



EMBERS
PROTECTION SERVICES®

Protecting Properties and
Communities from Wildfires

Learning Objectives

- 1. Understand what an EPS Autonomous Wildfire Defense System is and how it functions.**
- 2. Understand the benefits of implementing an exterior fire suppression system for properties in high fire danger zones.**
- 3. Learn new strategies to improve fire and ember resiliency for residential and commercial structures that can substantially reduce wildfire risk.**
- 4. Learn strategies and techniques to mitigate fuels around the property to create defensible space.**

EPS Mission

Our mission is to create wildfire resilient properties through cutting-edge autonomous wildfire defense technology, implementing innovative structure and perimeter protection strategies that work 24/7 to protect what matters most. Powered by smart satellite monitoring, on-site heat sensors, and infrared camera systems, we're revolutionizing how properties defend themselves against wildfire threats.

Palisades Fire (Jan. 2025) - Pacific Palisades, CA

- **12 Lives Lost**
- **23,707 Acres Burned**
- **6,837 Structures Destroyed**
- **Approx. \$30 Billion in Property Loss**
- **One of the Most Destructive Wildfires in California History**



Eaton Fire (Jan. 2025) - Altadena, CA

- **17 Lives Lost**
- **14,021 Acres Burned**
- **10,491 Structures Destroyed**
- **Approx. \$40 Billion in Property Loss**
- **In the Top 3 Most Destructive Wildfires in California History**
- **First Most Destructive Fire in Southern California History**



Lahaina Fire (Aug. 2023) - Maui, HI

- **115 Lives Lost**
- **5th Deadliest Wildfire in U.S. History**
- **Over 2,200 Structures Destroyed**
- **Approx. \$5.5 Billion in Property Loss**
- **Worst Natural Disaster in Hawaii**



Woolsey Fire (Nov. 2018) - Malibu, CA

- **3 Lives Lost**
- **97,000 Acres Burned**
- **Over 1,600 Structures Destroyed**
- **Approx. \$6 Billion in Property Loss**
- **Third Costliest Wildfire in U.S. History**



EPS System Proves Vital During LA Fires

During the recent Franklin and Palisades fires in Malibu and Pacific Palisades, homes with the Embers Protection Autonomous Wildfire Defense System remained safe, while unprotected properties suffered damage. A notable Malibu property survived both fires thanks to the EPS system's dual-defense strategy

This real-world test highlighted the EPS system's effectiveness, offering 24/7 monitoring and automated response without needing human intervention, crucial during evacuations.



3 Factors to Creating a Wildfire-Safe Home

Defensible Space

create adequate defensible space between the structure and potential fuel including the wise selection, placement, and maintenance of vegetation.

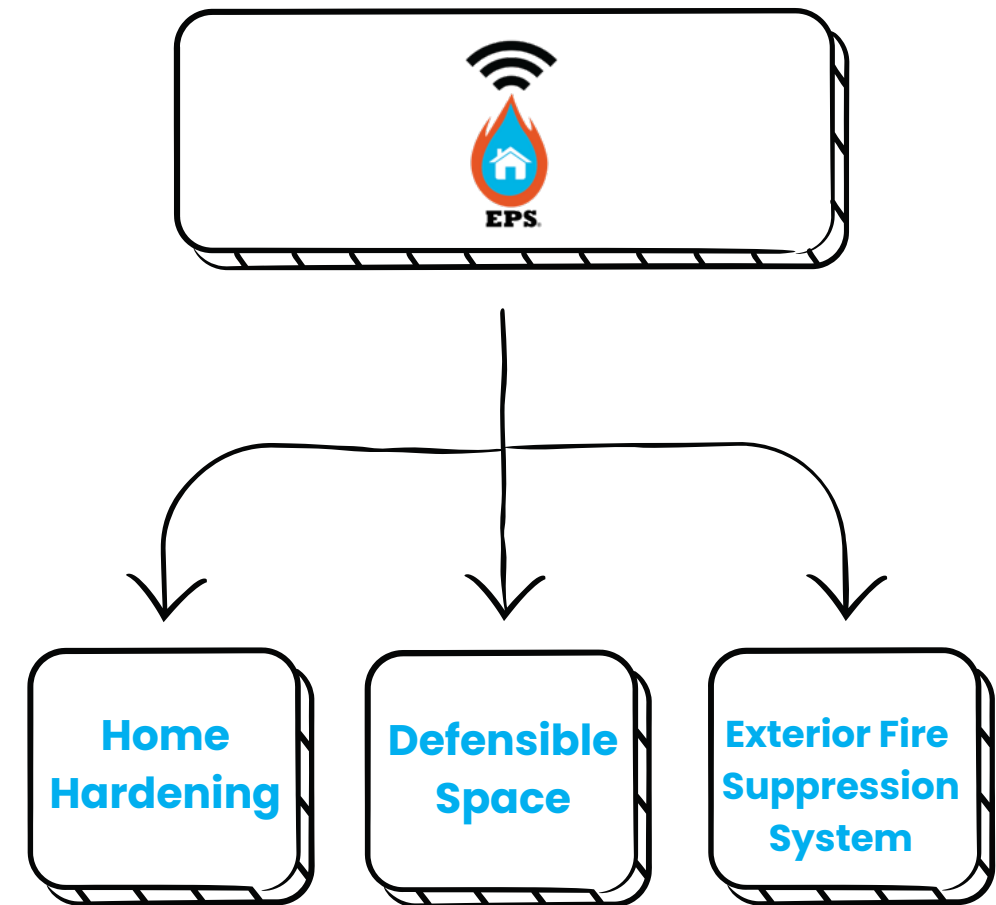
Home Hardening

wise selection of building materials and designs that will help the home or business resist airborne embers

Exterior Fire Suppression System

installation of an exterior fire suppression system with structure and perimeter defense, constant water psi, and reliable backup power.

