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Special Issue - Residential Sprinkler Listings

The NFSA Engineering Staff periodically compiles a comprehensive list of residential sprinkler listing in a single document for the benefit of our members. This editions of TechNotes contains the current compilation of these listed sprinklers for all manufacturers that are members of the NFSA. Both listings by Underwriters Laboratories and approvals by FM Approvals are included in alphabetical order by manufacturer and by Sprinkler Identification Number (SIN).

All values in the tables are in the American customary system of units, with temperature in degrees Fahrenheit, distance in feet, flow in gallons per minute (gpm) and pressure in pounds per square inch (psi). The abbreviation "HSW" stands for horizontal sidewall sprinkler and the abbreviation "Rec." stands for a recessed sprinkler (sidewall or pendent).

The following list is intended to be a resource for NFSA members to compare current models and listing of residential sprinklers available. When installing residential sprinklers, the manufacturer's data sheet must be referenced for all installation requirements.

This edition was compiled by Louis Guerrazzi EIT, Manager of Product Standards.



UL Listings of Residential Sprinklers

Note that since 2002, UL only lists residential sprinklers at one flow for each coverage area. The flow rates are determined by the manufacturer and are not allowed to produce a density less than 0.05 gpm per sq ft over the listed coverage area, however, the listed flow may be greater than a density of 0.05 gpm per sq ft if that is what needed to pass the fire test.

The flows listed here are for use in NFPA 13D and NFPA 13R sprinkler systems. For NFPA 13 systems, residential sprinklers are permitted to be used but the minimum flow produced must be equivalent to at least 0.1 gpm per sq ft over the exact floor area being protected by the sprinkler per the S x L rule. Therefore, the minimum required flow rates and pressure may be higher than values identified in the table. When in question, please reach out to the manufacturer for additional guidance related to the specific sprinkler being used.

A recent change to the UL Standards will now permit residential sprinklers to obtain listings for a spacing of 15 ft. by 15 ft. This change was introduced to address some issues involving new technologies for solid state water meters and will allow for more design options when working on projects which utilize such water meters. At the time the following listings were compiled, there were no 15 ft. by 15 ft. residential sprinklers available. All other residential sprinklers are limited to even-2 ft. spacing increments.

Globe Fire Sprinkler Corporation
www.globesprinkler.com

| SIN | Type | Max Spacing (Width) | Max Spacing (Length) | Min Flow | Min Pressure | K-Factor | Temp Rating | Notes |
|--------|----------------------|---------------------|----------------------|----------|--------------|----------|-------------|----------------------------|
| GL3010 | Pendent/Rec. Pendent | 12 | 12 | 8 | 7.1 | 3 | 155 | |
| GL3010 | Pendent/Rec. Pendent | 14 | 14 | 10 | 11.1 | 3 | 155 | |
| GL4110 | Pendent/Rec. Pendent | 12 | 12 | 11 | 7.2 | 4.1 | 155,175 | |
| GL4110 | Pendent/Rec. Pendent | 14 | 14 | 12 | 8.6 | 4.1 | 155 | |
| GL4110 | Pendent/Rec. Pendent | 16 | 16 | 14 | 11.7 | 4.1 | 155 | |
| GL4147 | Concealed Pendent | 12 | 12 | 11 | 7.2 | 4.1 | 155 | Utilizes 135 F coverplate. |
| GL4147 | Concealed Pendent | 14 | 14 | 15 | 13.4 | 4.1 | 155 | Utilizes 135 F coverplate. |
| GL4147 | Concealed Pendent | 16 | 16 | 15 | 13.4 | 4.1 | 155 | Utilizes 135 F coverplate. |
| GL4231 | HSW/Rec. HSW | 12 | 12 | 13 | 9.6 | 4.2 | 155 | |
| GL4231 | HSW/Rec. HSW | 14 | 14 | 15 | 12.8 | 4.2 | 155 | |
| GL4231 | HSW/Rec. HSW | 16 | 16 | 16 | 14.5 | 4.2 | 155 | |
| GL4231 | HSW/Rec. HSW | 16 | 18 | 19 | 20.5 | 4.2 | 155 | |
| GL4231 | HSW/Rec. HSW | 16 | 20 | 23 | 30 | 4.2 | 155 | |
| GL4248 | Flush Pendent | 12 | 12 | 11 | 7.2 | 4.1 | 155 | |
| GL4248 | Flush Pendent | 14 | 14 | 11 | 7.2 | 4.1 | 155 | |
| GL4248 | Flush Pendent | 16 | 16 | 13 | 10.1 | 4.1 | 155 | |
| GL4248 | Flush Pendent | 18 | 18 | 17 | 17.2 | 4.1 | 155 | |
| GL4248 | Flush Pendent | 20 | 20 | 20 | 23.8 | 4.1 | 155 | |

| | | | | | | | | |
|--------|-------------------------|----|----|----|------|-----|---------|--|
| GL4431 | HSW/Rec. HSW | 12 | 12 | 13 | 8.7 | 4.4 | 155 | |
| GL4431 | HSW/Rec. HSW | 14 | 14 | 15 | 11.6 | 4.4 | 155 | |
| GL4431 | HSW/Rec. HSW | 16 | 16 | 16 | 13.2 | 4.4 | 155 | |
| GL4431 | HSW/Rec. HSW | 16 | 18 | 19 | 18.7 | 4.4 | 155 | |
| GL4431 | HSW/Rec. HSW | 16 | 20 | 23 | 27.3 | 4.4 | 155 | |
| GL4710 | Pendent/Rec. Pendent | 12 | 12 | 13 | 7.7 | 4.7 | 155,175 | |
| GL4710 | Pendent/Rec. Pendent | 16 | 16 | 14 | 8.9 | 4.7 | 155,175 | |
| GL4710 | Pendent/Rec. Pendent | 18 | 18 | 18 | 14.7 | 4.7 | 155 | |
| GL4710 | Pendent/Rec. Pendent | 20 | 20 | 20 | 18.1 | 4.7 | 155 | |
| GL4747 | Concealed Pendent | 12 | 12 | 13 | 7.7 | 4.7 | 155 | Utilizes 135 F coverplate. |
| GL4747 | Concealed Pendent | 16 | 16 | 14 | 8.9 | 4.7 | 155 | Utilizes 135 F coverplate. |
| GL4747 | Concealed Pendent | 18 | 18 | 17 | 13.1 | 4.7 | 155 | Utilizes 135 F coverplate. |
| GL4747 | Concealed Pendent | 20 | 20 | 20 | 18.1 | 4.7 | 155 | Utilizes 135 F coverplate. |
| GL4906 | Concealed Pendent | 16 | 16 | 13 | 7 | 4.9 | 155 | The manufacturer's installation instructions should be consulted regarding specific installation requirements such as sprinkler orientation, maximum compartment size, number of design sprinklers and types of construction. Utilizes 135 F coverplate. |
| GL4906 | Concealed Pendent | 18 | 18 | 17 | 12 | 4.9 | 155 | The manufacturer's installation instructions should be consulted regarding specific installation requirements such as sprinkler orientation, |

| | | | | | | | | |
|--------|----------------------|----|----|----|------|-----|---------|--|
| | | | | | | | | maximum compartment size, number of design sprinklers and types of construction. Utilizes 135 F coverplate. |
| GL4906 | Concealed Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 155 | The manufacturer's installation instructions should be consulted regarding specific installation requirements such as sprinkler orientation, maximum compartment size, number of design sprinklers and types of construction. Utilizes 135 F coverplate. |
| GL4910 | Pendent/Rec. Pendent | 12 | 12 | 13 | 7 | 4.9 | 155,175 | |
| GL4910 | Pendent/Rec. Pendent | 14 | 14 | 14 | 8.2 | 4.9 | 155,175 | |
| GL4910 | Pendent/Rec. Pendent | 16 | 16 | 14 | 8.2 | 4.9 | 155,175 | |
| GL4910 | Pendent/Rec. Pendent | 18 | 18 | 17 | 12 | 4.9 | 155,175 | |
| GL4910 | Pendent/Rec. Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 155,175 | |
| GL4947 | Concealed Pendent | 12 | 12 | 13 | 7 | 4.9 | 155 | The manufacturer's installation instructions should be consulted regarding specific installation requirements such as sprinkler orientation, maximum compartment size, number of design sprinklers and types of construction. |
| GL4947 | Concealed Pendent | 14 | 14 | 14 | 8.2 | 4.9 | 155 | The manufacturer's installation |

| | | | | | | | | |
|--------|-------------------|----|----|----|------|-----|-----|---|
| | | | | | | | | instructions should be consulted regarding specific installation requirements such as sprinkler orientation, maximum compartment size, number of design sprinklers and types of construction. |
| GL4947 | Concealed Pendent | 16 | 16 | 14 | 8.2 | 4.9 | 155 | The manufacturer's installation instructions should be consulted regarding specific installation requirements such as sprinkler orientation, maximum compartment size, number of design sprinklers and types of construction. |
| GL4947 | Concealed Pendent | 18 | 18 | 17 | 12 | 4.9 | 155 | The manufacturer's installation instructions should be consulted regarding specific installation requirements such as sprinkler orientation, maximum compartment size, number of design sprinklers and types of construction. |
| GL4947 | Concealed Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 155 | The manufacturer's installation instructions should be consulted regarding specific installation |

| | | | | | | | | |
|--------|----------------------|----|----|----|------|-----|-----|--|
| | | | | | | | | requirements such as sprinkler orientation, maximum compartment size, number of design sprinklers and types of construction. |
| GL5610 | Pendent/Rec. Pendent | 12 | 12 | 15 | 7.2 | 5.6 | 155 | |
| GL5610 | Pendent/Rec. Pendent | 16 | 16 | 19 | 11.5 | 5.6 | 155 | |
| GL5610 | Pendent/Rec. Pendent | 18 | 18 | 21 | 14.1 | 5.6 | 155 | |
| GL5610 | Pendent/Rec. Pendent | 20 | 20 | 24 | 18.4 | 5.6 | 155 | |

Upcoming Technical Tuesdays

October 17, 2017

Vertical Shafts, Stairways, and Elevators

NEW REDUCED PRICE FOR MEMBERS!

Register Here

Reliable Automatic Sprinkler Company

www.reliablesprinkler.com

| SIN | Type | Max Spacing (Width) | Max Spacing (Length) | Min Flow | Min Pressure | K-Factor | Temp Rating | Notes |
|-------|----------------------|---------------------|----------------------|----------|--------------|----------|-------------|--|
| R3516 | Pendent/Rec. Pendent | 16 | 16 | 13 | 7 | 4.9 | 155,175 | |
| R3511 | Pendent/Rec. Pendent | 12 | 12 | 8 | 7 | 3 | 155,175 | |
| R3511 | Pendent/Rec. Pendent | 14 | 14 | 10 | 11 | 3 | 155,175 | |
| R3511 | Pendent/Rec. Pendent | 16 | 16 | 13 | 18.8 | 3 | 155,175 | |
| R3511 | Concealed Pendent | 12 | 12 | 8 | 7 | 3 | 155 | Utilizes 135 °F temperature rated profiled coverplate. |
| R3511 | Concealed Pendent | 14 | 14 | 11 | 13.4 | 3 | 155 | Utilizes 135 °F temperature rated profiled coverplate. |

| | | | | | | | | |
|-------|------------------------------|----|----|----|------|-----|---------|--|
| R3513 | Pendent/Rec. Pendent | 16 | 16 | 16 | 7.6 | 5.8 | 155,175 | |
| R3513 | Pendent/Rec. Pendent | 18 | 18 | 19 | 10.8 | 5.8 | 155,175 | |
| R3513 | Pendent/Rec. Pendent | 20 | 20 | 22 | 14.4 | 5.8 | 155,175 | |
| R3513 | Pendent/Concealed Pendent | 16 | 16 | 16 | 7.6 | 5.8 | 155 | Utilizes 135 °F temperature rated profiled coverplate. |
| R3513 | Pendent/Concealed Pendent | 18 | 18 | 19 | 10.8 | 5.8 | 155 | Utilizes 135 °F temperature rated profiled coverplate. |
| R3513 | Pendent/Concealed Pendent | 20 | 20 | 22 | 14.4 | 5.8 | 155 | Utilizes 135 °F temperature rated profiled coverplate. |
| R3516 | Pendent/Rec. Pendent | 18 | 18 | 17 | 12 | 4.9 | 155,175 | |
| R3516 | Pendent/Rec. Pendent | 20 | 20 | 20 | 16.6 | 4.9 | 155,175 | |
| R3516 | Concealed Pendent | 14 | 14 | 13 | 7 | 4.9 | 155 | Utilizes 135 °F temperature rated profiled coverplate. |
| R3516 | Concealed Pendent | 16 | 16 | 14 | 8.2 | 4.9 | 155 | Utilizes 135 °F temperature rated profiled coverplate. |
| R3516 | Concealed Pendent | 18 | 18 | 18 | 13.5 | 4.9 | 155 | Utilizes 135 °F temperature rated profiled coverplate. |
| R3516 | Concealed Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 155 | Utilizes 135 °F temperature rated profiled coverplate. |
| R3516 | Pendent | 12 | 12 | 15 | 9.4 | 4.9 | 155,175 | Maximum 8 in. below the ceiling. |
| R3516 | Pendent | 14 | 14 | 16 | 10.7 | 4.9 | 155,175 | Maximum 8 in. below the ceiling. |
| R3516 | Pendent | 16 | 16 | 17 | 12 | 4.9 | 155,175 | Maximum 8 in. below the ceiling. |
| R3516 | Pendent | 18 | 18 | 19 | 15 | 4.9 | 155,175 | Maximum 8 in. below the ceiling. |
| R3516 | Pendent | 20 | 20 | 22 | 20.2 | 4.9 | 155,175 | Maximum 8 |

