



The Frontline Wildfire Defense System: Proactive, continuous hydration prevents ember ignition.

- Customized design & installation
- Class A, biodegradable firefighting foam (optional)
- Remote activation with the Frontline App
- WiFi, cell, & satellite connectivity
- Five day+ backup power supply
- Backup water supply options





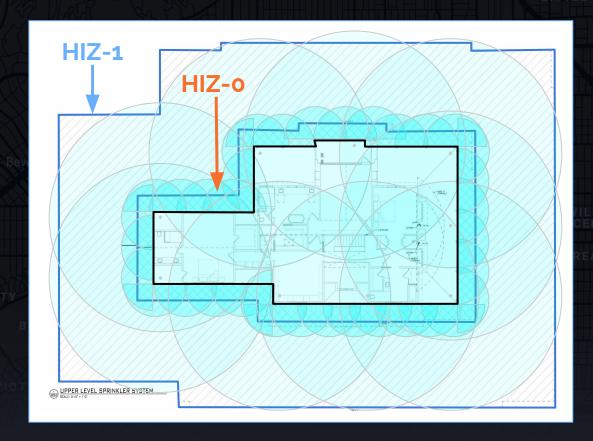
Each system is custom designed to achieve the Frontline hydration prescription.

Critical Zone: HIZ-0

- Eave sprays
- 100% overlap
- Applying a density of 0.9"/hour (0.95 gpm/100 sq ft)

Intermediate Zone: HIZ-1

- Roof rotors
- 60%-70% overlapApplying a density of0.18"/hour (0.19 gpm/100 sq ft)





The Frontline app allows you to monitor fire in the area and control your system from anywhere.





















To discuss Frontline for your business please contact:

Richard Hart 415.450.1955 rhart@frontlinewildfire.com

Thank you!

Frontline Stats

3,250+ Frontline system activations since 2019

\$1B in real estate protected

200 systems installed

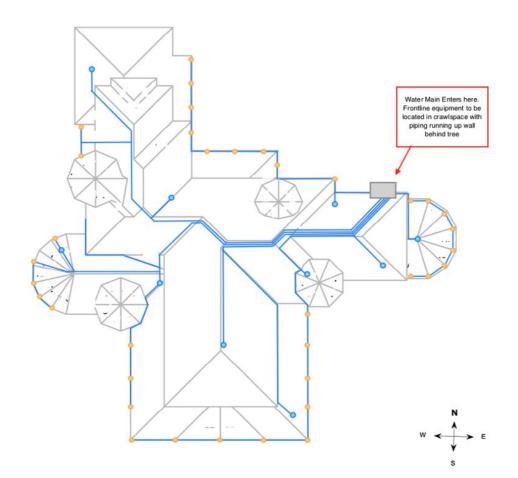
2x - Frontline revenue growth every year since 2019

Zero Frontline protected structures lost to wildfire



APPENDIX

Sample System layout - Tasting Room



Notes:

- Blue dots represent Roof Sprinklers, and Orange dots represent Eave Sprinklers
- Proposed equipment location is at NE corner of building with piping running up behind the tree there
- Piping will be run below ridges, along sides with less ground visibility.
- Adjustments can be made during installation as well

Spray Heads - below are examples of spray heads we use. Actual hardware will be determined by specific project parameters.







Location on on building: Roof

Specification: 6" Tall, Stainless Steel Body Encapsulated in Plastic Housing, or Open Honeycomb Body

Radius Treated: 30' to 60' (subject to hydraulic pressure)





Location on building: Eaves, Overhangs, Ceilings

Specification: 3/4" Diameter, Brass Body

Radius Treated: 15' (subject to hydraulic

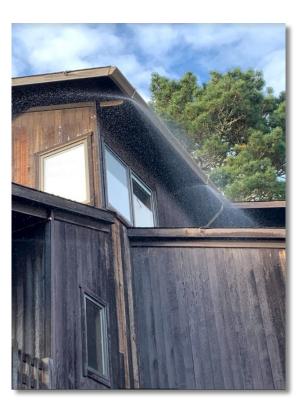
pressure)

Eave Zone Activations - below are examples of Eave Zones in action. Zones activate in a cyclical fashion to maximize available water.









