

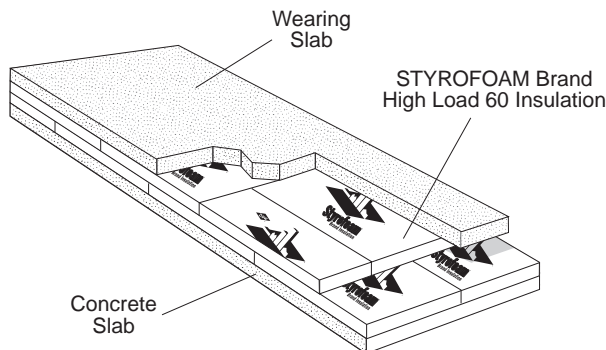


STYROFOAM Brand High Load 60 Insulation

STYROFOAM High Load Applications

Product Description

STYROFOAM® brand High Load 60 insulation is the Blue®, closed cell extruded polystyrene foam insulation designed to meet the high strength requirements of ASTM C578 (TYPE VII) specifications. It combines a minimum compressive strength of ,60 PSI with the excellent physical property characteristics of all STYROFOAM brand insulation products. As a result, it resists compressive creep and fatigue and delivers the long-term compressive strength and R-value retention needed for high load applications. It is ideal for use in low temperature (freezer floor) applications in warehouses with rack-supported roof systems or where high density products such as meat are stored. It is also recommended for insulating airport runways, highways and helicopter landing pads where



moderately heavy to heavy loads are expected.

STYROFOAM brand insulation has been in use for over 50 years in construction and specialty applications. Its closed cell structure provides superior resistance to water absorption, water vapor transmission and freeze thaw cycling. Even in

hostile, low temperature environments, where severe temperature differentials and water vapor driving forces can dramatically reduce the thermal efficiency of some insulation products, STYROFOAM brand insulation has retained its R-value, stability and high compressive strength. STYROFOAM brand products are CFC free.

Product Properties of STYROFOAM Brand High Load 60 Insulation (ASTM C578 Type VII)

Property (Units)	Value	ASTM Test Method
Thermal Resistance ^{1,4} Aged R-Value Per Inch @ 75°F Mean Temperature	5.0	C518
Compressive Strength (lb/in ²), Min. ²	60	D1621
Water Absorption (% by volume), Max	0.1	C272
Water Vapor Permeance ³ (Perm), Max	0.8	E96
Dimensional Stability (% Linear Change), Max	2.0	D2126
Coefficient of Linear Thermal Expansion (in/in°F)	3.5 X 10 ⁻⁵	—
Flame Spread ⁵	5	E84
Smoke Development	165	E84
Foundation Modulus (lb/in ³) (3.0" Thickness)	1000	D1621
Dimensions:		
–Thickness (Inch)	2.0, 3.0	—
–Width (Inch)	24	—
–Length (Inch)	96	—
Maximum Temperature	165°F	—

NOTES:

1. Values are consistent with the criteria of ASTM C578 and the requirements of the FTC R-value rule (16 CFR Part 460). The higher the R-value, the greater the insulating power. Ask your seller for the fact sheet on R-value. A 15-year limited thermal warranty is available.
2. Vertical compressive strength is measured at 5% deformation or at yield, whichever occurs first. Since STYROFOAM brand insulations are visco-elastic materials, adequate design safety factors should be used to prevent long-term creep. For static loads, 3-1 is suggested. For dynamic loads, 5-1 is suggested.
3. Water vapor permeance varies with product type and thickness. Values are based on the desiccant method and they apply to insulation 1 in. or greater in thickness.
4. R means resistance to heat flow. R-values are expressed in °F•ft²•h/BTU.
5. This numerical flame spread rating is not intended to reflect hazards presented by this or any material under actual fire conditions.

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NOTICE: STYROFOAM brand insulation is combustible. Protect from flame and other high heat sources. For more information, consult MSDS and/or call Dow (1-800-441-4369). In an emergency, call (1-517-636-4400). Local building codes may require a protective or thermal barrier. Contact your local building inspector for more information.

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