PAUL KERNAN, MAIBC, LEED™ AP, BEP

Senior Building Science Specialist

Expertise & Role

Mr. Kernan is a registered architect with a wide range of working experience in North America and Europe. He combines his academic training with more than 25 years of practical experience to offer an all round knowledge of building design and construction. For the last 12 years, Paul has specialized in the area of building enclosure design and construction.

Paul is currently working on a variety of building enclosure projects including design and field review of rehabilitation construction, and investigation of envelope failures. He has developed particular expertise in communicating with owners and explaining complex technical issues in an understandable manner using a variety of graphical techniques.

Prior to joining RDH in 1998, Paul was the Building Envelope Specialist at the City of Vancouver, responsible for developing and implementing many of the City's technical initiatives dealing with building enclosures. While at the City, Paul assisted in the development of a building envelope education program for architects and designers, and administered the City's envelope specialist certification program. He has worked for several major architectural firms in Vancouver and has also run his own architectural practice.

Paul worked for three years at the University of British Columbia on the environmental impacts of building design and construction with a particular emphasis on energy and resource efficient design.

Paul is a shareholder and Principal of RDH and as such participates in the overall direction and management of the firm.

Education

Master of Advanced Studies in Architecture, University of British Columbia

Diploma in Architecture, Dublin Institute of Technology

B. Arch. Sci, Trinity College Dublin

Part time courses in: Construction Management, Specification Writing, Construction Law, Building Code, and Energy Utilization

Building Envelope Professional (BEP), AIBC/APEGBC program

Memberships & Awards

Member, Architectural Institute of British Columbia (AIBC)

Registered Architect - State of Washington

LEED™ Accredited Professional

Past Director BC Building Envelope Council

Past Chair AIBC Energy & Environment Committee

CSA Technical Committee on Designing for durability (A272TC)

Professional Service Management Association - Board Member

AIBC Innovation Award, 2000 & 2002

Tain Architectural Competition 1988, Entry selected for exhibition

Mont Kavanagh Investment Architecture Competition 1987, Award Winner

Typical Projects

Condition Assessments

Paul has provided building enclosure condition assessment of more than 100 buildings including high and low-rise apartments, townhouses, single-family residences, and institutional buildings.

He managed the risk assessment of over 200 schools throughout the province for BC Housing and carried out detailed condition assessments on more than 100 schools in Surrey, West Vancouver, Coquitlam and Mission.

Rehabilitation Design

Paul has provided design development for more than 50 residential and institutional building enclosure rehabilitation projects. Projects range in size from small localized repairs to comprehensive rehabilitation projects involving redesign of the exterior and addition of new elements to update the appearance of the building.

Construction Documentation

Paul has provided direction and coordination of construction documentation packages for building enclosure rehabilitation of high and low-rise residential and institutional buildings. Some example projects include:

- Kinsman Park Place, Aldergrove, BC - 50-unit townhouse complex

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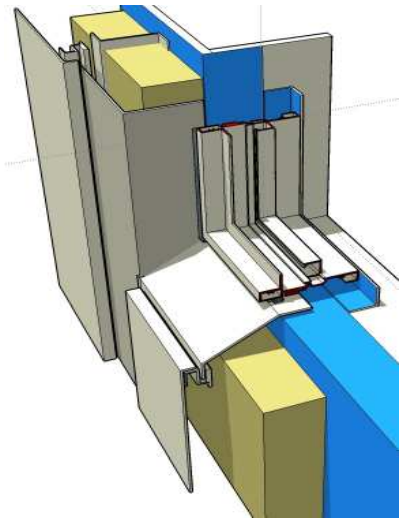
- Ridge Park Gardens, North Vancouver, BC – residential low-Rise
- Windermere, North Vancouver, BC – 44-unit townhouse complex
- The Bellevue, Vancouver, BC - residential high-rise
- The Ambassador, Burnaby, BC - residential high-rise
- The Solano, North Vancouver, BC - residential mid-rise
- 12th & Alder, Vancouver, BC - 6-unit townhouse complex
- Hamilton Hall, Burnaby, BC (SFU) - student residence

The Ambassador, Burnaby, BC

New Construction

As the enclosure consultant on new developments, Paul has led design and construction reviews including verification testing of the building enclosure on a range of commercial and institutional buildings. Typical projects include:

- Broadway Tech Centre, Vancouver, BC
- Crestmark Corporate Centre, Richmond, BC
- Royal Bank, New Westminster, BC
- ICORD Centre, Vancouver General Hospital, BC



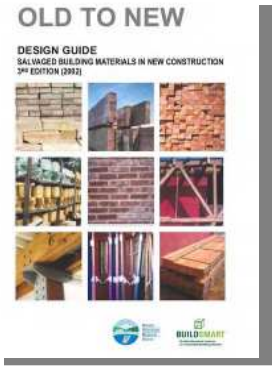
Litigation Support

Paul has provided litigation support and expert reports for building enclosure rehabilitation projects.

Green Design

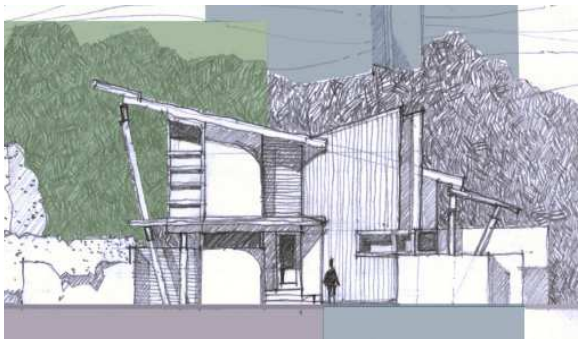
Paul has considerable expertise in the field of green design. After studying with Dr. Ray Cole at UBC's Environmental Research Group in the 1990s and receiving a masters degree with a specialization in embodied energy, Paul went on to chair the Architectural Institute's Energy and Environment Committee and was a director of the EcoDesign Resource Centre. While working with the Environmental Research group at UBC, he worked on a number of projects relating to embodied energy, including the Athena environmental assessment program.

Over the last several years, Paul has written a number of key documents relating to the selection of green building materials, the use of salvaged materials in construction and durability issues.



Publications and Presentations

Technical guides, publications and presentations on a range of building enclosure and sustainable design topics:

- Building Envelope Rehabilitation – Consultant and Owner Guides, CMHC
- Design Guide–Salvaged Materials (Winner AIBC Innovation Award 2000)*
- Best Practice Guide Material Choices for Sustainable Design (Winner AIBC Innovation Award 2002)*
- Windows Best Practice Guide Building Technology
- LEED Implementation Guide, Municipal Buildings*
- Durability Study – The Effects of Green Building Rating Systems on the Durability of Buildings

*Paul Kernan Architect