

Superinsulation Resources: Organizations, Websites, & Publications

Affordable Comfort Inc. <http://www.affordablecomfort.org>

“ACI Initiatives” Tab. <http://www.affordablecomfort.org/initiatives.php?PageID=16>

For Deep Energy Reductions Resources and the Thousand Home Challenge

“Events” Tab. Select “Past Events” for handouts of dozens of conference sessions addressing superinsulation (there may also be info in sessions addressing deep energy reductions)

http://www.affordablecomfort.org/events_past.php?PageID=13

“Access to Resources” Tab. Marc Rosenbaum AC 08 Keynote video

http://www.affordablecomfort.org/resources_videos.php?PageID=80

Alaska.edu. Video - Outside Insulation Technique

<http://uasmedia.uas.alaska.edu/ramgen/uasonline/misc/OIT.rm> A short video demonstrating the how and why to install insulation outside of a structure – Applies to new or existing buildings. This links to a RealPlayer viewer. Works best with fast DSL or cable modem. Click on RealPlayer "remind me later" and "next"... to avoid registration hassle.

Building Science Corporation (BSC)

<http://www.buildingscience.com/index.html>

PDFs of highest interest include:

BSD-139: Deep Energy Retrofit of a Sears Roebuck House—A Home for the Next 100 Years (April 2009 ASHRAE)

BSP-064: Remodeling for Energy Efficiency (April 2008 Fine Home Building Reprint)

RR-0509c: Renovating Existing Basements (2005)

Recent presentations: <http://www.buildingscienceseminars.com/presentations/index.html>

NESEA – What would John Straube Do? Case Study of John Straube’s deep energy retrofit
Many presentations by Betsy Pettit addressing BSC DER case studies and details

Books for sale: www.buildingsciences.com

Building Science for Building Enclosures (Building Science Press) by John Straube and Eric Burnett. A tour de force of engineering and physics relevant to the building envelope. ISBN: 0-9755127-4-9.

Canada Mortgage Housing Corporation (CMHC)

Approaching Net Zero Energy in Existing Homes

CMHC report detailing benefits, barriers, and progression to net zero energy. Appendix A features decision trees integrating historical, physical, and durability challenges with deep energy retrofits.

[ftp://ftp.cmhc-schl.gc.ca/chic-ccd/Research_Reports-Rapports_de_recherche/eng_unilingual/S60376\(W\).pdf](ftp://ftp.cmhc-schl.gc.ca/chic-ccd/Research_Reports-Rapports_de_recherche/eng_unilingual/S60376(W).pdf)

Cold Climate Housing Research Center

(<http://www.cchrc.org>) Located in Fairbanks, AK, this website has near real-time data from REMOTE wall systems (outsulation) and several different roof insulation strategies. Research, product testing, outreach programs, etc. are detailed.

AC09 Kansas City: April 27, 2009

MFD 01 Handout: Superinsulation Resources

Devil in the Details: Superinsulating Existing Home Walls

Compiled by Linda Wigington - lwigington@affordablecomfort.org

EnergySmiths.com

<http://www.energysmiths.com/index.php>

Marc Rosenbaum's 2008 ACI and 2009 NESEA keynotes (powerpoint, not video). Under Resources and Client Case Studies there is a fair bit on superinsulated construction.

National Affordable Housing Network (www.nahn.com) Features optimization of systems – mostly focused on low energy affordable housing; optimization applies to existing homes. They have been superinsulating for 15 years.

Passive House Institute

Passive House Retrofit Kit (www.energieinstitut.at/retrofit) (select English)

Passive House USA (www.passivehouse.us)

Passiv Haus Institut (www.passivhaus.de) (select English)

SUPERINSULATION PROJECT WEBSITES w BLOGS:

Akers, Keith. 2007. **House Superinsulation Project**

<http://www.compassionatespirit.com/Superinsulated-Retrofit-Overview.htm>

This blog captures the process and results from this Colorado retrofit.

Cheimets, Alex. Manager. 2008. **Massachusetts Super Insulation Project**

<http://www.blogger.com/profile/06274605316339158781>

This project is captured in a series of illustrated blogs providing unique detail and perspective.

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THREE CLASSICS:

A Major Conservation Retrofit of a Bungalow

Harold Orr and Rob Dumont. 1987. National Research Council Canada. Ottawa, Ontario.

A 36 page report recording the upgrade and performance of this 1968 Saskatoon residence case study. <http://irc.nrc-cnrc.gc.ca/pubs/ir/ir540>

Major Energy Retrofits for Northern Climates

<http://www.affordablecomfort.org/initiatives.php?PageID=16>

Look under Deep Energy Resources/ Other Resources. Great detail from 1984 on many options for superinsulation as well as context. Classic and useful if integrated with current products and approaches. (NCAT 1084)

The Super-Insulated Retrofit Book: A Homeowner's Guide to Energy-Efficient Renovation

Brian Marshall and Bob Argue. 1981. Renewable Energy in Canada, 1981