



IBHS Research Wildfire Prepared

Steve Hawks

Senior Director for Wildfire

Insurance Institute for Business & Home Safety

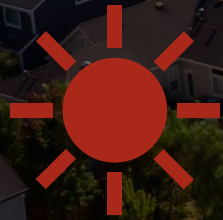


WHY?

Severe weather disrupts lives, displaces families, and drives financial loss. IBHS delivers top-tier science and translates it into action so we can prevent avoidable suffering, strengthen our homes and businesses, inform the insurance industry and support thriving communities.



A COLLISION COURSE: URBAN CONFLAGRATION FOLLOW



Drought



Wind



People



Wildfire = Wildland fuels

Embers

Radiant Heat

Flame Contact

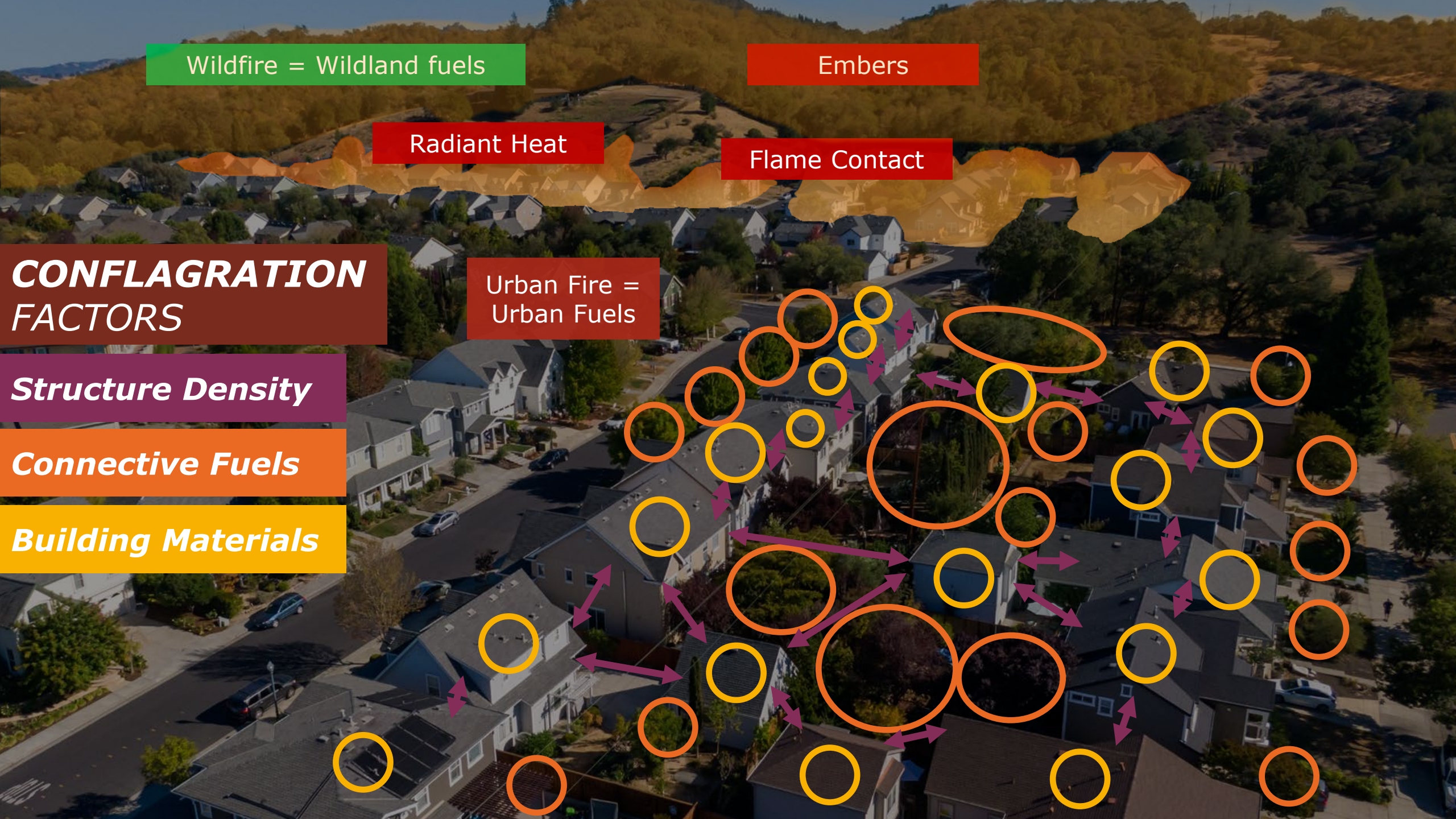
CONFLAGRATION FACTORS

Structure Density

Connective Fuels

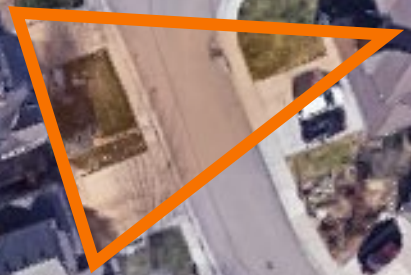
Building Materials

Urban Fire =
Urban Fuels





2011 Emerson Ln
Superior, CO 80027



Eaton Cir

Emerson Ln

CO

Google

Dec 30, 2021 6:29:22 PM MST

Video from Holly Browarsky,
Emerson Lane

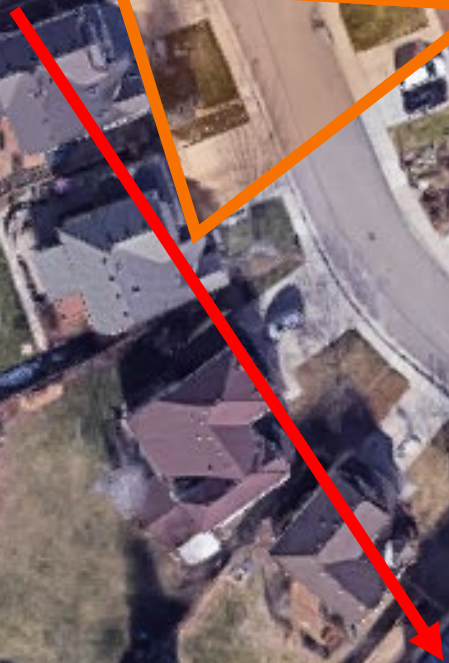
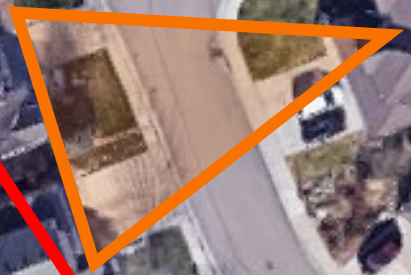
KUNA

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Google

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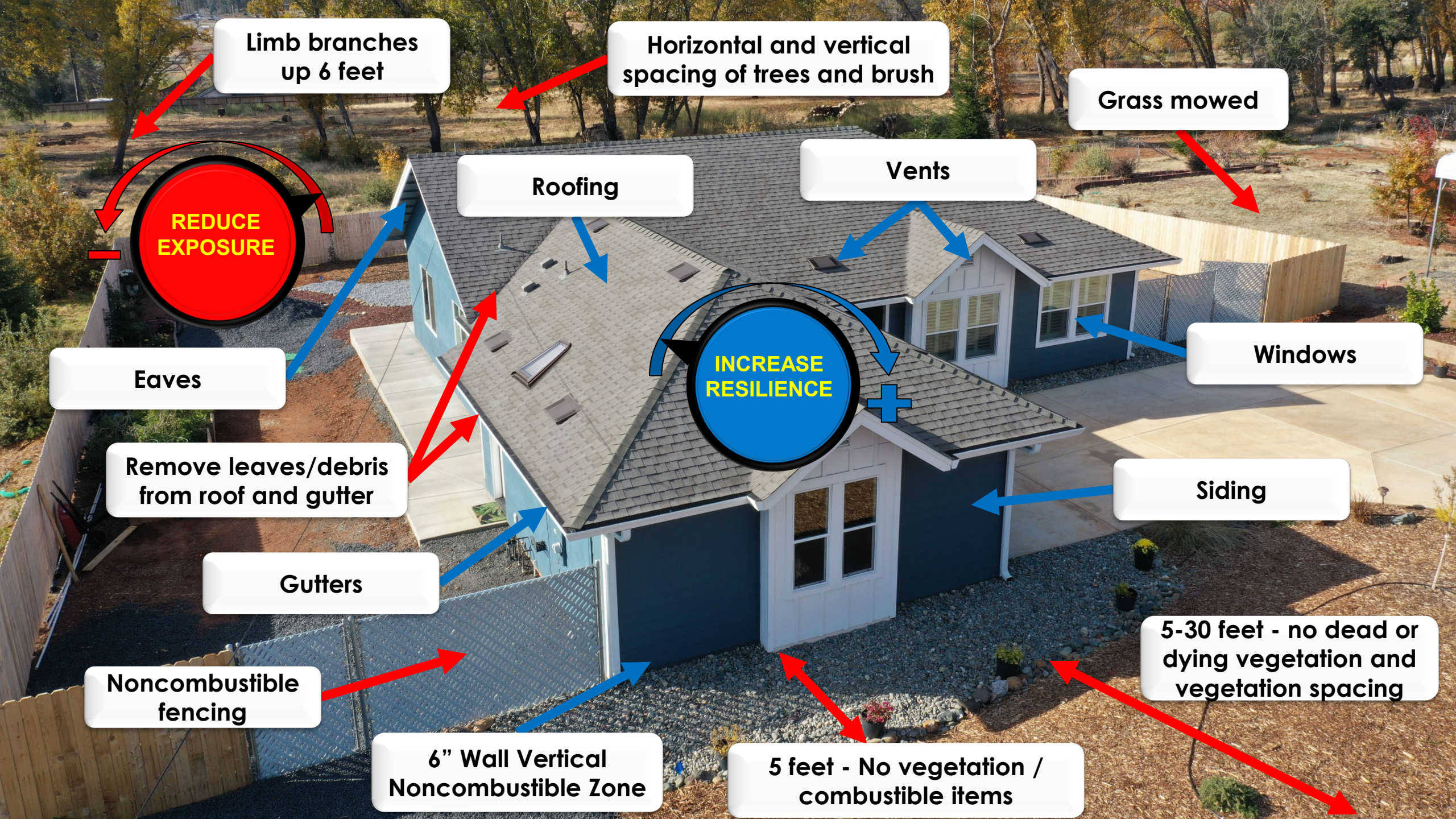


