



## Bailey Rae Brown | MS, PE

### Associate, Project Engineer

Bailey Brown consults on the design and constructability of building enclosures for new construction, performs thermal and hygrothermal analyses of building enclosure systems, and advises on energy code compliance. She provides design review; coordinates field review and testing; and provides construction administration support for new construction. Bailey is also one of the primary authors of the recently published *Masonry Systems Guide: Northwest Edition*.

### Expertise + Experience

Bailey's experience, from new high-rise structures to wood-framed mixed-use buildings, includes unitized curtain walls, window walls, metal panel and masonry veneers, hot fluid-applied waterproofing, modified bitumen roof membranes, and bentonite below-grade waterproofing.

Bailey is an Associate and shareholder of RDH and is committed to the success of RDH projects.

### Education

M.S. Civil Engineering, Washington State University (summa cum laude)

B.S. Architectural Engineering, University of Wyoming (magna cum laude)

### Memberships

Registered Professional Engineer (WA)

Seattle Building Enclosure Council (SEABEC)

### Publications & Presentations

- "The Reality of Air Barriers" (presentation to the Seattle Building Enclosure Council, Seattle, WA, May 15, 2014)
- Jones, D., Brown, B., Thompson, T., Finch G. "Building Enclosure Airtightness Testing in Washington State: Lessons Learned about Air Barrier Systems and Large Building Testing Procedures" (paper presented at the 2014 ASHRAE Annual Conference Technical Program, Seattle, WA, July 2, 2014)
- Brown, B. et al., *2016 Masonry Systems Guide: Northwest Edition* (Seattle: The Masonry Institute of Washington and The Northwest Masonry Institute, 2016)
- Building Science Workshop Series, Masonry Institute of Washington, various dates
- "High Performance Masonry Enclosures" (presentation to AIA Seattle's *Corporate Allied Partner (CAP) Educational Series*, Seattle Washington, May 31, 20017)
- "Chapter 5: Enclosure" in *Nail-Laminated Timber U.S. Design & Construction Guide v1.0*, ed. Holt, R.; Luthi, T.; and Dickof, C (Seattle: Binational Softwood Lumber Council, 2017) 67-80

### Typical Projects

#### NEW CONSTRUCTION

- Via6 (6th and Lenora), Seattle, WA - Two-tower mixed-use high-rise with unitized curtain wall and plaza deck waterproofing
- Kinects, Seattle, WA - Mixed-use high-rise with window wall and plaza deck waterproofing
- Western and University, Seattle, WA - Mixed-use high-rise with window wall
- ArtHouse, Seattle, WA - Mixed-use mid-rise wood frame construction with sheet-applied air barrier and multiple vegetated roof decks
- Southport Hotel, Renton, WA - Mid-rise steel-framed tower with exterior insulation, anchored clay masonry, and precast concrete veneer.
- Southport Office, Renton, WA - Three-tower commercial high-rise with unitized curtain wall and plaza deck waterproofing.



#### HYGROTHERMAL + THERMAL MODELING ASSESSMENT

- Baldwin Apartments, Seattle, WA - Residential low-rise with existing hollow clay tile walls
- Samaritan Health-Fresenius Dialysis Building, Lebanon, OR - Low-rise wood-framed facility
- Fraser and Carver Halls, Bellingham, WA - Insulation upgrade to low-rise masonry wall enclosure at Western Washington University
- Seattle Asian Art Museum, Seattle, WA - Insulation upgrade to historic sandstone enclosure.