

CUSTOMER SUCCESS STORY

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At BASF, we don't make the Styrotech roofing designs. We make them more cost effective and energy efficient.

Customer: Styrotech/STYRO-STOP, Incorporated, Brooklyn Park, Minn.

End-Use: STYRO-STOP™ Direct EPS insulation for direct-to-deck metal roofing designs

Product: Styropor® expandable polystyrene (EPS) resin to produce foam

CHALLENGE: Historically, building codes have required a thermal barrier between an EPS foam insulation and the metal deck in roofing to achieve proper fire ratings. "The direct-to-deck approach is very appealing to commercial roofers because it takes less time to install an effective insulation envelope, which reduces labor costs and increases the number of projects they can pursue," said Scott Wehrmeyer, Marketing Coordinator for Styrotech. In addition, because most heat loss occurs through the roof, selecting a technology to insulate this area is a critical decision. Previously, the only insulation material feasible for direct-to-deck designs was polyisocyanurate foam.

SOLUTION: Styrotech uses BASF's Styropor resin to produce STYRO-STOP Direct EPS foam for direct-to-deck metal roofing designs in commercial buildings because of the material's consistency, performance and environmental benefits.

STYRO-STOP Direct has undergone a thorough evaluation for fire-safety performance and can be installed directly over metal roof decks in ballasted, mechanically fastened and fully adhered roof assemblies.

BENEFITS:

- Material costs for EPS are typically lower than polyisocyanurate.
- Styropor EPS foam delivers the necessary thermal insulation at a similar thickness.
- Styropor EPS offers design flexibility, high R-Values for thermal insulation, superior dimensional stability, and resistance to moisture absorption and physical degradation.
- An extensive study of metal roofing systems conducted by BASF confirmed the eco-efficiency benefits of Styropor EPS. The specific environmental benefits Styropor EPS foam brings to direct-to-deck insulation systems include having the lowest air emissions, since it never used ozone-depleting hydrochlorofluoro-carbons (HCFCs) blowing agents, and requiring less materials and weight to meet the necessary insulation standards.

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