



HOLEY BOARD

The High Performance

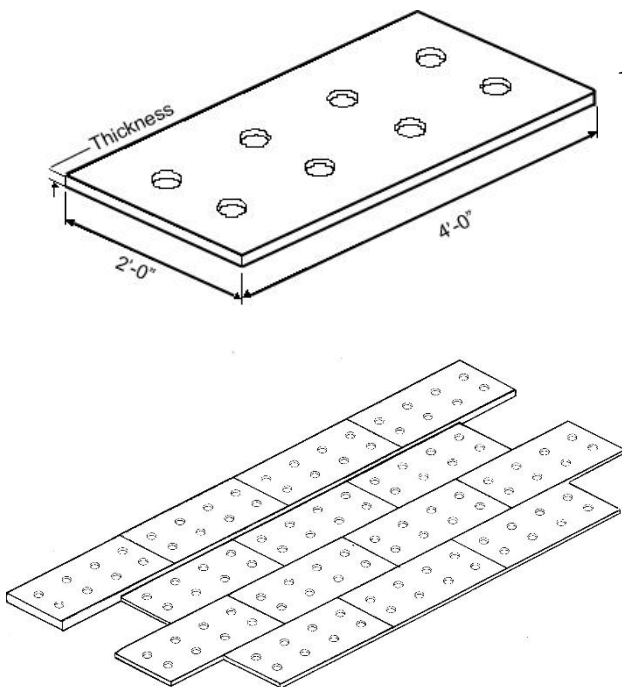
Substrate for Insulating

Lightweight Roof Deck

Assemblies

ADVANTAGES:

- EASY TO HANDLE AND APPLY*
- LOW THERMAL CONDUCTIVITY*
- READILY AVAILABLE*
- ADAPTABILITY CURVED SUBSTATE*
- INORGANIC*
- SINGLE LAYER APPLICATION*



FOR USE IN ROOF-CEILING DESIGNS NOS. P23I, P707, P810, P905, P910, P913, P916, P919, AND P920
CONSULT FIRE RESISTANCE DIRECTORY FOR ILLUSTRATIONS OF DESIGNS AND FIRE RESISTANCE RATINGS

*DREW FOAM HOLEY BOARD IS A COMPONENT IN
LIGHTWEIGHT INSULATING CONCRETE ROOF DECK
ASSEMBLIES: CELLULAR • PERLITE • VERMICULITE*

The insulation for lightweight roof decks is an expanded polystyrene material Holey Board material with the required number of holes drilled to meet various design classifications. The primary purpose of the holes in the EPS board is to allow the placement of cellular concrete to form "columns" within the deck that would serve, in the case of an internal fire, to prevent a deck collapse if the volume of the EPS within the deck was lost to penetrating heat.

Sharply rising energy costs dictate that you should incorporate Holey Board Insulation in all your lightweight deck designs for appropriate UL design numbers refer to the other side of this brochure. By including Holey Board in your design, you can drastically reduce heating and cooling costs.

SPECIFICATION: Roof insulation shall be Holey Board roof deck insulation as manufactured by Drew Foam Companies, Inc. The Holey Board insulation shall be placed on deck after the corrugations have been filled with lightweight concrete. All insulation boards shall be laid true with joints tight, then the balance of the roof assembled.

Physical Properties of DREW FOAM - EPS Specification Reference ASTM C578

Property	Unit	ASTM Test	Type XI	Type I	Type VIII	Type II	Type IX	Type XIV	Type XV
Common Designation	pcf		.75#	1#	1.25#	1.5#	2#	2.5#	3#
Density, minimum	pcf	D1622	0.70	0.90	1.15	1.35	1.80	2.25	2.70
Density, range	pcf	C303	.70-.89	.90-1.14	1.15-1.34	1.35-1.79	1.80-2.20	2.25-2.69	2.70-3.1
Thermal Resistance R- Value	(per inch) @ 25F (per inch) @ 40F (per inch) @ 70F	C518	3.6 3.4 3.2	4.4 4.2 3.9	4.6 4.3 3.9	4.8 4.6 4.2	5.0 4.8 4.4	5.0 4.8 4.4	5.1 5.0 4.6
Compressive Strength	psi	D1621	5.0	10.0	13.0	15.0	25.0	40.0	60.0
Flexural Strength min.	psi	C203	10.0	25.0	30.0	35.0	50.0	60.0	75.0
Water Vapor Permeability	(perms)	E96	5.0	5.0	3.5	3.5	2.5	2.5	2.5
Water Absorption by total immersion	(max.%volume)	C272	4.0	4.0	3.0	3.0	2.0	2.0	2.0
Oxygen Index	%	D2863	24	24	24	24	24	24	24
Dimensional Stability	% Change	D2126	max. 2.0	max. 2.0	max. 2.0	max. 2.0	max. 2.0	max. 2.0	max. 2.0
Coefficient of Thermal Expansion	in./in.) (F)	D696	0.000035	0.000035	0.000035	0.000035	0.000035	0.000035	0.000035
Maximum Service Temperature	F								
Long-term			167	167	167	167	167	167	167
Intermittent			180	180	180	180	180	180	180

Drew Foam EPS has a flame spread index of < 25 and smoke development of less than 450 when tested in accordance with ASTM E84 for all densities listed. See ASTM C578 for standard test methods and detailed information.

Like many construction materials, expanded polystyrene insulation is combustible. It should not be exposed to flame or other ignition sources. Consult installation instructions and current building code requirements before use.