CREATE A WILDFIRE-SAFE HOME

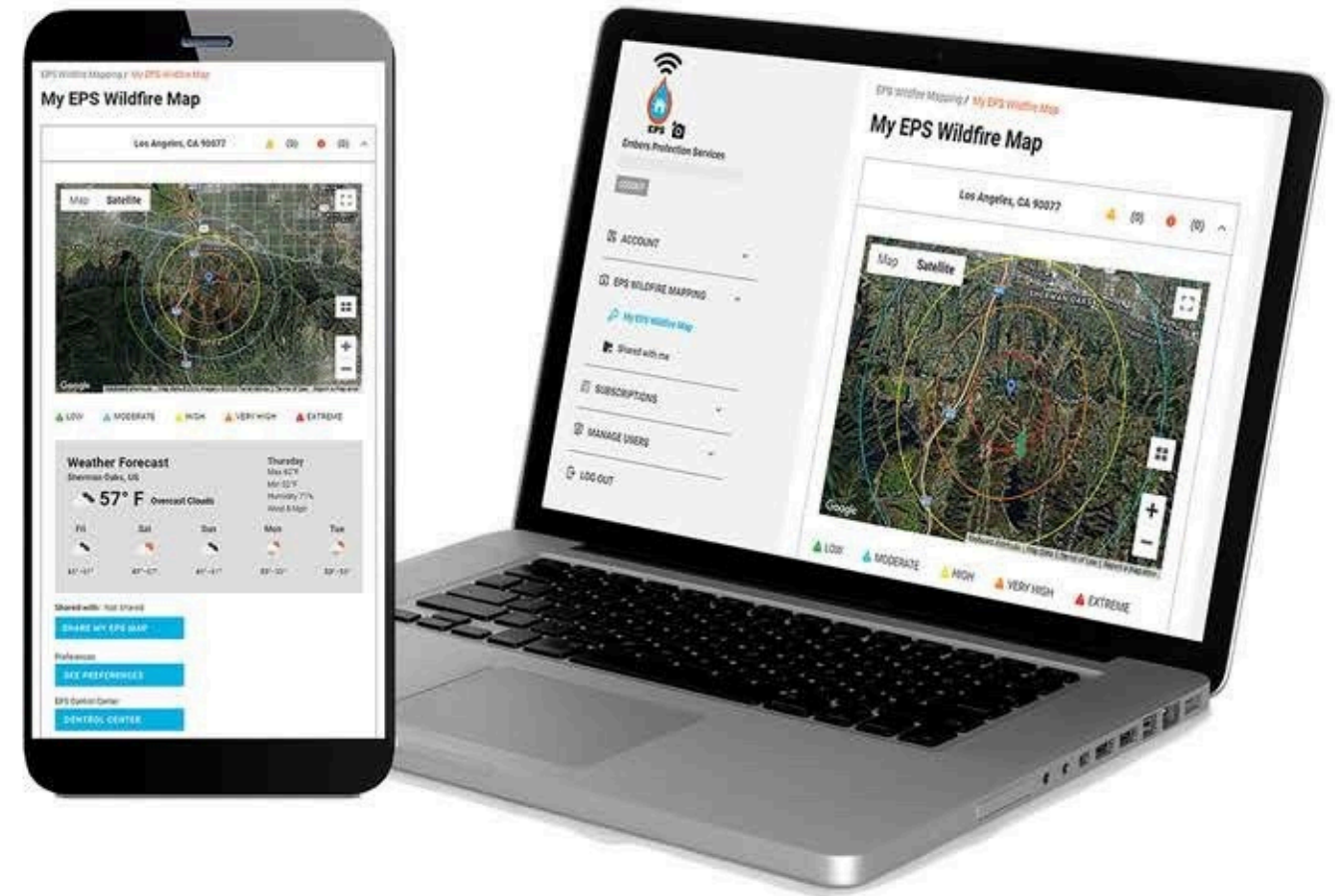


LAYER YOUR MITIGATION ACTION

EPS Wildfire Defense - Smart Technology

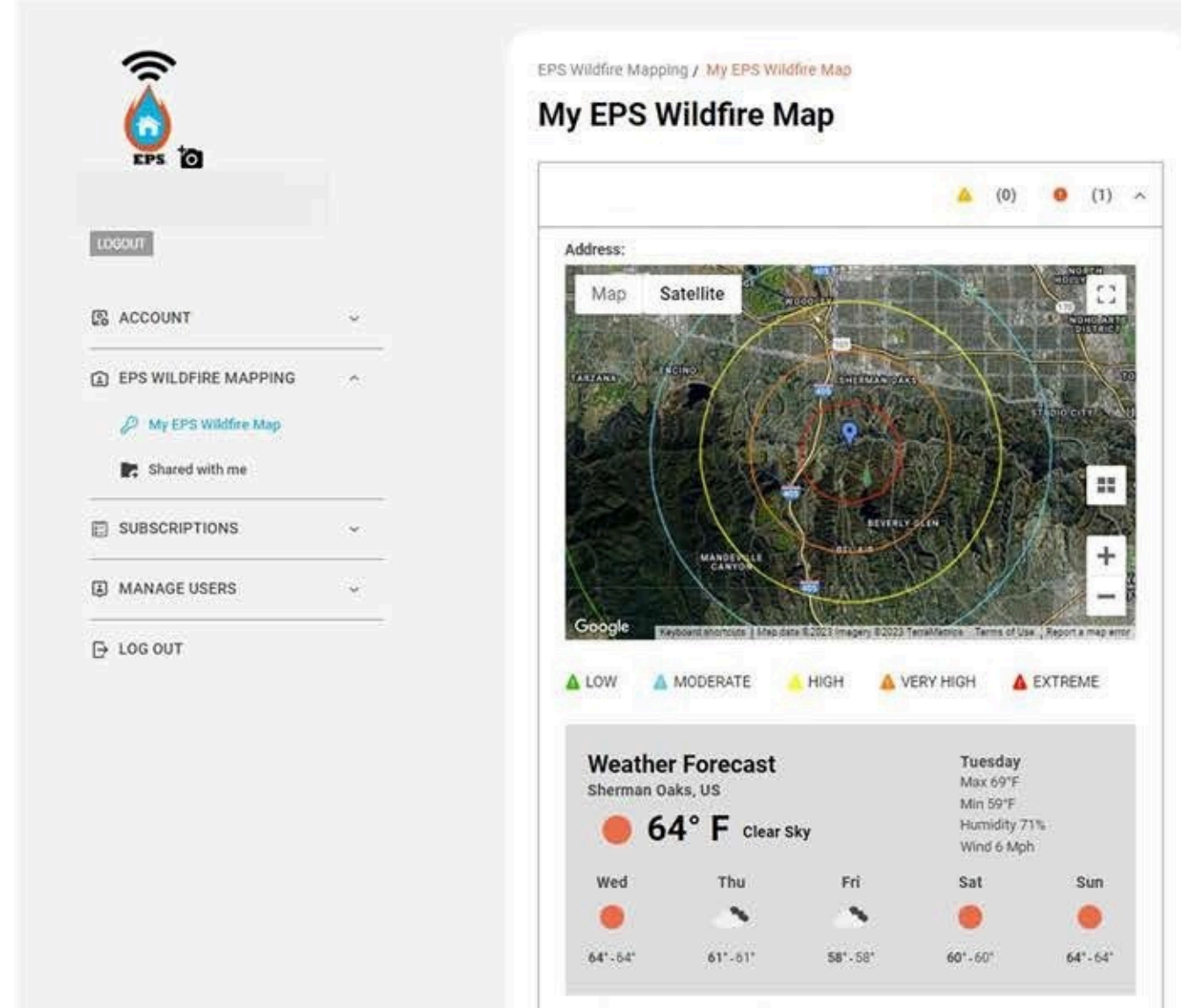
BE PROACTIVE – BE PREPARED – BE IN CONTROL

