PERSONNEL QUALIFICATIONS

Bernhard Wonneberger | Principal

EDUCATION

- University of Illinois at Urbana-Champaign
  - Bachelor of Science, Architectural Studies, 1983
  - Master of Architecture, Structures, 1986

PRACTICE AREAS

- Architectural Testing
- Coatings and Sealants
- Design
- EIFS, Stucco, Plaster
- Litigation Consulting
- Roofing and Waterproofing
- Stone Cladding and Paving
- Windows/Curtain Walls/Skylights

REGISTRATIONS

- Architect in HI and IL
- National Council of Architectural Registration Boards Certificate

PROFESSIONAL AFFILIATIONS

- American Institute of Architects
- Association for Preservation Technology International
- ASTM International
- Construction Specifications Institute

CONTACT

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EXPERIENCE

Since joining WJE in 1986, Bernhard Wonneberger has broad-based experience in the investigation and repair of buildings and other structures in Hawaii and across the mainland United States. Most of his projects involve deterioration, distress, and failure of building envelope systems that include cladding, roofing, waterproofing, paving, and interior finish materials. Cladding systems have included concrete, stucco, simulated stucco, natural stone, masonry, windows, curtain walls, and skylights.

Mr. Wonneberger also has experience in the investigation and repair of historic architectural structures, construction litigation support related to design and construction. His experience also includes laboratory and field testing of stone, masonry, windows, and various other construction materials and systems based on standards developed by ASTM International and the American Architectural Manufacturers Association, as well as procedures developed for specific projects. Mr. Wonneberger has prepared contract documents, peer reviewed, and observed construction for numerous building envelope repair and renovation projects.

Mr. Wonneberger has authored and coauthored several articles in professional publications that have included durability of natural stone, building facade repairs, and waterproofing.

REPRESENTATIVE PROJECTS

Architectural Testing

- Testing of natural stone
- Acceptance laboratory and field testing of various construction materials

Coatings and Sealants

- Aloha Stadium - Honolulu, HI: Structural and coating repairs to structural weathering steel and roof
- The Banyan Tree Plaza - Honolulu, HI: Exterior wall coating design

Roofing and Waterproofing

- 1448 and 1450 Young Street - Honolulu, HI: Facade and roof investigation, repair design, and construction observation
- Kamauleule Building - Pearl City, HI: Roof repairs and construction observation
- Hawaii State Capitol - Honolulu: Fourth-level deck waterproofing and paving replacement design, roof replacement design, and construction observation
- Hilton Garden Inn Waikiki - Honolulu, HI: Reroof and waterproofing design peer review and construction observation
- Hilton Hawaiian Village - Honolulu, HI: Reroofing and waterproofing consulting services; construction observation
- Keola La'i - Honolulu, HI: Construction documents and observation for roofing and waterproofing at new high-rise condominium building
- John F. Kennedy Center for the Performing Arts - Washington, D.C.: Repair design of plaza paving; waterproofing and construction observation
- Lana'i at Manele Bay - Lanai City, HI: Waterproofing design peer review

Stone Cladding and Paving

- Ala Moana Center - Honolulu, HI: Engineering services for anchored and adhered stone veneer
- Aon Building - Chicago, IL: Investigation of marble facade on eighty-three-story building
- City Financial Tower - Honolulu, HI: Travertine stone inspection, repair design, and construction observation
- Federal Courthouse - Honolulu, HI: Peer review of entry pavilion stone
- Hawaii Prince Hotel - Honolulu, HI: Stone soffit repair design and construction observation
- Pacific Guardian Tower - Honolulu, HI: Stone facade repairs and construction observation

TECHNICAL COMMITTEES

- ASTM C18 - Dimension Stone
- ASTM C18.01 - Test Methods
- ASTM C18.06 - Attachment Components and Systems
- ASTM C18.07 - Environmental Properties, Behavior, and Cleaning