| | | | | | | | | |
|-------|---------------|----|----|----|------|-----|---------|--|
| | | | | | | | | in. below the ceiling. |
| R3531 | HSW/Rec. HSW | 12 | 12 | 12 | 7.5 | 4.4 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| R3531 | HSW/Rec. HSW | 14 | 14 | 14 | 10.2 | 4.4 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| R3531 | HSW/Rec. HSW | 16 | 16 | 16 | 13.3 | 4.4 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| R3531 | HSW/Rec. HSW | 16 | 18 | 18 | 16.8 | 4.4 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| R3531 | HSW/Rec. HSW | 18 | 18 | 19 | 18.7 | 4.4 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| R3531 | HSW/Rec. HSW | 16 | 20 | 23 | 27.4 | 4.4 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| R3531 | Concealed HSW | 12 | 12 | 13 | 9 | 4.4 | 155 | Utilizes 135 °F temperature rated profiled coverplate. Installed 4 to 6 in. below the ceiling. |
| R3531 | Concealed HSW | 14 | 14 | 14 | 10.2 | 4.4 | 155 | Utilizes 135 °F temperature rated profiled coverplate. Installed 4 to 6 in. below the ceiling. |
| R3531 | Concealed HSW | 16 | 16 | 17 | 15 | 4.4 | 155 | Utilizes 135 °F temperature rated profiled coverplate. Installed 4 to 6 in. below the ceiling. |
| R3531 | Concealed HSW | 16 | 18 | 19 | 18.7 | 4.4 | 155 | Utilizes 135 °F temperature rated profiled coverplate. Installed 4 to 6 in. below the ceiling. |
| R3531 | Concealed HSW | 16 | 20 | 23 | 27.4 | 4.4 | 155 | Utilizes 135 °F temperature rated profiled coverplate. Installed 4 to |

| | | | | | | | | |
|-------|---------------------------|----|----|----|------|-----|---------|--|
| R3533 | HSW/Rec. HSW | 16 | 18 | 25 | 18.6 | 5.8 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| R3533 | HSW/Rec. HSW | 16 | 20 | 29 | 25 | 5.8 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| R3533 | HSW/Rec. HSW | 14 | 14 | 22 | 14.4 | 5.8 | 155,175 | Installed 6 to 12 in. below the ceiling. |
| R3533 | HSW/Rec. HSW | 16 | 16 | 26 | 20.1 | 5.8 | 155,175 | Installed 6 to 12 in. below the ceiling. |
| R3533 | HSW/Rec. HSW | 16 | 18 | 31 | 28.6 | 5.8 | 155,175 | Installed 6 to 12 in. below the ceiling. |
| R3591 | Pendent/Rec. Pendent | 12 | 12 | 8 | 7 | 3 | 165,212 | |
| R3591 | Pendent/Rec. Pendent | 14 | 14 | 10 | 11 | 3 | 165,212 | |
| R3591 | Pendent/Rec. Pendent | 16 | 16 | 13 | 18.8 | 3 | 165,212 | |
| R3593 | Pendent/Rec. Pendent | 14 | 14 | 16 | 7.6 | 5.8 | 212 | |
| R3593 | Pendent/Rec. Pendent | 16 | 16 | 16 | 7.6 | 5.8 | 165 | |
| R3593 | Pendent/Rec. Pendent | 16 | 16 | 17 | 8.6 | 5.8 | 212 | |
| R3593 | Pendent/Rec. Pendent | 18 | 18 | 19 | 10.8 | 5.8 | 165,212 | |
| R3593 | Pendent/Rec. Pendent | 20 | 20 | 22 | 14.4 | 5.8 | 165 | |
| R3593 | Pendent/Rec. Pendent | 20 | 20 | 23 | 15.7 | 5.8 | 212 | |
| R3596 | Pendent/Rec. Pendent | 14 | 14 | 13 | 7 | 4.9 | 212 | |
| R3596 | Pendent/Rec. Pendent | 16 | 16 | 13 | 7 | 4.9 | 165 | |
| R3596 | Pendent/Rec. Pendent | 16 | 16 | 15 | 9.4 | 4.9 | 212 | |
| R3596 | Pendent/Rec. Pendent | 18 | 18 | 19 | 15 | 4.9 | 165,212 | |
| R3596 | Pendent/Rec. Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 165 | |
| R3596 | Pendent/Rec. Pendent | 20 | 20 | 22 | 20.2 | 4.9 | 212 | |
| R7618 | Pendent/Rec. Pendent | 18 | 18 | 21 | 7.6 | 7.6 | 155,175 | |
| R7618 | Pendent/Rec. Pendent | 20 | 20 | 23 | 9.2 | 7.6 | 155,175 | |
| R7618 | Pendent/Concealed Pendent | 16 | 16 | 16 | 7.6 | 7.6 | 155,175 | Utilizes 135 °F temperature rated profiled coverplate. |
| R7618 | Pendent/Concealed Pendent | 18 | 18 | 19 | 8.4 | 7.6 | 155,175 | Utilizes 135 °F |

| | | | | | | | | |
|--------|---------------------------|----|----|----|------|-----|---------|--|
| | | | | | | | | temperature rated profiled coverplate. |
| R7618 | Pendent/Concealed Pendent | 20 | 20 | 22 | 10.8 | 7.6 | 155,175 | Utilizes 135 °F temperature rated profiled coverplate. |
| RA0611 | Concealed Pendent | 12 | 12 | 9 | 9 | 3 | 165 | Utilizes 135 °F temperature rated flat coverplate. Concealed pendent type sprinklers may utilize a perforated style cover plate. |
| RA0611 | Concealed Pendent | 14 | 14 | 10 | 11 | 3 | 165 | Utilizes 135 °F temperature rated flat coverplate. Concealed pendent type sprinklers may utilize a perforated style cover plate. |
| RA0612 | Concealed Pendent | 12 | 12 | 12 | 7.8 | 4.3 | 165 | Utilizes 135 °F temperature rated flat coverplate. Concealed pendent type sprinklers may utilize a perforated style cover plate. |
| RA0612 | Concealed Pendent | 16 | 16 | 13 | 9.1 | 4.3 | 165 | Utilizes 135 °F temperature rated flat coverplate. Concealed pendent type sprinklers may utilize a perforated style cover plate. |
| RA0612 | Concealed Pendent | 18 | 18 | 18 | 17.5 | 4.3 | 165 | Utilizes 135 °F temperature rated flat |

| | | | | | | | | |
|--------|-------------------|----|----|----|------|-----|-----|--|
| | | | | | | | | coverplate. Concealed pendent type sprinklers may utilize a perforated style cover plate. |
| RA0612 | Concealed Pendent | 20 | 20 | 21 | 23.8 | 4.3 | 165 | Utilizes 135 °F temperature rated flat coverplate. Concealed pendent type sprinklers may utilize a perforated style cover plate. |
| RA0616 | Concealed Pendent | 16 | 16 | 13 | 7 | 4.9 | 165 | Utilizes 135 °F temperature rated flat coverplate. Concealed pendent type sprinklers may utilize a perforated style cover plate. |
| RA0616 | Concealed Pendent | 18 | 18 | 18 | 12 | 4.9 | 165 | Utilizes 135 °F temperature rated flat coverplate. Concealed pendent type sprinklers may utilize a perforated style cover plate. |
| RA0616 | Concealed Pendent | 20 | 20 | 21 | 16.7 | 4.9 | 165 | Utilizes 135 °F temperature rated flat coverplate. Concealed pendent type sprinklers may utilize a perforated style cover plate. |
| RA0914 | Concealed Pendent | 16 | 16 | 26 | 26.1 | 5.6 | 165 | Utilizes 135 °F temperature rated flat |

| | | | | | | | | |
|--------|-------------------|----|----|----|------|-----|-----|--|
| | | | | | | | | coverplate. Concealed pendent type sprinklers may utilize a perforated style cover plate. |
| RA3211 | Concealed Pendent | 12 | 12 | 9 | 9 | 3 | 165 | Utilizes 135 °F temperature rated flat coverplate. Concealed pendent type sprinklers may utilize a perforated style cover plate. |
| RA3211 | Concealed Pendent | 14 | 14 | 10 | 11 | 3 | 165 | Utilizes 135 °F temperature rated flat coverplate. Concealed pendent type sprinklers may utilize a perforated style cover plate. |
| RA3212 | Concealed Pendent | 18 | 18 | 18 | 17.5 | 4.3 | 165 | Utilizes 135 °F temperature rated flat coverplate. |
| RA3212 | Concealed Pendent | 12 | 12 | 12 | 7.8 | 4.3 | 165 | Utilizes 135 °F temperature rated flat coverplate. Concealed pendent type sprinklers may utilize a perforated style cover plate. |
| RA3212 | Concealed Pendent | 16 | 16 | 13 | 9.1 | 4.3 | 165 | Utilizes 135 °F temperature rated flat coverplate. Concealed pendent type sprinklers may utilize a perforated |

| | | | | | | | | |
|--------|----------------------|----|----|----|------|-----|---------|--|
| | | | | | | | | style cover plate. |
| RA3212 | Concealed Pendent | 20 | 20 | 21 | 23.8 | 4.3 | 165 | Utilizes 135 °F temperature rated flat coverplate. Concealed pendent type sprinklers may utilize a perforated style cover plate. |
| RA3216 | Concealed Pendent | 16 | 16 | 13 | 7 | 4.9 | 165 | Utilizes 135 °F temperature rated flat coverplate. Concealed pendent type sprinklers may utilize a perforated style cover plate. |
| RA3216 | Concealed Pendent | 18 | 18 | 18 | 12 | 4.9 | 165 | Utilizes 135 °F temperature rated flat coverplate. Concealed pendent type sprinklers may utilize a perforated style cover plate. |
| RA3216 | Concealed Pendent | 20 | 20 | 21 | 16.7 | 4.9 | 165 | Utilizes 135 °F temperature rated flat coverplate. Concealed pendent type sprinklers may utilize a perforated style cover plate. |
| RA3311 | Pendent/Rec. Pendent | 12 | 12 | 8 | 7 | 3 | 155,175 | |
| RA3311 | Pendent/Rec. Pendent | 14 | 14 | 10 | 11 | 3 | 155,175 | |
| RA3311 | Concealed Pendent | 12 | 12 | 8 | 7 | 3 | 155 | |
| RA3311 | Concealed Pendent | 14 | 14 | 11 | 13.4 | 3 | 155 | Utilizes 135 °F temperature |

| | | | | | | | | |
|--------|---------------------------|----|----|----|------|-----|---------|--|
| | | | | | | | | rated profiled coverplate. |
| RA3313 | Pendent/Rec. Pendent | 16 | 16 | 16 | 7.6 | 5.8 | 155,175 | Utilizes 135 °F temperature rated profiled coverplate. |
| RA3313 | Pendent/Rec. Pendent | 18 | 18 | 19 | 10.8 | 5.8 | 155,175 | |
| RA3313 | Pendent/Rec. Pendent | 20 | 20 | 22 | 14.4 | 5.8 | 155,175 | |
| RA3313 | Pendent/Concealed Pendent | 16 | 16 | 16 | 7.6 | 5.8 | 155 | Utilizes 135 °F temperature rated profiled coverplate. |
| RA3313 | Pendent/Concealed Pendent | 18 | 18 | 19 | 10.8 | 5.8 | 155 | Utilizes 135 °F temperature rated profiled coverplate. |
| RA3313 | Pendent/Concealed Pendent | 20 | 20 | 22 | 14.4 | 5.8 | 155 | Utilizes 135 °F temperature rated profiled coverplate. |
| RA3316 | Pendent/Rec. Pendent | 16 | 16 | 13 | 7 | 4.9 | 155,175 | |
| RA3316 | Pendent/Rec. Pendent | 18 | 18 | 17 | 12 | 4.9 | 155,175 | |
| RA3316 | Pendent/Rec. Pendent | 20 | 20 | 20 | 16.6 | 4.9 | 155,175 | |
| RA3316 | Concealed Pendent | 14 | 14 | 13 | 7 | 4.9 | 155 | Utilizes 135 °F temperature rated profiled coverplate. |
| RA3316 | Concealed Pendent | 16 | 16 | 14 | 8.2 | 4.9 | 155 | Utilizes 135 °F temperature rated profiled coverplate. |
| RA3316 | Concealed Pendent | 18 | 18 | 18 | 13.5 | 4.9 | 155 | Utilizes 135 °F temperature rated profiled coverplate. |
| RA3316 | Concealed Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 155 | Utilizes 135 °F temperature rated profiled coverplate. |
| RA3316 | Pendent | 12 | 12 | 15 | 9.4 | 4.9 | 155,175 | Maximum 8 in. below the ceiling. |
| RA3316 | Pendent | 14 | 14 | 16 | 10.7 | 4.9 | 155,175 | Maximum 8 in. below the ceiling. |

