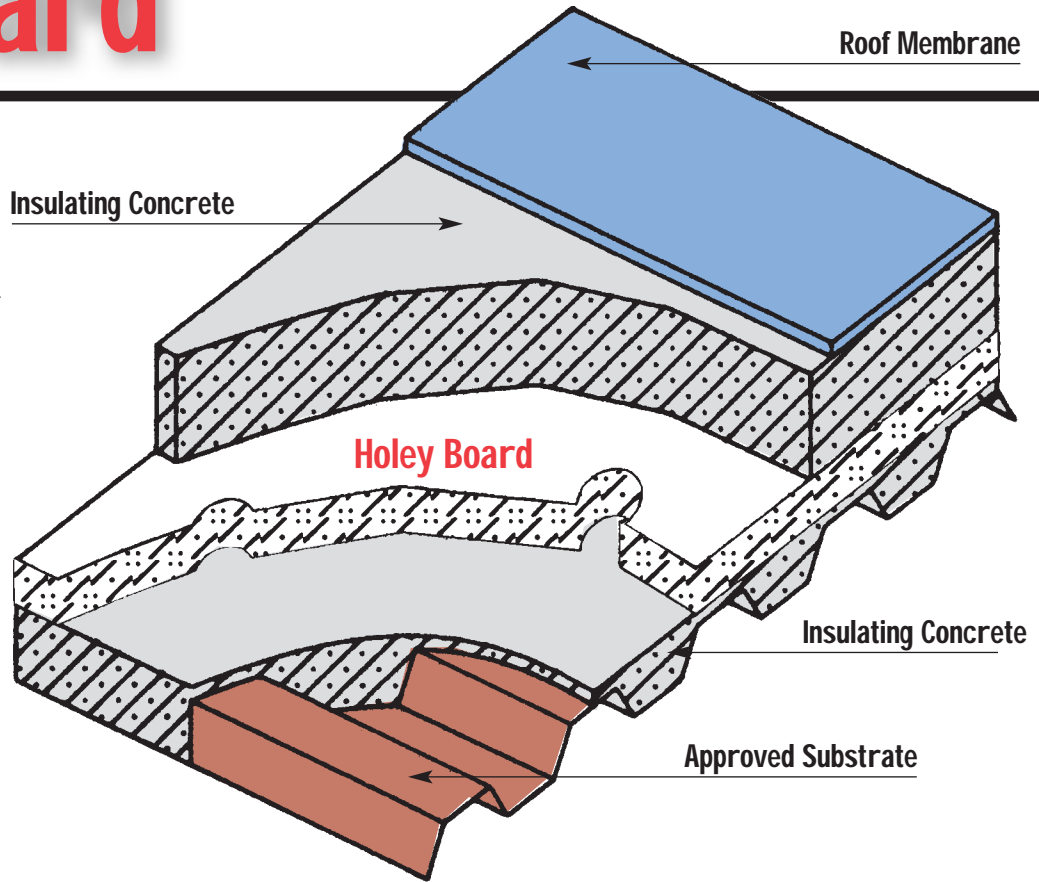


# Holey Board

Carpenter Holey Board Insulation is a modified expanded polystyrene composed of rigid foamed plastic with resilient closed cells molded in a range of sizes and profiles.

Carpenter Holey Board can be fabricated to meet your specifications, allowing you the necessary amount of void areas to assure proper deck adhesion.

High quality insulation products allow Carpenter to guarantee long-term performance as required in today's specifications – permanent R value, inherent water resistance, excellent physical strengths and dimensional stability. Carpenter customizes production and services to meet your customers' requirements and exceed their expectations, every day.



## Advantages

- Molded and/or drilled
- Low material and insulation cost
- 100% R Value
- Wide range of sizes and densities
- Easy to handle and apply
- Consistently well-fused products
- Accurate cuts
- Clean and odorless
- No CFC's or HFC's

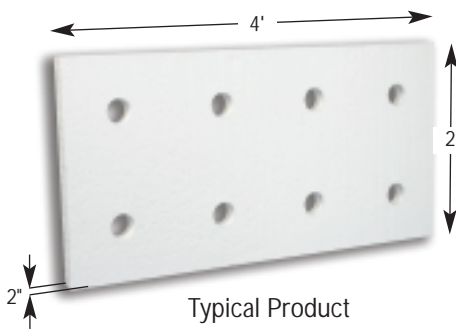
## Applications

Use Carpenter Holey Board Insulation as a component in lightweight concrete roof deck systems:

- perlite
- cellular concrete
- vermiculite

When properly installed according to system design requirements, Carpenter Holey Board can be tapered or stair-stepped to effect positive drainage.

