



David Horne

PE, ICC, OSHA

Senior Managing Engineer

Department

Engineering Services

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Locations

Charleston, SC

Biography

For over 20 years, David has provided structural technical clarity for insurance and legal professionals. As a Forensic Structural Engineer, he is an expert at investigating hurricanes, tornados, and other storm damage. David also has vast experience evaluating post-fire damage and determining cause and scope of moisture intrusion and damage. He has consulted on 100's of Construction Defect files, providing insight with regards to roofing, framing, building envelope and drainage issues. David has served as an Expert Witness and provided over 100 depositions and testimony in numerous trials. In his well-rounded career, David has thorough experience working with building elements such as concrete, steel, wood and light-gauge metal. Besides residential and commercial structures, David has also worked theme park elements and a successful SBCCI PST&ESI (ICC) submittal.

Credentials

- PE | Professional Engineer
- ICC | International Code Council
- OSHA | Occupational Safety & Health Administration Certificate

Representative Consulting Assignments

- Various Structures | Southeast US | Post Hurricane evaluations of wind/water/impact damage providing cause, scope and repair recommendations
- Docks | NC, SC, GA | Inspect and determine cause of damage to residential and commercial docks after hurricanes
- Large Townhouse Community | North Myrtle Beach, SC | Expert Witness consultation regarding site drainage and alleged construction defects
- Timber Bulkhead | Bluffton, SC | Examine and evaluate failure of timber bulkhead surrounding community pond
- Residence | Isle of Palms, SC | Evaluate alleged vibration damage to residence through visual inspections and exemplar testing of construction activities
- Residential and Commercial Structures | Southeast US | Evaluate stair, ramps and walking surfaces to determine compliance with applicable codes/standards
- Various Buildings | Southeast US | Inspect and evaluate roofs (residential and commercial) for wind and/or hail damage
- Numerous Apartment Buildings | Charleston, SC Metro Area | Post Fire Structural Damage Assessments
- State Shipping Terminal | Charleston, SC | Evaluate cause and scope of damage to concrete shipping wharf
- Various Residences | NC, SC, GA | Inspect and evaluate cause of elevated moisture issues within crawl spaces and evaluate resulting damages

Professional Experience

- 2022 - Current | Senior Managing Engineer | YA Engineering Services

- 2000 - 2022 | Forensic Structural Engineer | Engineering Design & Testing Corp.
- 1996 - 2000 | Structural Designer/Project Manager | Bowen Engineering

Area of Practice

- ADA Compliance Assessment
- Building Code Upgrade Review
- Building Envelope
- Condition Assessment
- Damage Assessment
- Earthquake Engineering
- Failure Analysis
- Historic Preservation
- Litigation Support
- Marine Structures
- Non-Destructive Testing
- Repair and Rehabilitation Design
- Repair Cost Estimating
- Roofing
- Structural Analysis
- Water Leakage Testing and Analysis

Education

- University of Central Florida - Bachelor of Science - Civil Engineering - Orlando - Florida

Licenses

- 32056-PE - Alabama - Professional Engineer
 - 63362 - Florida - Professional Engineer
 - PE028936 - Georgia - Professional Engineer
 - 30353 - North Carolina - Professional Engineer
 - 21673 - South Carolina - Professional Engineer
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