| | | | | | | | | |
|--------|---------------|----|----|----|------|-----|---------|--|
| RA3316 | Pendent | 16 | 16 | 17 | 12 | 4.9 | 155,175 | Maximum 8 in. below the ceiling. |
| RA3316 | Pendent | 18 | 18 | 19 | 15 | 4.9 | 155,175 | Maximum 8 in. below the ceiling. |
| RA3316 | Pendent | 20 | 20 | 22 | 20.2 | 4.9 | 155,175 | Maximum 8 in. below the ceiling. |
| RA3331 | HSW/Rec. HSW | 12 | 12 | 12 | 7.5 | 4.4 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| RA3331 | HSW/Rec. HSW | 14 | 14 | 14 | 10.2 | 4.4 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| RA3331 | HSW/Rec. HSW | 16 | 16 | 16 | 13.3 | 4.4 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| RA3331 | HSW/Rec. HSW | 16 | 18 | 18 | 16.8 | 4.4 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| RA3331 | HSW/Rec. HSW | 18 | 18 | 19 | 18.7 | 4.4 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| RA3331 | HSW/Rec. HSW | 16 | 20 | 23 | 27.4 | 4.4 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| RA3331 | Concealed HSW | 12 | 12 | 13 | 9 | 4.4 | 155 | Utilizes 135 °F temperature rated profiled coverplate. Installed 4 to 6 in. below the ceiling. |
| RA3331 | Concealed HSW | 14 | 14 | 14 | 10.2 | 4.4 | 155 | Utilizes 135 °F temperature rated profiled coverplate. Installed 4 to 6 in. below the ceiling. |
| RA3331 | Concealed HSW | 16 | 16 | 17 | 15 | 4.4 | 155 | Utilizes 135 °F temperature rated profiled coverplate. Installed 4 to 6 in. below the ceiling. |
| RA3331 | Concealed HSW | 16 | 18 | 19 | 18.7 | 4.4 | 155 | Utilizes 135 °F temperature rated profiled coverplate. Installed 4 to 6 in. below the ceiling. |

| | | | | | | | | |
|--------|---------------|----|----|----|------|-----|---------|---|
| RA3331 | Concealed HSW | 16 | 20 | 23 | 27.4 | 4.4 | 155 | Utilizes 135 °F temperature rated profiled coverplate. Installed 4 to 6 in. below the ceiling. |
| RA3331 | HSW/Rec. HSW | 12 | 12 | 14 | 10.2 | 4.4 | 155,175 | Installed 6 to 12 in. below the ceiling. |
| RA3331 | HSW/Rec. HSW | 14 | 14 | 16 | 13.3 | 4.4 | 155,175 | Installed 6 to 12 in. below the ceiling. |
| RA3331 | HSW/Rec. HSW | 16 | 16 | 17 | 15 | 4.4 | 155,175 | Installed 6 to 12 in. below the ceiling. |
| RA3331 | HSW/Rec. HSW | 16 | 18 | 20 | 20.7 | 4.4 | 155,175 | Installed 6 to 12 in. below the ceiling. |
| RA3331 | HSW/Rec. HSW | 16 | 20 | 23 | 27.4 | 4.4 | 155,175 | Installed 6 to 12 in. below the ceiling. |
| RA3331 | Concealed HSW | 12 | 12 | 14 | 10.2 | 4.4 | 155 | Utilizes 135 °F temperature rated profiled coverplate. Installed 6 to 12 in. below the ceiling. |
| RA3331 | Concealed HSW | 14 | 14 | 16 | 13.3 | 4.4 | 155 | Utilizes 135 °F temperature rated profiled coverplate. Installed 6 to 12 in. below the ceiling. |
| RA3331 | Concealed HSW | 16 | 16 | 18 | 16.8 | 4.4 | 155 | Utilizes 135 °F temperature rated profiled coverplate. Installed 6 to 12 in. below the ceiling. |
| RA3331 | Concealed HSW | 16 | 18 | 20 | 20.7 | 4.4 | 155 | Utilizes 135 °F temperature rated profiled coverplate. Installed 6 to 12 in. below the ceiling. |
| RA3333 | HSW/Rec. HSW | 12 | 12 | 16 | 7.6 | 5.8 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| RA3333 | HSW/Rec. HSW | 14 | 14 | 18 | 9.7 | 5.8 | 155,175 | Installed 4 to |

| | | | | | | | | |
|--------|--------------|----|----|----|------|-----|---------|--|
| | | | | | | | | 6 in. below the ceiling. |
| RA3333 | HSW/Rec. HSW | 16 | 16 | 21 | 13.2 | 5.8 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| RA3333 | HSW/Rec. HSW | 16 | 18 | 25 | 18.6 | 5.8 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| RA3333 | HSW/Rec. HSW | 16 | 20 | 29 | 25 | 5.8 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| RA3333 | HSW/Rec. HSW | 14 | 14 | 22 | 14.4 | 5.8 | 155,175 | Installed 6 to 12 in. below the ceiling. |
| RA3333 | HSW/Rec. HSW | 16 | 16 | 26 | 20.1 | 5.8 | 155,175 | Installed 6 to 12 in. below the ceiling. |
| RA3333 | HSW/Rec. HSW | 16 | 18 | 31 | 28.6 | 5.8 | 155,175 | Installed 6 to 12 in. below the ceiling. |
| RA3503 | HSW/Rec. HSW | 12 | 12 | 16 | 7.6 | 5.8 | 165 | Installed 4 to 6 in. below the ceiling. |
| RA3503 | HSW/Rec. HSW | 14 | 14 | 18 | 9.7 | 5.8 | 165 | Installed 4 to 6 in. below the ceiling. |
| RA3503 | HSW/Rec. HSW | 16 | 16 | 21 | 13.2 | 5.8 | 165 | Installed 4 to 6 in. below the ceiling. |
| RA3503 | HSW/Rec. HSW | 16 | 18 | 25 | 18.6 | 5.8 | 165 | Installed 4 to 6 in. below the ceiling. |
| RA3503 | HSW/Rec. HSW | 16 | 20 | 29 | 25 | 5.8 | 165 | Installed 4 to 6 in. below the ceiling. |
| RA3503 | HSW/Rec. HSW | 14 | 14 | 22 | 14.4 | 5.8 | 165 | Installed 6 to 12 in. below the ceiling. |
| RA3503 | HSW/Rec. HSW | 16 | 16 | 26 | 20.1 | 5.8 | 165 | Installed 6 to 12 in. below the ceiling. |
| RA3503 | HSW/Rec. HSW | 16 | 18 | 31 | 28.6 | 5.8 | 165 | Installed 6 to 12 in. below the ceiling. |
| RA3533 | HSW/Rec. HSW | 18 | 20 | 30 | 26.8 | 4.4 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| RA3533 | HSW/Rec. HSW | 20 | 20 | 30 | 26.8 | 5.8 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| RA3533 | HSW/Rec. HSW | 16 | 22 | 33 | 32.4 | 5.8 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| RA3533 | HSW/Rec. HSW | 16 | 24 | 38 | 42.9 | 5.8 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| RA3533 | HSW/Rec. HSW | 14 | 26 | 42 | 52.4 | 5.8 | 155,175 | Installed 4 to |

| | | | | | | | | |
|--------|--------------|----|----|----|------|-----|---------|--|
| | | | | | | | | 6 in. below the ceiling. |
| RA3533 | HSW/Rec. HSW | 18 | 20 | 35 | 36.4 | 5.8 | 155,175 | Installed 6 to 12 in. below the ceiling. |
| RA3533 | HSW/Rec. HSW | 16 | 22 | 38 | 42.9 | 5.8 | 155,175 | Installed 6 to 12 in. below the ceiling. |
| RA3533 | HSW/Rec. HSW | 16 | 24 | 42 | 52.4 | 5.8 | 155,175 | Installed 6 to 12 in. below the ceiling. |
| RA3533 | HSW/Rec. HSW | 14 | 26 | 46 | 62.9 | 5.8 | 155,175 | Installed 6 to 12 in. below the ceiling. |
| RA3591 | HSW/Rec. HSW | 12 | 12 | 12 | 7.5 | 4.4 | 165 | Installed 4 to 6 in. below the ceiling. |
| RA3591 | HSW/Rec. HSW | 16 | 16 | 16 | 13.3 | 4.4 | 165 | Installed 4 to 6 in. below the ceiling. |
| RA3591 | HSW/Rec. HSW | 16 | 18 | 18 | 16.8 | 4.4 | 165 | Installed 4 to 6 in. below the ceiling. |
| RA3591 | HSW/Rec. HSW | 18 | 18 | 20 | 18.7 | 4.4 | 165 | Installed 4 to 6 in. below the ceiling. |
| RA3591 | HSW/Rec. HSW | 16 | 20 | 23 | 27.4 | 4.4 | 165 | Installed 4 to 6 in. below the ceiling. |
| RA3591 | HSW/Rec. HSW | 12 | 12 | 14 | 10.2 | 4.4 | 165 | Installed 6 to 12 in. below the ceiling. |
| RA3591 | HSW/Rec. HSW | 14 | 14 | 16 | 13.3 | 4.4 | 165 | Installed 6 to 12 in. below the ceiling. |
| RA3591 | HSW/Rec. HSW | 16 | 16 | 17 | 15 | 4.4 | 165 | Installed 6 to 12 in. below the ceiling. |
| RA3591 | HSW/Rec. HSW | 16 | 18 | 20 | 20.7 | 4.4 | 165 | Installed 6 to 12 in. below the ceiling. |
| RA3591 | HSW/Rec. HSW | 16 | 20 | 23 | 27.4 | 4.4 | 165 | Installed 6 to 12 in. below the ceiling. |
| RA3591 | HSW/Rec. HSW | 14 | 14 | 14 | 10.2 | 4.4 | 165 | Installed 4 to 6 in. below the ceiling. |
| RA3593 | HSW/Rec. HSW | 18 | 20 | 29 | 25 | 5.8 | 165 | Installed 4 to 6 in. below the ceiling. |
| RA3593 | HSW/Rec. HSW | 20 | 20 | 30 | 26.8 | 5.8 | 165 | Installed 4 to 6 in. below the ceiling. |
| RA3593 | HSW/Rec. HSW | 16 | 22 | 33 | 32.4 | 5.8 | 165 | Installed 4 to 6 in. below the ceiling. |
| RA3593 | HSW/Rec. HSW | 16 | 24 | 38 | 42.9 | 5.8 | 165 | Installed 4 to |

| | | | | | | | | |
|--------|---------------|----|----|----|------|-----|-----|--|
| | | | | | | | | 6 in. below the ceiling. |
| RA3593 | HSW/Rec. HSW | 14 | 26 | 42 | 52.4 | 5.8 | 165 | Installed 4 to 6 in. below the ceiling. |
| RA3593 | HSW/Rec. HSW | 18 | 20 | 35 | 36.4 | 5.8 | 165 | Installed 6 to 12 in. below the ceiling. |
| RA3593 | HSW/Rec. HSW | 16 | 22 | 38 | 42.9 | 5.8 | 165 | Installed 6 to 12 in. below the ceiling. |
| RA3593 | HSW/Rec. HSW | 16 | 24 | 42 | 52.4 | 5.8 | 165 | Installed 6 to 12 in. below the ceiling. |
| RA3593 | HSW/Rec. HSW | 14 | 26 | 46 | 62.9 | 5.8 | 165 | Installed 6 to 12 in. below the ceiling. |
| RA4835 | Concealed HSW | 12 | 12 | 12 | 8.2 | 4.2 | 165 | Utilizes 135 °F temperature rated flat coverplate. Installed 4 to 6 in. below the ceiling. |
| RA4835 | Concealed HSW | 14 | 14 | 12 | 8.2 | 4.2 | 165 | Utilizes 135 °F temperature rated flat coverplate. Installed 4 to 6 in. below the ceiling. |
| RA4835 | Concealed HSW | 16 | 16 | 16 | 14.5 | 4.2 | 165 | Utilizes 135 °F temperature rated flat coverplate. Installed 4 to 6 in. below the ceiling. |
| RA4835 | Concealed HSW | 16 | 18 | 18 | 18.4 | 4.2 | 165 | Utilizes 135 °F temperature rated flat coverplate. Installed 4 to 6 in. below the ceiling. |
| RA4835 | Concealed HSW | 16 | 20 | 22 | 27.4 | 4.2 | 165 | Utilizes 135 °F temperature rated flat coverplate. Installed 4 to 6 in. below the ceiling. |
| RA4835 | Concealed HSW | 12 | 12 | 13 | 9.6 | 4.2 | 165 | Utilizes 135 °F |

| | | | | | | | | |
|--------|----------------------|----|----|----|------|-----|---------|---|
| | | | | | | | | temperature rated flat coverplate. Installed 6 to 12 in. below the ceiling. |
| RA4835 | Concealed HSW | 14 | 14 | 14 | 11.1 | 4.2 | 165 | Utilizes 135 °F temperature rated flat coverplate. Installed 6 to 12 in. below the ceiling. |
| RA4835 | Concealed HSW | 16 | 16 | 16 | 14.5 | 4.2 | 165 | Utilizes 135 °F temperature rated flat coverplate. Installed 6 to 12 in. below the ceiling. |
| RA4835 | Concealed HSW | 16 | 18 | 18 | 18.4 | 4.2 | 165 | Utilizes 135 °F temperature rated flat coverplate. Installed 6 to 12 in. below the ceiling. |
| RA4835 | Concealed HSW | 16 | 20 | 23 | 30 | 4.2 | 165 | Utilizes 135 °F temperature rated flat coverplate. Installed 6 to 12 in. below the ceiling. |
| RA5231 | Dry HSW/Rec. Dry HSW | 14 | 14 | 14 | 10.1 | 4.4 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| RA5231 | Dry HSW/Rec. Dry HSW | 16 | 16 | 17 | 14.9 | 4.4 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| RA5231 | Dry HSW/Rec. Dry HSW | 16 | 18 | 18 | 16.7 | 4.4 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| RA5231 | Dry HSW/Rec. Dry HSW | 16 | 20 | 25 | 32.3 | 4.4 | 155,175 | Installed 4 to 6 in. below the ceiling. |
| RA5231 | Dry HSW/Rec. Dry HSW | 14 | 14 | 18 | 16.7 | 4.4 | 155,175 | Installed 6 to 12 in. below the ceiling. |
| RA5231 | Dry HSW/Rec. Dry HSW | 16 | 16 | 21 | 22.8 | 4.4 | 155,175 | Installed 6 to 12 in. below the ceiling. |
| RA5231 | Dry HSW/Rec. Dry HSW | 16 | 18 | 21 | 22.8 | 4.4 | 155,175 | Installed 6 to 12 in. below the ceiling. |

| | | | | | | | | |
|--------|----------------------|----|----|----|------|-----|---------|--|
| RA5231 | Dry HSW/Rec. Dry HSW | 16 | 20 | 26 | 34.9 | 4.4 | 155,175 | Installed 6 to 12 in. below the ceiling. |
|--------|----------------------|----|----|----|------|-----|---------|--|



