

LEAP

BLAZESTOP



HOME FIRE SPRINKLER SYSTEM

Welcome to LEAP, a new name dedicated to providing the most advanced water systems in Australasia.

LEAP aims to improve customers' lives with innovative, sustainable, environmentally responsible water systems that deliver superior performance, without costing the earth.

We take responsibility for the environment by sourcing and developing products that are more energy and water efficient – putting less strain on natural resources.

We are proud of our ability to actively design, develop and engineer new water systems to tackle and solve old problems in new ways – we call it 'challenging the status flow'.

BLAZESTOP

AFFORDABLE, BUILT-IN FIRE PROTECTION



BLAZESTOP is an affordable home fire sprinkler system linked to a domestic water supply, putting the reassurance of sprinkler protection within reach of private homeowners. Home fire sprinklers are strongly recommended for homes in rural zones especially if the home is more than a 10 minute response time from a fire station. BLAZESTOP uses concealed sprinkler heads in the ceiling with a small cover plate, just 60mm in diameter. Where this is not possible, sidewall and pendant sprinklers are an option. Retrofitting into an existing home is also possible.

A fire in your home can be devastating, taking lives and destroying treasured possessions. Time is vital – a fire doubles in size every 30 seconds. That's why sprinkler systems are mandatory in many public buildings.

BLAZESTOP puts peace-of-mind sprinkler protection within reach of private homeowners, because it simply links to a normal domestic water supply or a tank and pump system. Installation of BLAZESTOP systems can be carried out by any registered plumber trained in the installation of the system.

Reacting instantly to heat, the BLAZESTOP sprinkler nearest the fire isolates and douses the flames, getting water where it's needed far faster than the Fire Service

might – and in far smaller amounts than they would need to use. Only the sprinkler nearest the fire activates, to allow occupants to escape in the event of a fire and prevent flashover (total involvement) in the room of the fire origin.

BLAZESTOP can be installed wherever you need it and many rooms only need one sprinkler. Sprinklers are concealed behind a white cover to blend in with the ceiling.

Depending on your home, BLAZESTOP can offer you protection against the catastrophe of fire for around the same price you'd pay for a major appliance.

TECHNICAL DETAILS

TYPES OF SPRINKLER HEADS



CONCEALED

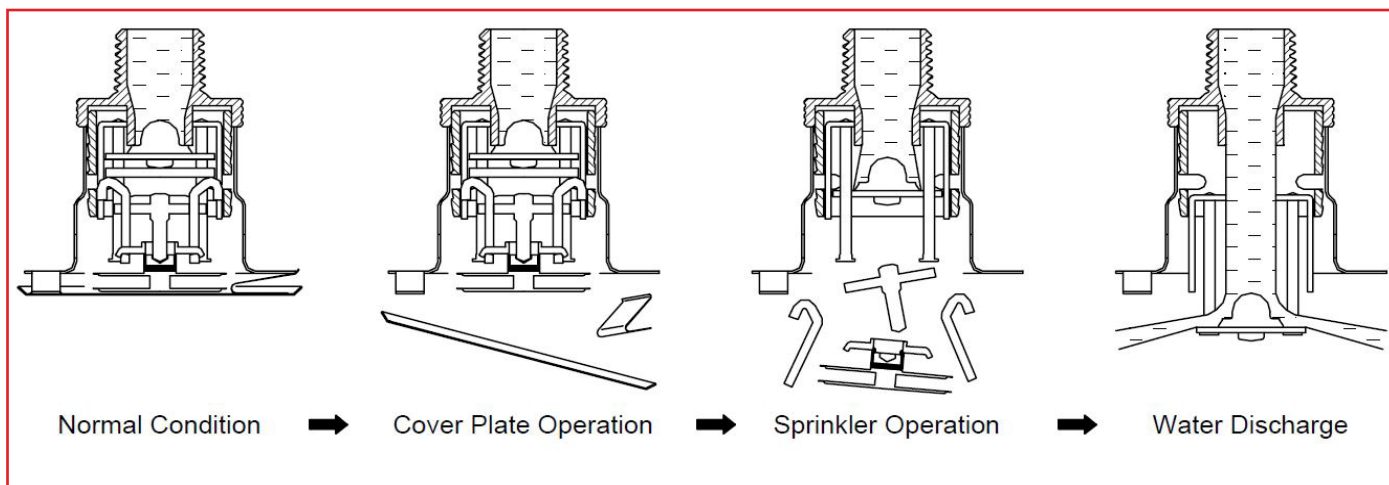


SIDEWALL



PENDANT

SPRINKLER ACTIVATION PROCESS



WATER SUPPLY

BLAZESTOP can be connected to either a local authority domestic water connection, or to a storage tank and pump system.

