Be Embers Aware

IT’S THE LITTLE THINGS THAT COUNT

What is the greatest threat to homes?

Embers, also known as firebrands, pose the greatest threat to a home. These fiery little pieces of wood shoot off from the main fire and get carried to other areas by fast-moving air currents.

A high-intensity fire can produce a virtual blizzard of embers. Some can travel more than a mile before landing. They can get into the smallest places and easily start a fire that can burn down an entire home.

Survey your home—Are there areas where embers can collect and start a fire?

You don’t have to live in a concrete block home with stainless steel doors and a metal deck all the way around it. You just have to remember—it’s the little things that count.

Jack Cohen, Research Physical Scientist, U.S. Forest Service

Overhanging branches can drop embers onto a roof.
Debris can build up in corners, providing fuel for embers. Photo by Institute for Business and Home Safety Research Center.

Embers from flames can find their way into your attic through unscreened vents. Photo by Institute for Business and Home Safety Research Center.

Inside corners can harbor embers.

Dormers, split-level roofs and lots of nooks and crannies create the perfect nest for burning embers. Pay particular attention to any and all inside corners. Wherever possible, cover those corners. Metal flashing is very effective.

Check your gutters to ensure they are clear. Consider adding gutter guards or screening to prevent buildup of pine needles, leaves and other flammable debris.

Vents provide the perfect opening for embers. Add a one-eighth-inch metal screen over the vent opening to create a barrier.

Think about where leaves or trash accumulate when the wind blows. These are the areas where embers will collect and start a fire.

Scout out openings like exterior crawl spaces or the critter zone under wooden porches and decks. Remove any flammable debris that you find underneath, such as leaves and pine needles. Then screen the open area using one-eighth-inch metal mesh to create a barrier for embers.

Visualize if there is anything that can burn easily. Look for the little things: Dry grass growing up against or leading to the foundation, dead vegetation underneath bushes and shrubs, a woodpile next to the home or on the deck, patio furniture cushions, etc.

This photo shows damage to a wooden deck from embers.
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AROUND YOUR YARD AND PROPERTY

Landscaping can serve as a fuel break by limiting flammable vegetation and materials surrounding the home where an ember could land and start a fire. Consider the entire “home ignition zone,” which extends up to 200 feet from the home. Your property does not have to be bare of vegetation to be Firewise.

**ZONE 1  30 feet adjacent to the home**
This area should be well-irrigated and free from fuels that may ignite your home, such as dry vegetation, clutter and debris.

- Plants in this area should be limited to carefully spaced plantings that are low-growing and free of resins, oils and waxes that burn easily. (Diagram 1)
- Mow the lawn regularly. Prune all trees so the lowest limbs are at least 6 to 10 feet from the ground.
- Space flammable conifer trees 30 feet between crowns to reduce the risk of crown fire.
- Within 5 feet of the home, use nonflammable landscaping materials, such as rock, pavers and perennials with high-moisture content. (Diagram 2)
- Remove dead vegetation, such as leaves and pine needles, from gutters, under your deck and within 10 feet of your home.
- Firewood stacks and propane tanks should not be located in this area. Keep them at least 30 feet from the home. (Diagram 3)
- Water plants and trees regularly to ensure that they are healthy and green, especially during fire season.

**ZONE 2  30 to 100 feet from the home.**
Plants in this zone should be low-growing, well irrigated and less flammable.

- Leave 30 feet between clusters of two to three trees, or 20 feet between individual trees. (Diagram 4)
- Encourage a mixture of deciduous and coniferous trees. Most deciduous trees do not support high-intensity fires.
- Give yourself added protection with “fuel breaks,” such as driveways, gravel walkways and lawns. (Diagram 5)
- Prune trees so branches and leaves are at least 6 to 10 feet above the ground. (Diagram 6)

**ZONE 3  100 to 200 feet from the home**
This area should be thinned out as well, though less space is required than in Zone 2.

- Remove heavy accumulation of woody debris.
- Thin trees to remove smaller conifers.
- Reduce the density of tall trees so canopies are not touching. (Diagram 7)
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I CAN MAKE MY HOME FIREWISE BY...

Inspect your home where embers may land or hide. Remove the debris and make the area Firewise. Communities are safer when they work together. To learn more about becoming a Firewise Community, visit www.firewise.org.

- Gutters
- Vents
- Nooks and crannies
- Roof, especially split-level
- Inside corners of home (porches and insets)
- Dry grass against or leading to foundation
- Wood pile next to home or deck
- Dormers
- Deck and porch
- Exterior crawl spaces
- Patio furniture cushions
- Critter zones under wooden porch and deck
- Dead vegetation underneath bushes and shrubs

Learn more about protecting your home at property at www.texasfirewise.org

To learn more, request one of these brochures.
- Plan and Prepare: Is Your Home Ready?
- Fire Resistant Landscaping
- Fire Resistant Materials for Home Repair and Construction
- Vegetation Management in the Wildland Urban Interface

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