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Kenneth M. Lies

AIA
Senior Principal

About Ken

Ken Lies is a Licensed Architect and Senior Principal at Raths, Raths & Johnson, Inc. where he oversees and consults on projects involving architectural design, material and system applications, building diagnostics, and forensics. His career at RRJ spans over 40 years during which time he has been involved in a broad range of projects from investigation, analysis, and rehabilitation of numerous buildings to the performance evaluation and failure of materials and building systems.

He has leading expertise in architectural technology and design, condition survey documentation, water leakage and moisture diagnostics, condensation potential analysis, materials and systems evaluations/ testing, and contract document preparation. He consults on peer review, building codes and standards analysis, and design professional standard of care issues. An expert witness, he has provided technical consultation, litigation support, and deposition and trial testimony on numerous matters to clients located throughout the U.S.

Mr. Lies has comprehensive knowledge and experience with building enclosures, cladding materials, and wall systems. Types of materials and systems include windows, curtain walls, waterproofing and air barrier membranes, wall sidings, exterior insulation and finish systems (EIFS), masonry, roofing, flashing, and coatings.

He is a frequent speaker at ASTM International symposiums and industry conferences and an author of technical papers and articles relevant to his areas of expertise.

Education

Master of Architecture: Architectural Design
University of Illinois at Urbana-Champaign

Bachelor of Science in Architectural Studies
University of Illinois at Urbana-Champaign

Licensure | Certifications

Architect IL, AZ, CO, DE, FL, GA, KS, KY, MD, MA, MI, MN,
MS, MO, NE, NH, NJ, NC, ND, OH, OK, PA, SC, TX, VA, WV,
WI

National Council of Architectural Registration Boards (NCARB)
Certificate Holder

Professional Affiliations

American Institute of Architects (AIA)

Association of Licensed Architects (ALA)

ASTM International

Subcommittee E06.55 Exterior Building Wall Systems

Subcommittee E06.58 EIFS

Committee C11 on Gypsum and Related Building Materials
and Systems

The Construction Specifications Institute (CSI)

National Institute of Building Sciences (NIBS)

Building Enclosure Council – Chicago (BEC)

Building Enclosure Technology and Environment
Council (BETEC)



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"How Vapor Resistance Properties of Coatings Affect Exterior Wall Moisture Performance," *PACE 2006 Conference*, G.D. Hall, K.M. Lies, and S.K. Flock, January 29-February 1, 2006

"Weather Resistant Barrier Performance and Selection for Exterior Walls," *Membranes in Wall Systems*, BETEC Spring Symposium, K.M. Lies and G.D. Hall, June 10, 2004

"Ambiguities, Changes and Contradictions in Building Wall Literature," in *Performance of Exterior Building Walls*, ASTM STP 1422, *ASTM International*, R.J. Kudder, K.M. Lies, and B.A. Faith, 2002

"Window Detailing Considerations for Leakage Prevention," in *Water Leakage Through Building Facades*, ASTM STP 314, *ASTM International*, K.M. Lies and B.A. Faith, 1997

"Comparison of Class PB EIFS Lamina Water Transmission Test Methods," In *STP1269-EB Exterior Insulation Finish Systems (EIFS): Materials, Properties, and Performance*, R.J. Kudder and K.M. Lies, 1995

"Durability and Serviceability of Polymer Based Exterior Insulation and Finish Systems," *ASTM Symposium on Development, Use, and Performance of Exterior Insulation and Finish Systems (EIFS)*, ASTM STP 1187, R.J. Kudder and K.M. Lies, 1995

"Including ASTM E514 Tests in Field Evaluations of Brick Masonry," in *Masonry: Design and Construction, Problems and Repair*, ASTM STP 1180, K.R. Hoigard, R.J. Kudder and K.M. Lies, 1993

"Diagnosing Window and Curtain Wall Leaks," *ASTM Symposium on Water in Exterior Building Walls: Problems and Solutions*, ASTM STP 1107, R.J. Kudder and K.M. Lies, 1991

"Construction Details Affecting Wall Condensation," *Proceedings, BTECC Symposium on Air Infiltration, Ventilation and Moisture Transfer*, Fort Worth, TX, R.J. Kudder, K.M. Lies, and K.R. Hoigard, December 1986

Presentations

"A Perspective on Building Enclosure Consulting and Peer Review," American Bar Association, Division 12-Owners & Project Finance, November 9, 20216, Webinar

"Thermal Bridging and Moisture Control in Building Enclosures," Association of Licensed Architects (ALA), Educational Program, Glenview, IL, K.M. Lies, S.K. Flock, and R.J. Kudder, March 31, 2015

"Learning the Construction Process From the Experts", American Bar Association Forum on Construction Law, Sticks & Bricks Regional Meeting, Faculty Expert, Baltimore, MD, February 27, 2015

"Building Enclosure - Case Studies from Top to Bottom," CSI Chicago and Northern Illinois and Association of Licensed Architects, Chicago, IL, February 2011

"Case Study - Coastal Building Restoration," Building Enclosure Council, Chicago, IL, November 2010

"Considerations for Window Integration," AAMA Southeast Region Spring Meeting, Hilton Head, SC, March 25-26, 2008

"EIFS and Water Intrusion," *Emerging Construction Defects: Mold, EIFS, Concrete, Plumbing, ADR*, sponsored by Mealey Publications, November 30, 2000