

InsulGrade R-Tech

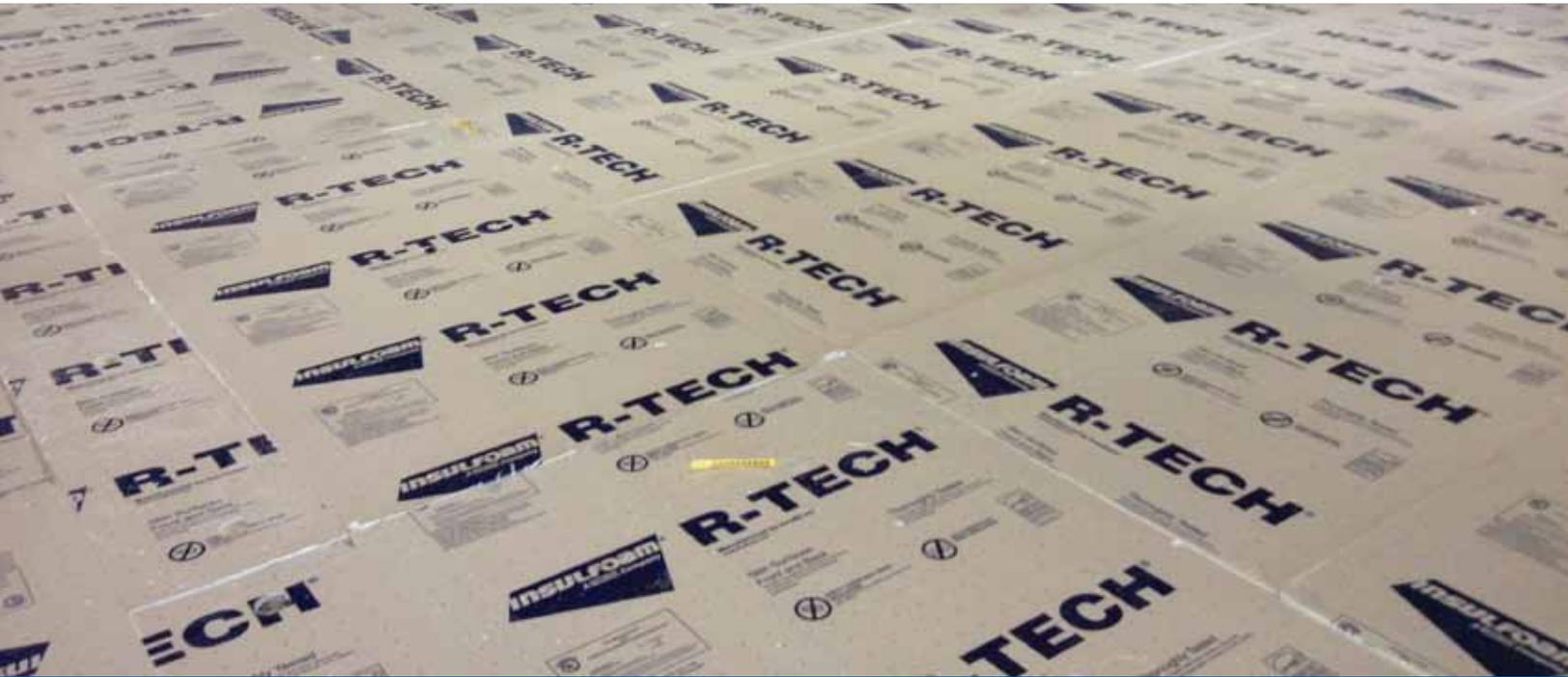
Target: King of Prussia, PA

INSULFOAM[®]

A **CARLISLE** COMPANY

The largest publicly traded EPS manufacturer in the United States.

150,000 sq. ft. of R-Tech used as an alternative to DOW XPS



R-Tech Below Grade provided 25% cost savings in insulation on the project without sacrificing performance.



Project Profile: Target

The Target store located in King of Prussia, PA was constructed different than most and was not built as a slab on grade. The bottom level of the building is a parking garage while the retail space is located on the second level. Target used InsulGrade R-Tech as a between slab insulation as a way of insulating the floor of the retail space and providing a thermal barrier between the concrete planks and the floor slab.

DOW XPS was initially specified on the Target project, however; R-Tech was substituted and provided a substantial cost savings while providing both long-term stable and non-degrading R-Value.

Specify Insulfoam in your projects:

ENGINEERED EPS
Versatile, Durable, Recyclable

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InsulGrade R-Tech Target: King of Prussia, PA

Problem & Solution:

Space was a challenge for this Target project as the parking garage is on the ground level and the actual retail floor is on the second level. Concrete planks were installed as the base substrate. R-Tech was then installed over the plank to insulate the interior of the retail space from the open parking garage underneath. A topping slab was then poured over the R-Tech to create the retail floor. The R-Tech insulation has a long-term stable R-Value and eligible for an Insulfoam 20-Year Thermal Performance Warranty - a warranty that's not prorated or limited to a percentage of the published R-Value.

InsulGrade R-Tech features a premium factory-applied laminate polymeric facer that is virtually impervious to moisture, keeps water from entering the insulation, and away from concrete foundations and slabs. Available in 4' x 8' panels and thicknesses starting at 3/8", with compressive strengths from 10-60 psi.



Over specifying below grade insulation with XPS often results in additional material costs of up to 40%.

Project Details:

Architect: Mulvanny G2 Architects

General Contractor: Whiting-Turner Construction

Contractor: Madison Concrete

Supplier/Distributor: Gatti Morrison

Insulfoam Product: Approximately 150,000 sq. ft. of R-Tech IV (25 psi), 4" x 4' x 8' and 6" x 4' x 8' sheets



EPS vs. XPS

- Both EPS and XPS are closed-cell insulations
- EPS and XPS below grade insulations are covered under the same standard- ASTM C578
- EPS has a more stable R-value and less long-term moisture retention than XPS
- XPS is 20-40% more expensive for the same compressive strength

Cost Effective

- Highest R-value per dollar
- 100%, 20 year R-value warranty
- 10-30% less than XPS insulations

Green From the Start

- Up to 20 LEED points possible
- 100% recyclable
- Contains up to 15% recycled content
- Minimal job site waste
- No thermal drift
- Helps preserve energy & fossil fuels

R-Tech Uses:

R-Tech has been used successfully for numerous commercial, industrial and residential applications:

- Below Grade Insulation
- Waterproofing Protection Board
- Cavity Walls
- Interior Walls
- Cold Storage & Freezers
- Sheathing
- Concrete Panel Insulation
- Concrete Slabs
- Radiant-Heated Floors

