



Brandon Mintz, PE

Project Engineer

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Brandon is a licensed Professional Engineer with 3 years of experience in structural analysis and design. His assignments include new construction; renovation, retrofit and construction plan preparation for reconstruction of damaged structures. He performs structural analysis of roof systems for residential, commercial and industrial buildings. Recently, Brandon has inspected, designed and analyzed various seawall, wharf, and dock structures for new construction and rehabilitation. Brandon provides residential and commercial site investigations to determine the cause and origin of structural and utility failures, damages, or defects. He investigates and assesses damages due to catastrophes such as windstorm damage; hail damage, hurricanes, floods, and sinkholes. He prepares detailed reports outlining the cause and origin of the damages for the clients.

PRIMARY AREAS OF CONSULTING

- **Laboratory Testing**
 - Develop reports documenting laboratory-testing results
 - Develop professional presentations regarding laboratory functions
 - Develop testing protocol to evaluate structural loading for roofing systems
 - Perform testing of roofing systems
- **Construction Defect Analysis**
 - Code interpretations
 - Concrete, wood, steel and masonry
 - Document review
 - Material testing
 - Roofing systems
- **Engineering Design and Analysis**
 - Structural Design of residential, commercial and multi-family structures
 - Wind loading diagrams
- **Structural Evaluations**
 - Balcony and wall failure
 - Blast and vibration analysis
 - Code issues
 - Collapse analysis
 - Commercial, residential and industrial buildings
 - Flood/surge assessment
 - Material failure
 - Wind damage
 - Wind related impact damage
 - Quality failure
- **General Engineering**
 - Building code compliance
 - Swimming pools and other buried structures

Ph.D., Civil Engineering
Florida International
University

M.S., Civil Engineering
Florida International
University

B.S. Civil Engineering
Florida International
University

Professional Registration
Engineering Intern
Florida #1100012391

Professional Affiliations
American Society of
Civil Engineers

American Concrete
Institute

Precast/Prestressed
Concrete Institute

Florida Structural
Engineering Association

Brandon Mintz,
Cont.

- **General Damage Assessment**
 - Construction defect analysis
 - Fire damaged structures
 - Flooring Repair cost evaluations
 - Foundation/wall evaluations, including sinkholes
 - Structural collapse
 - Water and sewer pipe failure
- **Roof System Evaluations for Commercial, Residential and Industrial Buildings**
 - Cause, nature and damage evaluation for wind, hail and impact
 - Installation errors
- **Moisture Source Evaluations**
 - Cause, source and damage assessment
 - Code issues
 - Cost evaluations
 - Window, door and wall failure analysis
- **Building Envelope Evaluations**
 - Condition assessments
 - Construction defects
 - Structural loading
 - Thermographic scanning and interpretation
 - Windows (air, water thermal resistance and condensation)
 - Waterproofing the building envelope
- **Wind Engineering and Related Storm Effects**
 - Hailstone impact
 - Structural damage
 - Wind design and damage evaluation
- **Litigation**
 - Exhibit design and preparation
 - Support