

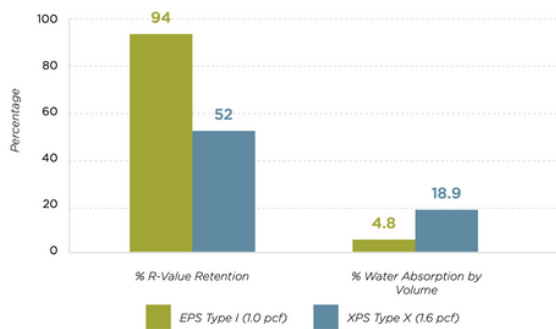
# NEWSLETTER

## MONTHLY UPDATED INDUSTRY NEWS

### EPS OUTPERFORMS XPS IN R-VALUE RETENTION

Studies show that as much as 25% of energy loss from a structure can be attributed to a lack of insulation on below-grade foundations, crawl spaces and under slabs. Insulation R-value is directly correlated to maximum energy efficiency in a building envelope; higher R-values translate into increased savings. In below grade applications, foam insulation is exposed to moisture and could lose R-value over time if this moisture is absorbed. As shown in an independent, third-party test program expanded polystyrene (EPS) maintains its R-value even after long-term exposure in northern climates. A competing insulation material, extruded polystyrene (XPS), was shown to have lost R-value over time. The results of this test program demonstrate that EPS insulation is a perfect choice to reduce energy loss.

In-Situ R-Value Retention & Water Absorption



The results demonstrate that EPS Type I outperforms XPS Type X in both R-value retention and decreased water absorption. Further, whereas the in-service R-value of the XPS insulation is reduced by half, expanded polystyrene still delivers 94% of its specified R-value of 3.6 per inch after 15 years. These long term performance advantages make EPS insulation a preferred choice when compared its competition.

### DID YOU KNOW?

- Building energy codes have a 40-year history of reducing consumer energy bills. Today's energy codes provide more than 30% savings compared to those of less than a decade ago, which translates to over \$60 billion saved by U.S. homes and businesses.
- Building energy codes are projected to save \$126 billion cumulatively by 2040.
- These savings correspond to 841 million tons of avoided CO2 emissions, which equate to the annual emissions of 245 coal power plants.
- From the homeowner perspective, a state adopting the current residential model energy codes (compared to the 2006 version) would save over \$500 annually on utility bills.

<https://www.energy.gov/energysaver/insulation>

**MONO SLAB® WILL BE AT THE INTERNATIONAL BUILDERS SHOW AND WORLD OF CONCRETE IN 2024**



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