NRC·CNRC
Institute for Research in Construction

Bringing quality to the built environment

Suitable Acoustic and Fire Stop Technologies

Objective

To develop a best practice guide to provide appropriate sound and fire control with fire stops and fire blocks, and to validate the guide through a systematic review process.

Background

Fire resistance and sound transmission ratings are available for a broad range of generic constructions. However in addition to suitable wall and floor assemblies, designers and builders need approved uniform approaches to ensure satisfactory performance in complete buildings, which includes the protection of openings between assemblies and for penetrating items. Much of the knowledge needed to resolve these concerns is already available, but it is scattered among several sources.

Statement of Work

A Special Interest Group has been formed and is being managed jointly by NRC and Ken Richardson Fire technologies Inc.. The Group will develop a guideline document based on a synthesis of available information.

Expected Outcomes

A best-practice guide on fire stop technologies will be published.

Partners

3M Canada, A/D Fire Protection Systems, Affinity Architecture Inc., Bibby-Ste-Croix Inc., Canada Mortgage and Housing Corporation, Canadian Copper & Brass Development Association, Canadian Wood Council, The City of Calgary, Gypsum Association, Hilti Inc., IPEX Inc, IFC – International Firestop Council, Ken Richardson Fire Technologies Inc., NAIMA – North American Insulation Manufacturers Association, NRCC, NUCO Inc., Royal Quickstop, Tremco Inc.

Start/Expected Completion Dates

This project began in March 2004 and will be completed in March 2007.

Project Managers

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For more information, see http://irc.nrc-cnrc.gc.ca/ie/acoustics/sigsaft/index_e.html

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