LOCATION

Ideally BLAZESTOP should be installed in as many rooms as possible. However, you may be able to dispense with outlets in voids or spaces above ceilings or below floors, toilets and bathrooms,

garages that are not connected directly to the home, wardrobes or cupboards (less than 5m²).

The maximum spacing between sprinklers depends on the type of sprinkler head you choose; the minimum spacing is 2400mm. Light fittings, beams or lintels that may obstruct the spray pattern need to be taken into account.

POST-INSTALLATION TESTING

After installation, the system must be pressure tested at 1500kPa for at least 15 minutes, although the pressure may need to be reduced if other products are to be included in the test.

A MHD (Most Hydraulically Disadvantaged) Sprinkler verification flow test must be conducted to ensure that the design pressure and flow are achieved at the MHD sprinkler heads.

WHY BLAZESTOP IS BETTER

DESIGN

BLAZESTOP is designed to meet New Zealand Standard NZS 4517:2010 Fire Sprinkler Systems for houses and complies with New Zealand Building Code (NZBC) Clause G12 water supplies and acceptable solution C/AS1.

LONG-LASTING

Made from durable polybutylene or cross-linked polyethylene, pipes are not affected by scaling, corrosion or microbiological growth.

ROBUST PIPING SYSTEMS

The BLAZESTOP piping system is manufactured to a strict quality management system and certified to carry the prestigious Watermark License. The polybutylene pipe and fittings are manufactured to the AS/NZS 2642.2008 Standard and multilayer piping system is manufactured to the AS 4176.2010 Standard.

DISCREET SPRINKLER HEADS

The BLAZESTOP concealed fire sprinkler heads are UL Listed and are the only sprinkler heads certified to carry the Watermark License. The concealed sprinkler heads have the smallest cover plate in the industry - only 60mm in diameter.

INDIVIDUAL ROOM RESPONSE

BLAZESTOP is triggered by heat, not smoke, and doesn't rely on electricity (unless it is a tank pump system). If the temperature in a room indicates fire, the sprinkler in that room activates automatically.

DOUSES FIRES FAST, MINIMISES WATER DAMAGE

By containing and controlling a fire in a single room, usually within three to five minutes, there's less fire and water damage. Sprinklers use 40 to 80 litres a minute, compared to 700 litres a minute used by the Fire Service.

GUARANTEES

BLAZESTOP piping systems are guaranteed for 25 years and sprinkler heads are guaranteed for 10 years against defects in material or workmanship (when they've been installed by registered plumbers following approved guidelines).

UNOBTRUSIVE

Designed especially for the home environment. Concealed sprinkler heads are set into the ceiling with only the cover plate visible.

EASY TO INSTALL

BLAZESTOP is light and flexible, making it easy and cost-effective to install, even in hard-to-reach areas. BLAZESTOP fittings don't need flame or heat-based jointing methods so they're much safer to work with, especially in restricted spaces.

AFFORDABLE

BLAZESTOP fits into any new or existing residential plumbing system.

QUIET

BLAZESTOP has none of the water-related noises and water hammer associated with metal systems.



PLEASE NOTE: This information is only a summary. Your plumber will need to contact a LEAP supplier for a copy of the Installation Manual which has other important information.

RURAL HOMES

BLAZESTOP is an affordable sprinkler system suitable for both existing homes as well as new homes built within rural zones.

The New Zealand Fire Service strongly encourages and recommends the installation of home fire sprinklers to provide maximum protection for life and property especially if the home is located more than 10 minute response time from a fire station.

