

Datasheet

Residential Sprinklers – BS9251:2014 summary

Scope

Code of Practice for the design, installation, components, water supplies and testing of automatic fire sprinkler systems for the use in domestic and residential occupancies.

Category 1 - Individual domestic dwellings, small HMO's, B&B's, Blocks of flats less than 18m in height¹

Category 2 - Blocks of flats over 18m in height², small residential homes (less than 10 residents)

Category 3 - Residential homes, including Care and Nursing homes, Dormitories and Hostels

¹ **Becomes Category 2** if communal rooms/corridors require sprinkler protection)

² **Becomes Category 3** if communal rooms/corridors require sprinkler protection)

Water supply

Town main water supply, boosted mains or pumped/stored water

Extent of protection

Habitable areas except bathrooms less than 5m² and cupboards less than 2m².

Non-occupied roof spaces and basements can be omitted.

Full or partial systems with relevant agreements.

Typical water flow requirements

Category 1/2 Up to 100 litres/min (2 heads operating)

Category 2 Up to 200 litres/min (4 heads operating)

Water pressure requirements

By hydraulic calculation. Typically 3 bar supply at ground floor level.

Stored water requirements (when mains water connection is not available)

Category 1 10 minutes

Category 2/3 30 minutes

Pipe work

Copper or approved plastic, pressure tested on completion to 1.5x working pressure for 1 hour.

Sprinkler type

Quick response thermal residential types, concealed or surface fitted.

Coverage

Up to 25 m² per sprinkler head depending on Category and coverage density.

Alarm signaling

Recommended audible alarm when a sprinkler activates.

Maintenance

Recommended full service inspection and test each 12 months by RSA qualified inspector.

Residential or special cases may require servicing at more regular intervals.