

HOLEY BOARD

ROOF APPLICATIONS

Insulation is a vital component of a building's envelope. For building designers requiring the highest quality rigid insulation for roof applications, ThermalStar® Holey 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 Holey Board 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	HOLEY BOARD				
		5	10	13	15	25
Compressive Strength (psi) at 10% Deformation ¹	D1621	5	10	13	15	25
ASTM Classification	C578	Type XI	Type I	Type VIII	Type II	Type IX
R-value per inch at 75°F Mean Temperature	C518	3.2	3.9	3.9	4.2	4.4
R-value per inch at 40°F Mean Temperature	C518	3.4	4.2	4.3	4.6	4.8
R-value per inch at 25°F Mean Temperature	C518	4.4	4.4	4.5	4.8	5.0
Flexural Strength (psi)	C203	10	25	30	35	50
Water Absorption (% by volume) 24 Hour Immersion	C272	3.0	3.0	2.0	2.0	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	5.0	5.0	3.5	3.5	2.5
Surface Burning - Flame Spread	E84	<25	<25	<25	<25	<25
Surface Burning - Smoke Developed	E84	<450	<450	<450	<450	<450
Maximum Use Temperature	-	Short Term (10-15 minutes) 180°F, Long Term 165°F				

¹ ThermalStar Holey 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 Holey 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
 - Factory Mutual - see www.RoofNav.com
- 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

WARRANTY

ThermalStar Holey Board 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	5 psi, 10 psi, 13 psi, 15 psi, 25 psi
SIZE	2'x4' or 4'x4' square edge sheets
THICKNESS	1" to 12". Custom thicknesses available upon request.
CONFIGURATION	6 or 8 holes per board

FOR ADDITIONAL RESOURCES, VISIT THE BUILDING SOLUTIONS SECTION OF OUR WEBSITE ATLASMOLDEDPRODUCTS.COM



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