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RCI foundation is supporter of new wind-RCI tool to determine wind design loads for roof claddings

NRCC-50587

Baskaran, B.A.; Molleti, S.

A version of this document is published in / Une version de ce document se trouve dans:
RCI Interface, v. 26, August 2008, p. 26

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RCI Foundation Supports Development of A New Internet Tool To Determine Wind Design Loads For Roof Claddings



The future looks brighter for wind load calculations for roof cladding, thanks to **Wind-RCI**.

What is the weakest link on a roof? The answer depends on the design wind load, the roof resistance and the relation between the two.

Part 4 of the National Building Code of Canada (NBCC 2005) specifies wind load requirements for roof claddings. The calculation of wind design loads for a particular roof cladding involves several procedural steps, as the design load is a function of various parameters. In some cases it can be challenging to understand and interpret code requirements correctly, leading to errors and consuming considerable time.

Wind-RCI is an Internet tool based on the NBCC 2005. For any roof, it can perform wind load calculations for all Canadian cities coast to coast. With its graphical icons, elaborate descriptions and visual indicators, **Wind-RCI** makes wind load calculations interesting and easy.

Wind-RCI will change the design culture in the roofing community – no more cut and paste from one specification to another – anyone can do the wind load calculations and specify the wind load requirement regardless of the roof type. This innovative tool will be especially useful for roofing manufacturers, architects and designers.

Next time you are inspecting a roof and asking yourself: What is the design load? Is it adequate? Will the roof hold in a storm?, the procedure is simple: take out your hand-held device with Internet access, and connect to www.sigders.ca. Determine the wind design loads instantly and convert them into resistance according to the wind design guide (http://irc.nrc-cnrc.gc.ca/pubs/catalogue/nrcc47652_e.html).

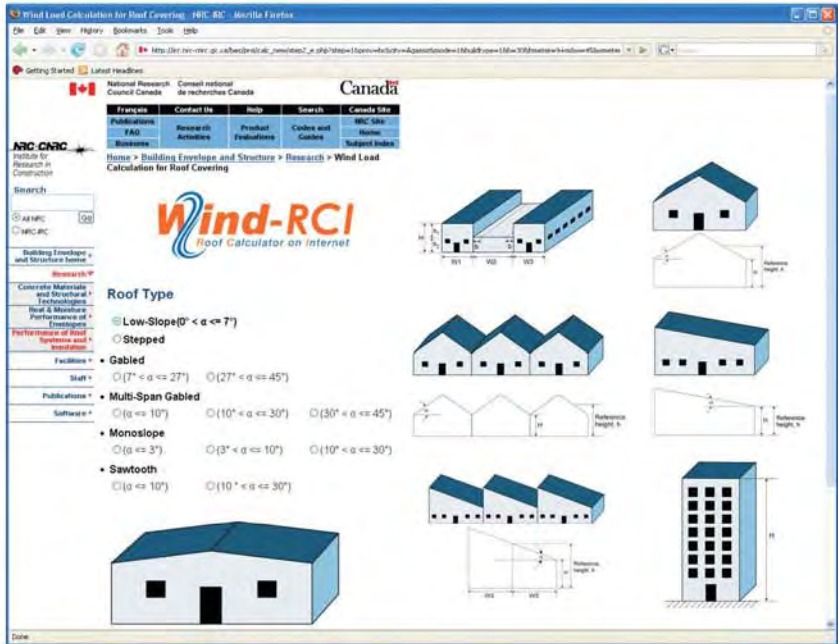
Wind-RCI is a key part of the solution for effective roofing systems design, offering speed, accuracy, convenience and bilingual capability.

The National Research Council Institute for Research in Construction (NRC-IRC) developed and maintains **Wind-RCI** in collaboration with the Roofing Consultants Institute Foundation (RCIF), the Roofing Contractors Association of British Columbia (RCABC), the Special Interest Group for Dynamic Evaluation of Roofing Systems (SIGDERS) and the Natural Sciences and Engineering Research Council (NSERC). For more information contact: Dr. A. Baskaran, P.Eng., 613-990-3616; bas.baskaran@nrc-cnrc.gc.ca

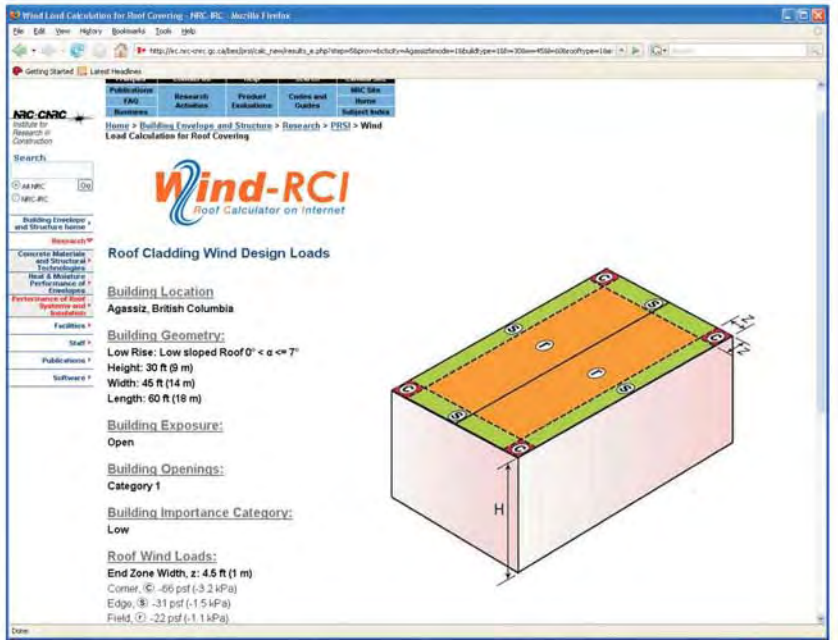
SELECTED SCREEN SHOTS



BUILDING DETAILS



ROOF SELECTION



ROOF CLADDING WIND LOADS