- EPS Autonomous Wildfire Defense System
- 24/7 Wildfire Monitoring from Any Device
- Early Wildfire Detection Warning Alerts
- EPS Wildfire Mapping Specific to Property
- Automated Activation from Fire Mapping
- Automated Activation from Heat Sensors
- Constant Pressure System for Low Water PSI
- No Remote User or Human Interface Required
- Backup Power (Generator or Solar Battery)



EPS Wildfire Defense - Wildfire Mapping

- Wildfire Tracking for Specific Property 24/7
- NASA & U.S. Forestry Department Satellite Data
- On the Ground Info and Scanners Utilized
- Danger Levels Range from Low to Extreme
- Wildfire Proximity and Danger Level Alerts
- Weather Forecast with Red Flag Warnings
- Early Fire Detection for Quicker Evacuations



EPS Wildfire Defense - Autonomous Activation

How the EPS System Works

Autonomous Activation



Satellite

- NASA & U.S. Forestry
- Early Warning Fire Detection and Alerts

Camera

- LIVE Monitoring 24/7
- IR Camera 360° View
- View Up to 60 Miles

Heat Sensors

- Senses Wildfire Heat
- Long Distance Range
- Highly Accurate

Wildfire Defense

- Autonomous Activation
- Structure & Perimeter
- Eco and Pet Friendly



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AUTOMATED WILDFIRE DEFENSE SYSTEMS

Fire alert

The Embers automated fire monitoring system has detected a fire activity in your area.



Extreme



High



0.56 Mi.



Property name

186 W Forest Rd, Vail, CO 81657, USA



Property address

186 W Forest Rd, Vail, CO 81657, USA

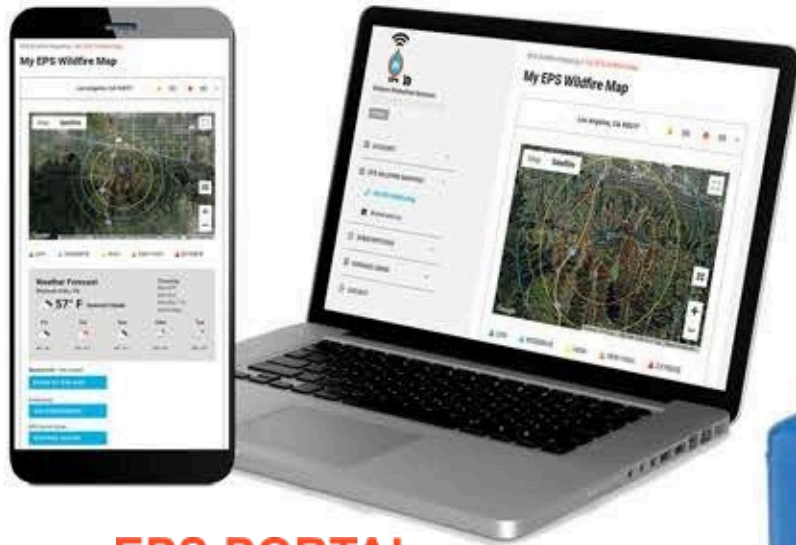
[Go to property](#)



