



# Athens-Clarke County Fire & Emergency Services



## 4.1.2 Fire Marshal's Office 80% Inspection Checklist

### General

This document intends to provide contractors with guidelines outlining the expectations and procedures for how the Athens-Clarke County Fire Marshal's Office will conduct an 80% sprinkler inspection. This document addresses the most common aspects of a fire sprinkler 80% inspection.

Rough-In / Cover	Pass	Fail	N/A
<b>1. Concealment</b> - No drywall or other coverings shall be permitted to conceal any components of the fire sprinkler system until after the Rough-In/Cover Inspection has been completed and approved by the fire code official.			
<b>2. Scheduling</b> - The contractor shall schedule the inspection by calling 706-613-3365. Inspections will be scheduled for the next available appointment.			
<b>3. Approved Plans</b> - Consult Approved/Stamped set of plans.			
<b>4. Size &amp; Type of Piping</b> - Verify the proper type and size of piping.			
<b>5. Changes</b> - Confirm the installation of the piping does not have excessive changes of directions that are not indicated on approved plans. (Excessive use of extra fittings, such as elbows, may affect hydraulic calculations).			

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Rough-In / Cover Inspection Continued	Pass	Fail	N/A
<b>6. Penetrations</b> - All piping penetrations through fire-rated assemblies have been properly sealed by an approved method. Fire-stopping materials intended for use on nonmetallic piping penetrations shall be investigated for compatibility with the nonmetallic pipe materials.			
<b>7. Hanger/Bracing/Supports</b> - Piping hangers, sway bracing, and supports shall be installed as per plans and NFPA 13 17			
<b>8. Compatibility</b> - When working with CPVC, special consideration is necessary when in contact with other materials or chemicals. (See manufacturer's guidance on installation and compatible materials.)			
<b>9. Non-System Components</b> - Sprinkler piping or hangers shall not be used to support non-system components such as ducting, electrical wiring, and cabling.			
<b>10. Sprinkler Verification</b> - Verify locations, type, and temperature of sprinkler heads.			
<b>11. Sprinkler Obstructions</b> - Proper clearance of sprinkler heads from obstructions.			
<b>12. Sprinkler Spacing</b> - The distance from sprinklers to walls shall be a minimum of 4 inches and not exceed one-half of the allowable distance between sprinklers.			
<b>13. Sprinkler Spacing</b> - Check for correct distances between sprinkler heads, maximum coverage per sprinkler heads, suspended ceilings, and distance below the roof deck.			
<b>14. Inspector Test</b> - Check for installation of the orifice in the inspector's test. (The orifice shall be the same size as the smallest orifice installed in the system.)			
Rough-In / Cover Inspection Continued	Pass	Fail	N/A

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<b>15. Painted Sprinklers</b> - Check to ensure fire sprinklers are not painted. Painted fire sprinklers shall be replaced; they shall not be cleaned.			
<b>16. Valve Locations</b> - All control, auxiliary, and inspector test valves shall not be located more than seven feet above the finish floor or grade.			
<b>17. Protection Against Freezing</b> - A wet pipe system shall be used where piping is installed in areas that can be maintained reliably above 40°F (4°C). Piping in areas that cannot be maintained reliably above 40°F (4°C) shall be protected by the use of one of the following methods: <ul style="list-style-type: none"><li>• Dry pipe system</li><li>• Pre-action System</li><li>• Heat tracing</li><li>• Listed dry pendent, dry upright, or dry sidewall sprinklers extended from the pipe in heated areas</li></ul>			
<b>18. Insulation</b> - Piping covered by insulation per manufacturer recommendations or proper tenting.			

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