View older issues in the "Member's Only" section

Tyco Fire Products
<http://www.tycofsbp.com>

Tyco Fire Products is now a Johnson Controls company.

| SIN | Type | Max Spacing (Width) | Max Spacing (Length) | Min Flow | Min Pressure | K-Factor | Temp Rating | Notes: |
|--------|-----------------------|---------------------|----------------------|----------|--------------|----------|-------------|--|
| TY1234 | Pendent, Rec. Pendent | 12 | 12 | 8 | 7.1 | 3 | 155,175 | Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY1234 | Pendent, Rec. Pendent | 14 | 14 | 11 | 13.4 | 3 | 155,175 | Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY1234 | Pendent, Rec. Pendent | 16 | 16 | 13 | 18.8 | 3 | 155,175 | Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY1234 | Pendent, Rec. Pendent | 18 | 18 | 17 | 32.1 | 3 | 155 | Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY1234 | Pendent, Rec. Pendent | 18 | 18 | 18 | 36 | 3 | 175 | Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY1334 | HSW/Rec. HSW | 12 | 12 | 12 | 8.2 | 4.2 | 155,175 | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY1334 | HSW/Rec. HSW | 12 | 12 | 13 | 9.6 | 4.2 | 155,175 | Sprinklers use 1/2 in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |
| TY1334 | HSW/Rec. HSW | 14 | 14 | 14 | 11.1 | 4.2 | 155 | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY1334 | HSW/Rec. HSW | 14 | 14 | 17 | 16.4 | 4.2 | 155 | Sprinklers use 1/2 in. maximum Rec. escutcheon. For |

| | | | | | | | | | |
|--------|-----------------------------|----|----|----|------|-----|---------|--|--|
| | | | | | | | | | installation 6 to 12 in. below ceiling. |
| TY1334 | HSW/Rec. HSW | 16 | 16 | 16 | 14.5 | 4.2 | 155,175 | | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY1334 | HSW/Rec. HSW | 16 | 16 | 18 | 18.4 | 4.2 | 155,175 | | Sprinklers use 1/2 in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |
| TY1334 | HSW/Rec. HSW | 16 | 18 | 19 | 20.5 | 4.2 | 155,175 | | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY1334 | HSW/Rec. HSW | 16 | 18 | 21 | 25 | 4.2 | 155,175 | | Sprinklers use 1/2 in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |
| TY1334 | HSW/Rec. HSW | 16 | 20 | 23 | 30 | 4.2 | 155,175 | | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY1334 | HSW/Rec. HSW | 16 | 20 | 26 | 38.3 | 4.2 | 155,175 | | Sprinklers use 1/2 in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |
| TY2234 | Pendent, Rec. Pendent | 16 | 16 | 13 | 7 | 4.9 | 155,175 | | Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY2234 | Pendent, Rec. Pendent | 18 | 18 | 17 | 12 | 4.9 | 155,175 | | Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY2234 | Concealed Pendent | 16 | 16 | 13 | 7 | 4.9 | 155 | | Use Cover Plate rated 135°F. |
| TY2234 | Concealed Pendent | 18 | 18 | 17 | 12 | 4.9 | 155 | | Use Cover Plate rated 135°F. |
| TY2234 | Concealed Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 155 | | Use Cover Plate rated 135°F. |
| TY2234 | Pendent, Rec. Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 155,175 | | Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY2235 | Pendent, Rec. Pendent | 12 | 12 | 13 | 7 | 4.9 | 155,175 | | Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY2235 | Pendent, Rec. Pendent | 14 | 14 | 14 | 8.2 | 4.9 | 155,175 | | Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY2235 | Pendent, Rec. Pendent | 16 | 16 | 15 | 9.4 | 4.9 | 155,175 | | Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY2235 | Pendent, Rec. | 18 | 18 | 18 | 13.5 | 4.9 | 155,175 | | Sprinklers use 1/2 in. maximum Rec. |

| | | | | | | | | |
|--------|-----------------------------|----|----|----|------|-----|---------|---|
| | Pendent | | | | | | | escutcheon. |
| TY2235 | Pendent, Rec. Pendent | 20 | 20 | 21 | 18.4 | 4.9 | 155,175 | Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY2284 | Flush Pendent | 14 | 14 | 13 | 9.6 | 4.2 | 162 | |
| TY2284 | Flush Pendent | 16 | 16 | 14 | 11.1 | 4.2 | 162 | |
| TY2284 | Flush Pendent | 18 | 18 | 18 | 18.4 | 4.2 | 162 | |
| TY2284 | Flush Pendent | 20 | 20 | 22 | 27.4 | 4.2 | 162 | |
| TY2334 | HSW/Rec. HSW | 12 | 12 | 13 | 8.7 | 4.4 | 155,175 | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |
| TY2334 | HSW/Rec. HSW | 14 | 14 | 14 | 10.1 | 4.4 | 155,175 | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |
| TY2334 | HSW/Rec. HSW | 16 | 16 | 16 | 13.2 | 4.4 | 155,175 | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY2334 | HSW/Rec. HSW | 16 | 16 | 17 | 14.9 | 4.4 | 155,175 | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY2334 | HSW/Rec. HSW | 16 | 18 | 19 | 18.6 | 4.4 | 155,175 | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY2334 | HSW/Rec. HSW | 16 | 18 | 20 | 20.7 | 4.4 | 155,175 | Sprinklers use 1/2 in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |
| TY2334 | HSW/Rec. HSW | 16 | 20 | 23 | 27.3 | 4.4 | 155,175 | Sprinklers use 1/2 in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |
| TY2334 | HSW/Rec. HSW | 18 | 18 | 23 | 27.3 | 4.4 | 155,175 | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |

| | | | | | | | | |
|--------|-----------------|----|----|----|------|------|---------|--|
| TY2334 | HSW/Rec. HSW | 18 | 20 | 26 | 29.8 | 4.4 | 155,175 | Sprinklers use 1/2 in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |
| TY2335 | HSW/Rec. HSW | 12 | 12 | 15 | 11.6 | 4.4 | 155 | Sprinklers use 1/2 in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |
| TY2335 | HSW/Rec. HSW | 14 | 14 | 16 | 11.6 | 13.2 | 155 | Sprinklers use 1/2 in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |
| TY2335 | HSW/Rec. HSW | 16 | 16 | 19 | 18.6 | 4.4 | 155 | Sprinklers use 1/2 in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |
| TY2335 | HSW/Rec. HSW | 16 | 18 | 20 | 20.7 | 4.4 | 155 | Sprinklers use 1/2 in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |
| TY2335 | HSW/Rec. HSW | 16 | 20 | 25 | 32.3 | 4.4 | 155 | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |
| TY2335 | HSW/Rec. HSW | 12 | 12 | 13 | 8.7 | 4.4 | 155 | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY2335 | HSW/Rec. HSW | 14 | 14 | 14 | 10.1 | 4.4 | 155 | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY2335 | HSW/Rec. HSW | 16 | 16 | 18 | 16.7 | 4.4 | 155 | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY2335 | HSW/Rec. HSW | 16 | 18 | 19 | 18.6 | 4.4 | 155 | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY2384 | Flush HSW | 12 | 12 | 13 | 9.6 | 4.2 | 162 | For installation 4 to 6 in. below ceiling |
| TY2384 | Flush HSW | 14 | 14 | 16 | 14.5 | 4.2 | 162 | For installation 4 to 6 in. below ceiling |
| TY2384 | Flush HSW | 16 | 16 | 20 | 22.7 | 4.2 | 162 | For installation 4 to 6 in. below ceiling |

| | | | | | | | | |
|--------|-------------------|----|----|----|------|-----|---------|---|
| TY2524 | Concealed Pendent | 16 | 16 | 13 | 7 | 4.9 | 160 | Use Cover Plate rated 135°F. |
| TY2524 | Concealed Pendent | 18 | 18 | 17 | 12 | 4.9 | 160 | Use Cover Plate rated 135°F. |
| TY2524 | Concealed Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 160 | Use Cover Plate rated 135°F. |
| TY2524 | Concealed Pendent | 12 | 12 | 15 | 9.4 | 4.9 | 160 | Suitable for Dry Systems. |
| TY2524 | Concealed Pendent | 14 | 14 | 15 | 9.4 | 4.9 | 160 | Suitable for Dry Systems. |
| TY2524 | Concealed Pendent | 16 | 16 | 16 | 10.7 | 4.9 | 160 | Suitable for Dry Systems. |
| TY2524 | Concealed Pendent | 18 | 18 | 17 | 12 | 4.9 | 160 | Suitable for Dry Systems. |
| TY2524 | Concealed Pendent | 20 | 20 | 21 | 18.4 | 4.9 | 160 | Suitable for Dry Systems. |
| TY2596 | Concealed Pendent | 12 | 12 | 13 | 9.6 | 4.2 | 160 | Use Cover Plate rated 135°F. |
| TY2596 | Concealed Pendent | 14 | 14 | 14 | 11.1 | 4.2 | 160 | Use Cover Plate rated 135°F. |
| TY2596 | Concealed Pendent | 16 | 16 | 16 | 14.5 | 4.2 | 160 | Use Cover Plate rated 135°F. |
| TY2596 | Concealed Pendent | 18 | 18 | 20 | 22.7 | 4.2 | 160 | Use Cover Plate rated 135°F. |
| TY2596 | Concealed Pendent | 20 | 20 | 24 | 32.7 | 4.2 | 160 | Use Cover Plate rated 135°F. |
| TY3334 | HSW/Rec. HSW | 12 | 12 | 17 | 9.2 | 5.6 | 155,175 | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY3334 | HSW/Rec. HSW | 14 | 14 | 19 | 11.5 | 5.6 | 155,175 | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY3334 | HSW/Rec. HSW | 16 | 14 | 22 | 15.4 | 5.6 | 155,175 | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY3334 | HSW/Rec. HSW | 16 | 16 | 24 | 18.4 | 5.6 | 155,175 | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY3334 | HSW/Rec. HSW | 16 | 18 | 26 | 21.6 | 5.6 | 155,175 | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY3334 | HSW/Rec. HSW | 16 | 20 | 29 | 26.8 | 5.6 | 155,175 | For installation 4 to 6 in. below ceiling Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY3334 | HSW/Rec. | 12 | 12 | 20 | 12.8 | 5.6 | 155,175 | Sprinklers use 1/2 |

| | | | | | | | | | |
|--------|-----------------------|----|----|----|------|-----|---------|--|---|
| | HSW | | | | | | | | in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |
| TY3334 | HSW/Rec. HSW | 14 | 14 | 22 | 15.4 | 5.6 | 155,175 | | Sprinklers use 1/2 in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |
| TY3334 | HSW/Rec. HSW | 16 | 14 | 24 | 18.4 | 5.6 | 155,175 | | Sprinklers use 1/2 in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |
| TY3334 | HSW/Rec. HSW | 16 | 16 | 28 | 25 | 5.6 | 155,175 | | Sprinklers use 1/2 in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |
| TY3334 | HSW/Rec. HSW | 16 | 18 | 31 | 30.6 | 5.6 | 155,175 | | Sprinklers use 1/2 in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |
| TY3334 | HSW/Rec. HSW | 16 | 20 | 37 | 43.7 | 5.6 | 155,175 | | Sprinklers use 1/2 in. maximum Rec. escutcheon. For installation 6 to 12 in. below ceiling. |
| TY3596 | Concealed Pendant | 16 | 16 | 13 | 7 | 4.9 | 160 | | Use Cover Plate rated 135°F. |
| TY3596 | Concealed Pendant | 18 | 18 | 17 | 12 | 4.9 | 160 | | Use Cover Plate rated 135°F. |
| TY3596 | Concealed Pendant | 20 | 20 | 20 | 16.7 | 4.9 | 160 | | Use Cover Plate rated 135°F. |
| TY3934 | Pendant, Rec. Pendant | 16 | 16 | 16 | 7.6 | 5.8 | 155,175 | | Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY3934 | Pendant, Rec. Pendant | 18 | 18 | 18 | 9.6 | 5.8 | 155,175 | | Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY3934 | Pendant, Rec. Pendant | 20 | 20 | 20 | 11.9 | 5.8 | 155,175 | | Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY4234 | Pendant, Rec. Pendant | 18 | 18 | 19 | 7.6 | 6.9 | 155,175 | | Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY4234 | Pendant, Rec. Pendant | 20 | 20 | 22 | 10.2 | 6.9 | 155,175 | | Sprinklers use 1/2 in. maximum Rec. escutcheon. |
| TY4234 | Concealed Pendant | 16 | 16 | 19 | 7.6 | 6.9 | 155,175 | | Use Cover Plate rated 135°F. |
| TY4234 | Concealed Pendant | 18 | 18 | 21 | 9.3 | 6.9 | 155,175 | | Use Cover Plate rated 135°F. |
| TY4234 | Concealed Pendant | 20 | 20 | 24 | 12.1 | 6.9 | 155,175 | | Use Cover Plate rated 135°F. |
| TY4334 | HSW/Rec. HSW | 12 | 12 | 19 | 10.7 | 5.8 | 155,175 | | For installation 4 to 6 in. below ceiling |

