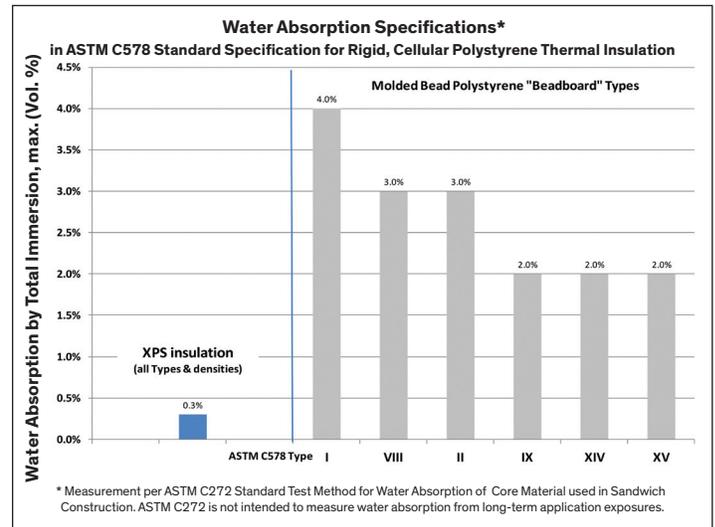
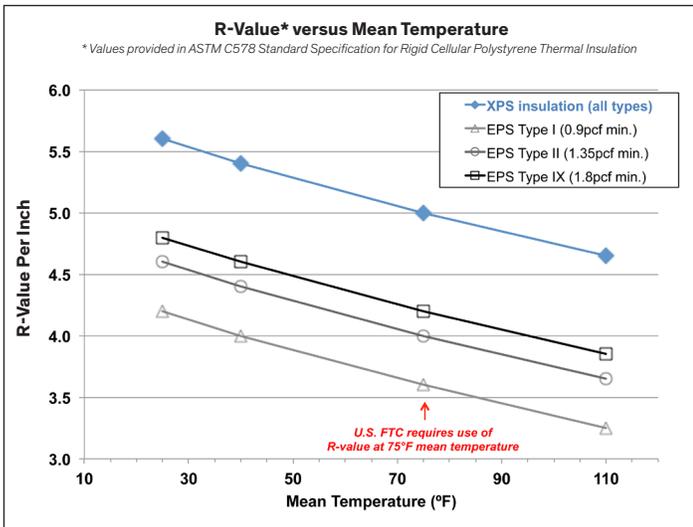




## Dow Building Solutions

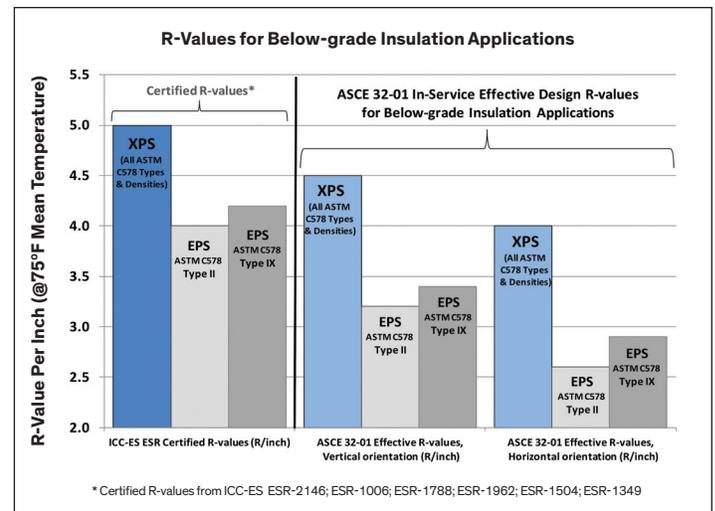
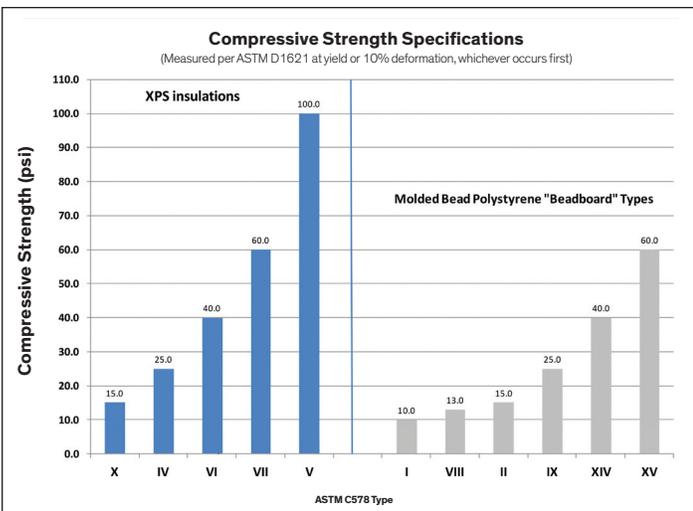
# Just the Facts:

Think extruded polystyrene (XPS) has lost its edge when it comes to building insulation? Think again.