Not only will Carpenter Holey Board provide superior slope-to-drain capability, it will help minimize costly energy loss.



# Typical Physical Properties of Carpenter EPS Insulation

Specification reference: ASTM C578				Type XI	Type I	Type VIII	Type II	Type IX
Property		Units	ASTM Test					
Density, Minimum		pcf	D1622	.70	.90	1.15	1.35	1.80
Density Range		pcf		.70-.89	.90-1.14	1.15-1.34	1.35-1.79	1.80-2.20
Thermal Conductivity (k Factor)	at 40°F at 75°F	BTU/hr. (sq.ft.) (F/in.)	C518	0.28 0.30	0.24 0.26	0.23 0.25	0.22 0.24	0.21 0.23
Thermal Resistance (R Value)*	at 40°F at 75°F	at 1" thickness	---	3.6 3.3	4.17 3.85	4.25 3.92	4.55 4.17	4.76 4.35
<b>Strength Properties</b>								
Compressive 10% Deformation		psi	D1621	5-9	10-14	13-18	15-21	25-33
<b>Moisture Resistance</b>								
WVT		perm. in	E96 (Proc.A)	1.9-3.9	1.2-3.0	1.1-2.8	0.9-2.5	0.6-1.5
Absorption (vol.)		%	C272	<4.0	<3.5	<3.0	<3.0	<2.0
Capillarity		---	---	none	none	none	none	none
Coefficient of Thermal Expansion		in./(in.) (F)	D696	0.000035	0.000035	0.000035	0.000035	0.000035
<b>Maximum Service Temperature</b>								
Long-term		°F	---	167	167	167	167	167
Intermittent				180	180	180	180	180

\* 'R' means resistance to heat flow. The higher the R-value, the greater the insulating power.

**Code Compliance.** Carpenter's EPS can be manufactured to meet ASTM specifications C578-95; Types XI, I, VIII, II or IX. When ordering material, please be specific as to which ASTM type product is necessary.

**Warranty and Remedy Information.** Carpenter Co. ("Carpenter") warrants it will replace without charge any Carpenter product that is not merchantable because of defects in materials or workmanship. Notice of a claim under this warranty must be given promptly in writing, in no case later than 45 days after the defect becomes known to the purchaser. THIS EXPRESS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE REMEDY OF REPLACEMENT IS THE SOLE AND EXCLUSIVE REMEDY ARISING FROM THE SALE OF CARPENTER'S PRODUCTS. IN NO CASE WILL CARPENTER BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL LOSS OR DAMAGE, including, without limitation, damage to other property, loss of profits, loss of goodwill, or other economic loss, whether such incidental or consequential loss or damage is claimed on account of breach of warranty, breach of contract, negligence, strict liability in tort, or any other legal theory. GOODS SOLD FOR RESALE ARE ALL SUBJECT TO THESE TERMS, AND ALL OFFERS ARE EXPRESSLY CONDITIONED UPON ACCEPTANCE OF THESE TERMS.

**Warning!** EPS foam is flammable. Modified EPS, like most plastic foams, is flammable. Do not expose EPS to open flames or other direct or indirect high temperature ignition sources such as burning operations, welding, burning cigarettes, space heaters or naked lights. When burning, EPS will consume oxygen, releasing great heat and smoke and potentially toxic gases such as carbon monoxide and carbon dioxide. Do not use, install or store EPS except in strict compliance with BOCA, ICBO or SBCCI codes, as well as any fire-related laws/ordinances. Failure to comply with these codes/laws may increase the risk of fire and result in personal injury or property damage from smoke, flames or water.



## Carpenter Co.

www.carpenter.com  
5016 Monument Avenue, Richmond, VA 23230  
Phone: 804-359-0800 Toll-free: 800-288-3830  
Fax: 804-353-0694

## Plant Locations

Fogelsville, PA 800-388-8004  
Conyers, GA 800-723-3650  
High Point, NC 800-723-1633  
Lakeland, FL 800-723-7749