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EPS System Components



EPS PORTAL



THREE-PHASE PUMP



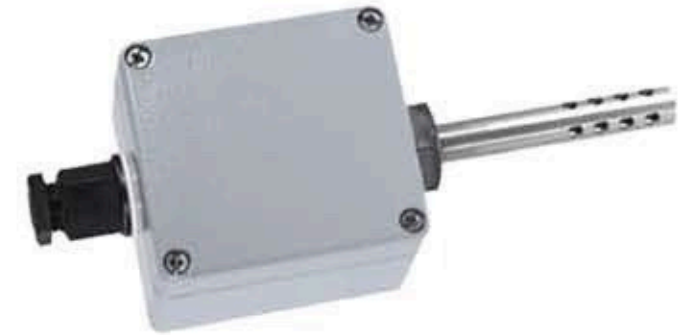
PRESSURE TANK



EPS CONTROL CENTER



PRESSURE TRANSMITTER



RTD HEAT SENSOR



FIRE RETARDANT TANK

EPS System Components



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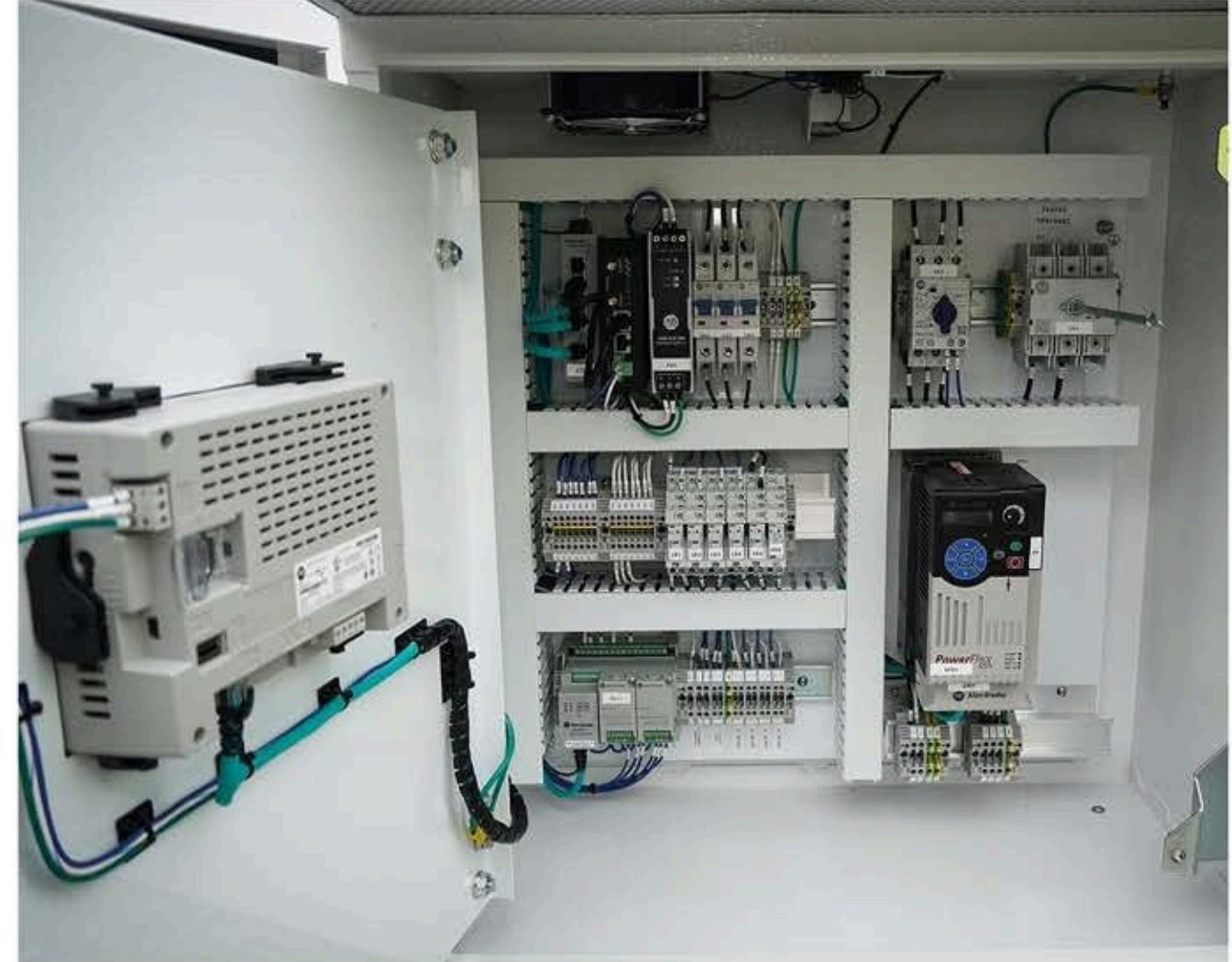
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EPS Control Center

- NEMA 3R Rated Enclosure Powder Coated White
- Temperature Controlled with Thermostat and Fan
- Bi-Directional Data Communication with EPS Cloud
- Autonomous Activation from EPS Wildfire Mapping
- (RTD) Resistance Temperature Detector Activation
- Constant Water Pressure System with PSI Sensor
- Variable Speed Drive to Adjust Pump Speed
- U.S. Patent #11247087
- 508a U.L. Listed



EPS Control Center



EPS Control Center VS Competitor



EPS Control Center - Danger Level

EPS Control Center

Manual Mode ☐ Off

⚠ DANGER LEVEL

Emergency  ☐ Off

- 🔴 EXTREME 1 MI 
- 🟡 VERY HIGH 2 MI 
- 🟠 HIGH 3 MI 
- 🟢 MODERATE 4 MI 
- 🟡 LOW 5 MI 

NO DANGER

Distance to Fire
(Default 100 MI)

100

SYSTEM STATUS

STANDBY
RUNNING
ERROR

EPS Wildfire Mapping / My EPS Wildfire Map

My EPS Wildfire Map

Address:





🟢 LOW 🟢 MODERATE 🟠 HIGH 🟡 VERY HIGH 🔴 EXTREME



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EPS Control Center - Pump Status

 **PUMP STATUS** 

EPS WILDFIRE DEFENSE - GARAGE

Pump #1 ☐ Off



Pressure (PSI) #1 83

EPS WILDFIRE DEFENSE - MAIN HOUSE

Pump #2 ☐ Off

Pressure (PSI) #2 82

EPS Control Center - Valve Status

 **VALVE STATUS** 

WATER SUPPLY

Valve #1 ☒ On

STRUCTURE DEFENSE

Valve #2 ☐ Off



FIRE RETARDANT

Valve #3 ☐ Off

PERIMETER DEFENSE

Valve #4 ☐ Off

EPS Control Center - Temperature Status

 **TEMP STATUS** 

RTD HEAT SENSOR TEMPERATURE

Temperature status #1 (F)
66.7399979

Temperature status #2 (F)
67.2799988

Temperature status #3 (F)
67.4599991


Temperature Status

Emergency Temperature

130



EPS Control Center - One Time Run

 **ONE TIME RUN** 

PERIMETER DEFENSE

☐ Off

One Time (minutes) 8

Minutes Remain 8



STRUCTURE DEFENSE

☐ Off

One Time (minutes) 10

Minutes Remain 10

EPS Control Center - Monthly Test

 **STRUCTURE DEFENSE MONTHLY TEST** 

SCHEDULE

Day of Week

Wednes

Week number

2

Hour

13

Duration (minutes)

