

# ROOFING REVIEW

An Overview of Current LIGHTGUARD and HEAVYGUARD Applications

## Husky Injection Molding Uses Sound Technology To Solve Roof Problems

There are some companies that focus on quality, believing that quality has its own rewards. Husky Injection Molding is one of those companies.

Quality has its own costs, as well. For Husky Injection Molding, part of that cost is a \$12.5 million investment in their Parts Distribution Center in Buffalo, New York. To ensure response time, Husky located their facility just off the end of runway 23 at the Greater Buffalo International Airport.

That left their architectural firm, Cannon Architects in Grand Island, New York, with two specific problems to solve. As Mike Mistriner, project architect for Cannon Architects, put it, "They were concerned that their folks, working on computers and on the phones there conducting business, could hear." Mistriner continued, "We're off Lake Erie and have some pretty good winds here. If you look at an FM map, we're within the 70-90 mph range, and right there next to the airport is a large, flat, open area. So, the wind...there would be a lot of blowing."

To solve those problems, Mistriner said, "We paid special attention to the curtain wall system and we started to look at the roof, and the roof was this major influx of noise. We were also looking for a 90 miles per hour wind uplift. So, we needed a product that gave us mass and weight."



Husky Injection Molding in Buffalo, New York, used a T.Clear Protected Membrane Roof System with Heavyguard® Ballasted Roof Insulation to protect their building from the noise of nearby Greater Buffalo International Airport.

### Experts Choose HEAVY-GUARD To Solve Roofing Problems

Cannon Architects chose a T. Clear Protected Membrane Roof System with HEAVYGUARD® Ballasted Roof Insulation. "It satisfied two needs — an acoustical desire for mass to deaden the sound and it allowed for the weight for the wind uplift," said Mistriner.

According to T. Clear approved contractor Stuart Jenkins of Progressive Roofing, Inc., "We put down a vapor barrier on the metal deck. On top of that were two layers of 5/8", type X gypsum board for sound-

proofing. Then, we had a slip sheet and on top of that was the Sarnafil PVC membrane. Then, another Sarnafil slip-sheet membrane. So, we had two layers of Sarnafil, a layer of 2" Foamular insulation, and the 2" HEAVYGUARD panels went on top of that." Added Frank Pazzaglia of Contractor Services, Inc., independent advisor/inspector on the Husky job, "They also put down a Range 2 securement. On a building of that height it would normally have been a Range 1."

**HEAVYGUARD®**  
Protected Membrane Roof Insulation



Workers from Progressive Roofing, Inc. are exposed to the wind and cold as they install this Heavyguard Protected Membrane Roof System.

## HEAVYGUARD Protects The Membrane And Saves Energy

HEAVYGUARD Ballasted Roof Insulation panels are 2-foot by 4-foot, tongue-and-groove panels of 2-inch or 3-inch extruded polystyrene with a 15/16-inch latex-modified concrete facing. The tight, closed-cell structure of the foam insulation panels resists all forms of water penetration and protects all types of roofing membranes from heat, ultra-violet rays, temperature swings and freeze-thaw cycles.

The HEAVYGUARD panels, tongue and grooved on the long edges, serve as both insulation and ballast. Mistriner has had problems with gravel-ballasted roof systems. He says, "You don't get the right sized ballast to hold down the roof, and it tends to blow into piles or off the edge, and we really didn't want that problem. We had a glass building."

HEAVYGUARD panels have an R-value of 5 per inch of polystyrene. T. Clear agent, Brian Gleason of Styro Moisture Protection

in Troy, New York, says, "With this type of insulation, it's a long-term stable R-value. When they design heating and air-conditioning systems using those numbers, they're real numbers."

Once installed, HEAVYGUARD offers an attractive appearance and a smooth surface that's easy to walk on. Jenkins says, "It looks like a giant patio."

## System Goes On Easily

HEAVYGUARD is easy to apply—there is no need to adhere panels to the roof membrane or use fasteners that can puncture the membrane. There is also an opportunity to reuse the HEAVYGUARD panels in the event of membrane repair, renovation or vertical expansion.

The Husky roof was installed in February. Jenkins says, "We had some very high winds and some -20° days while we were working. The HEAVYGUARD allowed us to take advantage of getting large areas waterproofed and then fall back and utilize some iffy days weatherwise to finish your roof — days that you wouldn't be working otherwise."

## Total Performance Warranties

T. Clear Corporation set the standard with the first single-source, no dollar limit, total system warranty in the industry. T. Clear Protected Membrane Roof Systems are warranted to insure water tightness, insulating value and product integrity. T. Clear also offers 15- and 20-year extended warranties and warranties for high-wind areas.

T. Clear can assure long-term value and performance because their systems are installed only by authorized contractors and assessed at regular intervals by a nationwide network of independent advisors. Says Pazzaglia, "They send us back for updates. We're looking for movement, flashings opening, metal pulling out of the fasteners and that nobody has broken the integrity of the roof. HEAVYGUARD protects the membrane. I've seen roofs that have been down for 15 to 20 years and they were in great shape."

Gleason will tell you, "It's a better roof and those architects that design for quality and long-term performance understand that." Architect Mistriner says, "The nice part about that roof is that in the end you had this beautiful walking surface. And from above — being right there at the airport — they have a great looking roof on that building. I'll be surprised if the water even gets to the membrane."

For technical information or a list of nationwide manufacturer's agents, call T. Clear Corporation at 1-800-544-7398.



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