PRESENTED BY THE NATIONAL RESEARCH COUNCIL OF CANADA, BROUGHT TO YOU BY OWENS CORNING CANADA:

- New Sound Insulation Requirements in the 2015 National Building Code of Canada
- Overview of Changes to Fire Safety Requirements in 2015 National Building Code of Canada
- Owens Corning & Lafarge Acoustic Flooring System
- Introduction to Thermafiber®

With higher densification in urban centers, issues of sound insulation are becoming increasingly important in North America. Historically, requirements for sound insulation have focused on the transmission directly through the separating building element. However, in practice a significant proportion of the sound between two adjacent rooms travels via flanking paths, for example a common floor or ceiling. In recognition of this fact, the 2015 edition of the National Building Code of Canada sees a change from requirements for building element performance (STC rating) to requirements for system performance (Apparent STC rating). This change presents a paradigm shift in dealing with sound insulation in buildings, and will affect how builders and architects construct homes. This presentation will review the new sound insulation requirements, review solutions of compliance, and highlight the implications for the industry.

The aim of this presentation is to review the key changes to fire safety requirements in Part 3 and Part 9 of the fourteenth edition of National Building Code of Canada. Mid-rise building market has an annual $3 Billion share of the Canadian construction market. Using combustible material such as wood could offer savings of up-to15%. In line with these facts, one of the key areas of change in new building code is the changes to midrise wood construction. 6-storey combustible construction is allowed in the new version of national building code. These changes are backed by a considerable amount of research conducted by various research institutions in Canada, including the National Research Council of Canada. An overview of key changes and research findings will be discussed. Changes to component additive method (CAM), self-service storage buildings, protection of foamed plastics, smoke tightness, wall assembly EW2, and changes to spatial separation of houses will also be addressed.

Owens Corning Canada and Lafarge have worked together on an acoustical flooring system that meets the performance objectives defined within 2015 National Building Code of Canada. The new language refers to ASTC ratings as opposed to STC ratings. ASTC ratings will be comprised of airborne sound and flanking from airborne sound. Our joint flooring system debonds the finished floor from the structure reducing noise transfer through wall and floor assemblies. This system improves occupant comfort and well-being from a sound perspective. The system features QuietZone® Acoustic Floor Mat that decouples the finished floor from structure and Agilia Screed A, creating a flat and level subfloor for finished floor materials. It's the only system on the market that has been 3rd party certified for sound by the National Research Council of Canada. This removes the responsibility from the architect or builder to design the system. The system is installed by a Lafarge certified applicator, eliminating the need to worry about training applicators or receiving push back regarding installation of the system.

In 2013 Owens Corning Insulating Systems, LLC purchased Thermafiber, Inc., a company that manufactures mineral wool insulation. This acquisition helps to expand the Owens Corning portfolio and allows for system solutions delivered to the market that are tailored to the building type. In this presentation product offerings for Canada will be introduced and expected time line for product availability in Canada.

Working together to educate and provide transparency in the building industry.

HOW TO REGISTER

Space is limited and will be first come, first serve basis.
Please confirm your registration for this workshop to Tyler Simpson (tyler.simpson@owenscorning.com) no later than June 8th, 2016.

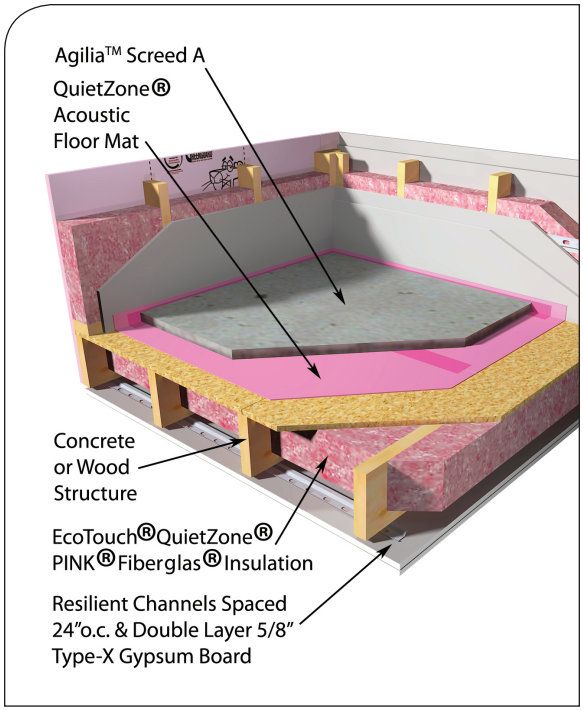
AGENDA

7:30 am	Registration & Light Breakfast
8:30 am	Introduction & Safety
8:45 am	New Sound Insulation Requirements in 2015 National Building Code of Canada
10:15 am	BREAK
10:45 am	Overview of Changes to Fire Safety Requirements in 2015 National Building Code of Canada
11:45 am	Owens Corning & Lafarge Acoustic Flooring System
12:00 pm	Introduction to Thermafiber
12:15 pm	Closing Remarks & End

WORKSHOP PRESENTERS

Dr. Christoph Hoeller is a Research Officer in the Acoustics Group at the National Research Council Canada. He is responsible for a range of different projects pertaining to sound transmission in buildings and human perception of sound, and currently leads a large-scale research project on the direct and flanking sound transmission in cold-formed steel-framed constructions. Dr. Hoeller obtained an MSc from RWTH Aachen University in Germany and a Ph.D. from the University of Liverpool in the UK. He is a member of the Acoustical Society of America, the European Acoustics Association, and the International Institute of Acoustics and Vibration.

Dr. Masoud Adelzadeh is a Research Officer in the Fire Safety group at National Research Council of Canada. His main area of expertise is structural fire safety. He has done extensive research on fire performance of structural members, especially structures that incorporates Fibre Reinforced Polymers (FRP). Dr. Adelzadeh obtained a M.Sc. from Sharif University in structural engineering and his Ph.D. in civil engineering from Queen's University. He is responsible for conducting full-scale fire tests on a range of different structural and non-structural elements at fire safety lab at NRC. Prior to NRC he has worked as structural designer in various residential and industrial projects.



LOCATION

George Brown College: Waterfront Campus (Daphne Cockwell Centre for Health Sciences) 51 Dockside Drive, Toronto, Ontario M5A 0B6

Parking lots: http://en.parkopedia.ca/parking/51_dockside_drive_toronto/

Meeting Room: Auditorium Room 237

Please sign-in with Owens Corning representative.

DATE

June 17th, 2016

At the event each participate will be given a certificate that totals 3 hours in educational credits.