or other independent representatives have no authority to waive or alter the above limitation of liability.

**Atlas EPS is a Responsible Recycle Partner**  
Visit [www.epspackaging.org](http://www.epspackaging.org) to locate a recycle drop-off location near you.



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