



ELAMINATOR[®] System From Bay Insulation

Picked for New Top at Food Distribution Center



Galesburg, Illinois.

Case Study



Companies marketing cereal and other packaged foods never underestimate the importance of box tops. So when the logistics supplier for a company with many of the world's best-known food brands needed to expand its Midwest distribution center, everyone involved made sure the roof of the new warehouse got plenty of attention. General contractor Allen Johnson took one look at plans for the expansion and knew he had another good project for the Owens Corning ELAMINATOR® insulating system.

First built by United Facilities Inc. in 1972/73, the distribution center in Galesburg, Ill., has since been expanded six times to reach its current size of 650,000 square feet. The newest addition to the warehouse – a 191,000-square-foot pre-engineered Butler building – is the largest addition. According to Johnson, with Johnson Building Systems, Inc., the size of the project made it an ideal candidate for the ELAMINATOR system.

“On this type of project, the ELAMINATOR system pays for itself by eliminating the netting that you would normally have to install for safety protection,” says Johnson. “We’ve used the system on jobs in Oregon and Utah, and it’s pretty fast. We’ve had real good luck with it.

“We can do as much as 20,000 square feet of roof in a day when we’ve got everything running right,” continues Johnson. “A couple of years ago in Oregon, we did 110,000 square feet of roofing in five days. There were two roofs on that job and the time included picking up the machine and putting it on the second roof. We still did it all in five days.”

Crystal Galloway, east coast regional manager for United Facilities and the senior executive at the Galesburg facility, says she was amazed to see how quickly the ELAMINATOR system worked once the equipment was in place.

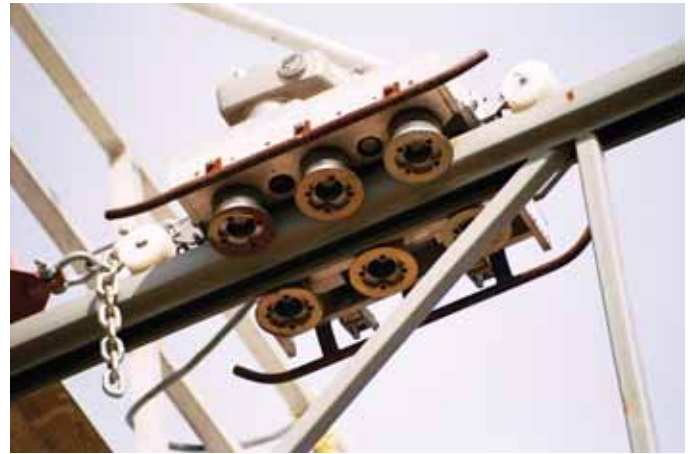
“I had never seen anything like that before,” says Galloway. “I’ve been here through two other additions and it was just all done by hand. This was a lot quicker.”

While productivity is important, Johnson says safety is also an important consideration.

“The safety benefit is what pays for the machine, because of the fact that we don’t have to use safety nets underneath the roof operations to protect the workers from falls,” continues Johnson.

Roger Vorhies, owner of Schaus-Vorhies Contracting, the company erecting the building, says his company usually hangs safety nets for fall protection.

“If we have a building less than 10 feet high over feather pillows, maybe I wouldn’t make the guys put the nets up, but they start asking at 20 feet if they can leave the nets out,” says Vorhies. “The answer is always the same: ‘Your face will bounce off of a concrete floor at 20 feet damn near as hard as it will from 30.’”



“On this type of project, the ELAMINATOR system pays for itself.”

Allen Johnson, Johnson Building Systems, Inc.

The ELAMINATOR® Process

The Owens Corning ELAMINATOR Insulating System includes equipment and processes for installing insulation on the roofs of pre-engineered metal buildings. The patented system enhances builder/erector productivity and meets the thermal performance needs of metal buildings. The 300 Series machines, like the one used in Galesburg, also comply with U.S. Occupational Safety and Health Administration (OSHA) safety guidelines for fall protection on most roofing insulation projects.