Video by FOX 4 Dallas-Fort Worth



**If a home is ignited by wildfire,
there is greater than a 90 percent
chance it will result in a total loss.**

**Every ignition generates more
EMBERS, FLAMES, & RADIANT HEAT.**



Limb branches
up 6 feet

Horizontal and vertical
spacing of trees and brush

Grass mowed

**REDUCE
EXPOSURE**

Roofing

Vents

Eaves

Windows

Remove leaves/debris
from roof and gutter

**INCREASE
RESILIENCE**

Siding

Gutters

Noncombustible
fencing

5-30 feet - no dead or
dying vegetation and
vegetation spacing

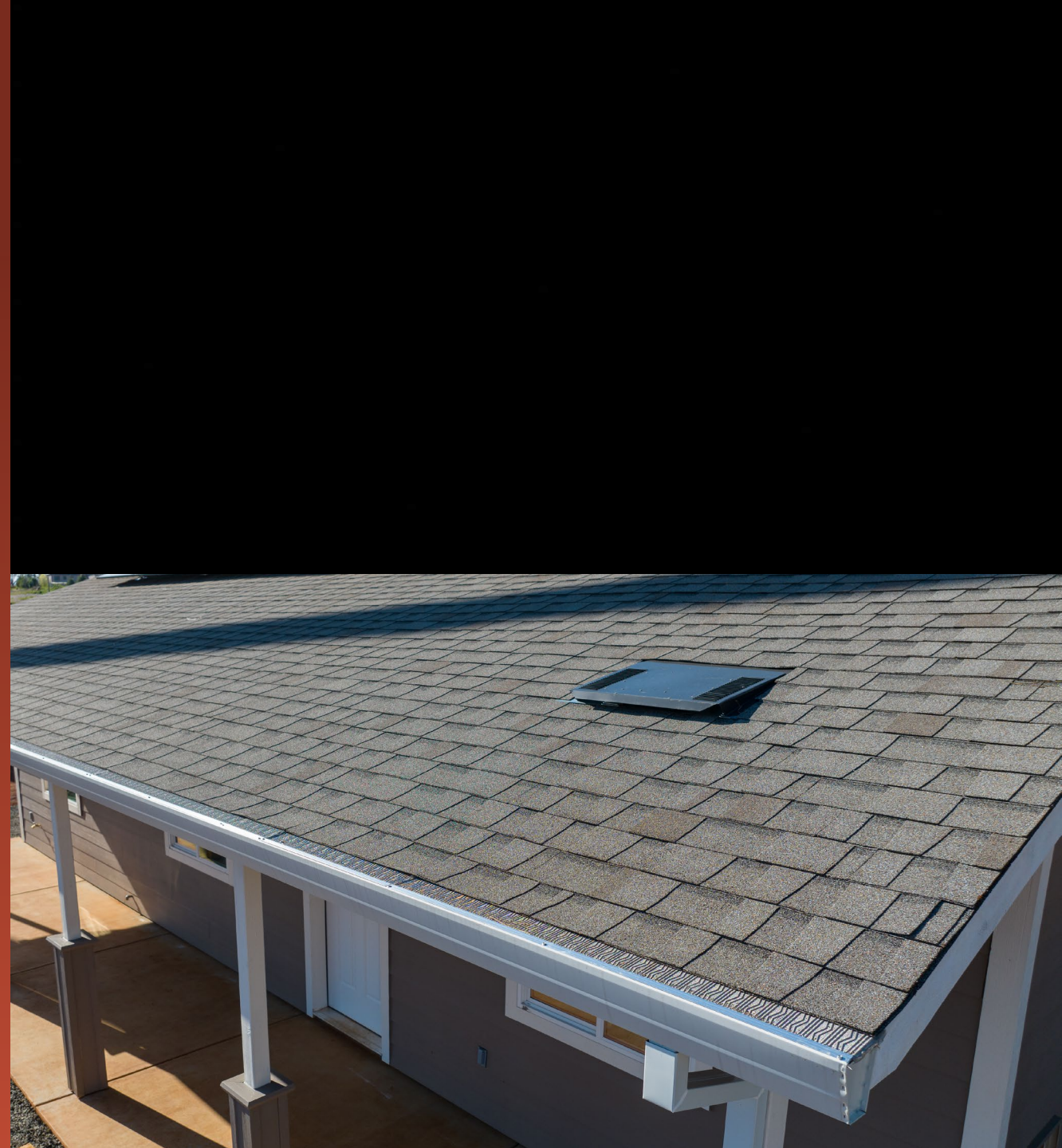
6" Wall Vertical
Noncombustible Zone

5 feet - No vegetation /
combustible items

ROOFS & GUTTERS



- **Class A Roof**
- **Noncombustible Gutters with cover**
- **Maintained clear of debris**



