

Green Attic Roofing Releases Resource on Commercial Roof Insulation to Support Energy-Efficient Building Practices

Helping building owners improve energy efficiency, extend roof lifespan, and meet modern codes with smarter insulation choices.

CHICAGO, IL, UNITED STATES, July 21, 2025 /EINPresswire.com/ -- Green Attic Roofing, a trusted leader in energy-efficient and sustainable roofing solutions, has announced the release of a new educational resource focused on [commercial roof insulation](#). The resource is designed to assist commercial property owners, architects, and contractors in making informed decisions when selecting insulation systems for new construction and roof replacement projects.



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Good insulation protects your roof and your budget. Our goal is to help building owners find the right solutions to boost performance and meet energy standards.”

*Andrei Turea, co-owner of
Green Attic Roofing*

With rising demand for energy-efficient building practices and stricter building codes, selecting the right insulation has become critical. Proper commercial roof insulation enhances HVAC performance, reduces energy consumption, mitigates heat transfer, and contributes to the long-term sustainability and durability of the building envelope.

The educational content highlights industry-standard materials widely used in the commercial roofing sector, including polyisocyanurate (ISO board), extruded polystyrene (XPS), expanded polystyrene (EPS), mineral

wool, fiberglass, and [spray foam insulation](#). Each insulation type offers distinct performance advantages depending on project scope, climate, and building type.

Overview of Key Commercial Roof Insulation Options:

Extruded Polystyrene (XPS): A rigid foam board known for moisture resistance, consistent thermal performance, and high compressive strength, ideal for systems requiring long-term durability.

Expanded Polystyrene (EPS): Lightweight and cost-effective, EPS provides moderate thermal protection and is often selected for budget-conscious projects and lightweight fill applications.

Material	R-Value (Per Inch)	Moisture Resistance	Durability
EPS	Moderate (~R-3.5 - 4)	Basic	Lower
XPS	Higher (~R-5)	Excellent	High
Polyiso	Highest (~R-6 - 6.5)	Good	High
Fiberglass	Lower (~R-3 - 4)	Poor (unless faced)	Moderate
SPF (Closed-Cell)	Very High (~R-6 - 7)	Excellent	High
Cellular Glass	Moderate (~R-3.3 - 4)	Excellent	Very High
Mineral Wool	Moderate (~R-4 - 4.3)	Good	High

Comparison of Commercial Roof Insulation Materials

Spray Polyurethane Foam (SPF): Applied seamlessly for continuous coverage, spray foam insulation delivers excellent moisture resistance and stable R-value performance, making it suitable for irregular roof shapes and retrofit projects.

Mineral Wool: Non-combustible with sound-absorbing properties, mineral wool is often used in industrial and high-rise buildings for its fire resistance and durability.

Cellular Glass: Highly resistant to moisture and fire, cellular glass is recommended for green roofs, industrial applications, and environments requiring extreme durability.

Fiberglass: A widely used material offering cost-effective insulation with added acoustic benefits, commonly installed under metal panels and in pre-engineered buildings.

Ensuring Compliance with R-Value Requirements

Achieving minimum R-value requirements, typically between R-20 and R-30 or higher, ensures commercial roofing systems comply with modern building codes and deliver reliable energy performance. In Illinois, R-30 continuous insulation remains a standard benchmark for commercial roofing assemblies, supporting both energy efficiency and long-term operational savings.

Proper insulation not only improves building resilience and energy conservation but also enhances performance against environmental factors like moisture, temperature fluctuations, and mechanical stress. These factors contribute significantly to the longevity of the roofing system and the overall energy profile of the building.

About Green Attic Roofing

Green Attic Roofing provides professional [commercial and residential roofing services](#) throughout the Chicago area. Since 2018, the company has delivered high-performance

solutions for architectural shingles, flat roofing, premium metal, slate, and DaVinci roofing systems. As certified Tesla Solar Roofing Installers, Green Attic Roofing offers solar energy solutions alongside roof rejuvenation, skylight installation, and Tesla Powerwall services.

Dumitru Nicolaescu

Green Attic Roofing

+1 847-858-0876

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