

Cherokee County Building Department has one local amendment regarding residential sprinklers in drive-under garages. This local amendment is on file with the GA Department of Community Affairs as required. A copy of this local amendment is available upon request.

Local amendment: Residential Sprinklers in drive-under garages: This standard applies only to those sprinkler application in drive-under garages where the water supply is metal piping or approved plastic pipe for sprinkler application. This standard would not apply where the water service supply is from a well.

System Design Requirements:

1. The water supply for the sprinkler heads shall be provided by a minimum $\frac{3}{4}$ inch water supply line. Metal piping or approved plastic piping must be used to connect to sprinkler heads. Piping shall be a minimum $\frac{3}{4}$ inches in the protected area.
2. A back flow prevention device shall be installed when the sprinkler piping from the point of connection to the domestic water system to the end of the sprinkler piping exceeds 15 feet. (Exception: When the piping for the sprinkler is reconnected to the domestic water supply creating a loop in the system to allow the water in the system to circulate.)
3. Provisions shall be made to protect the piping from freezing in unheated areas.

Sprinkler Heads:

1. Only listed residential quick response sprinkler heads with a maximum $\frac{7}{16}$ inch orifice shall be installed.
2. The total garage area or the total compartment space between separations shall be protected. A lintel extending 8 inches below the ceiling height shall be considered a separation.
3. Spacing of sprinkler heads shall be in accordance with manufacturer's specification but not to exceed 144 square feet of coverage per single sprinkler head.
4. The minimum distance between sprinkler heads within a compartment shall be 8 feet.
5. Pendant and upright sprinkler heads shall be positioned so that the deflectors are within 1 to 4 inches from the ceiling.
6. Sidewall sprinkler heads shall be positioned so that the deflectors are within 4 to 4 $\frac{1}{2}$ inches from the ceiling.
7. A minimum of 18 inches of clearance shall be provided around the sprinkler head.

Alarms:

1. Interconnected hard-wired smoke detectors shall be installed in garage area in accordance with the National Fire Protection Association, 72 National Fire Alarm Code, 1993 edition.
2. Carbon monoxide detector shall be installed in the living space above the garage area in accordance with manufacturer's recommended installation procedures.