

# Sandy Springs Fire Department Fire Marshal's Office

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## Recommended Sprinkler Guidelines

For Kitchens and Fuel Fired Mechanical Rooms in single family residences closer than 20 feet to another residential structure

On Wednesday, November 8, 2006, the City Council passed the City's Fire Prevention and Protection Code. The ordinance is effective for all plans submitted for site or building permit after this date.

The requirement for single family residential homes, duplex and town homes is as follows:

"1.11.4 All new one-family and two-family dwellings with a fire separation distance of less than twenty (20) feet from another dwelling structure, must be sprinkled with an approved automatic fire protection system in accordance with NFPA 13D as adopted by the Office of the Insurance and Safety Fire Commissioner in the kitchen and fuel fired equipment rooms."

The Sandy Springs Fire Marshal's Office has adopted the following policy for installation of multipurpose piping systems for combination plumbing and fire sprinkler systems in one-and-two family dwellings.

### Sprinkler heads and spacing

- The maximum protected area is 144 square feet and not over 12 feet in any direction and no more than 6 feet of any wall. The minimum spacing shall be 8 feet. The minimum flow shall be 13 gpm for the hydraulically most remote head. The maximum number of sprinkler heads permitted off of the domestic system is six.
- Sprinkler heads shall be listed for UL 1626 or FM 2030 and shall be "quick response" type heads. All sprinklers shall be ordinary temperature-rated 135°F to 170°F residential, ½" minimum orifice shall be used in the conditioned spaces. Sprinklers in fuel fired mechanical rooms can be intermediate temperature-rated sprinklers temperature rating of 175°F to 225°F (79°C to 107°C). "Low flow" heads are recommended.
- Placement of sprinklers on sloped ceilings shall follow manufacturer's guidelines (the head shall be parallel to the slope of the ceiling).
- Sprinklers located in rooms with no ceilings must be located no less than 1" and no more than 12" from the structure above. No electrical panels shall be located within 12 feet of a sprinkler head unless shielding is provided. Sprinkler guards must be used in all mechanical rooms.

### Supply piping and layout:

- Minimum pipe size supplying domestic water system shall be 1" nominal diameter for a looped system, 1 ¼" if fed from a single line. Non-listed piping including schedule 40 PVC may be used. Pipes, hangers, waterflow detection devices, and waterflow valves shall not be required to be listed. Piping and fittings should withstand a working pressure of not less than 175psi. The minimum operating pressure of any sprinkler shall be the higher of the minimum operating pressure specified by the listing or 7 psi (0.5 bar).
- Install a gate or ball valve on the upstream of the sprinkler and pressure reducing valve. Attach pipe supplying the sprinklers on the downstream side of the gate valve ball valve and upstream side of the pressure reducing valve.
- A single control valve arranged to shut off both the domestic system and the sprinkler system shall be installed unless a separate shutoff valve for the sprinkler system meets the following:

The sprinkler system piping shall not have a separate control valve installed unless supervised valves that are locked open or as approved by the Fire Marshal's Office.

The single control valve shall clearly be marked with permanent signage indicating "auto sprinkler shut-off."

- A paddle waterflow alarm shall be permitted to be installed.
- Where piping is subject to freezing such as in attics, provide one layer of polyethylene and one layer of R-30 over the piping.

### Sprinkler installation:

- The system must be installed by either a licensed plumber or fire protection contractor in Georgia.
- All sprinklers must be installed in accordance with the Design Criteria of the sprinkler manufacturer.

### Other technologies:

- The Fire Marshal's Office will consider equivalent or greater technologies upon submission.

### Enforcement:

- The Sandy Springs Building Department shall enforce the above provisions. The Sandy Springs Fire Department may act as a consultant to the Building Department at their request. Such consultation can include inspections with a report of findings to be issued by the Building Department.