BUILDING FEATURES

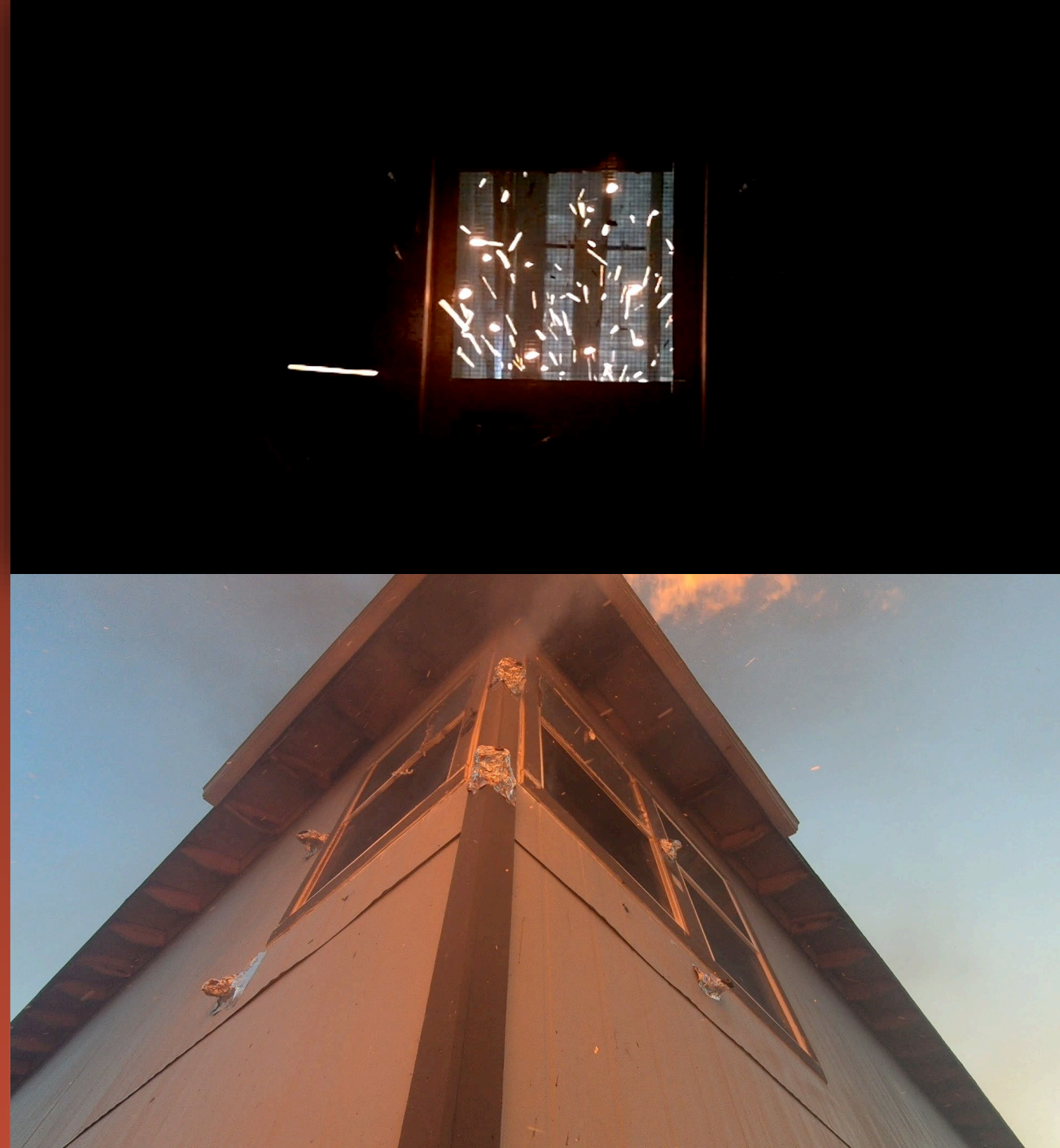


Vents

- **Vents – Covered with 1/8-inch metal mesh**

Eaves

- **Enclose eaves with noncombustible materials.**



BUILDING FEATURES



Siding

- **Noncombustible siding**
- **6-inch vertical noncombustible zone**

Windows

- **Multipaned windows with at least two tempered panes**



DEFENSIBLE SPACE & ZONE 0



- Remove all vegetation
 - No overhanging vegetation
 - Remove all combustible mulch
 - Replace combustible fencing
 - Keep clear of debris
 - No sheds
-
- Clear & maintain on top of and under decks
 - Enclose low-elevation decks
-
- Maintain yard clear of debris
 - Maintain yard clear of dead trees/plants
 - No parallel fencing
 - Move grass to maximum height of 4"
 - Vertical and horizontal spacing

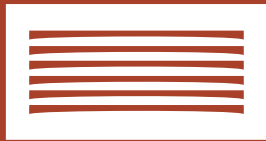
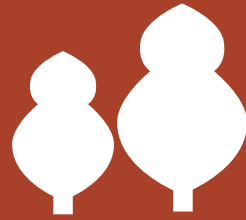
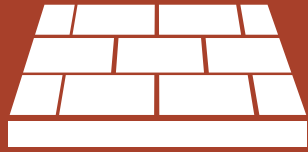


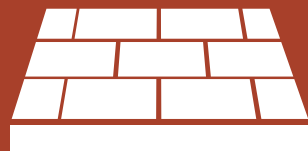


OUTBUILDINGS

- **Move 30' from home**
- **Apply same mitigations as the home**
- **Must have their own 0–5-foot noncombustible clearance**







WILDFIRE PREPARED

— A PROGRAM OF IBHS —

ADDITIONAL MITIGATIONS AGAINST FLAMES

- ✓ Cover gutters.
- ✓ Enclose eaves.
- ✓ Install noncombustible siding.
- ✓ Upgrade windows & doors.
- ✓ Upgrade to a noncombustible deck.
- ✓ Move accessory structures at least 30 feet away.
- ✓ Remove back-to-back fencing.

MITIGATIONS AGAINST EMBERS

ROOF

- ✓ Ensure the roof covering is Class A fire-rated & maintained clear of debris.
- ✓ Choose noncombustible gutters & downspouts.

BUILDING FEATURES

- ✓ Install flame- and ember-resistant vents or 1/8-inch metal mesh vents.
- ✓ Ensure 6-inch vertical noncombustible clearance at base of exterior walls and decks.
- ✓ Clear & maintain the underdeck area; enclose low-elevation decks.

