

Home Winterization

Winterization is the process of preparing a home for the harsh conditions of winter. It is usually performed in the fall before snow and excessive cold have arrived. Winterization protects against damage due to bursting water pipes, and from heat loss due to openings in the building envelope.



Sunrise Home Inspections, LLC
www.sunrise-home-inspections.com
chris@sunrise-home-inspections.com
Phone: 443-713-9736

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Building Envelope

Leaky window frames, door frames, and electrical outlets can allow warm air to escape to the outdoors.

- ❄️ Windows that leak will allow cold air into the home. Feeling for drafts with your hand, or watching for horizontal smoke from a burning incense stick are a couple of simple ways to inspect for leaks. Air leaks can usually be addressed using insulation tape or caulk.
- ❄️ On a breezy day, you can walk through your house and find far more leaks than you knew existed. Leaks are most likely to occur in areas where a seam exists between two or more building materials.

Insulation

- ❄️ Because hot air rises into the attic, a disproportionately larger amount of heat is lost there than in other parts of the house. Like a winter hat that keeps your head warm, adequate attic insulation will prevent warm indoor air from escaping. Attic insulation should be 12 inches thick in homes located in cold climates.
- ❄️ Storm doors and windows should be installed to insulate the house and protect against bad weather.

Heating System

The heating system is used most during the winter, so it's a good idea to make sure that it works before it's desperately needed. The following inspection and maintenance tips can be of some help to homeowners:

- ❄️ Test the furnace by raising the temperature on the thermostat. If it does not respond to the adjustment quickly, it might be broken.
- ❄️ Replace the air filter at least once every season of operation.
- ❄️ If the furnace is equipped with an oil or propane tank, the tank should be full.

Cooling System

- ❄️ Use a hose to remove leaves and other debris from the outdoor condensing unit, if the home is equipped with one. Protect the unit with a breathable waterproof cover to prevent rusting and freezing of its components.
- ❄️ Remove and store window air conditioners when they are no longer needed. Cold air can damage their components and enter the house through openings between the air conditioner and the windowpane.
- ❄️ Ceiling fans can be reversed in order to warm air trapped beneath the ceiling to recirculate it. A fan has been reversed if it spins clockwise.



Plumbing System

All exposed water pipes in cold, unoccupied areas, such as the attic, garage, and crawlspace, should be insulated. Foam or fiberglass insulation can be purchased at most hardware stores. Insulation should cover the pipe completely.

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- ❄️ Plastic is more tolerant of cold expansion than copper or steel. Houses located in colder climates might benefit from the exclusive use of approved plastic plumbing.
- ❄️ The water supply for exterior pipes should be shut off from inside the house and then drained.
- ❄️ Sprinkler systems are particularly vulnerable to cracking due to cold-weather expansion. In addition to turning it off, it helps to purge the system of any remaining water with compressed air.
- ❄️ Homeowners should be aware that much of the plumbing system travels through areas that are significantly colder than the rest of the house. Because it is impossible to monitor the temperature of every portion of the plumbing system, indoor air temperature should be kept high enough throughout the winter to keep pipes in any unheated places from freezing.

Chimney & Fireplace

- ❄️ The chimney should be inspected for nesting animals trying to escape the cold. Squirrels and raccoons have been known to enter chimneys for this reason.
- ❄️ The damper should open and close with ease. Smoke should rise up the chimney when the damper is open. If it doesn't, this means that there is an obstruction in the chimney that must be cleared before the fireplace can be used.
- ❄️ A chimney-cleaning service professional should clean the chimney if it has not been cleaned for several years.
- ❄️ The damper should be closed when the fireplace is not in use. An open damper might not be as obvious to the homeowner as an open window, but it can allow a significant amount of warm air to escape.
- ❄️ Glass doors can be installed in fireplaces and wood stoves to provide an extra layer of insulation.

Roof

- ❄️ If debris is left in gutters, it can get wet and freeze, permitting the formation of ice dams that prevent water from draining. This added weight has the potential to cause damage to gutters. Also, trapped water in the gutter can enter the house and lead to the growth of mold. For these reasons, leaves, pine needles, and all other debris must be cleared from gutters. This can be done by hand or with a hose.
- ❄️ Missing shingles should be replaced.



Landscaping

- ❄️ Patio furniture should be covered.
- ❄️ If there is a deck, it might need an extra coat of sealant.

Winterizing an Unoccupied Home

Adequate winterization is especially crucial for homes that are left unoccupied during the winter. This sometimes happens when homeowners who own multiple properties leave one home vacant for months at a time while they occupy their summer home. Foreclosed homes are sometimes left unoccupied, as well. The heat may be shut off in vacant homes in order to save money. Such homes must be winterized in order to prevent catastrophic building damage.

- Winterize toilets by emptying them completely. Antifreeze can be poured into toilets and other plumbing fixtures.
- Winterize faucets by opening them and leaving them open.
- Water tanks and pumps need to be drained completely.
- Drain all water from indoor and outdoor plumbing.
- Unplug all non-essential electrical appliances, especially the refrigerator. If no electrical appliances are needed, the electricity can be shut off at the main breaker.



In summary,

home winterization is a collection of preventative measures designed to protect a home against damage caused by cold temperatures. These measures should be performed in the fall, before it gets cold enough for damage to occur. Indoor plumbing is probably the most critical area to address when preparing the home for winter, although other systems should not be ignored.

