

Project Profile

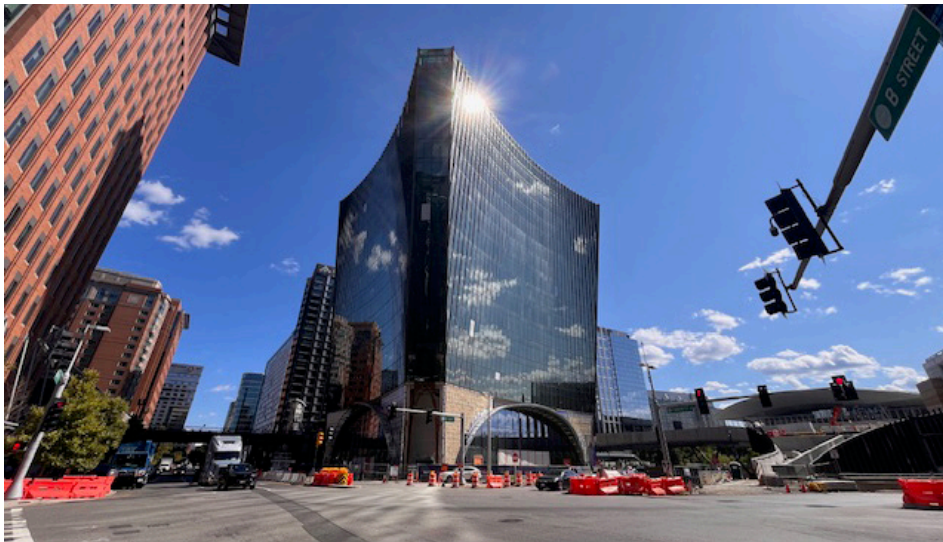
Innovation in Every Detail: A Precision-Engineered Roof for 10 World Trade

About 10 World Trade

Opened in early 2025, 10 World Trade introduces a dynamic, mixed-use space to Boston's Seaport District, featuring:

- Lab space, offices, and retail area
- Outdoor public spaces
- A 24/7 cultural hub open to the community year-round

Designed by Boston Global Investors, the building aims to be one of Boston's most sustainable developments, pursuing SITES, LEED, and WELL Gold/Platinum certifications. Every aspect of the project required precision, innovation, and a commitment to sustainability—including the 462 square roof.



Project Summary

- Roofing System: EverGuard® TPO Membrane
- GAF SA Vapor Retarder XL, a self-adhered vapor-inhibiting membrane
- EnergyGuard™ Tapered Polyiso Insulation
- Key Features: Custom tapered insulation layout, FAA height compliance, and advanced stormwater management
- Certifications Pursued: SITES, LEED, and WELL Gold/Platinum

Job Details

- Location: Boston, MA
- Roof Size: 462 Squares
- Completion Date: Q4 2024
- System Type: TPO
- Building Type: Mixed-Use

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GAF Project Profile

10 World Trade

Challenges

The roof design had to accommodate multiple technical and aesthetic requirements, including:

- **Complex Shape & Geometry** – The oblique, concave “D” shape of the building meant the top floor extends beyond the base, requiring an intricate tapered insulation system.
- **FAA Compliance** – Given the building’s proximity to Logan Airport, the roof had to adhere to strict height limitations, requiring precise measurements down to fractions of an inch.
- **Sustainability & Stormwater Management** – As Boston’s first SITES-certified building, 10 World Trade needed a high-performance roofing system that would support biodiversity, manage stormwater efficiently, and contribute to energy efficiency.

Given these challenges, the project required exceptional coordination across trades to optimize drainage, meet design intent, and exceed building code requirements.

Solution:

GAF’s Tapered Design Group worked closely with Sasaki Architects and Titan Roofing to develop a custom tapered insulation layout that fit the roof’s unique geometry while maintaining positive drainage.

“The biggest challenge was that the overall roof area was composed of multiple little areas tiled together like

a mosaic, at multiple heights to accommodate equipment storage,” said Veronika Chwiero, GAF Regional Tapered Sales Manager.

The design process included:

- Optimizing drainage locations to reduce material waste while exceeding code minimums
- Coordinating roof elevations with door thresholds and overburden supports
- Providing Titan Roofing with a detailed Design Map that included piece counts for each roof area

To further streamline installation, the GAF New Columbia facility pre-labeled insulation bundles by roof area, ensuring an efficient staging and organizing process for Titan Roofing.

A Roof Built for the Future:

From the extensive solar array to the high-performance insulation, the roof played a vital role in helping 10 World Trade achieve its ambitious sustainability goals. The building’s holistic approach to environmental impact required every trade to contribute, ensuring that the project would not only meet its certification targets but also function as part of a larger regenerative landscape.

As Boston energy codes evolved throughout construction, the team maintained continuous communication to ensure compliance with changing standards, reinforcing the developer’s inclusive, community-forward vision.



About the Contractor:



Titan Roofing — Springfield, Massachusetts

A GAF GoldElite™ Commercial Contractor, Titan Roofing specializes in commercial roofing, sheet metal, and restoration projects across the Northeast, with additional offices in New York and Connecticut. With a reputation for expert craftsmanship and technical excellence, Titan Roofing continues to lead in delivering high-performance, sustainable roofing solutions.



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