



INNOVATIONS FOR LIVING®

C.D. SMITH CONSTRUCTION



A looming Wisconsin winter. A desire for energy efficiency and savings. A 100,000 square foot roof.

These factors spurred C.D. Smith Construction, a Wisconsin-based general contractor, to choose the Owens Corning™ Elaminator® Insulation System for the roofing component of a distribution facility for 4 Imprint, a promotional products retailer.

The Elaminator® Insulation System offers an energy-efficient solution through a high-R value potential that provides energy and cost savings. Since it functions without support bands, the Elaminator® 300 series can increase daily production, thus reducing jobsite manhours, while providing extra safety with superior fall protection.

This particular project originally called for an R-19 roof application. It morphed into a leading energy-efficient building initiative when the owner inquired about additional insulation, as suggested through Wisconsin's Focus on Energy program, which works with eligible Wisconsin residents and businesses to develop cost-effective energy efficiency and renewable energy projects.

"The company was willing to invest in an energy-efficient roof, because they appreciated the payback in cost savings they would realize," said Dave Mertens, project manager at C.D. Smith.

Mertens was introduced to the Elaminator® Insulation System through Pro-Type, the erector on the job.

"The driving factor for utilizing the Elaminator® Insulation System on this project was the erector's ability to complete the 100,000-square-foot project in a little more than two weeks under adverse weather conditions, while simultaneously providing the high energy efficiency," said Mark Engebretson, regional sales manager for Therm-All, a leader in the metal building insulation industry.

Pro-Type's owner, Arvin Koopman, was introduced to the Elaminator® Insulation System 10 years ago by Therm-All and maintains a crew of certified operators.

"There are lots of reasons we like it," said Koopman. "Its two main selling points are the fall protection and that its configuration allows us to keep work flowing; the space below is free so it does not interfere with other trades. And of course, the end product is quite attractive."

Koopman says he suggested it on this particular project because the schedule was tight and netting would have interfered with other work happening simultaneously.

In touting the advantages of the Elaminator® Insulation System, Mertens mentioned the safety features, as well as the weather-related benefits. "Getting the roof on fast was vital. With the Elaminator Insulation System, we were able to beat the weather by completing the project quickly, while offering the ongoing benefits of energy efficiency savings."

For C.D. Smith Construction and its client, the Elaminator® Insulation System provided the winning combination of energy efficiency coupled with enhanced safety and productivity.

Owens Corning™ Elaminator® Insulation System features:

- **Safety:** The patented 300 Series machines comply with OSHA fall protection standards.* It offers a patented perimeter guard rail, a 14' guardrail at ridge or eave of the building, and a rear 6' extension that defines a guarded work zone for roofing.
- **Productivity:** Elaminator® improves productivity by allowing the insulation to be installed on days where windy conditions would normally prevent roof sheeting with both 300 and 120 machines.
- **Performance:** The systems low u-values were obtained by ANSYS finite element analysis and validated by hot box tests via ASTM C 976.
- **Appearance:** The Elaminator® Insulation System provides a system with facing seams lapped over the purlins where they are not exposed.
- **Availability:** The Elaminator® Insulation System is available through Owens Corning™ Elaminator® licensees throughout the United States.
- **Certification:** Owens Corning's Elaminator® Training Program provides additional assurance of quality installations with certification for 300 series machines.

*Visit www.osha.gov for details.



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