Engineering Specification

Model J112SS Stainless Steel Extended Coverage

Automatic Sprinklers

**Recommended CSI MasterFormat Specification Location: 21 13 00, Fire Suppression Sprinkler Systems (formerly 13930)**

Sprinklers shall be a **[**quick**] [**standard**]** response, extended coverage **[**pendent**] [**upright**]** that is cULus Listed. Sprinkler frame and deflector shall be of Type 316 stainless steel construction having a **[**¾” NPT**] [**ISO 7-1R¾**]** thread. Water seal assembly shall consist of a Beryllium-nickel alloy gold plated sealing washer per MIL-G-45204, Type 3, Class 2 with PTFE tape on both sides, and top-loaded extruded cup with 3 mm glass bulb containing no plastic parts. Sprinkler temperature rating shall be **[**155°F (68°C)**] [**200°F (93°C)**] [**286°F (141°C)**]**. Sprinklers shall have a nominal K-factor of 11.2 gpm/psi1/2 (160 l/min/bar1/2) – extra large orifice. Sprinklers shall have a rated working pressure of 175 psi (12 bar). Standard finish: **[**None**] [**White Polyester**] [**Black Polyester**] [**Custom Color Polyester – Specify**]**.

Sprinklers shall be of the Model J112SS Stainless Steel Series. Refer to Reliable Bulletin 178 for associated sprinkler identification number (SIN) with respect to style, orifice size and thread combination.

**For recessed sprinklers, add**:

**{**Recessed escutcheon assembly shall be a factory-assembled, two-piece steel escutcheon of Type 316 stainless steel alloy construction, push-on and thread off design with ½” adjustment. Standard finish shall be **[**None**] [**White Polyester**] [**Black Polyester**] [**Custom Color Polyester – specify**]**.**} {**Recessed escutcheon assembly shall be a two-piece “friction fit” escutcheon of Type 316 stainless steel alloy construction, with ¾”(19 mm) adjustment. Standard finish: **[**None**] [**White Polyester**] [**Black Polyester**] [**Custom Color Polyester – specify**]**.**}**

Recessed escutcheons that are listed for use with the Model J112SS recessed sprinkler shall be used.

**For Specific Application Criteria for Use Under Concrete Tee Construction, add:**

Pendent and upright sprinklers shall be cULus Listed for installation under concrete tee construction in accordance with the following specific application criteria:

* Max. Tee Depth: 2’- 6” (0.8m)
* Max. Tee Stem Spacing: 7’- 6” (2.3m)
* Min. Tee Stem Spacing: 3’- 0” (0.9m)
* Max. Tee Length: 32’- 0” (9.8m) or baffles not less than the depth of the tees must be installed so that the longitudinal space between baffles does not exceed 32ft (9.8m) in length.
* Max. Deflector distance below Tee: 1” (25mm)
* Comply with obstructions to the Sprinkler Discharge Pattern Development requirements of the NFPA13 where deflector is located above bottom of tee.