

SIKA AT WORK

ROOF REFURBISHMENT OF TD GARDEN BOSTON, MASSACHUSETTS, USA

ROOFING: Sarnafil®, Sikalastic®

BUILDING TRUST



SUSTAINABLE ROOF REFURBISHMENT SYSTEM FOR TD GARDEN BOSTON, USA

PROJECT DESCRIPTION

TD Garden, Boston USA, a multi-purpose arena, is home to two of the main professional sports teams in Boston – basketball's Boston Celtics and ice hockey's current champions, the Boston Bruins. This award-winning facility hosts more than 200 major entertainment events throughout the year. In 2011, the old roof reached its life end. There were numerous problems with the old roof, including billowing, which caused weaknesses in the system and created leaks. The roof upgrading and refurbishment were completed with a Sika solution that combined a mechanically fastened, polymeric roofing membrane system for large roof area and a liquid applied membrane system for detailing – A tailor-made and fully compatible solution using two proven Sika systems. This project was completed in November 2011.

PROJECT REQUIREMENTS

The replacement of the old roofing system shouldn't cause any disruption to the game schedule.

Moreover, given its commitment to sustainable business practice, the building owner, Delaware North Companies, demanded an eco-friendly renovation concept for the TD Garden project.

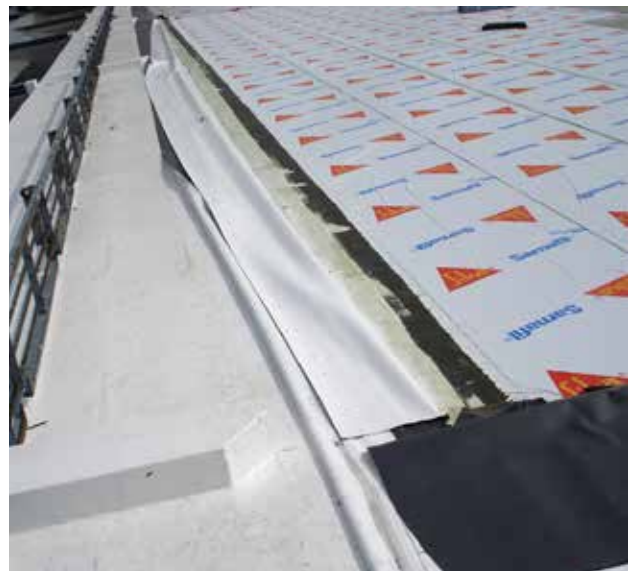


SIKA SOLUTION

Wessling Architects specified the Sikalastic® Liquid Membrane in the building's large north and south side gutters and a Sika Sarnafil® RhinoBond Roof System - mechanically attached by using induction welding technology - on the barrel roof. "We believe the Sarnafil® membrane is one of the best PVC roofing membranes in the market," Karman stated. "It is a proven product, has heat-weldable seams, and the Sika Sarnafil® technical representatives provide a very high level of services. Plus, it is aesthetically pleasing, which was important on such an iconic and visible roof."

When work finally did begin in late June, Greenwood removed 156,000 square feet of the existing roof, which was recycled by Sika into new roofing membrane products. Approximately 113,000 square feet of insulation was also recycled. A gypsum

substrate board was first installed followed by the continuous self adhered vapor barrier. Over this 4.0 inches of insulation with an R value of 27 was installed. The Sarnafil® S 327-18 EL mechanically fastened membrane in traffic white was then installed using the RhinoBond induction welding for the main barrel roof and in lead grey for the lower sloped roof areas. The wide gutters and lower edge sections of the barrel roof (up to the snow guards) was waterproofed with liquid applied - Sikalastic® 621 membrane system.



SUSTAINABLE ROOFING SOLUTION



PROJECT PARTICIPANTS

Project owner: Delaware North Companies, Inc. – Boston

Architect: Wessling Architects, Shawmut Design

Contractor: Greenwood Industries, Inc.

Sika organization: Sika Corporation, U.S.

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SIKA SERVICES AG

Tüffenwies 16
CH-8048 Zürich
Switzerland

Contact

Phone +41 58 436 40 40
Fax +41 58 436 41 50
www.sika.com

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