**A Complete Line of Sidewall Sprinklers**

1. **Model G Vertical Sidewall-Upright.**
2. **Model G Vertical Sidewall-Pendent.**
3. **Model G Horizontal Sidewall-HSW1 Deflector.**
4. **Model G/F1/HSW1 Recessed Horizontal Sidewall-HSW1 Deflector.**
5. **Model G Extended Coverage Horizontal Sidewall-EC4 Deflector.**
6. **Model G/F1/EC4 Recessed Extended Coverage Horizontal Sidewall-EC4 Deflector.**
7. **Variety of finishes.**
8. **Multiple orifice sizes.**

**Product Description**

All Reliable Model G Automatic Sidewall Sprinklers utilize the center strut in compression principle of construction. The fusible alloy, retained in the cylinder of a small solder capsule by a stainless steel ball, acts as the trigger of the sprinkler. When the fusible alloy melts, the sprinklers operating parts spring free from the sprinkler, clearing the water way and allowing the sprinkler to distribute the discharging water.

**Sidewall Sprinkler Types:**

**Model G Vertical Sidewall Sprinkler**

The Model G Vertical Sidewall Sprinkler is designed for use in light hazard situations where standard sprinklers are deemed impractical because of decorative or structural conditions. It discharges approximately 15% of the water on the wall behind it with the remaining 85% discharged in front of the sprinkler. This sprinkler may be installed in either the Upright or the Pendent position.

**Model G Horizontal Sidewall Sprinkler–HSW1 Deflector**

This deflector configuration is designed and listed for use in either light or ordinary hazard occupancies. The use of the Model G Horizontal Sidewall Sprinkler in ordinary hazard occupancies will provide installation simplicities and economies in many circumstances.

**Model G/F1/HSW1 Recessed Horizontal Sidewall Sprinkler-HSW1 Deflector**

The combination of the Model F1 Recessed Escutcheon and the Model G Horizontal Sidewall Sprinkler-HSW1 Deflector provides a very attractive recessed sprinkler for use in light hazard occupancies.

**Model G Extended Coverage Horizontal Sidewall Sprinkler-EC4 Deflector**

The Model G Extended Coverage Sprinkler is listed for the protection of larger than normal areas in light hazard occupancies.

**Model G/F1/EC4 Recessed Extended Coverage Horizontal Sidewall Sprinkler-EC4 Deflector**

The combination of the Model F1 Recessed Escutcheon and the 17/32” (20mm) orifice x ¾” NPT (R¾) Model G Horizontal Sidewall Sprinkler-EC4 Deflector provides a very attractive recessed sprinkler for use in larger than normal areas in light hazard occupancies.
Model G Extended Coverage Horizontal Sidewall Sprinkler — EC4 Deflector

Technical Data
Length: 3\(\frac{3}{16}\) (84mm) - \(\frac{1}{2}\) (15mm) Orifice Sprinkler
3\(\frac{1}{16}\) (90mm) - \(\frac{17}{32}\) (20mm) Orifice Sprinkler
Rating: 135°F (57°C)
Max. Ambient Temp. 100°F (38°C)

Technical Data

<table>
<thead>
<tr>
<th>Nominal Orifice</th>
<th>Thread Size</th>
<th>K Factor</th>
<th>Flow Rate gpm (L/min)</th>
<th>Pressure psi (bar)</th>
<th>Coverage Area Width x Length ft. x ft (m x m)</th>
<th>Sprinkler Ident. Number (SIN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(\frac{3}{16}) (15mm)</td>
<td>1/2&quot; (R(\frac{3}{16}))</td>
<td>5.62</td>
<td>81.0</td>
<td>30 (113.5)</td>
<td>16 x 18 (4.9 x 5.5)</td>
<td>R1265</td>
</tr>
<tr>
<td>(\frac{3}{16}) (15mm)</td>
<td>1/2&quot; (R(\frac{3}{16}))</td>
<td>5.62</td>
<td>81.0</td>
<td>38 (143.8)</td>
<td>16 x 20 (4.9 x 6.0)</td>
<td>R1265</td>
</tr>
<tr>
<td>(\frac{17}{32}) (20mm)</td>
<td>5/8&quot; (R(\frac{3}{8}))</td>
<td>8.20</td>
<td>118.2</td>
<td>30 (113.5)</td>
<td>16 x 18 (4.9 x 5.5)</td>
<td>R1267</td>
</tr>
<tr>
<td>(\frac{17}{32}) (20mm)</td>
<td>5/8&quot; (R(\frac{3}{8}))</td>
<td>8.20</td>
<td>118.2</td>
<td>32 (121.1)</td>
<td>16 x 20 (4.9 x 6.0)</td>
<td>R1267</td>
</tr>
<tr>
<td>(\frac{17}{32}) (20mm)</td>
<td>5/8&quot; (R(\frac{3}{8}))</td>
<td>8.20</td>
<td>118.2</td>
<td>37 (140.0)</td>
<td>16 x 22 (4.9 x 6.7)</td>
<td>R1267</td>
</tr>
<tr>
<td>(\frac{17}{32}) (20mm)</td>
<td>5/8&quot; (R(\frac{3}{8}))</td>
<td>8.20</td>
<td>118.2</td>
<td>39 (147.6)</td>
<td>16 x 24 (4.9 x 7.3)</td>
<td>R1267</td>
</tr>
</tbody>
</table>

