

ORANGE INSULATION BOARD

FOUNDATION WALL | UNDERSLAB | COLD STORAGE

Insulation is a vital component of a building's envelope. For building designers requiring the highest quality rigid insulation for below grade applications, ThermalStar® Insulation Board provides unmatched quality, with a stable long term R-value that will last the lifetime of your structure.

Manufactured under an industry leading quality control program monitored by UL and ICC-ES, ThermalStar Insulation Board meets or exceeds ASTM C578 standards, providing an HFC free, recyclable rigid insulation with a low Global Warming Potential (GWP).

PHYSICAL PROPERTIES

ORANGE INSULATION BOARD

PROPERTY	ASTM TEST METHOD	15	25	40	60
Compressive Strength (psi) at 10% Deformation ¹	D1621	15	25	40	60
ASTM Classification	C578	Type II	Type II	Type XIV	Type XV
R-value per inch at 75°F Mean Temperature	C518	4.2	4.2	4.4	4.5
R-value per inch at 40°F Mean Temperature	C518	4.6	4.7	4.8	4.9
R-value per inch at 25°F Mean Temperature	C518	4.8	4.9	5.0	5.1
Flexural Strength (psi)	C203	35	50	60	75
Water Absorption (% by volume) 24 Hour Immersion	C272	2.0	1.0	1.0	1.0
24 Hour Immersion & 24 Hours @ 50% RH		0.3	0.3	0.3	0.3
Water Vapor Permeance at 1" Thick (perms)	E96	3.5	2.5	2.5	2.5
Surface Burning - Flame Spread	E84	<25	<25	<25	<25
Surface Burning - Smoke Developed	E84	<450	<450	<450	<450
Maximum Use Temperature	-	Short Term (10-15 minutes) 180°F, Long Term 165°F			

¹ ThermalStar Orange Insulation Board is elastic up to 1% deformation. A safety factor of 3 is recommended for long term loads to minimize long term deflection.

CODE COMPLIANCE

ThermalStar Insulation Board complies with the model building codes when properly installed, as found in the following code reports and classification listings:

- ASTM C578 – (See product marking for type)
- Physical Properties – UL QORW.R16529
- Surface Burning – UL BRYX.R16529
- CAN/ULC-S102.2, S701 – ULC BOZCC.R16529
- International Energy Conservation Code (IECC) – ICC-ES ESR-1962, UL ER16529-01
- International Residential Code (IRC) – ICC-ES ESR-1962, UL ER16529-01
- International Building Code (IBC) – ICC-ES ESR-1962, UL ER16529-01
- NFPA 285 Approved Assemblies - UL ER16529-01

WARRANTY

ThermalStar Insulation Board is backed by a limited lifetime warranty for physical and thermal performance, in addition to termite resistance. See separate ThermalStar warranty for terms and conditions.

STANDARD PRODUCT OFFERINGS

COMPRESSIVE STRENGTH	15 psi, 25 psi, 40 psi, 60 psi
SIZE	4'x8' square edge sheets
THICKNESS	1/2", 3/4", 1", 1-3/16", 1-1/2", 2", 2-3/16", 2-3/8", 2-1/2", 3", 4"

AVAILABILITY

ThermalStar Orange Insulation Board has a distinctive pale creamy orange color and is available in select geographic regions. Contact your local territory sales representative for additional details.

FOR ADDITIONAL RESOURCES, VISIT THE BUILDING SOLUTIONS SECTION OF OUR WEBSITE [ATLASMOLDEDPRODUCTS.COM](https://www.atlasmoldedproducts.com)

**GREATER COVERAGE
GREATER AVAILABILITY**



Atlas Molded Products, a Division of Atlas Roofing Corporation
8700 Turnpike Drive, Suite 400, Westminster, CO 80031
Phone: 855.597.4427 | Fax: 303.428.2595 | AMPinfo@AtlasRoofing.com

