

Molded Polystyrene Insulation.

Tru-R molded polystyrene insulation is a cost effective, durable, and energy efficient solution for all types of insulation applications. Tru-R Insulation is an insulation manufactured to provide architects, specifiers, distributors, and contractors all the features and benefits inherent in a quality insulation.

R-value - Tru-R 400 has an R-value that never changes over time.

Strength - Tru-R 400 has a compressive strength of 40 psi.

Moisture Resistance - Tru-R 400 is a closed cell polystyrene insulation and is resistant to moisture gain.

Vapor Permeable - Tru-R 400 allows moisture vapor to move through its structure.

Drying Potential - Tru-R 400 rapidly releases absorbed moisture.

Applications.


- Cavity Wall
- Wall Sheathing
- Precast Concrete Core
- Flat/Tapered Roofing
- Plaza Deck/Vegetative Green Roof
- Perimeter/Underslab
- Drainage Board
- Waterproofing Protection

Proven to meet, or exceed, building codes.

Tru-R insulation is manufactured under an industry leading quality control program monitored by UL and further recognized in UL Evaluation Report UL ER40266-01.



Tru-R insulation meets Type XIV of ASTM C578, "Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation".

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| Compressive Strength ^{1,2} @ 10% deformation, min. ASTM D1621 | psi (kPa) | 40 (276) |
| R-value ¹ , Thermal Resistance, per inch, ASTM C518 | 25°F | °F·ft ² ·h/Btu (°K·m ² /W) |
| | 40°F | °F·ft ² ·h/Btu (°K·m ² /W) |
| | 75°F | °F·ft ² ·h/Btu (°K·m ² /W) |
| k-value Thermal Conductivity ASTM C518 | 25°F | Btu·in/°F·ft ² ·h (W/°K·m) |
| | 40°F | Btu·in/°F·ft ² ·h (W/°K·m) |
| | 75°F | Btu·in/°F·ft ² ·h (W/°K·m) |
| Density, Nominal ASTM C303 | lb/ft ³ (kg/m ³) | 2.5 (40) |
| Flexural Strength ¹ , min. ASTM C203 | psi (kPa) | 60 (414) |
| Water Vapor Permeance ¹ of 1.0 in. thickness, max., perm ASTM E96 | | 2.5 |
| Water Absorption ³ , volume % ASTM C272 | | 0.3 |
| Flame Spread Index ASTM E84 | | <25 |
| Smoke Developed Index ASTM E84 | | <450 |
| Maximum long term use temperature | | 165°F (74°C) |
| ASTM C578 Compliance, Type | | XIV |

¹ Please refer to ASTM C578 specification for complete information.

² Compressive strength is measured at 10 percent in accordance with ASTM C578. A safety factor is required to prevent long-term creep for sustained loads. For static loads, a safety factor of 3:1 is recommended.

³ ASTM C272 24 hour immersion followed by 24 hour storage in 75°F/50%RH air.