Fire Defense

It’s estimated that 90% of the homes destroyed during wildfires, are due to wind blown embers!

EMBER ATTACK!

Embers shower into attic vents and eave spaces of neighboring houses, igniting them from the inside out! This can happen long before flames even come close!

The Vulcan Vent is a FIRST LINE OF DEFENSE against ember attack, heat and exterior flame.

Vulcan Vents will keep dangerous embers from entering the ventilation areas of your home even when the fire is still far away.
How it Works

Vulcan Vents are self closing when exposed to extreme heat and flames, preventing flame and ember intrusion.

Vulcan Defense System:

1. **Physical barrier** that protects against burning wind-blown embers
   For the **first line of defense**, we use **16 mesh stainless steel** that effectively blocks embers from entering your home.

2. **Reactive barrier** that self closes when exposed to heat or flames
   Our second line of defense is our patented, **1/4" honeycomb aluminum core**, coated with an **intumescent coating**. This is a reactive, self closing barrier that prevents the intrusion of flames into your home.
Intumescent Honeycomb Core:

- **Intumescent** (adj): swelling up when heated, thus protecting the material underneath or sealing a gap in the event of a fire: “intumescent fire-retardant paints”

Excellent Passive Air Flow:

- The Vulcan Vent is known for its superior NFVA (net free ventilation area) and provides great airflow through attic and crawl spaces.

- Unlike BAFFLED VENTS that RESTRICT AIRFLOW, Vulcan Vents are designed for maximum airflow.

Protective Firewall:

- Vulcan Vent’s design consists of a ¼” honeycomb aluminum core with an intumescent coating.

- This coating expands when exposed to heat (500 °F).

- This chemical expansion creates a firewall and will seal the vent completely, preventing the intrusion of flames and embers into your home.

Adequate ventilation is critical in preventing heat and moisture build up in your home.

Proudly manufactured by: Vulcan Metals Inc.
Product Types

• **Continuous Soffit Vents**
  - Unibody design
  - Easy to install and can be cut to size and painted, even powder coated
  - 19 models of continuous vents and retrofits

• **Foundation and Soffit Vents**
  - Unibody design
  - Easy to install and can be cut to size and painted, even powder coated
  - 19 models of continuous vents and retrofits

• **Gable and Dormer Vents**
  - Over 30 models of gables
  - Retrofits are also available
  - Made for weather, pest, fire, and ember resistance
  - Installs like any other gable or dormer vent does

• **Eave Vents for Trusses and Rafters**
  - Ideal for new construction
  - Direct rafter and truss applications available
  - Available in various widths [3.5” - 7.5”] X [14” & 22”]
  - Reverse tabs also available for easy installation in differing scenarios.

Retro applications available, as well as Vulcan Mesh Kits.
California Building code (CBC) Chapter 7A compliant

Wildland Urban Interface (WUI) compliant

Western Fire Center Inc. (WFCi) 1-hour fire rated assembly

Meets ASTM E2886/E2886M standards

California State Fire Marshal (CSFM) Building Material Listed (BML)

---

**Important Terminology**

**Wildland Urban Interface (W.U.I.)**

The Wildland-Urban Interface (WUI) is the area of transition between civilization and nature. WUI’s are particularly at high risk from wildfires. **Vulcan Vents play a critical role** in a home’s ability to **protect** itself from **fires** in these areas.

**CBC Chapter 12-7A**

State Fire Marshal standards for materials and construction methods for exterior wildfire exposure.

**American Society for Testing and Materials (ASTM International)**

ASTM E2886 / E2886M

“Standard Test Method for Evaluating the Ability of Exterior Vents to Resist the Entry of Embers and Direct Flame Impingement”
Increasing Risk

Wildfires are trending like the Mendocino Complex Fire—huge blazes that start in the summer and feed mostly on timberland. Over the past five decades, these summertime forest fires have increased in size by roughly 800 percent.

Fires are on the Rise!

A study, published in the journal *Earth’s Future*, finds that we’re in a real fire outbreak—and that it’s being driven by climate factors. Since 1972, California’s annual burned area has increased more than fivefold, a trend clearly attributable to the warming climate, according to the paper.

Source: National Fire Incident Reporting System, National Association of State Foresters, Federal Fire Occurrence Dataset