5

ENABLE MONTHLY TEST

☐ Off

EPS Remote Install

VS

Competitor



- Metal Raceway Painted to Match
- Hides Pipe Going up Side of Home
- All Heads Activate at the Same Time



- No Raceway, Exposed Pipe
- Multiple Pipes Going to Roof
- Heads Activate One at a Time

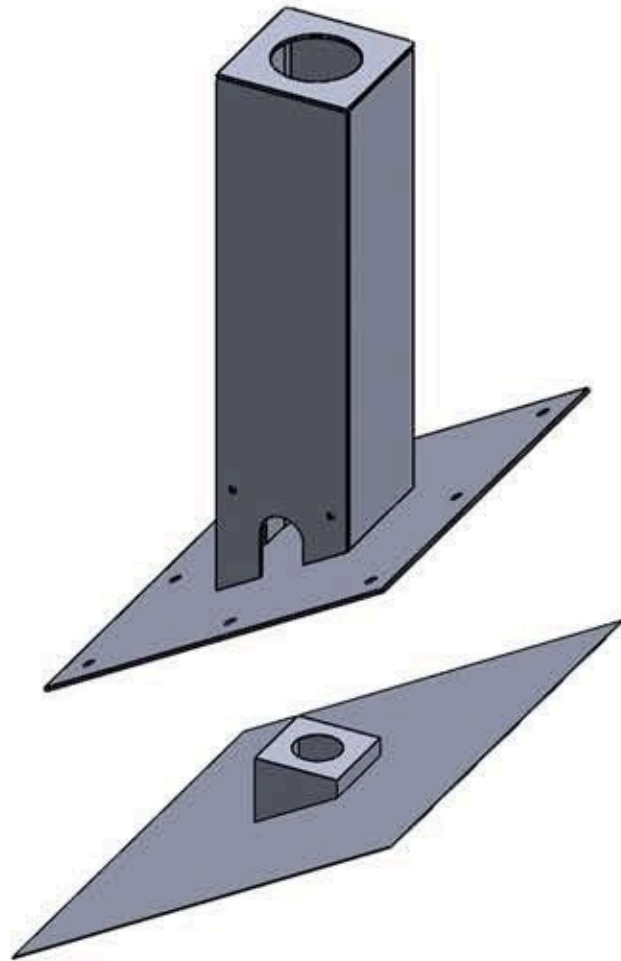


EPS Structure Defense - Flat Roof Delivery

- Protects Structure from Airborne Embers
- AUTO Deploys High Pressure Water to Roof
- Dual Opposing Nozzle up to 50' Radius
- Heads with Stainless Steel Risers
- Provides Wind Resistant Distribution
- Saturates Dry Debris on Roof or in Gutters
- Housing in Stainless Steel & Powder Coated
- Lifetime Warranty on Roof Housing Assembly



EPS Structure Defense - Pitched Roof Delivery



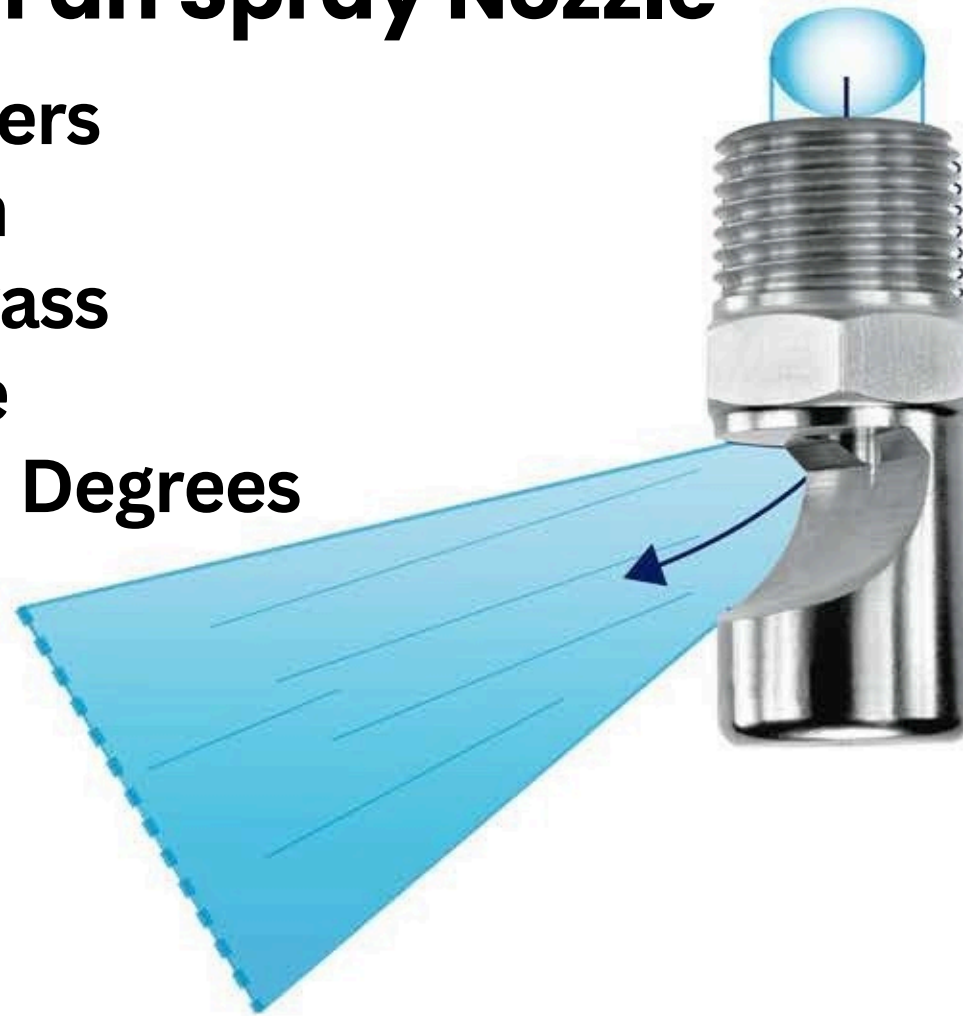
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EPS Structure Defense - Eave Protection