| SIN | Type | Max Spacing (Width) | Max. Spacing (Length) | Min Flow | Min Pressure | K-Factor | Temp Rating | RESIDENTIAL SPRINKLERS FOR USE IN DRY SYSTEMS |
|------------|-----------------------|----------------------------|------------------------------|-----------------|---------------------|-----------------|--------------------|--|
| TY1334 | HSW, Rec. HSW | 12 | 12 | 12 | 8.2 | 4.2 | 155,175 | For installation 4 to 6 in. below ceiling. |
| TY1334 | HSW, Rec. HSW | 12 | 12 | 13 | 9.6 | 4.2 | 155,175 | For installation 6 to 12 in. below ceiling. |
| TY1334 | HSW, Rec. HSW | 14 | 14 | 16 | 14.5 | 4.2 | 155,175 | For installation 4 to 6 in. below ceiling. |
| TY1334 | HSW, Rec. HSW | 14 | 14 | 18 | 18.4 | 4.2 | 155,175 | For installation 6 to 12 in. below ceiling. |
| TY1334 | HSW, Rec. HSW | 16 | 16 | 16 | 14.5 | 4.2 | 155,175 | For installation 4 to 6 in. below ceiling. |
| TY1334 | HSW, Rec. HSW | 16 | 16 | 18 | 18.4 | 4.2 | 155 | For installation 6 to 12 in. below ceiling. |
| TY1334 | HSW, Rec. HSW | 16 | 16 | 21 | 25 | 4.2 | 175 | For installation 6 to 12 in. below ceiling. |
| TY1334 | HSW, Rec. HSW | 16 | 18 | 19 | 20.5 | 4.2 | 155 | For installation 4 to 6 in. below ceiling. |
| TY1334 | HSW, Rec. HSW | 16 | 18 | 21 | 25 | 4.2 | 155,175 | For installation 6 to 12 in. below ceiling. |
| TY1334 | HSW, Rec. HSW | 16 | 20 | 23 | 30 | 4.2 | 155 | For installation 4 to 6 in. below ceiling. |
| TY2234 | Pendent, Rec. Pendent | 12 | 12 | 15 | 9.4 | 4.9 | 155,175 | |
| TY2234 | Pendent, Rec. Pendent | 16 | 16 | 15 | 9.4 | 4.9 | 155,175 | |
| TY2234 | Pendent, Rec. Pendent | 18 | 18 | 17 | 12 | 4.9 | 155,175 | |
| TY2234 | Pendent, Rec. Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 155,175 | |
| TY2235 | Pendent, Rec. Pendent | 12 | 12 | 13 | 7.3 | 4.8 | 155,175 | |
| TY2235 | Concealed Pendent | 12 | 12 | 13 | 7.3 | 4.8 | 155,175 | |
| TY2235 | Pendent, Rec. Pendent | 14 | 14 | 14 | 8.5 | 4.8 | 155,175 | |
| TY2235 | Concealed Pendent | 14 | 14 | 14 | 8.5 | 4.8 | 155,175 | |
| TY2235 | Pendent, | 16 | 16 | 15 | 9.8 | 4.8 | 155,175 | |

| | | | | | | | | |
|--------|-----------------------------|----|----|----|------|-----|---------|--|
| | Rec. Pendent | | | | | | | |
| TY2235 | Concealed Pendent | 16 | 16 | 15 | 9.8 | 4.8 | 155,175 | |
| TY2235 | Pendent, Rec. Pendent | 18 | 18 | 18 | 14.1 | 4.8 | 155,175 | |
| TY2235 | Concealed Pendent | 18 | 18 | 20 | 17.4 | 4.8 | 155,175 | |
| TY2235 | Pendent, Rec. Pendent | 20 | 20 | 21 | 19.1 | 4.8 | 155 | |
| TY2235 | Concealed Pendent | 20 | 20 | 22 | 21 | 4.8 | 155 | |

Upcoming In-Class Seminars
Capital Region Fire Sprinkler Association
MD Inspector Training
 Laurel, MD
 October 4, 2017

2 Week Layout Technician Training
 Baltimore, MD
 10/16/2017-10/27/2017

Coordinating NFPA 25 & NFPA 72,
Standpipes
&
Rough and Final Inspections
 Colorado Springs, CO
 10/17/2017-10/19/2017

Register Here

Victaulic Company
<https://www.victaulic.com/fire-products/>

| SIN | Type | Max. Spacing (Width) | Max. Spacing (Length) | Min Flow | Min Pressure | K- Factor | Temp Rating | Notes |
|-------|-------------------------|----------------------------|-----------------------------|-------------|-----------------|--------------|----------------|---|
| V2730 | Pendent/Rec. Pendent | 16 | 16 | 13 | 7 | 4.9 | 155,175 | Rec. sprinkler uses escutcheon with 1/2 in. adjustment. |
| V2732 | Pendent/Rec. | 12 | 12 | 13 | 7 | 4.9 | 155,175 | Rec. sprinkler |

| | | | | | | | | |
|-------|-------------------------|----|----|----|------|-----|---------|---|
| | Pendent | | | | | | | uses escutcheon with 1/2 in. adjustment. |
| V2732 | Pendent/Rec. Pendent | 18 | 18 | 17 | 12 | 4.9 | 155,175 | Rec. sprinkler uses escutcheon with 1/2 in. adjustment. |
| V2732 | Pendent/Rec. Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 155,175 | Rec. sprinkler uses escutcheon with 1/2 in. adjustment. |
| V2734 | Concealed Pendent | 14 | 14 | 13 | 7 | 4.9 | 155 | Uses 135 F cover plate. |
| V2734 | Concealed Pendent | 16 | 16 | 14 | 8.2 | 4.9 | 155 | Uses 135 F cover plate. |
| V2736 | Concealed Pendent | 12 | 12 | 13 | 7 | 4.9 | 155 | Uses 135 F cover plate. |
| V2736 | Concealed Pendent | 18 | 18 | 17 | 12 | 4.9 | 155 | Uses 135 F cover plate. |
| V2736 | Concealed Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 155 | Uses 135 F cover plate. |
| V2738 | HSW.Rec. HSW | 12 | 12 | 14 | 11.1 | 4.2 | 155,175 | 4 to 6 inches down from ceiling. |
| V2738 | HSW.Rec. HSW | 14 | 14 | 14 | 11.1 | 4.2 | 155,175 | 4 to 6 inches down from ceiling. |
| V2738 | HSW.Rec. HSW | 16 | 16 | 17 | 16.4 | 4.2 | 155,175 | 4 to 6 inches down from ceiling. |
| V2738 | HSW.Rec. HSW | 16 | 18 | 19 | 20.5 | 4.2 | 155,175 | 4 to 6 inches down from ceiling. |
| V2738 | HSW.Rec. HSW | 16 | 20 | 23 | 30 | 4.2 | 155,175 | 4 to 6 inches down from ceiling. |
| V2738 | HSW.Rec. HSW | 12 | 12 | 15 | 12.7 | 4.2 | 155,175 | 6 to12 inches down from ceiling. |
| V2738 | HSW.Rec. HSW | 14 | 14 | 17 | 16.4 | 4.2 | 155,175 | 6 to12 inches down from ceiling. |
| V2738 | HSW.Rec. HSW | 16 | 16 | 19 | 20.5 | 4.2 | 155,175 | 6 to12 inches down from ceiling. |
| V2738 | HSW.Rec. HSW | 16 | 18 | 24 | 32.6 | 4.2 | 155,175 | 6 to12 inches down from ceiling. |
| V2738 | HSW.Rec. HSW | 16 | 20 | 28 | 44.4 | 4.2 | 155,175 | 6 to12 inches down from ceiling. |
| V2740 | Pendent/Rec. Pendent | 12 | 12 | 13 | 7 | 4.9 | 155,175 | Rec. sprinkler uses escutcheon |

| | | | | | | | | |
|-------|-------------------------|----|----|----|------|-----|---------|---|
| | | | | | | | | with 3/4 in. adjustment. |
| V2740 | Pendent/Rec. Pendent | 16 | 16 | 13 | 7 | 4.9 | 155,175 | Rec. sprinkler uses escutcheon with 3/4 in. adjustment. |
| V2740 | Pendent/Rec. Pendent | 18 | 18 | 17 | 12 | 4.9 | 155,175 | Rec. sprinkler uses escutcheon with 3/4 in. adjustment. |
| V2740 | Pendent/Rec. Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 155,175 | Rec. sprinkler uses escutcheon with 1/2 in. adjustment. |
| V2742 | Concealed Pendent | 12 | 12 | 13 | 7 | 4.9 | 155 | Uses 135 F cover plate. |
| V2742 | Concealed Pendent | 16 | 16 | 13 | 7 | 4.9 | 155 | Uses 135 F cover plate. |
| V2742 | Concealed Pendent | 18 | 18 | 17 | 12 | 4.9 | 155 | Uses 135 F cover plate. |
| V2742 | Concealed Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 155 | Uses 135 F cover plate. |
| V2744 | HSW.Rec. HSW | 12 | 12 | 15 | 7.2 | 5.6 | 155 | 6 to12 inches down from ceiling. |
| V2744 | HSW.Rec. HSW | 12 | 12 | 16 | 8.2 | 5.6 | 175 | 6 to12 inches down from ceiling. |
| V2744 | HSW.Rec. HSW | 12 | 12 | 17 | 9.2 | 5.6 | 155,175 | 6 to12 inches down from ceiling. |
| V2744 | HSW.Rec. HSW | 14 | 14 | 19 | 11.5 | 5.6 | 155,175 | 6 to12 inches down from ceiling. |
| V2744 | HSW.Rec. HSW | 14 | 14 | 22 | 15.4 | 5.6 | 155,175 | 6 to12 inches down from ceiling. |
| V2744 | HSW.Rec. HSW | 16 | 16 | 23 | 16.9 | 5.6 | 155,175 | 6 to12 inches down from ceiling. |
| V2744 | HSW.Rec. HSW | 16 | 16 | 27 | 23.2 | 5.6 | 155,175 | 6 to12 inches down from ceiling. |
| V2744 | HSW.Rec. HSW | 16 | 18 | 25 | 19.9 | 5.6 | 155,175 | 6 to12 inches down from ceiling. |
| V2744 | HSW.Rec. HSW | 16 | 18 | 31 | 30.6 | 5.6 | 155,175 | 6 to12 inches down from ceiling. |
| V2744 | HSW.Rec. HSW | 16 | 20 | 30 | 28.7 | 5.6 | 155,175 | 6 to12 inches down from ceiling. |
| V2744 | HSW.Rec. HSW | 16 | 20 | 37 | 43.7 | 5.6 | 155,175 | 6 to12 inches down from |

| | | | | | | | | |
|-------|-------------------------|----|----|----|------|-----|---------|---|
| | | | | | | | | ceiling. |
| V2902 | Flush | 12 | 12 | 11 | 7.2 | 4.1 | 155 | |
| V2902 | Flush | 14 | 14 | 11 | 7.2 | 4.1 | 155 | |
| V2902 | Flush | 16 | 16 | 13 | 10.1 | 4.1 | 155 | |
| V2902 | Flush | 18 | 18 | 17 | 17.2 | 4.1 | 155 | |
| V2902 | Flush | 20 | 20 | 20 | 23.8 | 4.1 | 155 | |
| V3426 | Pendent/Rec. Pendent | 18 | 18 | 20 | 8.4 | 6.9 | 155,175 | Rec. sprinkler uses escutcheon with 3/4 in. adjustment. |
| V3426 | Pendent/Rec. Pendent | 20 | 20 | 22 | 10.2 | 6.9 | 155,175 | Rec. sprinkler uses escutcheon with 3/4 in. adjustment. |
| V3806 | Concealed Pendent | 16 | 16 | 16 | 8.2 | 5.6 | 155 | Uses 135 F cover plate. |
| V3806 | Concealed Pendent | 18 | 18 | 21 | 14.1 | 5.6 | 155 | Uses 135 F cover plate. |
| V3806 | Concealed Pendent | 20 | 20 | 25 | 19.9 | 5.6 | 155 | Uses 135 F cover plate. |

