

# Direct-To-Deck



## Molded Polystyrene Insulation.

Branch River molded polystyrene Direct-to-Deck insulation is a cost-effective, durable and energy efficient solution for roof insulation. Molded polystyrene insulation can be applied directly over steel roof decks without the use of a code specified thermal barrier, resulting in reduced material and labor costs.

- Cost effective roof insulation
- R-value that never changes and is stable over time
- Range of compressive strength available
- Closed cell insulation with superior moisture resistance
- Meets code requirements for direct-to-deck application

## Proven to meet, or exceed, building codes.

Branch River insulation is manufactured under an industry leading quality control program monitored by UL and further recognized in UL Evaluation Report UL ER40326-01. Branch River insulation meets ASTM C578, "Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation".



## Recognition.

UL Evaluation Report ER40326-01 and UL Roof Deck Construction No. 458 recognize Branch River insulation up to 10" (Type I) being installed directly over steel roof decks along with a Class A, B or C roof covering of 80 mils or less.

## Direct-To-Deck Assemblies.

**Steel Deck:** Minimum 22 gauge, 1/2" deep, non-perforated, and maximum 6" flutes.

**Molded Polystyrene Thickness:** Refer to ESR-1006 or UL Roof Deck Construction No. 458 for various thickness and Types.

**Accepted Membranes:** Approved EPDM or thermoplastic single-ply that are Ballasted, Mechanically Attached and Fully-Adhered.

**Cover Board (when required):** Refer UL Roof Deck Construction No. 458 for various cover board options.

For complete assembly information, refer to UL Roof Deck Construction No. 458 or ICC-ES Evaluation Report ESR-1006.



## FOAM FACTS: Branch River insulation outperforms XPS.

- Branch River insulation provides a stable long-term R-value at a lower cost
- Branch River insulation uses a blowing agent with 10 x lower global warming potential and 10,000 x lower ozone depletion
- Branch River insulation meets strength requirements at a lower cost
- Branch River insulation and XPS have resistance to moisture, but Branch River insulation has a higher vapor permeance leading to superior drying potential

## Performance Value.

When you consider all performance characteristics and cost, Branch River insulation is your best choice for foam insulation.

Branch River insulation has air in its closed cells and therefore has a stable R-value. Many other insulations use blowing agents that cause R-value loss and are harmful to the environment.

Branch River insulation has compressive strength to meet specific project requirements.

Branch River insulation is manufactured to resist moisture absorption in wetting conditions and release absorbed moisture quickly during drying periods, which means Branch River insulation maintains R-value.

## Termite Resistant.

One of the most destructive forces anywhere is termites. Branch River insulation can be manufactured with borate, a proven and safe additive, that effectively resists termites.

Branch River insulation with borate meets ICC ES AC239, "Acceptance Criteria for Termite-Resistant Foam Plastics".

## Recyclable.

After its life as a building insulation, Branch River insulation is 100% recyclable. It can be ground into granules and reincorporated into new Branch River insulation products or it can be thermally processed into a resin that's used to manufacture other new products.

## Ready to take control? Start here.

If you're ready to have Branch River insulation contribute to your next project, just contact your Branch River Plastics, Inc. Technical Sales Representative. They will be happy to give you design consultation, information about Branch River insulation products, pricing, and answers to all of your questions.



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