



RICHARD KEITH DIXON, CIEC, CIAQM

Air Quality and Construction Consultant - Senior Designer

Richard Dixon has over 22 years of construction, architectural and structural design experience relating to custom residential construction, commercial, and industrial projects. He has worked on the design, and damage assessment of 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 9 years of experience in industrial safety prevention and analysis, and is a certified Asbestos Inspection Supervisor and has worked on several projects in the area.

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. since May 2006
- 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 Environmentalist Consultant
- Certified Indoor Air Quality Manager
- Licensed Asbestos Management Planner
- Licensed Asbestos Supervisor
- Licensed Asbestos Inspector
- Licensed Air Monitor
- Safety Auditor
- 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 / Remediation Supervision
- Mold Inspection / Remediation Supervision
- Property Assessment Investigations
- Building Code Investigations
- Residential / Commercial Architecture
- Coastal Velocity Zone Structures
- Modular Design
- Coastal Hot/Humid Climate Design
- Industrial Facilities Design
- Fire Damage Assessment / Re-design
- Roof Investigations
- Computer Aided Design
- Window Assessment and Testing
- Safety Assessments

Building Envelope and Moisture Investigations

- Roof, attic, and crawlspace investigation to assess material and structural damages caused by moisture 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 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, foundation, HVAC, plumbing, and interior condition assessments.

Building/Fire Code related Investigations

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

Residential Architecture

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

Commercial Architecture

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

Coastal Velocity Zone Structures

- Structural design support and assessment of multiple ocean front homes and support structures.

Modular Design

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

Coastal Hot/Humid Climate Designs

- Design and supervision of over 25 custom homes in tidal surge locations, Charleston SC
- Assessment and design support on several retaining wall and groins on ocean and lake fronts.
- Pre-design assessment and design support related to the structure of the Folly Beach Pier, Charleston, S.C.
- Patriots Point Marina Boat House, Charleston, S.C.

Industrial Facilities design and management

- Over 9 years of process plant design, piping and equipment design.
- 7 years of management and supervision of the preparation and application for industrial grade

coatings in high moisture, highly corrosive environments.

- Provided quality audits which included the assessment of equipment, piping, and infrastructure conditions, and proper hygienic procedures for material storage and handling.

Fire Damage Assessment

- Assessment of fire damage to custom residences, apartments, and condominiums through out the region including design support for repairs. Fire brigade trained.

Roof Investigations

- Assessment and construction of multiple residential, condominium, and commercial roofs.

Renovation Assessment

- Several field studies of residential and condominium renovation projects. Many 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 Testing

- Evaluation and testing of commercial windows on several new condominium, and office building projects.

Safety Assessment

- Safety auditor for a chemical facility with over 9 years of continuous assessment of individual and process 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 take the Safety Fundamentals Exam for the Associate Safety Professional Certification (ASP).