The Viking Corp.
<http://www.vikingcorp.com/>

| SIN | Type | Max. Spacing (Width) | Max. Spacing (Length) | Min Flow | Min Pressure | K-Factor | Temp Rating | Notes: |
|------------|-------------------------|-----------------------------|------------------------------|-----------------|---------------------|-----------------|--------------------|---|
| VK4300 | Pendent/Rec. Pendent | 12 | 12 | 12 | 7.8 | 4.3 | 155,175 | |
| VK4300 | Pendent/Rec. Pendent | 16 | 16 | 13 | 9.1 | 4.3 | 155,175 | |
| VK4300 | Pendent/Rec. Pendent | 18 | 18 | 17 | 21.1 | 4.3 | 155,175 | |
| VK4300 | Pendent/Rec. Pendent | 20 | 20 | 21 | 23.8 | 4.3 | 155,175 | |
| VK430 | Pendent/Rec. Pendent | 12 | 12 | 12 | 7.8 | 4.3 | 155,175 | May utilize a corrosion resistant Nickel coating. |
| VK430 | Pendent/Rec. Pendent | 16 | 16 | 13 | 9.1 | 4.3 | 155,175 | May utilize a corrosion resistant Nickel coating. |
| VK430 | Pendent/Rec. Pendent | 18 | 18 | 17 | 21.1 | 4.3 | 155,175 | May utilize a corrosion resistant Nickel coating. |
| VK430 | Pendent/Rec. Pendent | 20 | 20 | 21 | 23.8 | 4.3 | 155,175 | May utilize a corrosion resistant Nickel coating. |
| VK434 | Pendent/Rec. Pendent | 12 | 12 | 11 | 13.4 | 3 | 155 | |

| | | | | | | | | |
|--------|-------------------------|----|----|----|------|-----|---------|---|
| VK434 | Pendent/Rec. Pendent | 16 | 16 | 13 | 18.8 | 3 | 155 | |
| VK436 | Pendent/Rec. Pendent | 16 | 16 | 14 | 7.2 | 5.2 | 155,175 | |
| VK436 | Pendent/Rec. Pendent | 18 | 18 | 17 | 10.7 | 5.2 | 155,175 | |
| VK436 | Concealed Pendent | 14 | 14 | 14 | 7.2 | 5.2 | 155 | Utilizes a 135 F cover plate. |
| VK436 | Concealed Pendent | 16 | 16 | 15 | 8.3 | 5.2 | 155 | Utilizes a 135 F cover plate. |
| VK436 | Concealed Pendent | 18 | 18 | 17 | 10.7 | 5.2 | 155 | Utilizes a 135 F cover plate. |
| VK436 | Concealed Pendent | 20 | 20 | 20 | 14.8 | 5.2 | 155 | Utilizes a 135 F cover plate. |
| VK436 | Pendent/Rec. Pendent | 20 | 20 | 20 | 14.8 | 5.2 | 155,175 | Deflector 3. in to 5, in below ceiling. |
| VK438 | Pendent/Rec. Pendent | 16 | 16 | 13 | 7 | 4.9 | 155,175 | |
| VK438 | Pendent/Rec. Pendent | 18 | 18 | 17 | 12 | 4.9 | 155,175 | |
| VK438 | Concealed Pendent | 14 | 14 | 13 | 7 | 4.9 | 155 | Utilizes a 135 F cover plate. |
| VK438 | Concealed Pendent | 16 | 16 | 14 | 8.2 | 4.9 | 155 | Utilizes a 135 F cover plate. |
| VK438 | Concealed Pendent | 18 | 18 | 17 | 12 | 4.9 | 155 | Utilizes a 135 F cover plate. |
| VK4570 | Concealed Pendent | 16 | 16 | 13 | 7 | 4.9 | 165 | Utilizes a 135 F Round or Square cover plate. |
| VK4570 | Concealed Pendent | 18 | 18 | 17 | 12 | 4.9 | 165,205 | Utilizes a 135 F Round or Square cover plate. |
| VK4570 | Concealed Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 165 | Utilizes a 135 F Round or Square cover plate. |
| VK4570 | Concealed Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 205 | Utilizes a 135 F Round or Square cover plate. |
| VK4570 | Concealed Pendent | 12 | 12 | 13 | 7 | 4.9 | 205 | Utilizes a 135 F Round or Square cover plate. May utilize a corrosion resistant Nickel coating. |
| VK4570 | Concealed Pendent | 16 | 16 | 14 | 8.1 | 4.9 | 205 | Utilizes a 135 F Round or Square cover plate. May utilize a corrosion resistant Nickel coating. |
| VK457 | Concealed Pendent | 12 | 12 | 13 | 7 | 4.9 | 205 | Utilizes a 135 F Round or Square cover plate. May utilize a |

| | | | | | | | | |
|--------|----------------------|----|----|----|------|-----|---------|---|
| | | | | | | | | corrosion resistant Nickel coating. |
| VK457 | Concealed Pendent | 16 | 16 | 14 | 8.1 | 4.9 | 205 | Utilizes a 135 F Round or Square cover plate. May utilize a corrosion resistant Nickel coating. |
| VK457 | Concealed Pendent | 16 | 16 | 13 | 7 | 4.9 | 165 | Utilizes a 135 F Round or Square cover plate. May utilize a corrosion resistant Nickel coating. |
| VK457 | Concealed Pendent | 18 | 18 | 17 | 12 | 4.9 | 165,205 | Utilizes a 135 F Round or Square cover plate. May utilize a corrosion resistant Nickel coating. |
| VK457 | Concealed Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 165 | Utilizes a 135 F Round or Square cover plate. May utilize a corrosion resistant Nickel coating. |
| VK457 | Concealed Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 205 | Utilizes a 135 F Round or Square cover plate. May utilize a corrosion resistant Nickel coating. |
| VK458 | Pendent/Rec. Pendent | 16 | 16 | 20 | 7.3 | 7.4 | 155,175 | |
| VK458 | Concealed Pendent | 16 | 16 | 20 | 7.3 | 7.4 | 155 | Utilizes a 135 F cover plate. May utilize a corrosion resistant Nickel coating. |
| VK458 | Concealed Pendent | 18 | 18 | 23 | 9.7 | 7.4 | 155 | Utilizes a 135 F cover plate. May utilize a corrosion resistant Nickel coating. |
| VK458 | Concealed Pendent | 20 | 20 | 28 | 14.3 | 7.4 | 155 | Utilizes a 135 F cover plate. May utilize a corrosion resistant Nickel coating. |
| VK4580 | Pendent/Rec. | 16 | 16 | 20 | 7.3 | 7.4 | 155,175 | |

| | | | | | | | | |
|--------|-------------------------|----|----|----|------|-----|---------|---|
| | Pendent | | | | | | | |
| VK4580 | Pendent/Rec. Pendent | 18 | 18 | 22 | 8.8 | 7.4 | 155,175 | |
| VK4580 | Pendent/Rec. Pendent | 20 | 20 | 24 | 10.5 | 7.4 | 155,175 | |
| VK4580 | Concealed Pendent | 16 | 16 | 20 | 7.3 | 7.4 | 155 | Utilizes a 135 F cover plate. |
| VK4580 | Concealed Pendent | 18 | 18 | 23 | 9.7 | 7.4 | 155 | Utilizes a 135 F cover plate. |
| VK4580 | Concealed Pendent | 20 | 20 | 28 | 14.3 | 7.4 | 155 | Utilizes a 135 F cover plate. |
| VK458 | Pendent/Rec. Pendent | 18 | 18 | 22 | 8.8 | 7.4 | 155,175 | May utilize a corrosion resistant Nickel coating. |
| VK458 | Pendent/Rec. Pendent | 20 | 20 | 24 | 10.5 | 7.4 | 155,175 | May utilize a corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 12 | 12 | 16 | 7.6 | 5.8 | 155,175 | For Installation 4 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 14 | 14 | 18 | 9.7 | 5.8 | 155,175 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 16 | 16 | 24 | 18.4 | 5.8 | 155,175 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 16 | 18 | 27 | 21.7 | 5.8 | 155,175 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 16 | 20 | 32 | 30.4 | 5.8 | 155,175 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 16 | 22 | 37 | 40.7 | 5.8 | 155 | For installation 6 to 12 in. below the ceiling. May utilize a |

| | | | | | | | | |
|-------|-----------------|----|----|----|------|-----|---------|---|
| | | | | | | | | corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 18 | 18 | 29 | 25 | 5.8 | 155,175 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 18 | 20 | 35 | 36.4 | 5.8 | 155,175 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 20 | 20 | 36 | 38.5 | 5.8 | 155,175 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 16 | 24 | 42 | 52.4 | 5.8 | 155 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 14 | 26 | 46 | 62.9 | 5.8 | 155 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 14 | 14 | 16 | 7.6 | 5.8 | 155,175 | For installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 16 | 16 | 20 | 11.9 | 5.8 | 155 | For installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 16 | 16 | 21 | 13.1 | 5.8 | 175 | For installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |

| | | | | | | | | |
|--------|-----------------|----|----|----|------|-----|---------|--|
| VK460 | HSW/Rec. HSW | 16 | 18 | 22 | 14.4 | 5.8 | 155,175 | For installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 16 | 20 | 26 | 20.1 | 5.8 | 155,175 | For installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 16 | 22 | 31 | 28.6 | 5.8 | 155 | For installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 18 | 18 | 23 | 15.7 | 5.8 | 155,175 | For installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 18 | 20 | 29 | 25 | 5.8 | 155,175 | For installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 20 | 20 | 30 | 26.8 | 5.8 | 155,175 | For installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 16 | 24 | 38 | 42.9 | 5.8 | 155 | For installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK460 | HSW/Rec. HSW | 14 | 26 | 42 | 52.4 | 5.8 | 155 | For installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK4600 | HSW/Rec. HSW | 12 | 12 | 16 | 7.6 | 5.8 | 155,175 | For installation 4 to 6 in. below the ceiling. |

| | | | | | | | | |
|--------|-----------------|----|----|----|------|-----|---------|---|
| VK4600 | HSW/Rec. HSW | 14 | 14 | 16 | 7.6 | 5.8 | 155,175 | For installation 4 to 6 in. below the ceiling. |
| VK4600 | HSW/Rec. HSW | 16 | 16 | 20 | 11.9 | 5.8 | 155 | For installation 4 to 6 in. below the ceiling. |
| VK4600 | HSW/Rec. HSW | 16 | 16 | 21 | 13.1 | 5.8 | 175 | For installation 4 to 6 in. below the ceiling. |
| VK4600 | HSW/Rec. HSW | 16 | 18 | 22 | 14.4 | 5.8 | 155,175 | For installation 4 to 6 in. below the ceiling. |
| VK4600 | HSW/Rec. HSW | 16 | 20 | 26 | 20.1 | 5.8 | 155,175 | For installation 4 to 6 in. below the ceiling. |
| VK4600 | HSW/Rec. HSW | 16 | 22 | 31 | 28.6 | 5.8 | 155 | For installation 4 to 6 in. below the ceiling. |
| VK4600 | HSW/Rec. HSW | 18 | 18 | 23 | 15.7 | 5.8 | 155,175 | For installation 4 to 6 in. below the ceiling. |
| VK4600 | HSW/Rec. HSW | 18 | 20 | 29 | 25 | 5.8 | 155,175 | For installation 4 to 6 in. below the ceiling. |
| VK4600 | HSW/Rec. HSW | 20 | 20 | 30 | 26.8 | 5.8 | 155,175 | For installation 4 to 6 in. below the ceiling. |
| VK4600 | HSW/Rec. HSW | 16 | 24 | 38 | 42.9 | 5.8 | 155 | For installation 4 to 6 in. below the ceiling. |
| VK4600 | HSW/Rec. HSW | 14 | 26 | 42 | 52.4 | 5.8 | 155 | For installation 4 to 6 in. below the ceiling. |
| VK4600 | HSW/Rec. HSW | 14 | 14 | 18 | 9.7 | 5.8 | 155,175 | For installation 6 to 12 in. below the ceiling. |
| VK4600 | HSW/Rec. HSW | 16 | 16 | 24 | 18.4 | 5.8 | 155,175 | For installation 6 to 12 in. below the ceiling. |
| VK4600 | HSW/Rec. HSW | 16 | 18 | 27 | 21.7 | 5.8 | 155,175 | For installation 6 to 12 in. below the ceiling. |
| VK4600 | HSW/Rec. HSW | 16 | 20 | 32 | 30.4 | 5.8 | 155,175 | For installation 6 to 12 in. below the ceiling. |
| VK4600 | HSW/Rec. HSW | 16 | 22 | 37 | 40.7 | 5.8 | 155 | For installation 6 to 12 in. below the ceiling. |
| VK4600 | HSW/Rec. HSW | 18 | 18 | 29 | 25 | 5.8 | 155,175 | For installation 6 to 12 in. below the ceiling. |
| VK4600 | HSW/Rec. HSW | 18 | 20 | 35 | 36.4 | 5.8 | 155,175 | For installation 6 to 12 in. below the ceiling. |
| VK4600 | HSW/Rec. HSW | 20 | 20 | 36 | 38.5 | 5.8 | 155,175 | For installation 6 to 12 in. below the ceiling. |

| | | | | | | | | |
|--------|-------------------------|----|----|----|------|-----|---------|---|
| VK4600 | HSW/Rec. HSW | 16 | 24 | 42 | 52.4 | 5.8 | 155 | For installation 6 to 12 in. below the ceiling. |
| VK4600 | HSW/Rec. HSW | 14 | 26 | 46 | 62.9 | 5.8 | 155 | For installation 6 to 12 in. below the ceiling. |
| VK466 | Concealed Pendent | 16 | 16 | 14 | 7.2 | 5.2 | 155,175 | Utilizes a 135 F cover plate. May utilize a corrosion resistant Nickel coating. |
| VK466 | Concealed Pendent | 18 | 18 | 17 | 10.7 | 5.2 | 155,175 | Utilizes a 135 F cover plate. May utilize a corrosion resistant Nickel coating. |
| VK466 | Concealed Pendent | 20 | 20 | 20 | 14.8 | 5.2 | 155,175 | Utilizes a 135 F cover plate. May utilize a corrosion resistant Nickel coating. |
| VK4660 | Pendent/Rec. Pendent | 16 | 16 | 14 | 7.2 | 5.2 | 155,175 | |
| VK4660 | Pendent/Rec. Pendent | 18 | 18 | 17 | 10.7 | 5.2 | 155,175 | |
| VK4660 | Pendent/Rec. Pendent | 20 | 20 | 20 | 14.8 | 5.2 | 155,175 | |
| VK4660 | Pendent/Rec. Pendent | 16 | 16 | 14 | 7.2 | 5.2 | 155 | |
| VK4660 | Pendent/Rec. Pendent | 18 | 18 | 17 | 10.7 | 5.2 | 155 | |
| VK4660 | pendent/Rec. Pendent | 20 | 20 | 21 | 16.3 | 5.2 | 155 | |
| VK4660 | Concealed Pendent | 16 | 16 | 14 | 7.2 | 5.2 | 155,175 | Utilizes a 135 F cover plate. |
| VK4660 | Concealed Pendent | 18 | 18 | 17 | 10.7 | 5.2 | 155,175 | Utilizes a 135 F cover plate. |
| VK4660 | Concealed Pendent | 20 | 20 | 20 | 14.8 | 5.2 | 155,175 | Utilizes a 135 F cover plate. |
| VK466 | Pendent/Rec. Pendent | 16 | 16 | 14 | 7.2 | 5.2 | 155,175 | May utilize a corrosion resistant Nickel coating. |
| VK466 | pendent/Rec. Pendent | 18 | 18 | 17 | 10.7 | 5.2 | 155,175 | May utilize a corrosion resistant Nickel coating. |
| VK466 | Pendent/Rec. Pendent | 20 | 20 | 20 | 14.8 | 5.2 | 155,175 | May utilize a corrosion resistant Nickel coating. |
| VK466 | Pendent/Rec. Pendent | 16 | 16 | 14 | 7.2 | 5.2 | 155 | May utilize a corrosion resistant Nickel coating. |