Extra Wide Angle Flat Fan Spray Nozzle

- Protects Eave from Embers
- Window Heat Protection
- 303 Stainless Steel or Brass
- 145° Degree Spray Angle
- Discharge Deflected 75° Degrees



EPS Structure Defense - Fire Suppression

- Auto Deployment to Perimeter Vegetation
- Eco-friendly, OMRI Listed Fire Suppression
- Creates Up to a 100' Wide Firebreak
- Keeps Radiant Heat Away from Structure
- Slows Down and Stops Encroaching Fire
- Pet Safe and Environment Friendly



EPS Site Plan - Structure & Perimeter Defense



EPS Backup Power



Features & Benefits:



5-YEAR LIMITED WARRANTY

Included with all home standby generators.



TRUEPOWER™ TECHNOLOGY

Delivers best-in-class power quality with less than 5% total harmonic distortion for clean, smooth operation of sensitive electronics and appliances.



BUILT IN THE USA*

Generac generators and engines are engineered and built in the USA*

*Assembled in the USA using domestic and foreign parts.



GENERAC'S G-FORCE ENGINE

Are purpose-built, pressure-lubricated engines capable of handling the rigors of generator use, resulting in power that's more reliable and requires less routine maintenance than any competitive engine.



24/7/365 CUSTOMER SUPPORT TEAM

Standing by all day, every day from our headquarters in Wisconsin to answer any questions you might have.



QUIET-TEST™ SELF-TEST MODE

Runs at a lower RPM for a five or twelve minute test, making generators significantly quieter than other brands, while consuming less fuel.



GENERAC'S EVOLUTION™ CONTROLLER

Features a multilingual LCD display that allows you to monitor battery status and track maintenance intervals to ensure your generator is always in top operating condition.



TOUGH, DURABLE ENCLOSURES

Our RhinoCoat™ powder-coated finish helps make corrosion-resistant aluminum perfect for all weather conditions.



Get 24/7 peace of mind with Mobile Link™

Mobile Link remote monitoring lets you get and share information about your home standby generator no matter where you are, using your computer, smart phone, or mobile device.



Alert

Get real-time notifications about your generator.



Protect

Remotely access your generator's health.



Manage

View your maintenance needs.



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Wildfire Risk Assessments

- Desktop Analysis of the Property
- Inspection by Certified Fire Professional
- Comprehensive Wildfire Risk Assessment
- Recommendations to Reduce Risk
- Report with Wildfire Risk Mitigation Plan
- Verification Report Once Work Completed



Home Hardening - Vents



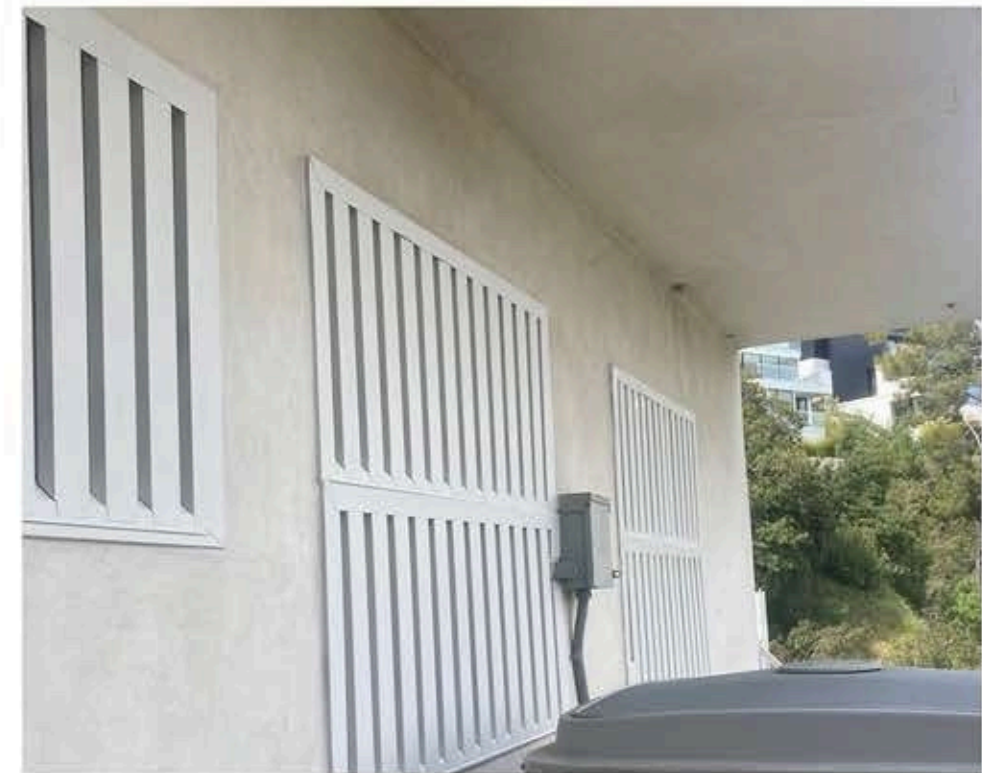
- Flame and Ember Resistant Vents
- Intumescent Material Expands in High Heat
- CAL Fire Listed and Approved
- California Fire Marshal State Listing
- WUI (Wildland Urban Interface) Compliant
- Fire Tested to ASTM E2886 | E2912
- 1 hr Fire Rated ASTM E119
- Compliant with SB721 | SB326



