



CURRICULUM VITAE

GILBERT RIOPEL, B.Sc.

Gilbert Riopel joined the group in 1987. From his early years, he focused on thermal behavior of the building envelope. A certified CSA Simulator, he has been the Director for thermal assessments work from 1999 to 2016. In addition to this function, Gilbert was also named Vice-President of the laboratory. In 2000, he participated in the certification of the laboratory for validation testing for NFRC (National Fenestration Rating Council), a first for a laboratory outside the US. He also earned NFRC certification for thermal simulations.

As a result of his interest with teaching his younger colleagues, he provides training on heat transfer principles, applied to the building envelope, and modeling principles, recognized in the North American certification programs. He is an active member of the editorial boards of CSA, ASTM and AAMA and also participates in a work group on the building envelope for the National Code of Canada. He also contributes to many research projects, including ASHRAE (American Society of Heating, Refrigerating & Air-Conditioning Engineers) and LBNL (Lawrence Berkeley National Laboratory).

Since 2014, Gilbert has served as Manager of the laboratory's research and development services. He leads a team which develops, among other things, the equipment used to perform the standardized tests and trials carried out in the context of research. He also oversees the development of the BES software series (Building Envelope Software), a software applied in structural and thermal calculations for the building envelope.

EDUCATION

Bachelor's Degree in Science (1995)

École Polytechnique de Montréal (UdeM), Montreal, Quebec

Certificate in Building Mechanical Systems (1995)

École Polytechnique de Montréal (UdeM), Montreal, Quebec

Certificate in Construction Management (1994)

École de technologie supérieure (UQAM), Montreal, Quebec

Certificate in Construction Science (1991)

École Polytechnique de Montréal (UdeM), Montreal, Quebec



EXPERIENCE

- 2014 - PRESENT CLEB BUILDING SCIENCE
- Vice-President, Laboratory / Director, Thermal Evaluations
- In addition to the tasks of his position of Director of thermal evaluations and his vice-presidency of the laboratory, Gilbert acts manages the research and development within the group.
- 1999 - 2014 AIR-INS INC.
- After demonstrating his skills at various positions within Air-Ins Inc., Gilbert was offered the position of Manager of testing and thermal evaluations. The activities for which he was in charge were:
- Thermal evaluation trials - NFRC;
 - Thermal computer simulations;
 - Consulting for thermal problems;
 - Design of testing equipment.
- 1994-1999 AIR-INS INC.
- As Technician with Air-Ins Inc., he filled the following functions:
- Project management;
 - Assessments;
 - On-site testing;
 - Design review;
 - Quality assurance;
 - Quality control;
 - Computer simulation in conformity with CAN/CSA A440.2.
- 1993 AIR-INS INC.
- Before becoming a Technician, Gilbert was responsible for quality control. He performed the following tasks:
- Technical assistance;
 - Quality assurance;
 - Project coordination.
- 1990 - 1993 PATENAUDE-TROW INC.
- Between 1990 and 1993, Gilbert momentarily left Air-Ins Inc. to join the team of his «sister-company» Patenaude-Trow inc. He was a Technician and performed the following tasks:
- Field testing;
 - On-site supervision;
 - Design review;
 - Report preparation;
 - Quality assurance;
 - Quality control.



1987 - 1990

AIR-INS INC.

Gilbert's first job at Air-Ins Inc. was as a Technician. At the time, he was in charge of the following tasks:

- Laboratory testing;
- Report preparation.

ADDITIONNAL TECHNICAL EDUCATION

2008	Training on NFRC Simulator certification
1991	Design of doors and windows for resistance to forced entry
1990	Selection of performance levels for Canadian windows
1989	Technical guidelines for the mechanical design of doors and windows
1988	Window Design Principles

SPECIFIC IMPLICATIONS

Vice-President of the CSA A440.2 committee

Active member of ASTM International committees

Member of the «Association de vitrerie et de fenestration du Québec» (AVFQ)

Active member of the American Architectural Manufacturers Association (AAMA)

Member of the working group on the building envelope for the National Code of Canada

Active member of the National Fenestration Rating Council (NFRC)

Active member of American Society for Heating Refrigerating and Air-Conditioning Engineers (ASHRAE)

PRESENTATIONS

2015	«Fenêtres sous la loupe : Nouveautés des standards chez Energy Star» (Free translation : «Windows under the Microscope: Energy Star Update») – Écohabitation, Montréal
2011	«Résistance thermique effective et impact de la fenestration sur l'efficacité énergétique» (Free translation: «Effective Thermal Resistance and Impact of Windows on Energy Efficiency») – Quebec Building Envelope Council (QBEC), 2011, Montreal
2011	Presentation on Thermal Evaluation of Fenestration Products in North America – Quebec Building Envelope Council (QBEC), 2011, Montreal

2016



- 2006 «Processus de Certification Energy Star» (Free translation: «Energy Star Certification Process»)
– Metra Aluminium, Brescia, Italy
- 2006 Energy Star Variables importantes lors de la conception (Free translation: «Energy Star - Important Variables For Design»)
– Quebec Building Envelope Council (QBEC), Montreal

PUBLICATIONS

Retrofit and remedial work on existing sliding doors and windows, For CMHC, project no. 6585-Z10, Theodore Markis, Jozef Zorko, Gilbert Riopel and Domenic Chiovitti, 1998

Cost Implication Analysis of National Energy Code of Canada for Buildings 2011 Adoption, for National Research Council Canada, Dave Deshaies Mc Mahon, Ingrid Volbert, Gilbert Riopel, 2015