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| VK466 | Pendent/Rec. Pendent | 18 | 18 | 17 | 10.7 | 5.2 | 155 | May utilize a corrosion resistant Nickel coating. |
| VK466 | pendent/Rec. Pendent | 20 | 20 | 21 | 16.3 | 5.2 | 155 | May utilize a corrosion resistant Nickel coating. |
| VK467 | Upright | 12 | 12 | 15 | 9.4 | 4.9 | 155,175 | For installation 5 to 10 in. below the ceiling. |
| VK467 | Upright | 14 | 14 | 15 | 9.4 | 4.9 | 155,175 | For installation 5 to 10 in. below the ceiling. |
| VK467 | Upright | 16 | 16 | 18 | 13.5 | 4.9 | 155,175 | For installation 5 to 10 in. below the ceiling. |
| VK467 | Upright | 12 | 12 | 14 | 8.2 | 4.9 | 155,175 | For installation 3 to 5 in. below the ceiling. |
| VK467 | Upright | 14 | 14 | 14 | 8.2 | 4.9 | 155,175 | For installation 3 to 5 in. below the ceiling. |
| VK467 | Upright | 16 | 16 | 16 | 10.7 | 4.9 | 155,175 | For installation 3 to 5 in. below the ceiling. |
| VK4670 | Upright | 12 | 12 | 15 | 9.4 | 4.9 | 155,175 | For installation 5 to 10 in. below the ceiling. Utilize a Lead Free Brass Frame. |
| VK4670 | Upright | 14 | 14 | 15 | 9.4 | 4.9 | 155,175 | For installation 5 to 10 in. below the ceiling. Utilize a Lead Free Brass Frame. |
| VK4670 | Upright | 16 | 16 | 18 | 13.5 | 4.9 | 155,175 | For installation 5 to 10 in. below the ceiling. Utilize a Lead Free Brass Frame. |
| VK4670 | Upright | 12 | 12 | 14 | 8.2 | 4.9 | 155,175 | For installation 3 to 5 in. below the ceiling. Utilize a Lead Free Brass Frame. |
| VK4670 | Upright | 14 | 14 | 14 | 8.2 | 4.9 | 155,175 | For installation 3 to 5 in. below the ceiling. Utilize a Lead Free Brass Frame. |
| VK4670 | Upright | 16 | 16 | 16 | 10.7 | 4.9 | 155,175 | For installation 3 to 5 in. below the ceiling. Utilize a |

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| | | | | | | | | Lead Free Brass Frame. |
| VK4670 | Upright | 12 | 12 | 15 | 9.4 | 4.9 | 155 | For installation 1 to 3 in. below beams, maximum 14 in. beam Utilize a Lead Free Brass Frame. |
| VK4670 | Upright | 14 | 14 | 15 | 9.4 | 4.9 | 155 | For installation 1 to 3 in. below beams, maximum 14 in. beam Utilize a Lead Free Brass Frame. |
| VK4670 | Upright | 16 | 16 | 18 | 13.5 | 4.9 | 155 | For installation 1 to 3 in. below beams, maximum 14 in. beam Utilize a Lead Free Brass Frame. |
| VK467 | Upright | 12 | 12 | 15 | 9.4 | 4.9 | 155 | For installation 1 to 3 in. below beams, maximum 14 in. beam |
| VK467 | Upright | 14 | 14 | 15 | 9.4 | 4.9 | 155 | For installation 1 to 3 in. below beams, maximum 14 in. beam |
| VK467 | Upright | 16 | 16 | 18 | 13.5 | 4.9 | 155 | For installation 1 to 3 in. below beams, maximum 14 in. beam |
| VK468 | Concealed Pendent | 16 | 16 | 13 | 7 | 4.9 | 155,175 | Utilizes a 135 F cover plate. May utilize a corrosion resistant Nickel coating. |
| VK468 | Concealed Pendent | 18 | 18 | 17 | 12 | 4.9 | 155,175 | Utilizes a 135 F cover plate. May utilize a corrosion resistant Nickel coating. |
| VK468 | Concealed Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 155,175 | Utilizes a 135 F cover plate. May utilize a corrosion resistant Nickel coating. |
| VK4680 | Pendent/Rec. Pendent | 16 | 16 | 13 | 7 | 4.9 | 155,175 | |
| VK4680 | Pendent/Rec. | 18 | 18 | 17 | 12 | 4.9 | 155,175 | |

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|--------|-------------------------|----|----|----|------|-----|---------|---|
| | Pendent | | | | | | | |
| VK4680 | Pendent/Rec. Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 155,175 | |
| VK4680 | Pendent/Rec. Pendent | 16 | 16 | 13 | 7 | 4.9 | 155 | |
| VK4680 | Pendent/Rec. Pendent | 18 | 18 | 17 | 12 | 4.9 | 155 | |
| VK4680 | Pendent/Rec. Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 155 | |
| VK4680 | Concealed Pendent | 16 | 16 | 13 | 7 | 4.9 | 155,175 | Utilizes a 135 F cover plate. |
| VK4680 | Concealed Pendent | 18 | 18 | 17 | 12 | 4.9 | 155,175 | Utilizes a 135 F cover plate. |
| VK4680 | Concealed Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 155,175 | Utilizes a 135 F cover plate. |
| VK468 | Pendent/Rec. Pendent | 16 | 16 | 13 | 7 | 4.9 | 155,175 | May utilize a corrosion resistant Nickel coating. |
| VK468 | Pendent/Rec. Pendent | 18 | 18 | 17 | 12 | 4.9 | 155,175 | May utilize a corrosion resistant Nickel coating. |
| VK468 | Pendent/Rec. Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 155,175 | May utilize a corrosion resistant Nickel coating. |
| VK468 | Pendent/Rec. Pendent | 16 | 16 | 13 | 7 | 4.9 | 155 | May utilize a corrosion resistant Nickel coating. |
| VK468 | Pendent/Rec. Pendent | 18 | 18 | 17 | 12 | 4.9 | 155 | May utilize a corrosion resistant Nickel coating. |
| VK468 | Pendent/Rec. Pendent | 20 | 20 | 20 | 16.7 | 4.9 | 155 | May utilize a corrosion resistant Nickel coating. |
| VK4700 | Pendent/Rec. Pendent | 12 | 12 | 8 | 7.1 | 3 | 155,175 | |
| VK4700 | Pendent/Rec. Pendent | 14 | 14 | 10 | 11.1 | 3 | 155,175 | |
| VK4700 | Pendent/Rec. Pendent | 16 | 16 | 13 | 18.8 | 3 | 155,175 | |
| VK470 | Pendent/Rec. Pendent | 12 | 12 | 8 | 7.1 | 3 | 155,175 | May utilize a corrosion resistant Nickel coating. |
| VK470 | Pendent/Rec. Pendent | 14 | 14 | 10 | 11.1 | 3 | 155,175 | May utilize a corrosion resistant Nickel coating. |
| VK470 | Pendent/Rec. Pendent | 16 | 16 | 13 | 18.8 | 3 | 155,175 | May utilize a corrosion resistant Nickel coating. |

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| VK4720 | Pendent/Rec. Pendent | 16 | 16 | 16 | 7.6 | 5.8 | 155 | |
| VK4720 | Pendent/Rec. Pendent | 18 | 18 | 17 | 8.6 | 5.8 | 155,175 | |
| VK4720 | Pendent/Rec. Pendent | 20 | 20 | 21 | 1301 | 5.8 | 155 | |
| VK472 | Pendent/Rec. Pendent | 16 | 16 | 16 | 7.6 | 5.8 | 155 | May utilize a corrosion resistant Nickel coating. |
| VK472 | Pendent/Rec. Pendent | 18 | 18 | 17 | 8.6 | 5.8 | 155,175 | May utilize a corrosion resistant Nickel coating. |
| VK472 | Pendent/Rec. Pendent | 20 | 20 | 21 | 1301 | 5.8 | 155 | May utilize a corrosion resistant Nickel coating. |
| VK474 | Concealed Pendent | 16 | 16 | 16 | 7.6 | 5.8 | 165 | Utilizes a 135 F cover plate. May utilize a corrosion resistant Nickel coating. |
| VK474 | Concealed Pendent | 18 | 18 | 19 | 10.7 | 5.8 | 165 | Utilizes a 135 F cover plate. May utilize a corrosion resistant Nickel coating. |
| VK474 | Concealed Pendent | 20 | 20 | 23 | 15.7 | 5.8 | 165 | Utilizes a 135 F cover plate. May utilize a corrosion resistant Nickel coating. |
| VK474 | Concealed Pendent | 16 | 16 | 16 | 7.6 | 5.8 | 205 | Utilizes a 165 F cover plate. May utilize a corrosion resistant Nickel coating. |
| VK474 | Concealed Pendent | 18 | 18 | 19 | 10.7 | 5.8 | 205 | Utilizes a 165 F cover plate. May utilize a corrosion resistant Nickel coating. |
| VK474 | Concealed Pendent | 20 | 20 | 23 | 15.7 | 5.8 | 205 | Utilizes a 165 F cover plate. May utilize a corrosion resistant Nickel coating. |
| VK4740 | Concealed Pendent | 16 | 16 | 16 | 7.6 | 5.8 | 165 | Utilizes a 135 F cover plate. |
| VK4740 | Concealed Pendent | 18 | 18 | 19 | 10.7 | 5.8 | 165 | Utilizes a 135 F cover plate. |

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| VK4740 | Concealed Pendent | 20 | 20 | 23 | 15.7 | 5.8 | 165 | Utilizes a 135 F cover plate. |
| VK4740 | Concealed Pendent | 16 | 16 | 16 | 7.6 | 5.8 | 205 | Utilizes a 165 F cover plate. |
| VK4740 | Concealed Pendent | 18 | 18 | 19 | 10.7 | 5.8 | 205 | Utilizes a 165 F cover plate. |
| VK4740 | Concealed Pendent | 20 | 20 | 23 | 15.7 | 5.8 | 205 | Utilizes a 165 F cover plate. |
| VK476 | Flush Pendent | 16 | 16 | 13 | 7 | 4.9 | 165 | |
| VK476 | Flush Pendent | 18 | 18 | 17 | 12 | 4.9 | 165 | |
| VK476 | Flush Pendent | 20 | 20 | 21 | 18.4 | 4.9 | 165 | |
| VK4760 | Flush Pendent | 16 | 16 | 13 | 7 | 4.9 | 165 | |
| VK4760 | Flush Pendent | 18 | 18 | 17 | 12 | 4.9 | 165 | |
| VK4760 | Flush Pendent | 20 | 20 | 21 | 18.4 | 4.9 | 165 | |
| VK479 | HSW/Rec. HSW | 12 | 12 | 11 | 13.4 | 3 | 155 | For Installation 4 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK479 | HSW/Rec. HSW | 16 | 16 | 13 | 18.8 | 3 | 155 | For Installation 4 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
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| VK480 | Concealed HSW | 16 | 16 | 16 | 16 | 4 | 165 | Utilizes a 135 F cover plate. May utilize a corrosion resistant Nickel coating. |
| VK480 | Concealed HSW | 12 | 12 | 12 | 9 | 4 | 165 | Utilizes a 135 F cover plate. May utilize a corrosion resistant Nickel coating. For installation 6 to 12 in. below the ceiling. |
| VK480 | Concealed HSW | 14 | 14 | 14 | 12.3 | 4 | 165 | Utilizes a 135 F cover plate. May utilize a corrosion resistant Nickel coating. For installation 6 to |

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| | | | | | | | | 12 in. below the ceiling. |
| VK480 | Concealed HSW | 16 | 18 | 18 | 20.3 | 4 | 165 | Utilizes a 135 F cover plate. May utilize a corrosion resistant Nickel coating. For installation 6 to 12 in. below the ceiling. |
| VK480 | Concealed HSW | 12 | 12 | 11 | 7.6 | 4 | 165 | Utilizes a 135 F cover plate. May utilize a corrosion resistant Nickel coating. For installation 4 to 6 in. below the ceiling. |
| VK480 | Concealed HSW | 14 | 14 | 13 | 10.6 | 4 | 165 | Utilizes a 135 F cover plate. May utilize a corrosion resistant Nickel coating. For installation 4 to 6 in. below the ceiling. |
| VK480 | Concealed HSW | 16 | 18 | 17 | 18.1 | 4 | 165 | Utilizes a 135 F cover plate. May utilize a corrosion resistant Nickel coating. For installation 4 to 6 in. below the ceiling. |
| VK4800 | Concealed HSW | 16 | 16 | 16 | 16 | 4 | 165 | Utilizes a 135 F cover plate. For Installation 4 to 12 in. below the ceiling. |
| VK4800 | Concealed HSW | 12 | 12 | 11 | 7.6 | 4 | 165 | Utilizes a 135 F cover plate. For installation 4 to 6 in. below the ceiling. |
| VK4800 | Concealed HSW | 14 | 14 | 13 | 10.6 | 4 | 165 | Utilizes a 135 F cover plate. For installation 4 to 6 in. below the ceiling. |
| VK4800 | Concealed HSW | 16 | 18 | 17 | 18.1 | 4 | 165 | Utilizes a 135 F cover plate. For installation 4 to 6 in. below the ceiling. |
| VK4800 | Concealed | 12 | 12 | 12 | 9 | 4 | 165 | Utilizes a 135 F |

