Engineering Specification

Model SWC Concealed Quick Response Extended Coverage

Horizontal Sidewall Automatic Sprinklers

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

Sprinklers shall be quick-response extended coverage concealed horizontal sidewall sprinklers that are cULus Listed for Light Hazard occupancies. Sprinklers to be of bronze frame construction with brass cover plate and copper alloy retainer flange assembly. Water seal assembly shall consist of a PTFE coated Belleville spring washer and machined brass cup with 3 mm glass bulb containing no plastic parts. Method of attaching the cover plate to the sprinkler cup shall be a push-on and pull-off design allowing a ½” (13 mm) cover plate adjustment. Sprinklers shall have a nominal K-factor of 8.0 gpm/psi1/2 (115 l/min/bar1/2) and ¾” NPT thread. Sprinkler temperature rating shall be **[**135°F (57°C)**] [**165°F (74°C)**]** with a cover plate temperature rating of 135°F (57°C). Sprinklers shall be capable of a maximum coverage area of 16 ft. x 22 ft. (4.9 m x 6.7 m), with a minimum lateral spacing of 8 ft. (2.4 m). Rated working pressure shall be 300 psi (20.7 bar). A plastic protective cap shall be provided and factory installed inside the sprinkler cup to protect the sprinkler from damage, which could occur during construction before the cover plate is installed. Standard cover plate finish: **[**White**] [**Chrome**] [**Custom Finish – specify**]**.

Concealed quick-response extended coverage horizontal sidewall sprinklers shall be Reliable Model SWC, SIN RA5962, Reliable Bulletin 163.