

# Fire protection

## AQ3000 case study

Mixed housing development– Residential fire sprinklers

### Project

Beechwood Grange is a mixed development of 33 quality houses in seven distinctive styles ranging from 3 bedroom terraced to 5 bedroom detached homes. Located in the West Midlands, the Developer KingsOak is a major homebuilder.

### Fire risk analysis

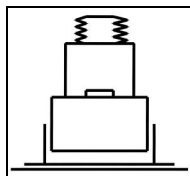
Access for Fire Tenders was difficult due to the width of the roads and the distance from the existing highway. This access issue is now formalised in the new edition of Building Regulations Document B: April 2007, together with the acceptance of domestic fire sprinklers.

### Further information

Tel.  
+44 (0)121 693 6888  
Fax  
+44 (0)121 430 6007  
E-mail  
mail@autoquench.co.uk

### Internet sites

[www.autoquench.co.uk](http://www.autoquench.co.uk)



### Solution

Full residential fire sprinklers were installed in all 33 houses to comply with Fire Service recommendations. Two water supplies were provided to each property, a 32mm MDPE non-metered supply for the fire sprinklers, and a 25mm MDPE conventional metered supply for the domestic water. Schemes were designed for each of the seven house styles using concealed CPVC pipe work and modern recessed sprinklers. The systems were fitted during the normal build phase, causing no disruption or delay to construction times. All habitable areas were protected in accordance with BS9251:2005 and compact electronic alarm packs fitted to provide a modern and elegant solution for this popular development.



Members of the Fire Prevention Association

Autoquench Ltd, Priory House, 132 Priory Road, Hall Green, Birmingham, B28 0TB, England  
[www.autoquench.co.uk](http://www.autoquench.co.uk)



AQ3000CaseStudy9a