

# Out of fire came Blueproof™ from BLUERAD

## Technical presentation



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[www.bluerad.eu](http://www.bluerad.eu) 



**Blueproof™**

**Update for Scotland Nov 2016**

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Simplicity by design

# What is Blueproof™?



A device designed to release water where  
and when it is needed most in a fire



## Easily installed on radiator(s)



To Provide water where and when it is needed the most in a fire.

Blueproof™ does not need a separate supply.

Thousands installed with no leaks or failures



# Providing protection against the effects of smoke and fire (proven)

Photo Flickr



# The content of your radiator starts to boil

The pressure rises faster  
than the water can escape  
'Blocked in pressure'



The material opens with the heat and pressure



A close-up photograph of a nozzle tip. The nozzle is white and has a multi-faceted, petal-like shape at its tip, designed to reduce nozzle shock. The nozzle is set against a light-colored, textured background. A black banner with white text is overlaid at the top.

**Forming a nozzle at its surface**

The optimal shape to  
reduce nozzle shock



The volume of water **expands** by approximately **1700** times its liquid volume when released

# Water vapour condenses on windows and other cooler surfaces

It moves to available space, such as floors and adjacent rooms.



**Where are we now and where  
are we going?**



Richard Lloyd, executive director,  
Which? :  
"More needs to be done to  
protect consumers from this risk  
and it is crucial that products  
known to be dangerous are  
recalled as quickly as possible."





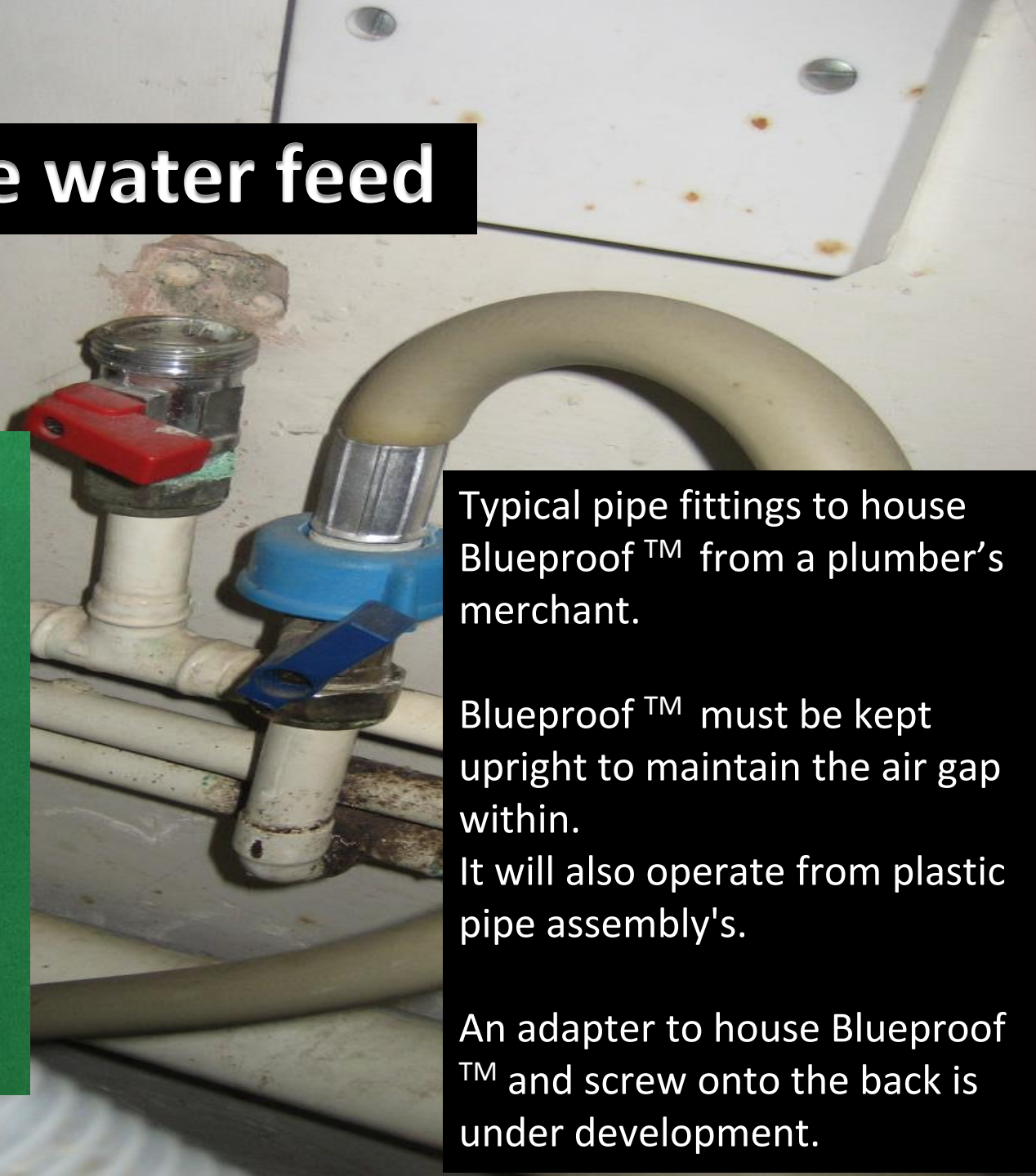
Water is already available at the rear of domestic appliances.

On exposure to fire Blueproof™ forms a nozzle on its surface and releases the water into the fire.

Sited in the vapour space above the liquid level it does not calcify or gather magnetic particles that may block it.

In terms of Risk 1. Washing machines  
2. tumble dryers, 3. dishwashers  
ref: Which?

## Located off the water feed



Typical pipe fittings to house Blueproof™ from a plumber's merchant.

Blueproof™ must be kept upright to maintain the air gap within.

It will also operate from plastic pipe assembly's.

An adapter to house Blueproof™ and screw onto the back is under development.



# Future scenario Ireland

Once Blueproof™ activates from a wall-mounted unit it will suppress the fire.

**Questions?**