

M-SHIELD

Flat Polyiso - LEED Information



The Building
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M-SHIELD is a rigid roof insulation panel composed of a closed cell polyisocyanurate foam core bonded on each side to fiber reinforced facers.

M-SHIELD is a product for LEED Building Designs offering these advantages:

Highest Thermal Efficiency. Polyiso is the most thermally efficient insulation available in the marketplace!

Zero Ozone Depleting Potential. M-SHIELD is rigid foam board with third-generation, zero ozone-depleting blowing agents and is HCFC and CFC free.

Recycled Content. M-SHIELD is manufactured using recycled material. The percentage of recycled material by weight depends on the thickness of the product.

*Information and data obtained from the Polyisocyanurate Insulation Manufacturers Association

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LEED Point Distribution: Potential Credits for M-SHIELD:

Using M-SHIELD may help your project gain credits under three of LEED's six rating categories: Energy & Atmosphere, Materials & Resources and Innovation & Design Process. Below are several suggested opportunities to incorporate M-SHIELD in your LEED building design:

Energy & Atmosphere

- Minimize Energy Performance: Prerequisite Credit 2 - Thermally efficient M-SHIELD facilitates compliance with ASHRAE 90.1-1999 and local energy codes.
- Optimize Energy Performance: Credit 1 - Polyiso provides the highest thermal resistance per inch of material and can economically contribute to achieving one of the LEED levels of optimized energy performance.

Materials & Resources

- Building Reuse: Credit 1 - M-SHIELD can be and is often reused when building renovations include recover roof applications or partial tear offs in which only the membrane is removed.
- Construction Waste Management: Credit 2 - If the total percentage of reused materials in a project does not meet the minimum levels stated in Materials and Resources, Credit 1, Building Reuse, these reuse credits may be applied to this credit.
- Recycled Content: Credit 4 - Depending on the thickness of M-SHIELD installed, it can be used towards one of the levels of recycled materials credit.
- Local/Regional Materials: Credit 5 - Depending on the location of the project, if it is within 500 miles of the manufacturing site of M-SHIELD, LEED credit may apply.

Innovation & Design Process

- Innovation in Design: Credit 1 - Polyiso is the only zero-ozone depleting, negligible global warming potential, high-performance foam insulation with Quality Mark^{cm} certified LTTR-values. Since ozone-depleting insulations are also available such as extruded polystyrene, credit for using materials that are HCFC-free (like polyiso) may be granted for innovation in design.