Engineering Specification

Model F1FR-SS Series Stainless Steel Quick Response

Automatic Sprinklers

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

Sprinklers shall be a quick response, standard spray **[**upright**] [**pendent**]** that is **[**cULus Listed**] [**FM Approved**]** as Corrosion Resistant. Sprinkler frame and deflector shall be of Type 316 stainless-steel alloy having a [½” NPT**]** [¾” NPT**]** thread. Water seal assembly shall consist of a 3 mm glass bulb operating element and beryllium-nickel sealing washer with PTFE tape on both sides. Sprinkler temperature rating shall be **[**135°F (57°C)**] [**155°F (68°C)**] [**175°F (79°C)**] [**200°F (93°C)**] [**286°F (141°C)**]**. Sprinklers shall have a nominal K-factor of **[**5.6 gpm/psi1/2 (81 l/min/bar1/2) – standard orifice**] [**8.0 gpm/psi1/2 (115 l/min/bar1/2) – large orifice**]**. Sprinklers shall have a rated working pressure of 175 psi (12.1 bar). Standard finish: **[**None**] [**White Polyester**] [**Black Polyester**] [**Custom Color Polyester**]**.

Sprinklers shall be of the Model F1FR-SS Series Stainless Steel Sprinklers. Refer to Reliable Bulletin 065 for associated sprinkler identification number (SIN) with respect to style, orifice size and thread combination.

**For recessed pendent sprinklers, add**:

**{**Two-piece stainless-steel recessed escutcheon assembly shall be a factory-assembled, push-on/thread-off design with ½” adjustment. Standard finish: **[**None**] [**White Polyester**] [**Black Polyester**] [**Custom Color Polyester**]} {**Two-piece stainless-steel recessed escutcheon assembly shall be a factory-assembled, “friction-fit” design with **[*Model F2 escutcheon:*** ½” (13 mm)**] [*Model F1 escutcheon:*** ¾”(19 mm)**]** adjustment. Standard finish: **[**None**] [**White Polyester**] [**Black Polyester**] [**Custom Color Polyester**]} {**One-piece escutcheon shall be stainless steel. Standard finish: **[**None**] [**White Polyester**] [**Black Polyester**] [**Custom Color Polyester**]**.**}**

Escutcheons that are permitted by the manufacturer to be used with each Model F1FR-SS Series recessed sprinkler shall be used.