The R-value of most insulation products goes down as the mean temperature test conditions go up. Always compare R-values at the same mean temperature.

Any water absorbed by insulation in an application will directly reduce the insulation's R-value.



Compressive strength is important in load-bearing applications and where physical damage can occur around the job site and during construction, such as when installing insulation under concrete slab or backfilling against foundation insulation.

The most comprehensive and objective review of the in-service performance of polystyrene foam insulations used in below-grade applications was conducted by the ASCE 32 Committee.

# Just the Facts:

## The Top Ten Reasons to Choose STYROFOAM™ Brand XPS Foam Insulation

|                      |   |
|----------------------|---|
| <b>THE #1 REASON</b> | <b>70+ years of industry-leading performance</b><br>Dow invented XPS technology in the 1940s with STYROFOAM™ brand XPS insulation – one of the most recognized brands of insulation in the world. Dow continues to lead the industry in continued innovation of XPS, as well as other energy-saving solutions for the global commercial and residential new-construction and remodeling industries.             |
| <b>2</b>             | <b>High moisture resistance</b><br>Designed to perform in high-moisture applications, such as garden roofs, below-grade foundations and rain screen cavity walls. <ul style="list-style-type: none"><li>- Meets weather-resistive barrier (WRB) code requirements.<sup>1</sup></li><li>- Certified for in-ground contact.<sup>2</sup></li><li>- Approved for frost-protected foundations.<sup>3</sup></li></ul> |
| <b>3</b>             | <b>Long-term high R-value</b><br>Long-term thermal performance provides energy efficiency and energy savings.   |
| <b>4</b>             | <b>Warranted for long-term performance</b><br>Backed by a 50-year warranty. <sup>4</sup>  |
| <b>5</b>             | <b>Third-party validated and certified</b> <ul style="list-style-type: none"><li>- Meets or exceeds nationally and internationally recognized performance standards.</li><li>- For International Code Council (ICC) compliance, see ICC-ES ESR #2142.</li></ul>   |
| <b>6</b>             | <b>Reusable</b><br>Reusable in certain conditions, such as roofing applications, which can provide big savings when it's time for roofing repairs and replacements.   |
| <b>7</b>             | <b>Easy to work with</b><br>Cuts simply and cleanly with a score and a snap, for minimal mess and waste.  |
| <b>8</b>             | <b>Versatile</b><br>Available in a variety of thicknesses, densities and surface/edge treatments.   |
| <b>9</b>             | <b>Lightweight but strong and durable</b><br>A great choice for critical load-bearing applications, such as under slabs, plaza decks, airport runways and roads.  |
| <b>10</b>            | <b>Void-free foam structure</b><br>Only XPS has a uniform, void-free composition – with about a million tiny pockets of air trapped in every cubic inch of material, ensuring excellent thermal efficiency.   |

What Makes Dow Stand Out from the Competition?

### Beyond the BLUE™: People, Knowledge, Relationships

It's not only our technology and recognizable BLUE board that will help you outperform the ordinary. Ask us about our:

- Building science expertise built on a solid understanding of thermodynamics and deep application experience
- Comprehensive portfolio of applications-specific solutions and integrated systems for the entire building envelope
- Ongoing R&D investments and industry collaborations
- Nationwide supply chain, assuring consistency and quality

### Now that you have the facts, which solution will you pick?

Contact your Dow representative or call 1-866-583-BLUE (2583) to be put in touch with one of our application experts.

In the U.S.

#### The Dow Chemical Company

#### Dow Building Solutions

200 Larkin Center

Midland, MI 48674

Sales & Technical Information

**866-583-BLUE (2583)**

**dowbuildingsolutions.com**

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Caution: This product is combustible. Protect from high heat sources. A protective barrier or thermal barrier may be required as specified in the appropriate building code. For more information, consult MSDS, call Dow at 1-866-583-BLUE (2583) or contact your local building inspector. In an emergency, call 1-989-636-4400 in the U.S. or 1-519-339-3711 in Canada.

WARNING: Rigid foam insulation does not constitute a working walkable surface or qualify as a fall protection product. Building and/or construction practices unrelated to building materials could greatly affect moisture and the potential for mold formation. No material supplier including Dow can give assurance that mold will not develop in any specific system.

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<sup>1</sup>When installed per ICC-ES ESR# 2142.

<sup>2</sup>According to ASHRAE 90.1-2010 section 5.8.1.7.3.

<sup>3</sup>ICC International Residential Code (IRC) Section R403.3 calls for in-service design R-values of R-4.5 per inch in this application. XPS products meet the R-4.5 requirement, which is 90% of the typical XPS certified R-value of R-5.0.

<sup>4</sup>In the United States, a 50-year thermal limited warranty is available on STYROFOAM™ Brand Insulation products 1.5" thick and greater. For thicknesses less than 1.5", other warranties may apply. Warranties are available as described at [www.dbswarranties.com](http://www.dbswarranties.com).