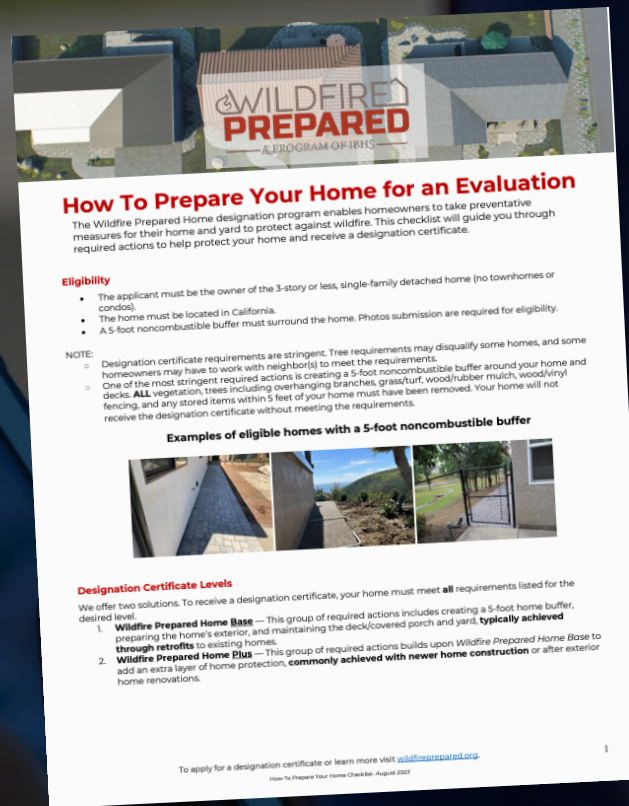
0–5 FOOT NONCOMBUSTIBLE ZONE

- ✓ Establish a **0–5 Foot Noncombustible Zone** around the home and decks; remove overhanging branches; replace combustible fences within 5 feet.

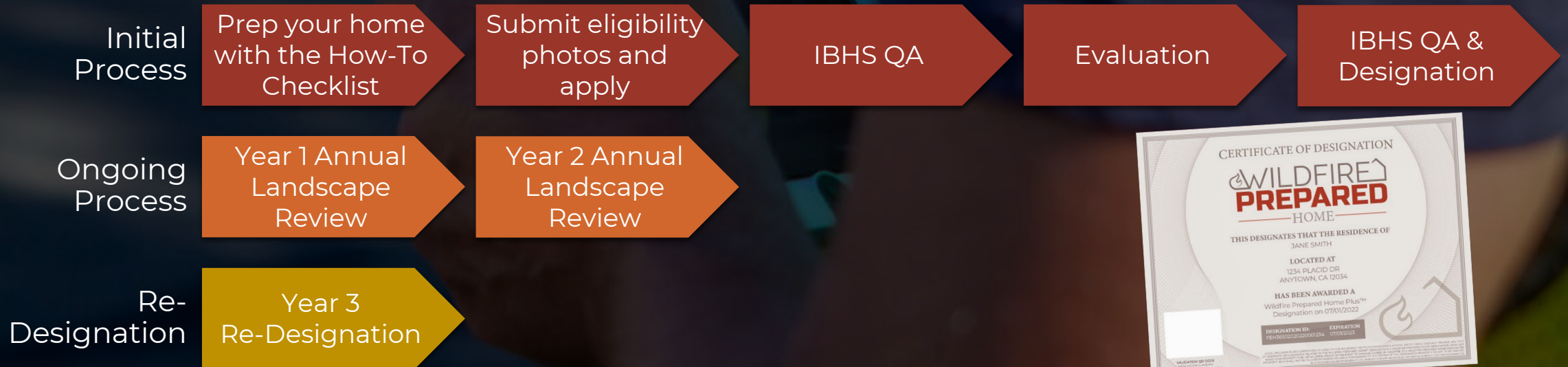
5–30 FOOT DEFENSIBLE SPACE ZONE

- ✓ Maintain yard with spaced vegetation, structures, & other connective fuels; clear debris; remove firewood.
- ✓ Move structures at least 10 feet away & maintain a 0-5 Foot Noncombustible Zone around them.

Designation Process



Step-by-step checklist on How to Prepare Your Home for Evaluation





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➤ wildfireprepared.org



🐦 [IBHS_org](https://twitter.com/IBHS_org)