
Mark Hanna, H.S.T., C.B.S.T.

INSPECTION AND TESTING MANAGER

EDUCATION Certified Building Science Thermographer (CBST) 2011
Large Building Air Barrier Testing, Retrotec 2010
HydroMobile P Series User Training, 2010
Wilderness First Aid, ASHI, 2010
Health and Safety Technician, Evergreen Safety Council, 2006
ASHI First Aid/ CPR Instructor, 2003
Numerous construction trade and safety related seminars

EXPERTISE Building Envelope Consultations and Inspections (Forensic and Construction Phase)
Fenestration Performance Testing and Consulting
Air Barrier Blower Door Testing and Consulting
Engineered Sealant and Liquid Membrane Application
Mechanical and Adhesive Anchorage Application and Load Testing
Rope Access, Scaffolds, Rigging, Material Handling at Heights

PROFESSIONAL SUMMARY

Mr. Hanna entered the workforce in 1987, employed through the 1990's at various window and insulated glass manufacturing facilities in the Puget Sound region. Duties included supervision of production lines, custom tooling manufacturing, and field technician.

During the period from 1999 through 2004, Mr. Hanna joined Tatley-Grund, Inc; a Seattle based building envelope remedial repair firm. As their Safety Director, Mr. Hanna had direct oversight of over 100 employees engaged in many high rise projects where safe exterior access was difficult to obtain. As an example, Mr. Hanna was responsible for concept design, inspection, and testing the scaffold anchorages and wind uplift cables for one prominent condominium project 26 stories in height. During the course of his employment, Mr. Hanna became interested in inspections, building materials science, and envelope component testing.

Most recently, in January of 2008, Mr. Hanna joined BEE Consulting, LLC in the role of Inspection Manager. In addition to these duties, he consults as a Project Manager on a variety of condominium assessments and conversions, historical masonry retrofits, and window failure analysis. Mr. Hanna has also assisted BEE's Engineering department in forensic research for various safety related cases. Recent cases include Yeakey v. Lease Crutcher Lewis (2006 tower crane failure), and Shipstad v. Virginia Mason (X-ray equipment personal injury).

Fulfilling BEE's role as Testing Consultant in the field, he has performed:

- Ultrasonic Thickness Testing of metals
- Wall substrate load testing
- Sealant and membrane testing
- Window water resistance penetration testing
- Window air permeance evaluation
- Large scale Air Barrier testing in accordance with Washington's Revised energy Code using Retrotec Fantestic software
- Mechanical and Thermal evaluation of various construction materials
- Safety Anchor static and dynamic load testing
- Wireless moisture surveys, installation and administration
- Infrared Thermography studies of wall and roof assemblies