Engineering Specification

Model F1Res Series Pendent Glass Bulb Residential Sprinklers

**Recommended CSI MasterFormat Specification Location: 21 13 13, Wet-pipe Sprinkler Systems (formerly 13930)**

Sprinklers shall be residential type cULus Listed for installation in accordance with NFPA 13, NFPA 13R, and NFPA 13D. Residential sprinklers shall be installed in conformance with the manufacturer’s installation guidelines and the applicable installation standard. Sprinkler body shall be of bronze alloy construction having **[**½” NPT**] [**ISO7-1R1/2**] [*7.6K sprinklers only:*** ¾” NPT**] [**ISO7-1R3/4**]** threads. Thermal element shall consist of a 3mm glass bulb. Sprinkler K-factors shall be **[**3.0 gpm/psi1/2 (43.2 l/min/bar1/2)**] [**4.9 gpm/psi1/2 (70.6 l/min/bar1/2)**] [**5.8 gpm/psi1/2 (84 l/min/bar1/2)**] [**7.6 gpm/psi1/2 (109 l/min/bar1/2)**]**. Sprinkler temperature classification shall be **[**Ordinary 155°F (68°C)**] [**Intermediate 175°F (79°C)**]**. Sprinkler finish to be **[**brass**] [**white**] [**chrome**] [**special – specify**]**.

**For recessed sprinklers, add**:

Recessed pendent sprinklers shall be installed with listed 2-piece escutcheons offering a minimum of **[**¾” (19mm)**] [*3.0k sprinklers only:*** ½” (12.7mm)**]** of adjustment. Deflector to be located between 1¼” and 1¾” below the ceiling. Escutcheon color to be **[**brass**] [**white**] [**chrome**] [**special – specify**]** consistent with sprinkler finish.

**For concealed sprinklers, add**:

Conical concealed pendent sprinklers to utilize a listed and approved cover plate attached to a factory installed cup. Cover plate must offer a minimum of ½” (12.7mm) of adjustment. Deflector to be located between ½” and 1” below the ceiling. Cover plate finish to be **[**chrome**] [**white**] [**special finish – specify**]**.

Residential sprinklers shall be Reliable Model **[**F1Res30, SIN R3511**] [**F1Res49, SIN R3516**] [**F1Res58, SIN R3513**] [**F1Res76, SIN R7618**]**.