

INSULATION BOARD GPS

CAVITY WALL | PRECAST | CONTINUOUS EXTERIOR INSULATION

Insulation is a vital component of a building's envelope. For building designers requiring the highest quality rigid insulation for wall applications, ThermalStar® Insulation Board GPS 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, ThermalStar Insulation Board GPS meets or exceeds ASTM C578 standards, providing an HFC free rigid insulation with a low Global Warming Potential (GWP).

PHYSICAL PROPERTIES

PROPERTY	ASTM TEST METHOD	INSULATION BOARD GPS			
		10	13	15	25
Compressive Strength (psi) at 10% Deformation ¹	D1621	10	13	15	25
ASTM Classification	C578	Type I	Type VIII	Type II	Type IX
R-value per inch at 75°F Mean Temperature	C518	4.7	4.7	4.7	4.7
R-value per inch at 40°F Mean Temperature	C518	4.9	4.9	4.9	5.0
R-value per inch at 25°F Mean Temperature	C518	5.1	5.1	5.1	5.2
Flexural Strength (psi)	C203	25	30	35	50
Water Absorption (% by volume) 24 Hour Immersion	C272	3.0	2.0	2.0	1.0
		24 Hour Immersion & 24 Hours @ 50% RH	0.3	0.3	0.3
Water Vapor Permeance at 1" Thick (perms)	E96	5.0	3.5	3.5	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 Insulation Board GPS 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 GPS 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) – UL ER16529-01
 - International Residential Code (IRC) – UL ER16529-01
 - International Building Code (IBC) – UL ER16529-01
 - NFPA 285 Approved Assemblies – UL ER16529-01

WARRANTY

ThermalStar Insulation Board GPS 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, 13 psi, 15 psi, 25 psi
SIZE	4'x8' square edge sheets
THICKNESS	1-1/16", 1-19/32", 2-1/8", 3-3/16", 4-1/4"

INSTALLATION & HANDLING

Precautionary measures must be taken to help minimize the potential damage from solar exposure. This product must be protected from direct sunlight and reflection during installation and stored with an opaque covering while on the jobsite.

FOR ADDITIONAL RESOURCES, VISIT THE WALL INSULATION SECTION OF OUR WEBSITE [ATLASMOLDEDPRODUCTS.COM](https://atlasroofing.com/atlas-molded-products)

GREATER COVERAGE
GREATER AVAILABILITY



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