

Case Study: JM Cool Roof Scores High Points for Energy Savings and Ease of Roof Maintenance



Description: Sustainability practices have long been an operational focus of this snack food manufacturer headquartered in America's heartland. Beginning as a meat market in the early 20th century, Shearer's Foods today produces nearly 230 million pounds of snacks in five facilities across the nation, and has gained a reputation for industry-leading custom manufacturing and private-label production. Its family of brands is a preferred source for top retailers across the U.S., and through its private-label customers Shearer's products are sold and enjoyed worldwide. This increasing demand spelled the need for expanding manufacturing and distribution operations.

Challenges: In 2008 Shearer's reported, "We went in with a ripple – a new flavored potato chip – and out with a big green bang, announcing a major commitment to support the planet's sustainability and invest in our community with a new modern facility in nearby Massillon." Their aspiration was to build the first Gold-Certified Leadership in Energy and Environmental Design (LEED) food manufacturing plant in the entire state of Ohio.

By Phase One's dedication in August 2010, however, Shearer's had far exceeded its goal and the U.S. Green Building Council® awarded the facility a rare Platinum rating, making it "the first food company – most certainly the first snack food manufacturer – in the world to gain this distinction," according to Advanced Industrial Roofing Inc. (AIR) president Fred Horner. The dedication ceremony was attended by state and local officials as well as Robert Watson, considered the father of LEED. The building was constructed with at least 22% recycled materials and uses 30% less energy in manufacturing than industry standards.

Solution: According to AIR's John May, "Day-to-day operations at this new state-of-the-art snack food plant make big demands on its roof. Roofing materials must be able to resist exhaust tower spills of salts and oils used in the production processes below. They have to remain watertight during frequent cleaning, and they have to perform for years, growing with the operation. As additional lines are added to meet the increasing demand for Shearer's snacks, there will be increased demand on that roof as well, with additional exhaust outlets and skylights for increased ambient lighting in the production process."

Picard Architects easily met Shearer's needs and LEED specifications with their roof design: a "cool" white reflective JM PVC Membrane and stainless steel gutters, fascia and accessories. With the completion of Phase Two, the operations at Shearer's new Millennium Manufacturing Facility are covered by a 110,000-square-foot JM PVC roof with a proven record for durability, longevity and energy efficiency.

Location:
Massillon, Ohio

Building Representative:
Shearer's Foods
Melissa Shearer,
Vice President, Communications

Architect:
John Patrick Picard Architects

General Contractor:
Schumacher Construction Co., Inc.

Roofing Contractor:
Advanced Industrial Roofing, Inc.
Fred Horner, President
John May, Project Manager/Estimator
JM Peak Advantage® Summit Club® Contractor

Roofing System Solution: SP6RA
20-Year Peak Advantage® Guarantee

ENERGY 3® Roof Insulation
Invinsa® Roof Board
JM PVC Membrane Adhesive (Low VOC)
JM PVC 60 mil Membrane, Fully Adhered
Stainless Steel Accessories

Note: For additional information refer to *Food Engineering*, "Plant of the Year" cover story, April 2011.

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