

Thinking Below-Grade Insulation and Moisture Resistance

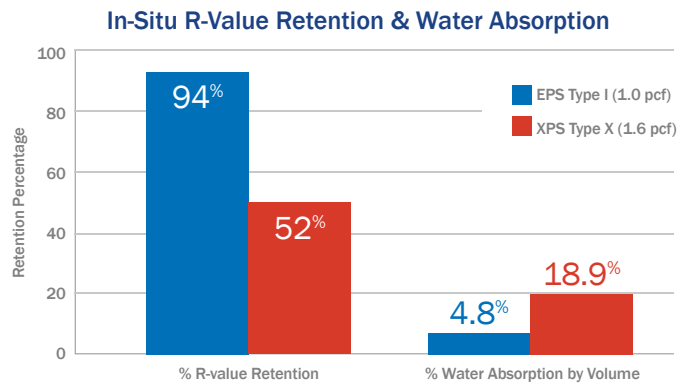
Think Insulfoam EPS

INSULFOAM[®]

A **CARLISLE** COMPANY

Engineered EPS Insulation

15-Year In-Situ Research Shows EPS OUTPERFORMS XPS in Moisture Resistance



The Insulfoam Advantage

- Verified field performance
- Up to 60 psi / 40" thickness
- Custom Drainage Channels
- Nationwide Manufacturing
- Experienced design team helps you build what you need
- Great performance at economical cost, compared to other rigid insulations

The INDEPENDENT Test: Side-by-Side

Comparable EPS and XPS samples installed side-by-side outdoors, in St. Paul, MN (Climate Zone 6)

- 4-feet below grade, severe temperature swings
- 15 years later, samples are excavated
- Independent testing evaluates field-performance of samples on moisture absorption and R-value retention
 - Thermal resistance tested using ASTM C518
 - Moisture content measured using sample weight at removal and after oven drying

The Results: EPS OUTPERFORMS XPS in the field

Even after 15 years in the field, the EPS outperformed XPS in both R-value retention

and decreased water absorption:

- EPS delivers 94% of its specified R-value whereas XPS R-value is reduced by half
- Water volume absorbed by XPS was almost 4 times that of volume absorbed by EPS

15 Yr. In-Situ Test Results

	Results Upon Extraction		Results after 30 days @ 72°F & 50% RH	
	EPS	XPS	EPS	XPS
R-Value/Inch	3.4	2.6	3.7	2.8
Moisture Content (Volume%)	4.8	18.9	.07	15.7

Insulfoam's superior engineered EPS has a *closed-cell structure*, helping prevent the long-term absorption of moisture, and thereby providing a stable, *warranted* long-term R-value

The 'Warranted' truth

Insulfoam EPS does not destabilize over time, a property supported by a *long-term thermal warranty for 100% of the R-value.*

With Insulfoam EPS, you get the full value of what you paid for - LONG-TERM

