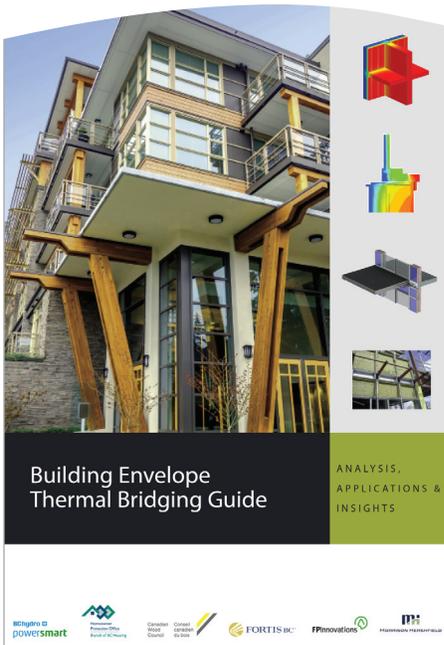




2015 AWARDS FOR ENGINEERING EXCELLENCE

Award of Excellence

Building Envelope Thermal Bridging Guide



Consultant

Morrison Hershfield Limited

Owner/Client

BC Hydro Power Smart

Project Co-Sponsors

BC Hydro Power Smart; Canadian Wood Council;
FortisBC; FPIInnovations; Homeowner Protection
Office (HPO), a branch of BC Housing

Category

Soft Engineering

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"Ever heard some old-timer describe what life was like before AutoCad? That might be exactly what today's engineers sound like in a year or two, telling the youngsters how difficult it used to be to calculate energy performance in the days before the Building Envelope Thermal Bridging Guide."

- Robin J. Miller, Innovation Magazine

The Guide, developed by Morrison Hershfield in collaboration with sponsors BC Hydro Power Smart, Homeowner Protection Office (HPO) – a Branch of BC Housing, Canadian Wood Council, FortisBC and FPIInnovations, aims to overcome obstacles confronting industry with respect to mitigating thermal bridging to reduce energy consumption in buildings.

The guide fills a previous information gap, providing essential information for evaluating building envelope thermal performance, including easy-to-use methods for understanding, accurately calculating and mitigating thermal bridging.

The guide is of great interest to practitioners, researchers and regulators. It outlines how to effectively account for thermal bridging and provides an extensive catalog of common building envelope assemblies and interface details and their associated thermal performance. It contains a cost-benefit analysis and discussion on significance and further insights. Technically sophisticated and complex information is presented in a practical, user-friendly manner.

With its local and international significance, this groundbreaking reference tool has already begun to influence building design, construction, policy and the development of energy codes and standards in BC and beyond. When implemented, the guide will affect positive change in building envelope design and performance, resulting in more energy efficient buildings and a more sustainable future for generations to come.