



RESIDENTIAL FIRE PROTECTION FOR A LIFETIME



THE IDEAL
RETROFIT AND
NEW BUILD FIRE
PROTECTION
SOLUTION FOR
HELPING YOUR
COMPANY
GROW AND BE
SUCCESSFUL

BlazeMaster[®]
FIRE PROTECTION SYSTEMS





TECHNOLOGY YOU CAN TRUST

Since 1984, BlazeMaster® Fire Sprinkler Systems have provided fire protection to commercial and residential properties across the U.K. These properties include, but are not limited to, the Callow Mount high rise retrofit project in Sheffield and many of the pilot projects in Wales responding to legislation for all new homes to be sprinkler protected.



AFFORDABLE & RELIABLE FIRE PROTECTION

PRODUCT FEATURES & BENEFITS

- Technology composed of flame-resistant pipe engineered for ease of installation and dependability.
- One-step joining system for reduced labour costs.
- Eliminates the need for costly tools and equipment.
- Proven resistance to corrosion in all environments.
- Expert consultation regarding compliance with local, regional and national codes.
- Hands-on training and installation available to all installers.

AVAILABILITY AND SIZING

BlazeMaster® Fire Sprinkler Systems are available worldwide through a network of manufacturers.

SIZING

- Pipe: ASTM F442 in ¾" to 3" or 20mm to 76mm (SDR 13.5 Iron Pipe Size)
- Fittings: ASTM F437 or F438 in ¾" to 1¼" or 20mm to 32mm; ASTM F439 in 1½" to 3" or 38mm to 76mm

BlazeMaster®
FIRE PROTECTION SYSTEMS



LISTINGS, APPROVALS AND APPLICATIONS

BlazeMaster® Pipe & Fittings are UL listed, FM Global and LPCB approved, and WRAS certified for residential applications.

BS 9251:2014

BlazeMaster® Fire Sprinkler Systems can be used in all three categories of system under BS 9251:2014 from single family dwellings and HMO's up to care homes, student accommodation and high-rise residential blocks.



ADVANTAGES OVER STEEL

- Fits into tighter spaces faster, easier and quieter. Ideal for retrofits.
- Consistent Hazen-Williams C Factor of 150. Steel has a starting C Factor of 120 but is susceptible to corrosion over time lowering this figure.
- Lower environmental impact.
- Easy to handle — no special transport equipment required.
- Faster, cleaner installation.
- Resistant to corrosion, even in salt air environments.

BLAZEMASTER PIPE & FITTINGS PERFORMANCE IS UNMATCHED

- BlazeMaster® pioneered the use of non-metallic fire sprinkler systems.
- Higher impact resistance on fittings and higher level ASTM Material classification over alternative CPVC.
- FBC System Compatible program offers authoritative source on chemical compatibility with ancillary products.
- Comprehensive training and installation process.



INSTALLATION

CPVC

- Quick and simple installation
- Hand tools only, no power source needed
- Solvent cement only, no heat required
- Easy fit in tight spaces

PP-R

- Costly power tools and electrical source required
- Requires additional space
- Takes longer to install

PIPE DIAMETER



LARGER ID = BETTER FLOW

Because of the strength of its material, BlazeMaster® Fire Sprinkler Systems have a larger ID than PP-R pipe of the same diameter. Delivering a better flow rate at smaller pipe size which results in cost savings.

PP-R

PP-R fusion welding causes bead formation in pipes, which can lead to reduced flow rate, friction and increases potential for deposits.

OTHER ADVANTAGES OVER PP-R

- No need for Hot Works permit.
- FM approved for concealed and exposed (residential) applications.
- In the event of a fire, will not sustain a flame and is not combustible.
- Comprehensive installation training and free consulting.
- BlazeMaster® Fire Sprinkler Systems are UL listed and WRAS approved for potable water applications.

BENEFITS OF A BLAZEMASTER® FIRE SPRINKLER SYSTEM

ENVIRONMENTAL IMPACT


A study completed by FM Global and the Home Fire Sprinkler Coalition in April 2010 lists the key benefits of using a BlazeMaster® Fire Sprinkler System.

- 98% fewer greenhouse gases released by burning buildings
- 97% less overall fire damage
- 90% less water used to fight residential fires

PROTECTING AGAINST THE DANGERS OF MODERN HOME CONSTRUCTION

Over the last 25 years, homes have been built more economically, utilizing lightweight construction techniques and products. While cost-effective, this method can lead to a much faster burn time and greater destruction of property.

- A BlazeMaster® Fire Sprinkler System reacts quickly and provides additional escape time from burning structures.
- Increases chance of survival by 80%.*
- Reduces property loss by 70%.*



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*Fire Sprinkler Initiative: firesprinklerinitiative.org





THE TRUTH ABOUT **BLAZEMASTER®** FIRE PROTECTION SYSTEMS

MISCONCEPTION	FACT
“When a fire occurs, every sprinkler will go off and ruin the whole house.”	Only the fire sprinkler closest to the fire wall will activate. Approximately 85% of the time, just one sprinkler operates.
“Burnt toast could set them off.”	Sprinkler heads are not triggered by smoke, they activate only when they sense extreme temperatures between 135°F and 165°F (57°C and 74°C).
“They’re ugly – they’ll ruin the look of the house.”	New sprinkler models can be mounted flush with walls or ceilings and concealed behind decorative coverings.

ADDITIONAL RESOURCES

British Automatic Fire Sprinkler Association: bafsa.org.uk

National Fire Sprinkler Network: nfsn.co.uk

European Fire Sprinkler Network: eurosprinkler.org



FBC SYSTEM COMPATIBLE

A range of ancillary products are tested to ensure chemical compatibility with BlazeMaster® Pipe and Fittings, including thread sealants, construction materials and firestops.

Visit FBCSystemCompatible.com for a full list of compatible products and proceed with confidence.

TRAINING & EDUCATION

To ensure proper installation, BlazeMaster® Fire Sprinkler Systems offer comprehensive in-person and online training for installers, contractors, engineers and construction managers. Training covers cutting and joining, listings and approvals, chemical compatibility, best practices, health and safety and more. Those who successfully complete the course receive a BlazeMaster training card and certificate of completion.

MANUFACTURING NETWORK

BlazeMaster® Fire Protection Systems partners with the top pipe and fittings manufacturers across the globe to ensure quality control and meet the most rigid specifications.

tyco
Fire Protection Products

VIKING®

NIBCO®
AHEAD OF THE FLOW™

+GF+
HARVEL®

DELIVERING RELIABILITY. FOR LIFE.



BlazeMaster®
FIRE PROTECTION SYSTEMS

Visit blazemaster.eu or call 00 44 (0)1332 842211
or email blazemaster.emena@lubrizol.com to
contact a piping systems consultant.

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