

Media Release

Icicles on Your Roof - A Hazard for Your Home, Your Roof and Your Energy Bills

(Toronto, Ontario – February 3, 2009) – Green Saver is alerting homeowners that now is the time to inspect their roofs and eaves for icicles, as this is the most common indicator of a heat loss problem.

Snow on a roof is generally a good sign because it means heat is not escaping from the attic and melting the snow above. But if there are icicles on your roof or the side of your house, this can often mean just the opposite.

Most icicles on a house will form due to heat escaping through attics, which is generally caused by insufficient insulation. This escaping heat will warm the roof sheathing and cause the snow on the shingles to melt. The melted snow then runs down the roof until it meets the roof overhang, where the temperature is much colder. It then refreezes into large masses of ice creating icicles.

This ice also creates a barrier for additional snow that melts throughout the winter, producing a pool of water literally backed up by this "ice dam". The pooling of water can lead to numerous problems including:

- a) Damage to shingles—water can accumulate under the edges
- b) Warping and detaching of eaves troughs
- c) Rotting wood in the roof
- d) Water damage to drywall, plaster and furniture from ice melting into the house
- e) Icicles falling on people
- f) Ice build-up on sidewalks or stairs

These problems can be expensive to repair, but there are a number of actions people can take to solve these problems. Some companies recommend increasing attic ventilation, but GreenSaver sees this as treating the symptom, not the disease.

GreenSaver recommends that stopping air leaks from the warm moist interior of the house through to the cooler attic should be the first priority. A heated house is like a chimney - a container of warm air surrounded by cold air that tends to draw air in at the bottom and release it at the top. In winter this is intensified as heat pushes through the top ceiling into the attic. Making matters worse, warm air carries with it humidity, that condenses in the attic and may cause other damage.

GreenSaver has several recommendations to reduce a home's heat loss to avoid ice damming:

- Seal the Attic access hatch an attic hatch or door needs to be both insulated and weather stripped.
- Potlights choose sealed pot lights or avoid installing them on the top floor. If you have already installed unsealed potlights, you may want to consider having a professional install an industry approved pre-made plastic cover to insulate the existing pot lights. This will allow you to seal the light box and reduce warm air from escaping.
- Bathroom Fans these need to be ducted outside. Make sure that they are properly vented.
- HVAC Registers if the house has air vents in the ceilings, remove the vent covers and caulk the joint between the ducting and the ceiling.
- Attic Knee-Walls
 – houses with half-storeys have triangular attics at the edges of the
 uppermost floor and are therefore prone to warm air infiltration at the floor joist area.
- Duct Work Sealed and Insulated ductwork can be poorly sealed at joints, and can leak air. In winter, ductwork that travels through an attic will leak warm moist air directly into the attic
- Plumbing Stacks and Chimneys these are major sources of air leakage. It is best to seal these where they pass through the attic floor. For metal chimneys inside a chase or for old masonry chimneys, you may need help from an expert to ensure proper sealing and to avoid fire hazards.

Sealing air paths that are only accessible from the attic can be a challenge. Limited access and the risk of going through the ceiling may be reason enough to hire a professional. The cost of these solutions will vary depending on the size and shape of the house, as well as the number of air leaks. The costs to make these improvements generally range from \$500 to \$2,500. This is a small investment compared to the cost of the potential water damage.

There are several ways to check for air leaks. A blower door tester can pressurize the house using a large fan and amplify the leakage. This test is part of the federal government's ecoENERGY assessment which costs between \$300 and \$375. The province of Ontario offers a 50% rebate on the assessment cost up to a maximum of \$150. Not only is the ecoENERGY assessment affordable, it qualifies the homeowner for up to \$10,000 in federal and provincial rebates, with specific amounts for air sealing and insulation.

GreenSaver reminds homeowners to seek out the most cost-efficient long term solution for any of their home's energy problems.

For more information on GreenSaver, or to schedule an ecoENERGY assessment, visit www.greensaver.org or call 416-203-3106.

To schedule interviews with a GreenSaver representative, please contact Allison Wallis at (416) 203-3106 ext. 234.

GreenSaver is an independent non-profit corporation dedicated to environmental energy efficiency. They have pioneered Ontario residential energy conservation for 25 years with economically viable and environmentally friendly measures to help individuals and organizations with their energy need (www.greensaver.org).