



PERSONNEL QUALIFICATIONS

Nicolas S. Tessener | Associate III



EDUCATION

- North Carolina State University
 - Bachelor of Science, Civil Engineering, 2019
 - Master of Civil Engineering, Structural Engineering and Mechanics, 2022

PRACTICE AREAS

- Building Enclosure Commissioning
- Construction Observation Services
- Facade Assessment
- Water/Air Leakage Assessment
- Historic Preservation
- Structural Failure/Damage Investigation
- Litigation Consulting

PROFESSIONAL AFFILIATIONS

- Air Barrier Association of America
- American Society of Civil Engineers

CONTACT

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* Indicates with previous firms

EXPERIENCE

Nicolas Tessener specializes in building enclosures, facade assessments, and structural analysis involving a variety of building types from single-family residential to high-rise commercial buildings. Mr. Tessener has performed investigations, repair design, and construction observation services for a variety of facade and structural systems, including mass masonry and cavity walls.

Prior to joining WJE, Mr. Tessener was a forensic engineering analyst involved with construction litigation, primarily related to building enclosure failures and construction deficiencies. In that role, he regularly participated in analysis of as-built conditions relevant to industry and code requirements and structural analysis of existing building systems to determine adequacy. Mr. Tessener has also worked with transportation firms to design roadways and evaluate existing transportation structures.

REPRESENTATIVE PROJECTS

Building Enclosure Commissioning

- East Carolina University, Life Sciences and Biotechnology Building - Greenville, NC

Construction Observation Services

- 301 Hillsborough - Raleigh, NC: On-site observation and quality assurance of high-rise building enclosure, including curtain wall, metal panel, waterproofing, and single-ply TPO roofing membrane
- Sojourn Glenwood Place Phase II - Raleigh, NC: On-site observation and quality assurance of mixed-use multifamily building enclosure, including storefront, vinyl windows, brick veneer, fiber cement, EIFS, and single-ply TPO roofing membrane
- Jones Grant Apartments - Raleigh, NC: On-site observation and quality assurance of multifamily building facade restoration, including complete removal of cladding and replacement of wood framing, air and water barrier, and cladding

Facade Assessment

- Crosstown at Chapel Hill - Chapel Hill, NC: Condition assessment of multifamily building facade, including fiber cement and wood framing

- Lively at Market Common - Myrtle Beach, SC: Due diligence condition assessment of multifamily building facade
- Peterstown PK-8 School - Peterstown, WV: Masonry veneer tolerance evaluation during construction
- Logan & Chamberlin - Raleigh, NC: Due diligence condition assessment of multifamily building facade

Water/Air Leakage Investigation

- First Citizens Bank North Hills - Raleigh, NC: Leakage investigation and development of repair recommendations for roofing leakage
- 927 West Morgan Street - Raleigh, NC: Leakage investigation and construction observation of repairs of facade and balcony conditions

Historic Preservation

- Parris Island Marine Corps Building 10 - Parris Island, SC: Facade evaluation and water penetration resistance testing of mass masonry walls and existing windows, including sampling of original structural steel and mortar for laboratory analysis and repair recommendations
- Craven Terrace - New Bern, NC: On-site observation and quality assurance for repairs to 1940s and 1950s mass masonry walls and flashing to address water intrusion
- Fort Monroe National Monument - Fort Monroe, VA: Visual inspection and condition assessment of surrounding moat walls

Structural Failure/Damage Investigation

- Uncommon Apartments - Raleigh, NC: Wood floor truss evaluation
- Elon University - Elon, NC: Multifamily building wood floor truss evaluation
- 300 East Main St Parking Garage - Chapel Hill, NC: Precast parking garage deck collapse evaluation

Litigation Consulting

- High-Rise Condominium - Naples, FL: Analysis of roofing and window assemblies following allegations of Hurricane Irma damage *