Home Hardening - Vents

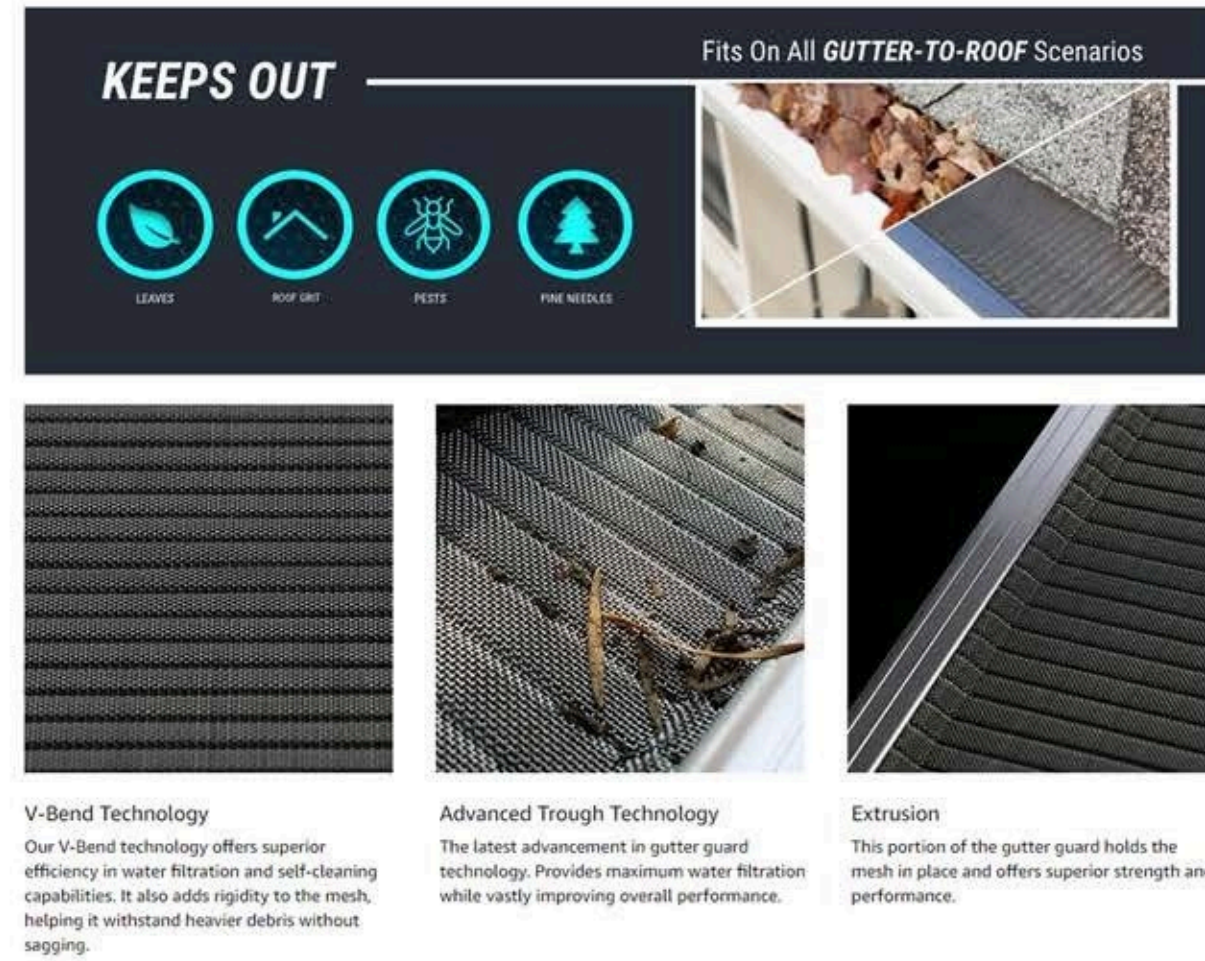
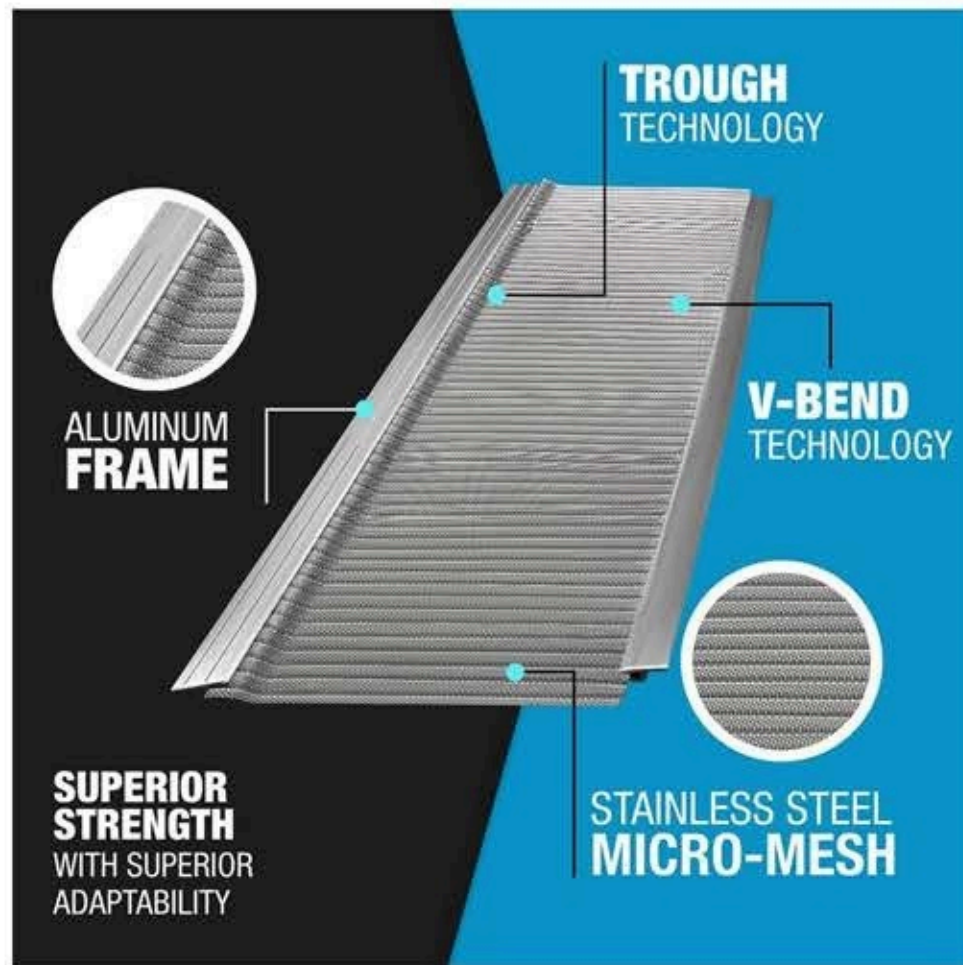