Traveling smoothly across the purlins or bar joists, the ELAMINATOR System unrolls facing and permits the installation of ELAMINATOR Insulation across the building structure for single layer applications, or unrolls the patented folded facing which permits double layers of ELAMINATOR Insulation between as well as over the purlin structure. The result is a uniform interior look that is sculpted, clean and bright without any exposed facing seams.

Quality installation is assured because an operator certified by Owens Corning must be on site to help install and operate the equipment at every project.

"We've tried competitive systems and the guys like this one (the ELAMINATOR system) better," he continues. "It takes the nets out of the picture and they get tired of hanging nets.

"The ELAMINATOR system has a leg up on its competitors simply because fall protection is taken care of with the system. That's a big thing with us. The safety end of our business is very, very important."

Vorhies says another big plus for him and his crew was the performance of the operator who came with the ELAMINATOR equipment.

"The particular person that Bay Insulation Systems sent out on our job (Jason Cutty, foreman) was damn good and he worked his butt off," explains Vorhies. "He wasn't just cranking the machines forward, he was helping lay sheets in his spare time, he was laying fuzz and he was always staying busy."

Vorhies' comments about Cutty were sweet music to the ears of Jim Markel, general manager of Bay Insulation Systems, the company supplying the insulation and the ELAMINATOR system.

"We believe that our guys in the field are the number one asset of Bay Insulation Systems," says Markel. "This reinforces that belief.

"We sold that job stating that we could make a difference in production with the ELAMINATOR system and our people," he continues. "Based on what I'm hearing, that was the result of us going in there. We were successful with our objective and what we promised Allen Johnson.

"As an ELAMINATOR operator and installation company, we pride ourselves in the difference we can make on the job and how smoothly the job can run," concludes Markel. "The comments about Jason only reinforces the fact that we are doing what we intend to do."

Johnson says another plus for the ELAMINATOR system is its ability to perform in windy weather. "We can keep going when the wind kicks up, where we might have to slow down or stop with other methods of installing insulation," says Johnson.

"The machine has its rolls up above the roof, so when the wind is coming across the roof the wind goes underneath the roof, or it goes up and over the area where you are working, so the wind doesn't effect your roofing operation as much as it would the traditional approach.

"And the ELAMINATOR system makes a better-looking interior," adds Johnson. "There are no seams showing on the interior because all the seams are over the purlin trusses."

Galloway also likes the interior appearance and what it does for the work environment. "It makes the building a lot brighter," she says, adding that it gives the workspace a more pleasant appearance.

Will Johnson use the ELAMINATOR system again if the job is big enough? "Why certainly. Certainly. It makes me money," he says. "It makes money for the customer, too, because the price for the roof is lower."

ELAMINATOR® Insulating System Features:

Safety: Patented 300 Series machines comply with OSHA fall protection standards 29 CFR 1926.500-502.

Productivity: The ELAMINATOR system improves production and allows insulation to be installed on days where windy conditions would normally prevent roof sheeting.

Performance: The installed system meets ASHRAE 90.1 standards with u-values obtained by a computer model, and ANSYS finite element analysis validated by hotbox test ASTM C 976.

Appearance: Facing seams are tightly lapped over the purlins where they are not exposed. A continuous vapor retardant over the purlins helps control moisture condensation, avoiding a major source of damage.

Availability: The ELAMINATOR is available through franchised Owens Corning laminating fabricators throughout the United States.

Certification: Owens Corning's ELAMINATOR Certified Operator Program provides additional assurance of quality installations.

Project:

Addition to dry foods distribution center
operated by United Facilities, Inc.
1557 S. Henderson Street
Galesburg, IL 61401
309-342-9151

Owner/Operator:

United Facilities, Inc.
603 North Main Street
Peoria, IL 61611
309-699-7271

Construction Manager:

Wieland-Davco Corporation
416 North Cedar Street, Suite 201
Lansing, MI 48912
517-372-8650
800-633-5488

General Contractor:

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P.O. Box 66
Galesburg, IL 61402-0066
309-343-3148

Building Erectors:

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609 West Grimes
Fairfield, IA 52556
641-472-8539

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