Model G/F1/EC4 Extended Coverage Horizontal Sidewall Sprinkler — EC4 Deflector

Technical Data
Nominal Orifice: \(\frac{17}{32}\) (20mm)
Thread Size: \(\frac{3}{4}\" NPT (R\(\frac{3}{4}\))
K Factor: 8.20 US (118.2 Metric)
Length: 3\(\frac{1}{16}\) (90mm)
Rating: 135°F (57°C)
Max. Ambient Temp.: 100°F (38°C)

Technical Data

<table>
<thead>
<tr>
<th>Flow Rate gpm (L/min)</th>
<th>Pressure psi (bar)</th>
<th>Coverage Area Width x Length ft. x ft (m x m)</th>
<th>Deflector to Ceiling Dimension Min. - Max. in. (mm)</th>
<th>Sprinkler Ident. Number (SIN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 (113.5)</td>
<td>13.4 (0.9)</td>
<td>16 x 18 (4.9 x 4.9)</td>
<td>6 - 12 (152 - 305)</td>
<td>R1267</td>
</tr>
<tr>
<td>32 (121.1)</td>
<td>15.2 (1.0)</td>
<td>16 x 20 (4.9 x 6.0)</td>
<td>6 - 12 (152 - 305)</td>
<td>R1267</td>
</tr>
<tr>
<td>37 (140.0)</td>
<td>20.0 (1.4)</td>
<td>16 x 22 (4.9 x 6.7)</td>
<td>6 - 12 (152 - 305)</td>
<td>R1267</td>
</tr>
</tbody>
</table>

Model G/F1/EC4
Model G/F1/HSW1
Recessed Sidewall Sprinkler
MODEL G HORIZONTAL SIDEWALL SPRINKLER — HSW1 Deflector

Installation Wrench:
Model D Sprinkler Wrench or Model W2 Sprinkler Wrench

Ceiling to deflector distance:
4 to 6 inches (102mm to 152mm).

Technical Data

<table>
<thead>
<tr>
<th>Nominal Orifice</th>
<th>Thread Size</th>
<th>K Factor US</th>
<th>Sprinkler Length</th>
<th>Approval Organizations</th>
<th>Sprinkler Ident. Number (SIN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot; (15mm)</td>
<td>1/8&quot; (R1/2)</td>
<td>5.62</td>
<td>3/4&quot; (84mm)</td>
<td>1, 2, 3, 4, 5, 6</td>
<td>R1235</td>
</tr>
<tr>
<td>1/8&quot; (11mm)</td>
<td>1/8&quot; (R1/2)</td>
<td>4.24</td>
<td>3/4&quot; (84mm)</td>
<td>1, 3, 5, 6</td>
<td>R1233</td>
</tr>
<tr>
<td>3/32&quot; (20mm)</td>
<td>3/32&quot; (R5/32)</td>
<td>2.82</td>
<td>3/4&quot; (84mm)</td>
<td>1, 3, 5, 6</td>
<td>--</td>
</tr>
<tr>
<td>7/32&quot; (20mm)</td>
<td>7/32&quot; (R5/32)</td>
<td>8.20</td>
<td>3/4&quot; (84mm)</td>
<td>1, 3, 5, 6</td>
<td>--</td>
</tr>
<tr>
<td>11/32&quot; (20mm)</td>
<td>11/32&quot; (R5/32)</td>
<td>7.96</td>
<td>3/4&quot; (84mm)</td>
<td>1, 3, 5, 6</td>
<td>--</td>
</tr>
</tbody>
</table>

(1) Identified by pintle extending beyond deflector.

