

T&G INSULATION

TONGUE & GROOVE EXTERIOR WALL INSULATION

Insulation is a vital component of a building's envelope. For building designers requiring the highest quality rigid insulation, ThermalStar® T&G 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 T&G meets or exceeds ASTM C578 standards, providing an HFC free, recyclable rigid insulation with a low Global Warming Potential (GWP).

PHYSICAL PROPERTIES

PROPERTY	ASTM TEST METHOD	T&G INSULATION	
		10	15
Compressive Strength (psi) at 10% Deformation ¹	D1621	10	15
ASTM Classification	C578	Type I	Type II
R-value per inch at 75°F Mean Temperature	C518	3.9	4.2
R-value per inch at 40°F Mean Temperature	C518	4.2	4.6
R-value per inch at 25°F Mean Temperature	C518	4.4	4.8
Flexural Strength (psi)	C203	25	35
Water Absorption (% by volume) 24 Hour Immersion	C272	3.0	2.0
24 Hour Immersion & 24 Hours @ 50% RH		0.3	0.3
Water Vapor Permeance at 1" Thick (perms)	E96	5.0	3.5
Surface Burning - Flame Spread	E84	<25	<25
Surface Burning - Smoke Developed	E84	<450	<450
Maximum Use Temperature	-	Short Term (10-15 minutes) 180°F, Long Term 165°F	

¹ ThermalStar T&G 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 T&G Insulation 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
- California Certified Insulation Material - License T 1472

WARRANTY

ThermalStar T&G Insulation is backed by a limited lifetime warranty for physical and thermal performance. See separate ThermalStar warranty for terms and conditions.

STANDARD PRODUCT OFFERINGS

COMPRESSIVE STRENGTH	10 psi, 15 psi
SIZE	2'x8' and 4'x8'
THICKNESS	1/2", 1", 1-3/16", 1-1/2", 2"
SPECIAL FEATURES	Integrated drainage channels on the back side, with front side anti-slough dimples for improved mechanical bonding of stucco

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

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GREATER AVAILABILITY**



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