Water Supply - A Hardened, Modular, and Redundant Approach

Primary Source

Municipal, Well, or Tank

NOTE: if well or tank requires a pump, that pump will require a backup power source

Backup Source (optional add-on to Primary Source)

- Pool
- Storage Tank
- Well

Typically pump driven, and as mentioned above, that pump will require a backup power source

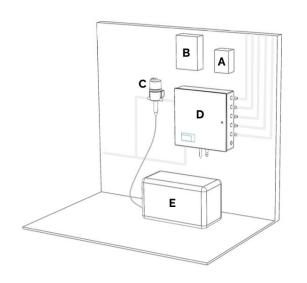
Pressure triggered - when primary source pressure drops, backup takes over

To Frontline System

Core Frontline System



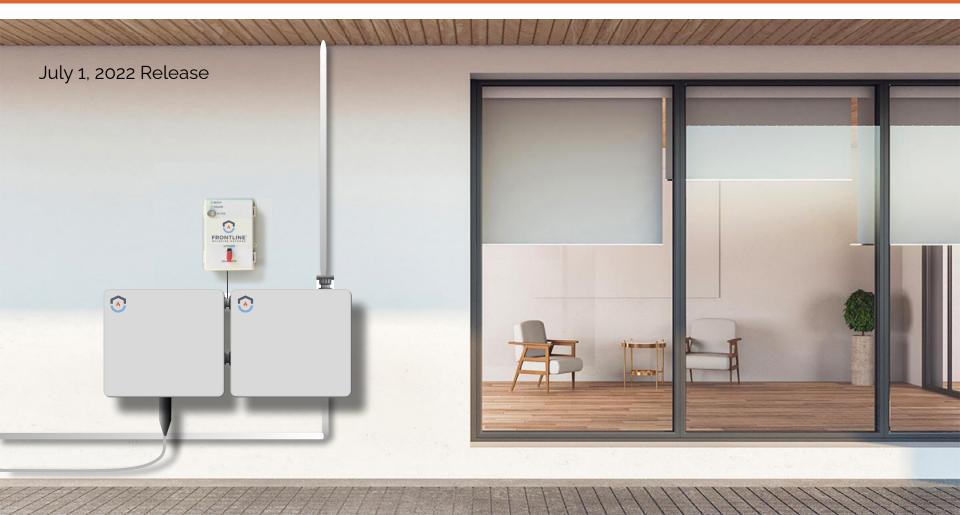
Below are the Frontline equipment schematic and a recent installation



FRONTLINE SYSTEM LAYOUT

LEGEND				
ID	QTY	DESCRIPTION	DIMENSIONS (W x H x D)	
Α	1	FRONTLINE CONTROLLER	8" x 12" x 6"	
В	1	UPS - BACKUP POWER SYSTEM	13" x 18" x 6"	
С	1	FOAM PROPORTIONER	10" x 21" x 8"	
D	1	1-6 ZONE MANIFOLD 7-9 ZONE MANIFOLD	30" x 30" x 8" [30" x 24" x 12"]	
Е	1	50 GALLON FOAM TANK [30 GALLON FOAM TANK] [100 GALLON FOAM TANK] OTHER SUEES AND FORM FACTORS CAN BE REQUESTED	38" x 22" x 19" [24" x 22" x 19"] [38" x 30" x 30"]	





Effectiveness of Exterior Sprinkler Systems



Exterior Fully Automated Fire Sprinkler Systems are an Effective Solution Recognized by the Insurance Industry

- 2nd most effective risk reduction strategy after Class A Roofing material
- More effective than defensible space or community awareness on their own
- One of four key elements of comprehensive risk reduction (Sprinklers, Structure Materials, Defensible Space, Community Program)

U.S. Wildfire Model Accounts for Structure and Mitigation

Mitigation	AAL Reduction*
Roofing Material	
Class A Roof - Highest Fire Rating - ASTM E-108	59%
Class B Roof – Moderate Fire Resistance	39%
Class C Roof – Light Fire Resistance	18%
Exterior Walls	
Fire Rated Siding	6%
Fire Rated Windows	2%
Sprinkler Systems	
External Fully Automated Sprinkler System	50%
Perimeters	
Non Combustible Zone (0-5 feet)	2%
Lean, Clean and Green (5-30 feet + above)	7%
Reduced Fuel Zone (30-100 feet + above)	31%
Community	
Fire Aware Community Program (Full Adopted)	10%
All Mitigations and Remediations Applied	
Best Structure Materials + Sprinklers + Perimeters + Community Program	96%

^{*} Using a 2-Storey Wood Frame House with Unrated Roof For Fire as the Baseline

Class A Foam Concentrate





- At the user's command, the Frontline System deploys PHOS-CHEK First Response Class A Foam Concentrate for extra protection during an imminent threat
- Foam acts as a surfactant, breaking the surface tension of the water and allowing for easier absorption into combustible materials
- Approved for use by the United States Forest Service as a Fully Qualified Class A Foam for wildland fire management
- Fully biodegradable and non-toxic