Model G/F1/HSW1 Recessed Horizontal Sidewall Sprinkler — HSW1 Deflector

Rating: 135°F (57°C)
Max. Ambient Temp.: 100°F (38°C)
Underwriters Laboratories Inc.
Length: 3 5/16" (84mm)
Approval Type: Light Hazard Occupancy

Approvals:
Underwriters Laboratories Inc.
NYC BS&A No 587-75-SA
Underwriters’ Laboratories of Canada

Installation Wrench:
Model GFR1 Sprinkler Wrench.

Color Identification:
Black Paint (Bronze Finish Only).

Ceiling to Deflector Distance:
4 to 6 inches (102mm to 152mm).

(1) Identified by pintle beyond deflector.

MODEL G VERTICAL SIDEWALL SPRINKLER

Installation Wrench:
Model D Sprinkler Wrench or Model W2 Sprinkler Wrench

Installation Position:
Upright or Pendent

Approval Type:
Light Hazard Occupancy

Ceiling to Deflector Distance:
4 to 6 inches (102mm to 152mm).

Wall to Deflector Distance:
4 to 6 inches (102mm to 150 mm).

Technical Data

<table>
<thead>
<tr>
<th>Nominal Orifice</th>
<th>Thread Size</th>
<th>K Factor US</th>
<th>Sprinkler Length</th>
<th>Approval Organizations</th>
<th>Sprinkler Ident. Number (SIN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot; (15mm)</td>
<td>1/8&quot; (R1/2)</td>
<td>5.62</td>
<td>2&quot; (73mm)</td>
<td>2, 4</td>
<td>R1285</td>
</tr>
</tbody>
</table>

3.
Temperature ratings and finishes for Model G Horizontal Sidewall— HSW1 Deflector and Vertical Sidewall Sprinklers

<table>
<thead>
<tr>
<th>Sprinkler</th>
<th>Maximum Ambient Temperature</th>
<th>Frame Color*</th>
</tr>
</thead>
<tbody>
<tr>
<td>°F</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>135</td>
<td>57</td>
<td>Black</td>
</tr>
<tr>
<td>165</td>
<td>74</td>
<td>Uncolored</td>
</tr>
<tr>
<td>212</td>
<td>100</td>
<td>White</td>
</tr>
<tr>
<td>286</td>
<td>141</td>
<td>Blue</td>
</tr>
</tbody>
</table>

* Frame color does not apply to plated or painted sprinklers.

Approval Organizations:
1. Underwriters Laboratories, Inc.
2. Factory Mutual Research Corp.
3. Underwriters’ Laboratories of Canada
4. LPCB
5. NYC BS&A No. 587-75-SA
6. NYC MEA 258-93-E

Finishes (1)

**Standard Finishes**

<table>
<thead>
<tr>
<th>Sprinkler</th>
<th>Escutcheon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bronze</td>
<td>Bronze</td>
</tr>
<tr>
<td>Chrome Plated</td>
<td>Chrome Plated</td>
</tr>
</tbody>
</table>

**Special application Finishes**

<table>
<thead>
<tr>
<th>Sprinkler</th>
<th>Escutcheon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bright Brass</td>
<td>Bright Brass</td>
</tr>
<tr>
<td>Black Plated</td>
<td>Black Plated</td>
</tr>
<tr>
<td>Satin Chrome</td>
<td>Satin Chrome</td>
</tr>
<tr>
<td>Lead Plated - 165°F (74°C), 212°F (100°C) and 286°F (141°C) Ratings</td>
<td></td>
</tr>
<tr>
<td>Wax Coated - 165°F (74°C) Clear Wax, 212°F (100°C) Brown Wax (2)</td>
<td></td>
</tr>
<tr>
<td>Wax Over Lead Plated - 165°F (74°C) Clear Wax, 212°F (100°C) Brown Wax (3)</td>
<td></td>
</tr>
</tbody>
</table>

(1) Other colors and finishes are available. Consult factory for details.
(2) Only frame, deflector and cap are plated.
(3) 212°F (100°C) brown wax may be used on 286°F (141°C) sprinklers when maximum ceiling temperatures do not exceed 150°F (66°C). UL Listed only.

Ordering Information:

Specify:
1. Model
   - G or G/F1
2. Recessed
   (Only G/F1)
3. Deflector
   - Vertical Sidewall Deflector
   - Horizontal Sidewall - HSW1 Deflector
   - Horizontal Sidewall - EC4 Deflector
4. Nominal Orifice
5. Inlet Thread
6. Temperature Rating
7. Sprinkler Finish
8. Escutcheon Finish

NOTE: Sprinkler and escutcheon are packaged separately.