



RICHARD KEITH DIXON, CIEC, CMC, CIAQM

Senior Designer - Indoor Air Quality/Microbial Consultant

Richard Dixon has over 25 years of construction and architectural/structural design experience relating to custom residential construction, commercial, and industrial projects. He has worked on the design, and damage assessment of multiple coastal condominiums, coastal residential structures, marine structures, reinforced concrete buildings, containment and waste water structures, drainage projects, roads and parking areas, chemical plant construction and modifications, piping design, reinforced concrete masonry buildings, piers, pedestrian bridges, and roof trusses. In addition, he has over 9 years of experience in industrial safety incident prevention and analysis. He is certified as an Indoor Environmental Consultant and a Microbial Consultant, an Asbestos Inspection Management Planner and Supervisor, and a licensed air monitor.

Education

- Bachelor of Science; Industrial Engineering Technology, Fairmont State University, Fairmont W.V.
- Associate of Science; Architectural Design, Fairmont State University, Fairmont W.V.

Continued Education

- Master of Business Administration - Industrial Management; Charleston Southern University, Charleston S.C.

Previous Experience

- Applied Building Sciences, Inc. May 2006 - present
- Bayer Corporation, Charleston, SC, April 1996 to Jan. 2006
- Davis and Floyd Engineers, Charleston, SC, 1991-1996
- Dolphin Corporation Architects and Builders, Charleston, SC, 1990-1991
- Besteel Modular Industries Inc. Walterboro, SC, 1988-1990

Certifications and Licenses

- Certified Indoor Environmental Consultant
- Certified Microbial Consultant
- Certified Indoor Air Quality Manager
- Licensed Asbestos Management Planner
- Licensed Asbestos Supervisor
- Licensed Asbestos Inspector
- Licensed Lead Renovator
- Licensed Air Monitor
- ISO 9001-2000 Quality Auditor

Professional Organizations

- Indoor Air Quality Association (IAQA)
- American Society of Safety Engineers (ASSE)

PRINCIPAL AREAS OF PRACTICE

- Building Envelope and Moisture Investigations
- Air Quality Investigations
- Asbestos Inspection / Abatement Supervision
- Mold Inspection / Remediation Supervision
- Property Assessment Investigations
- Fire System Design and Fire Code Assessments
- Residential / Commercial Architecture/Structure
- Coastal Velocity Zone Structures
- Modular Design
- Coastal Hot/Humid Climate Design
- Crawl-Space Investigations
- Industrial Facilities Design
- Fire Damage Assessment / Re-design
- Truss Condition Assessments
- Roof Investigations
- Renovation Assessments
- Computer Aided Design
- Window Assessment and Spray Testing
- Coating Assessments
- Welding Assessments
- Safety Assessments

Building Envelope and Moisture Investigations

- Multiple building envelope investigations to assess material and structural damages caused

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by moisture and microbial related issues of several homes and commercial buildings in South Carolina.

- Multiple brick, EIFS, stucco, and cementitious siding veneer investigations of commercial and residential structures in the Southeast.

Air Quality Investigations (Asbestos / Mold)

- Air quality assessment and inspection of asbestos and mold abatement and remediation projects, inspection for asbestos and mold in hospitals, schools, warehouses, and industrial facilities.

Property Assessment Investigations

- Multiple investigations of commercial and residential properties for roof, attic, building envelope, crawlspace, slab, foundation, HVAC, plumbing, and interior condition assessments.

Fire System Design and Fire Code Assessments

- Field investigations and design of multiple restoration projects to ensure the latest fire and building codes are implemented. Fire brigade trained.

Residential Architecture

- Design and construction supervision of over 50 custom residential homes within the Charleston coastal areas and barrier islands.

Commercial Architecture and Structure

- Architectural and structural steel design support for multiple commercial projects including townhomes, apartment complexes, gas stations, minimum security prisons, office buildings, schools, restaurants, hospitals, and historic renovations.

Coastal Velocity Zone Structures

- Structural design support and assessment of multiple ocean front homes and support structures.
- Assessment and design support on several retaining walls and groins on ocean and lake front property.

Modular Design

- Modular design of several commercial construction projects including schools, prisons, turn-key service stations, and personal residences.

Hot/Humid Climate Designs

- Design and installation supervision of building envelope moisture barrier systems in hot/humid climates for multiple residential and commercial projects.
- Pre-design assessment and design support relating to the structure of the Folly Beach Pier, Charleston, S.C.

Crawl-Space Assessments

- Over 5 years of crawl-space investigation experience for moisture, insect, microbial and structural damage assessment.

Industrial Facilities Design/Supervision

- Over 9 years of process plant design, piping and equipment arraignment design.
- Provided quality audits which included the assessment of equipment, piping, and infrastructure conditions, and proper hygienic procedures for material storage and handling per ISO 9001-2000 standards.

Fire Damage Assessment/Redesign

- Assessment of fire damage to custom residences, apartments, and condominiums including design support for repairs.

Truss Condition Assessments

Multiple preliminary structural condition assessments of existing engineered steel and wood roof and floor truss systems.

Roofing Investigations

- Assessment of multiple asphalt shingle, built-up commercial, and standing seam metal roofs for residential and commercial structures.

Renovation Assessment

- Several field studies of residential and condominium renovation projects. Many structures over 125 years in age.

Computer Aided Design

Over 23 years of experience using AutoCAD in residential, commercial, and industrial design with an emphasis in architecture and structural engineering design.

Window assessment and Spray Testing

- Evaluation and testing of several residential and commercial windows on hospitals, condominiums, and residential projects.

Coating Specification and Applications

- Latex coating specification and application supervision for new custom residential homes along the Atlantic coast. Industrial coating/sand-blasting surface preparation specification and supervision in chemical facilities where corrosion and high temperatures were constant issues. Coating specification writing for industrial facilities, new construction, and renovation projects including acrylic latex paints, wood and concrete solvent based stains, urethanes, powder coat, and two-part component epoxy coatings. Specification and erection supervision of several hot-dipped galvanized structural steel projects.

Welding Applications and Assessments

- Supervision of welding fabrication of process piping, structural steel, and miscellaneous steel projects. Weld observations and assessments of structures for weld standard, consistency, and failures. Several years of experience with hands-on fabrication of miscellaneous steel.

Safety Assessment

- Safety auditor in a chemical facility with over 9 years of continuous assessment of worker and process area safety.
- Incident investigations, ergonomic studies, HAZMAT safety and procedures, personal protective equipment, lock-out / tag-out, confined space assessment, emergency evacuation procedures, fire safety, and recordable injury assessment.
- Currently preparing to sit for the Safety Fundamentals Exam for the Associate Safety Professional Certification (ASP).