

Project:
Twin 100,000-square-foot buildings
on a 22-acre manufacturing
and warehousing complex

Owner/Operator:
Port Erie Plastics
909 Troupe Road
Harborcreek, PA 16421
814-899-7602

General Contractor
Kessel Construction, Inc.
Main Office
Bradford, PA
814-362-4696

Branch Office
Erie, PA
814-838-1590

Insulation Distributor & ELAMINATOR franchise holder
Therm-All, Inc.
31387 Industrial Parkway
North Olmsted, OH 44070
888-301-9494



INNOVATIONS FOR LIVING™

ELAMINATOR® System From Therm-All

Picks up the Pace at Port Erie Plastics



Harborcreek, Pennsylvania



INNOVATIONS FOR LIVING™

OWENS CORNING INSULATING SYSTEMS, LLC
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TOLEDO, OHIO, USA 43659
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Jim McClelland is familiar with the Owens Corning ELAMINATOR® insulation system. As a project manager for Kessel Construction in Erie, Pa., he has used the process several times for large pre-engineered buildings.

But when local injection molder Port Erie Plastics invited bids for a twin pair of 100,000-square-foot buildings, McClelland decided to do something different. At the urging of long-time insulation supplier Therm-All, McClelland sent two sheeting foremen to the ELAMINATOR Training Center in Astor, Florida.

With two certified operators at Kessel, McClelland was able to save the cost of having a certified operator accompany the 300 Series ELAMINATOR equipment and he took that savings out of his bid.

“We wanted to get the job,” explains McClelland. “Jobs are tight right now, so it just made sense to have our own people operating the equipment and make sure we got the work.”

“Jim Sitter (Therm-All sales representative) bugged me for a couple of years to get those guys certified,” continues McClelland. “We intended to do it but there just wasn’t any push for us to do that. In this case, it was prompted by the fact that we saved some money by having our own guys be the certified operators. They (Therm-All) kept telling us it was no big deal to do and they were right.”

The sheeting foremen who went to be certified are Rick Todd and Troy Ellsworth. The two have their own crews but the Port Erie Plastics roofs were so big they worked both crews together installing the sheet metal and R19 insulation.

How did their first job go? “It went real well,” reports McClelland. “On the first building, it seemed like it took a while to it set up and get it running, but after 100,000 square feet they had it pretty well figured out. By the time they got to the end of the first roof they were really moving.”

“The second one they set up in less than half a day. The building is 250 feet wide, so they had to set up 125-foot runs. For unit one, it took us about 13 days to get the roof on. Unit two was nine days.”

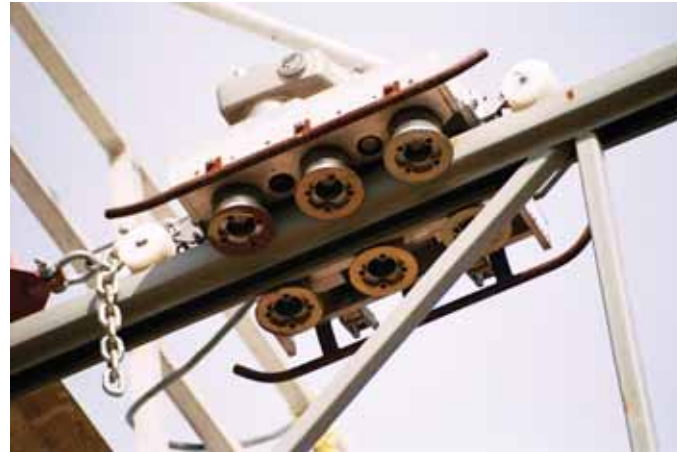
Keeping crews from getting cranky

Todd and Ellsworth did have a suggestion when they returned from the Owens Corning ELAMINATOR Training Center – “Let’s use a Power Puller.”

“It is a little more expensive to rent the Power Puller, but we probably saved that much in productivity over having three or four guys up on the roof with hand cranks,” says McClelland. “With the Power Puller, one guy takes care of all of that with the push of a button.”

“It probably doesn’t really cost you a whole lot in the end. It costs you a little bit, but with the weather being as hot as it was this summer, anything you can do to make it easy, you’re smart to do. Your productivity gets better.”

“If the guys aren’t busy cranking, they can be getting the insulation out or getting some sheets lined up or whatever – all those things you



“You would be crazy to do it any other way.”

Jim McClelland, project manager, Kessel Construction

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 at Port Erie Plastics, 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.

have to do. The less time you have to monkey with the insulation, the more time you have to work on the roof. It makes a big difference.

“The first building had to be done in 120 days from the day we signed the contract and we made it. Thanks, in part, to getting the roof on quickly, the second one is even further ahead of schedule. We knocked a week out of the schedule for the roof and we started pouring floors that much sooner. You would be crazy to do it any other way than with the ELAMINATOR system.”

Even before the company had certified operators and a Power Puller, McClelland was a fan of the system.

“You don’t have to roll out the vinyl and fight the wind,” he explains. “We’re up in Erie (Pa.) and you could almost throw a stone into Lake Erie. So there is often the wind to contend with and it isn’t a problem with the ELAMINATOR system.”

“You try to roll out 125 feet of insulation on a windy day and its back in your face before you get everything laid out. The ELAMINATOR is a big help.”

“Another thing, too, is that you don’t get so much tearing,” says McClelland. “No matter how careful you are, you’re going to get the vinyl up there and catch it on the edge of a sheet or something and you are going to be down there patching it. You pretty much don’t get that with the ELAMINATOR system, because you don’t handle the vinyl; you put it on the machine and let it go. Nobody likes to go in underneath and look for holes, especially in a 100,000-square-foot building.”

“One of the best things about the ELAMINATOR system, especially on big jobs, is the fact that we don’t have to net the job,” continues McClelland. “That cuts out a lot of time and wasted energy. The ELAMINATOR has fall protection. All we have to do is put warning lines behind it as we go to keep people away from the edge.”

“When we first start, we have to have cables on the gable end, if there is nothing there. Once you get the gable end done, you are pretty good after that. It is pretty much passive fall protection.”

“What you spend to have the ELAMINATOR system on the job you save in netting time and expense. And I don’t have to worry about the crew not having fall protection. I mean, they have fall protection with nets, but do they always set it up 100 percent and use them the way they are supposed to be used? That’s always a concern. They always set the nets up but there might be a weak spot here and there, or maybe the net doesn’t cover an area and they cheat a little. With the ELAMINATOR system, all of that worry is eliminated.”

Therm-All, Inc., is one of the largest metal building insulation laminators in the U.S. The company was also one of the first licensed distributors and installers of the ELAMINATOR insulation system for metal building roofs. Therm-All has installed over 50 million square feet of roof using the ELAMINATOR system on hundreds of projects throughout the United States.

“We’ve always gotten great service from Therm-All,” says McClelland. “And we’ve always gotten good prices. The material is always there when we need it. I don’t think we’ve ever had them be late. We tell them what day we want it and that’s the day they are there. Tell them what time of the day and they will be there.”

McClelland says it is also nice to have a supplier come up with ways for his company to save money. “Therm-All is good about that,” he says. “If they’ve got a better idea they will tell you. They have come up with some good ones.”

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.