

JOSEPH BUKOVEC, P.E., RWC, RRC

Vice President



Summary

Joseph Bukovec joined Thornton Tomasetti in 2022, bringing over 15 years of experience in the design, construction, and assessment of building envelope systems. His expertise ranges from modern to historic buildings as well as residential to high-rise towers, helping clients extend and enhance the life of their building assets. Joseph also applies his expertise to third-party peer reviews, failure/damage investigations, and litigation support services. In addition, Joseph serves on the Editorial Board of the International Institute of Building Enclosure Consultants (IIBEC) interface magazine and the Building Enclosure Symposium Committee.

Areas of Technical Expertise

- Building Enclosure Consulting
- Forensic Investigations
- Historic Preservation

Education

- B.S., Civil Engineering, 2005, Rensselaer Polytechnic Institute

Registrations

- Licensed Professional Engineer in CT and NY
- Registered Waterproofing Consultant (RWC), International Institute of Building Enclosure Consultants
- Registered Roof Consultant (RRC), International Institute of Building Enclosure Consultants

Professional Activities

- Interface Magazine Editorial Board, International Institute of Building Enclosure Consultants (IIBEC), 2019-Present

Select project experience

Facade Assessment

655 Montgomery Street, San Francisco, CA.* Travertine panel facade assessment and repair design of high-rise mixed-use building.

777 Mariners Island Boulevard, San Mateo, CA.* Roof and terrace waterproofing replacement design and construction administration services.

215 Church Street, New Haven, CT.* Condition assessment and restoration of historic masonry façade.

Roofing and Waterproofing

Marin County Civic Center, San Rafael, CA.* Assessment and replacement design for the architecturally significant roof of a Frank Lloyd Wright-designed building. Scope included adhesion testing and a custom-colored fluid-applied membrane to meet both the performance and aesthetic requirements. This building is listed on the National Register of Historic Places.

2150 Webster Street, Oakland, CA.* Provide roofing and waterproofing consulting services to prime architect during building renovation.

377 Second Street, Oakland, CA.* Detail design of building envelope components for new mid-rise mixed-use building.

Orchard Trimble Office Park, San Jose, CA.* Roof replacement design and construction observation for multi-building office campus.

Yale University, West Campus, A42 Building, West Haven, CT.* Design and construction observation of low-slope roof replacement.

Archbold Building, Choate Rosemary Hall, Wallingford, CT.* Design and construction observation of slate roof replacement.

*Denotes work performed with previous employer.

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Historic Preservation

SMUD Headquarters Building, Sacramento, CA* Building envelope assessment and design as well as construction services for the preservation, rehabilitation, and modernization of the 166,000-square-foot municipal building. This work included the preservation of architecturally significant façade materials and tile murals. This building is listed on the National Register of Historic Places.

Clift Hotel, San Francisco, CA.* Façade assessment and repair/rehabilitation design for historic masonry facade.

Sutter's Fort, Sacramento, CA.* Assessment and repair/restoration recommendations for perimeter masonry walls of a nineteenth-century fort compound. This building is listed on the National Register of Historic Places.

Repair and Rehabilitation

Coleytown Middle School, Westport, CT.* Building envelope assessment to investigate excessive air and water infiltration. Prepared schematic repair recommendations that included multiple options with various budgets and schedules. Comprehensive rehabilitation documents addressed roof replacement, window and curtain wall replacement, HVAC replacement, façade over-cladding, structural enhancements and installation of new mechanical systems.

Hartford Insurance Group Home Office Building, Hartford, CT.* Rehabilitation design for historic wood-framed windows.

Select Papers, Lectures and Publications

"You Down with VIG: A Vacuum Insulated Glass Primer," IBEC International Convention, Orlando, FL, March 20, 2022 (co-author and presenter)

"Case Study: Failure and Repair of Historic Wood Trusses at St. John the Baptist Church, Hoboken, NJ," American Society of Civil Engineers (ASCE) 6th Congress on Forensic Engineering, 2012 (co-author)

CONTACT

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