The cost of installing a home fire sprinkler is significantly lower than the cost of other options required by Councils to provide fire fighting water. These options are stipulated in the New Zealand Fire Service

Firefighting Water Supplies Code of Practice, SNZ PAS 4509:2008.

This Code of Practice is a non-mandatory New Zealand Standard that sets out the requirements for firefighting water supply and access to that supply that is acceptable to Councils. It outlines the different methods to provide a sufficient firefighting water supply needed to fight a fire and to limit the spread of fire in rural zones.

Compliance for dwellings stipulated within the Code is generally achieved by one of two ways:

1. Providing a domestic sprinkler system and 7,000 litres of

dedicated firefighting water supply; or

2. Providing a minimum volume of water (45,000 litre of dedicated firefighting water supply) with a 100 mm female coupling and access to the water supply, including complying with the appropriate distance requirements (within 6 - 90 mtrs) and providing an appropriate hardstand area.

Please consult your Council for more information regarding firefighting water requirements within the required rural zone and the option of installing a home fire sprinkler system instead of installing large firefighting water tanks.

EXAMPLE OF THE TASMAN DISTRICT COUNCIL REQUIREMENTS FOR RURAL FIREFIGHTING WATER SUPPLY AT A GLANCE

Tasman District Council Rural Zone 1 and Rural Zone 2

Tasman District Council 2 August 2014 Rules Section 17.5 page 17/95

Controlled Activities (Building Construction or Alteration)

(d) Only in relation to the construction of a dwelling and not an alteration, and except where any dwelling is connected to a reticulated water supply:

Incorporating water mains fitted with fire hydrants; and

The closest fire hydrant is no more than 135 metres from the dwelling,

The dwelling is **either**:

- i. Provided with a water supply that is:
 - Accessible to fire fighting equipment; and
 - Between 6 metres and 90 metres from the dwelling; and
 - On the same site as the dwelling (except where the specified volume or flow of water is in a pond, dam, or river that is within the required distances); and

either - Stores at least 45,000 litres

or - Provides at least 25 litres per second for 30 minutes;

or

- ii. Provided with a home fire-sprinkler system that is fitted with a reliable year-round water supply;

and

- iii. Connected to a reticulated supply that is capable of supplying a potable water supply, or if such a supply is not available, the dwelling is supplied from:
 - A rainwater supply; or
 - A surface water source; or
 - A groundwater sourcethat is both reliable and potable and, where stored on site, is at least 23,000 litres in volume.

REFERENCES

HAWKES BAY LAKESIDE HOUSE



"Being out in the country we are particularly pleased with the BLAZESTOP fire sprinkler system - this gives us peace of mind. We can relax in our home knowing we are looked after."

We would absolutely recommend anyone to get a LEAP system in their home - no hesitation."

JOHN AND JUDY D
Homeowners

AUCKLAND - THE BLOCK NZ



"LEAP were great to work with and provided us with support and documentation to complete the installation of BLAZESTOP in the Block Homes."

EAGLE PLUMBING
Installers

CHRISTCHURCH STATELY HOUSE



"The BLAZESTOP system is particularly beneficial, especially in a historic house like this. Even the garage, workshop and outdoor areas are protected."

E COOK
Homeowner

GOLDEN BAY BUILDERS



"Residential Fire Sprinkler Systems have come a long way from years gone by LEAP BLAZESTOP SPRINKLERS are very minimalist and stylish. LEAP provide really good detailed designs that are easy to understand and clear to follow."

LEAP BLAZESTOP SPRINKLER systems are affordable and I had my insurance premiums reduced."

S CHAMBERLAIN
Builder/Homeowner

ABEL TASMAN - CHAPLIN BUILD



"As an Architect designing and building a retirement home in the remote location of Golden Bay, the new council requirements for firefighting for new rural residential homes caught me unaware."

Added to the conundrum was the Xlam construction of the house, which limited the running of piped services. The Leap sprinkler resolved this problem in an economic and discrete way."

J CHAPLIN
Registered Architect

WANGANUI - HOME BUILD



"I wanted to say I was really impressed with the help from LEAP to get the designs for council in a short time before holidays."

B & J MORGAN
Homeowner

FOR MORE INFORMATION ABOUT BLAZESTOP CALL

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