

# Fire protection

## AQ3000 specification

### Design Statement

BS9251: 2014 - Residential and domestic fire sprinklers

#### Defined area

Full or Part systems – As specified

#### System Type

The system is a wet pipe system in accordance with BS9251: 2014  
Mains water or boosted cold water connected system.

#### Sprinkler Heads

Residential type recessed sprinkler heads, with flat cover plates  
A fire sprinkler head will activate when a fire reaches the temperature of 68 Deg C at ceiling level

#### Water Supply

The sprinkler system will utilize mains water supply.

#### Hydraulic Calculations

The flow rate will be approximately 50 lit/min per head operated, but will vary on design coverage.

#### Pipe Work

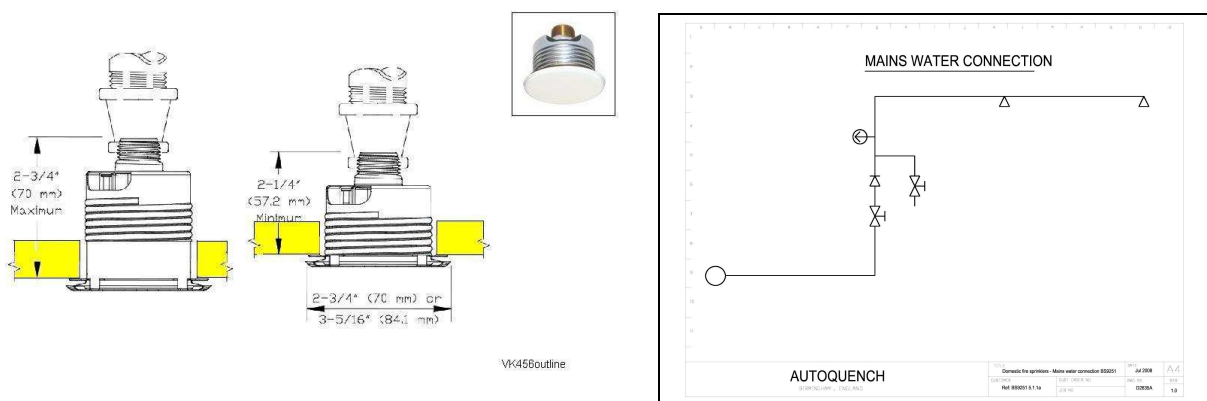
Approved CPVC Blazemaster pipe work and fittings, or equivalent copper pipe and fittings. Finished pipe work to be hydraulically tested to 1.5 x working pressure.

#### Alarm

Flow switch on valve set or supply manifold to be connected to an audible alarm and will sound on sprinkler activation or when test valve is opened.

#### Certification

The finished system will be commissioned by Autoquench, who will issue a completion certificate.



#### Note

This AQ3000 system can be used for single domestic dwellings, HMO's, blocks of apartments and residential homes. The size of the mains water feed will depend on the system design, and type of premises. If the mains water supply pressure is too low, or unable to supply the volumes of water required by the sprinkler system, then a dedicated tank and pump will be required. For high rise blocks we recommend upgrading the boosted cold water supply to include provision for the fire sprinkler requirements.