

UW Oshkosh - Sage Hall

Application

132,123 board feet of Type XV expanded polystyrene (EPS) underslab insulation was installed beneath the floor slab and tiered seating areas at University of Wisconsin - Oshkosh's new Sage Hall Business Administration Building in Oshkosh, Wisconsin.

Project Details

Fall 2010, contractors were initially interested in using extruded polystyrene; however, they needed a more cost-effective option that provided a high compressive strength that met the specified R-value of R-5 and R-10. After examining technical data for Type XV EPS with a 60psi compressive strength at 10% deformation and its pricing, contractors realized that expanded polystyrene was the best option.

According to Jeff Schwasinger, Contractor, JP Cullen & Sons, Inc, "The product worked very well for this application. The mechanical contractor told us that the staples used to fasten the radiant tubing to the insulation held much tighter in the 60psi expanded foam than they do in the extruded board."

2-1/4" and 1-1/8" thick EPS insulation was installed with radiant tubing attached beneath the slab-on-grade. An additional 3" and 7" thick EPS insulation was used as concrete void fill to form the tiered seating areas.

The new 191,000 square foot Sage Hall building was designed to LEED Gold specifications and is expected to save \$182,000 annually in energy costs. The building features 27 classrooms, 23 labs, a trading room and green roof with raised gardens.

Underslab Insulation

UW Oshkosh - Sage Hall

- Oshkosh, WI
- Fall 2010
- Underslab Insulation
- 132,123 Board Feet

Contractor

Jeff Schwasinger
JP Cullen & Sons, Inc.

Architect

Ian Griffiths
Berners-Shober Associates



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