BEFORE



AFTER

Home Hardening - Leaf Gutter Guards



EPS Pre -Fire Treatment Application

- Pre-Treat Homes to Prevent Fire Damage
- Non-Toxic, Mineral Based Fire Retardant
- Non-Corrosive and Non-Damaging to Surfaces
- Ideal for Treating Active Construction Sites
- PFAS Free and Food Environment Safe
- Use on Home, Barns, Sheds, Eaves, Framing, Outdoor Furniture, Wood Chips, Shakes Roofs



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Defensible Space

Zone 0 – Ember Resistant Zone (0 to 5')

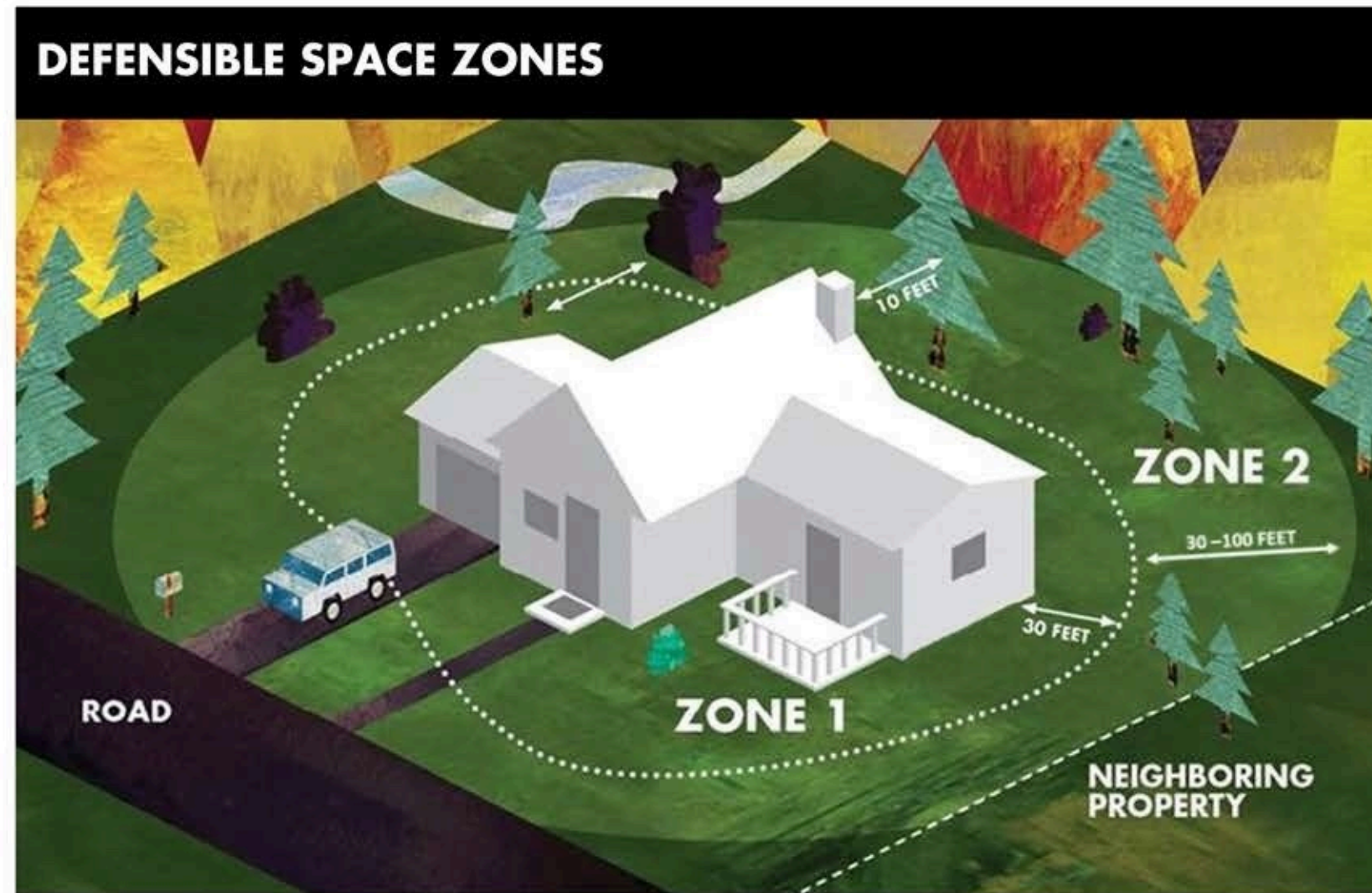
- use hardscape and noncombustible mulch materials
- remove all dead and dying weeds, grass, and plants
- low growing, non-woody, properly maintained plants

Zone 1 – Lean, Clean, Green Zone (5' to 30')

- remove all tree branches within 10' of the structure
- trim trees regularly to keep the canopies 10' apart
- create separation between trees and shrubs

Zone 2 – Reduce Fuel Zone (30' to 100')

- cut or mow annual grass to a maximum height of 4"
- create horizontal & vertical space between vegetation
- remove fallen leaves, needles, twigs and branches





**WE APPRECIATE YOUR TIME AND LOOK FORWARD
TO WORKING WITH YOU SOON.**

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