energy facts

Minnesota Department of Commerce Division of Energy Resources mn.gov/commerce/energy

Solving ice dams



Warm air leaking from the house

into the attic is the primary cause of ice dams. Anywhere there is a penetration into the attic space (around wires, plumbing vents, light fixtures, chimneys, knee walls) there is the potential for air leaks. Even homes that are only a few years old may not be properly sealed. To avoid these types of problems and eliminate most ice dams, attic air leaks *must* be sealed with caulking or expanding spray foam. Inadequate insulation, especially near the eaves, is also a contributing cause of ice dams.

Solutions

- Sealing attic air leaks saves energy and is key to preventing ice dams.
- An energy audit with an **infrared scan** can pinpoint trouble spots.
- If snow and ice must be removed, hiring **licensed contractors** that use steamers is strongly recommended.

What NOT to do:

- Installing heating cables **will shorten the life of your roof** and cost you money to operate.
- Removing ice with shovels, chippers, chemicals, or heat can **damage** shingles, gutters, and other building components—and can be dangerous.
- Adding roof vents—including powered vents—will not eliminate ice dams, and often makes the problems worse.
- Additional insulation—especially on the top plate of exterior walls—can reduce heat transfer to the roof deck, but **insulation alone is insufficient.** Typical attic insulation will not stop air leaks or prevent ice dams.

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