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| | HSW | | | | | | | cover plate. For installation 6 to 12 in. below the ceiling. |
| VK4800 | Concealed HSW | 14 | 14 | 14 | 12.3 | 4 | 165 | Utilizes a 135 F cover plate. For installation 6 to 12 in. below the ceiling. |
| VK4800 | Concealed HSW | 16 | 18 | 18 | 20.3 | 4 | 165 | Utilizes a 135 F cover plate. For installation 6 to 12 in. below the ceiling. |
| VK484 | HSW/Rec. HSW | 12 | 12 | 14 | 11.1 | 4.2 | 155,175 | For installation 4 to 6 in. below the ceiling. For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK484 | HSW/Rec. HSW | 14 | 14 | 16 | 14.5 | 4.2 | 155,175 | For installation 4 to 6 in. below the ceiling. For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK484 | HSW/Rec. HSW | 16 | 16 | 18 | 18.4 | 4.2 | 155,175 | For installation 4 to 6 in. below the ceiling. For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK484 | HSW/Rec. HSW | 16 | 18 | 20 | 22.7 | 4.2 | 155,175 | For installation 4 to 6 in. below the ceiling. For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK484 | HSW/Rec. HSW | 16 | 20 | 25 | 35.4 | 4.2 | 155,175 | For installation 4 to 6 in. below the ceiling. For installation 6 to 12 in. below the ceiling. |

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| | | | | | | | | ceiling. May utilize a corrosion resistant Nickel coating. |
| VK484 | HSW/Rec. HSW | 12 | 12 | 13 | 9.6 | 4.2 | 155,175 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK484 | HSW/Rec. HSW | 14 | 14 | 14 | 11.1 | 4.2 | 155 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK484 | HSW/Rec. HSW | 14 | 14 | 15 | 12.8 | 4.2 | 175 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK484 | HSW/Rec. HSW | 16 | 16 | 16 | 14.5 | 4.2 | 155 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK484 | HSW/Rec. HSW | 16 | 16 | 17 | 16.4 | 4.2 | 175 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK484 | HSW/Rec. HSW | 16 | 18 | 19 | 20.5 | 4.2 | 155,175 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK484 | HSW/Rec. HSW | 16 | 20 | 22 | 27.4 | 4.2 | 155,175 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK4840 | HSW/Rec. HSW | 12 | 12 | 13 | 9.6 | 4.2 | 155,175 | For installation 6 to 12 in. below the ceiling. |
| VK4840 | HSW/Rec. HSW | 14 | 14 | 14 | 11.1 | 4.2 | 155 | For installation 6 to 12 in. below |

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| | | | | | | | | the ceiling. |
| VK4840 | HSW/Rec. HSW | 14 | 14 | 15 | 12.8 | 4.2 | 175 | For installation 6 to 12 in. below the ceiling. |
| VK4840 | HSW/Rec. HSW | 16 | 16 | 16 | 14.5 | 4.2 | 155 | For installation 6 to 12 in. below the ceiling. |
| VK4840 | HSW/Rec. HSW | 16 | 16 | 17 | 16.4 | 4.2 | 175 | For installation 6 to 12 in. below the ceiling. |
| VK4840 | HSW/Rec. HSW | 16 | 18 | 19 | 20.5 | 4.2 | 155,175 | For installation 6 to 12 in. below the ceiling. |
| VK4840 | HSW/Rec. HSW | 16 | 20 | 22 | 27.4 | 4.2 | 155,175 | For installation 6 to 12 in. below the ceiling. |
| VK4840 | HSW/Rec. HSW | 12 | 12 | 14 | 11.1 | 4.2 | 155,175 | For installation 6 to 12 in. below the ceiling. For installation 4 to 6 in. below the ceiling. |
| VK4840 | HSW/Rec. HSW | 14 | 14 | 16 | 14.5 | 4.2 | 155,175 | For installation 6 to 12 in. below the ceiling. For installation 4 to 6 in. below the ceiling. |
| VK4840 | HSW/Rec. HSW | 16 | 16 | 18 | 18.4 | 4.2 | 155,175 | For installation 6 to 12 in. below the ceiling. For installation 4 to 6 in. below the ceiling. |
| VK4840 | HSW/Rec. HSW | 16 | 18 | 20 | 22.7 | 4.2 | 155,175 | For installation 6 to 12 in. below the ceiling. For installation 4 to 6 in. below the ceiling. |
| VK4840 | HSW/Rec. HSW | 16 | 20 | 25 | 35.4 | 4.2 | 155,175 | For installation 6 to 12 in. below the ceiling. For installation 4 to 6 in. below the ceiling. |
| VK486 | HSW/Rec. HSW | 16 | 18 | 16 | 16 | 4 | 155,175 | |
| VK486 | HSW/Rec. HSW | 18 | 18 | 18 | 20.3 | 4 | 155 | For Installation 4 to 12 in. below the ceiling. |
| VK486 | HSW/Rec. HSW | 18 | 18 | 19 | 22.6 | 4 | 175 | For Installation 4 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |

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| VK486 | HSW/Rec. HSW | 12 | 12 | 12 | 9 | 4 | 155,175 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK486 | HSW/Rec. HSW | 14 | 14 | 12 | 9 | 4 | 155 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK486 | HSW/Rec. HSW | 14 | 14 | 13 | 10.6 | 4 | 175 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK486 | HSW/Rec. HSW | 16 | 16 | 14 | 12.3 | 4 | 155,175 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK486 | HSW/Rec. HSW | 16 | 20 | 23 | 33.1 | 4 | 155,175 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK486 | HSW/Rec. HSW | 16 | 22 | 26 | 42.3 | 4 | 155,175 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK486 | HSW/Rec. HSW | 18 | 20 | 23 | 33.1 | 4 | 155,175 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK486 | HSW/Rec. HSW | 20 | 20 | 24 | 36 | 4 | 155,175 | For installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK486 | HSW/Rec. HSW | 12 | 12 | 11 | 7.6 | 4 | 155,175 | For installation 4 to 6 in. below the ceiling. May |

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| | | | | | | | | utilize a corrosion resistant Nickel coating. |
| VK486 | HSW/Rec. HSW | 14 | 14 | 12 | 9 | 4 | 155,175 | For installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK486 | HSW/Rec. HSW | 16 | 16 | 13 | 10.6 | 4 | 155,175 | For installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK486 | HSW/Rec. HSW | 16 | 20 | 22 | 30.3 | 4 | 155,175 | For installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK486 | HSW/Rec. HSW | 16 | 22 | 24 | 36 | 4 | 155,175 | For installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK486 | HSW/Rec. HSW | 18 | 20 | 22 | 30.3 | 4 | 155,175 | For installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK486 | HSW/Rec. HSW | 20 | 20 | 22 | 30.3 | 4 | 155,175 | For installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK4860 | HSW/Rec. HSW | 16 | 18 | 16 | 16 | 4 | 155,175 | For Installation 4 to 12 in. below the ceiling. |
| VK4860 | HSW/Rec. HSW | 18 | 18 | 18 | 20.3 | 4 | 155 | For Installation 4 to 12 in. below the ceiling. |
| VK4860 | HSW/Rec. HSW | 18 | 18 | 19 | 22.6 | 4 | 175 | For Installation 4 to 12 in. below the ceiling. |
| VK4860 | HSW/Rec. HSW | 12 | 12 | 11 | 7.6 | 4 | 155,175 | For installation 4 to 6 in. below the ceiling. |
| VK4860 | HSW/Rec. | 14 | 14 | 12 | 9 | 4 | 155,175 | For installation 4 |

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| | HSW | | | | | | | to 6 in. below the ceiling. |
| VK4860 | HSW/Rec. HSW | 16 | 16 | 13 | 10.6 | 4 | 155,175 | For installation 4 to 6 in. below the ceiling. |
| VK4860 | HSW/Rec. HSW | 16 | 20 | 22 | 30.3 | 4 | 155,175 | For installation 4 to 6 in. below the ceiling. |
| VK4860 | HSW/Rec. HSW | 16 | 22 | 24 | 36 | 4 | 155,175 | For installation 4 to 6 in. below the ceiling. |
| VK4860 | HSW/Rec. HSW | 18 | 20 | 22 | 30.3 | 4 | 155,175 | For installation 4 to 6 in. below the ceiling. |
| VK4860 | HSW/Rec. HSW | 20 | 20 | 22 | 30.3 | 4 | 155,175 | For installation 4 to 6 in. below the ceiling. |
| VK4860 | HSW/Rec. HSW | 12 | 12 | 12 | 9 | 4 | 155,175 | For installation 6 to 12 in. below the ceiling. |
| VK4860 | HSW/Rec. HSW | 14 | 14 | 12 | 9 | 4 | 155 | For installation 6 to 12 in. below the ceiling. |
| VK4860 | HSW/Rec. HSW | 14 | 14 | 13 | 10.6 | 4 | 175 | For installation 6 to 12 in. below the ceiling. |
| VK4860 | HSW/Rec. HSW | 16 | 16 | 14 | 12.3 | 4 | 155,175 | For installation 6 to 12 in. below the ceiling. |
| VK4860 | HSW/Rec. HSW | 16 | 20 | 23 | 33.1 | 4 | 155,175 | For installation 6 to 12 in. below the ceiling. |
| VK4860 | HSW/Rec. HSW | 16 | 22 | 26 | 42.3 | 4 | 155,175 | For installation 6 to 12 in. below the ceiling. |
| VK4860 | HSW/Rec. HSW | 18 | 20 | 23 | 33.1 | 4 | 155,175 | For installation 6 to 12 in. below the ceiling. |
| VK4860 | HSW/Rec. HSW | 20 | 20 | 24 | 36 | 4 | 155,175 | For installation 6 to 12 in. below the ceiling. |
| VK488 | Concealed Pendent | 12 | 12 | 8 | 7.1 | 3 | 165 | Utilizes a 135 F cover plate. |
| VK488 | Concealed Pendent | 14 | 14 | 11 | 13.4 | 3 | 165 | Utilizes a 135 F cover plate. |
| VK488 | Concealed Pendent | 16 | 16 | 13 | 18.8 | 3 | 165 | Utilizes a 135 F cover plate. |
| VK488 | Concealed Pendent | 12 | 12 | 8 | 7.1 | 3 | 205 | Utilizes a 165 F cover plate. For installation 5 to 10 in. below the ceiling. |
| VK488 | Concealed Pendent | 14 | 14 | 11 | 13.4 | 3 | 205 | Utilizes a 165 F cover plate. For installation 5 to 10 in. below the ceiling. |

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| VK488 | Concealed Pendent | 16 | 16 | 13 | 18.8 | 3 | 205 | Utilizes a 165 F cover plate. For installation 5 to 10 in. below the ceiling. |
| VK4880 | Concealed Pendent | 12 | 12 | 8 | 7.1 | 3 | 165 | Utilizes a 135 F cover plate. Utilize a Lead Free Brass Frame. |
| VK4880 | Concealed Pendent | 14 | 14 | 11 | 13.4 | 3 | 165 | Utilizes a 135 F cover plate. Utilize a Lead Free Brass Frame. |
| VK4880 | Concealed Pendent | 16 | 16 | 13 | 18.8 | 3 | 165 | Utilizes a 135 F cover plate. Utilize a Lead Free Brass Frame. |
| VK4880 | Concealed Pendent | 12 | 12 | 8 | 7.1 | 3 | 205 | Utilizes a 165 F cover plate. Utilize a Lead Free Brass Frame. |
| VK4880 | Concealed Pendent | 14 | 14 | 11 | 13.4 | 3 | 205 | Utilizes a 165 F cover plate. Utilize a Lead Free Brass Frame. |
| VK4880 | Concealed Pendent | 16 | 16 | 13 | 18.8 | 3 | 205 | Utilizes a 165 F cover plate. Utilize a Lead Free Brass Frame. |
| VK490 | Concealed HSW | 12 | 12 | 16 | 7.6 | 5.8 | 165 | Utilizes a 135 F cover plater. Installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating |
| VK490 | Concealed HSW | 12 | 12 | 16 | 7.6 | 5.8 | 205 | Utilizes 165 F cover plate. Installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating. |
| VK490 | Concealed HSW | 12 | 12 | 17 | 8.6 | 5.8 | 165 | Utilizes a 135 F cover plate. Installation 6 to 12 in. below the ceiling. May utilize a |

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| | | | | | | | | corrosion resistant Nickel coating |
| VK490 | Concealed HSW | 12 | 12 | 17 | 8.6 | 5.8 | 205 | Utilizes a 165 F cover plate. Installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating |
| VK490 | Concealed HSW | 14 | 14 | 17 | 8.6 | 5.8 | 165 | Utilizes a 135 F cover plate. Installation 4 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating |
| VK490 | Concealed HSW | 14 | 14 | 17 | 8.6 | 5.8 | 205 | Utilizes a 165 F cover plate. Installation 4 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating |
| VK490 | Concealed HSW | 16 | 16 | 18 | 9.6 | 5.8 | 165 | Utilizes a 135 F cover plate. Installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating |
| VK490 | Concealed HSW | 16 | 16 | 18 | 9.6 | 5.8 | 205 | Utilizes a 165 F cover plate. Installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating |
| VK490 | Concealed HSW | 16 | 16 | 19 | 10.6 | 5.8 | 165 | Utilizes a 135 F cover plate. Installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating |
| VK490 | Concealed HSW | 16 | 16 | 19 | 10.6 | 5.8 | 205 | Utilizes a 165 F cover plate. |

| | | | | | | | | |
|-------|---------------|----|----|----|------|-----|-----|--|
| | | | | | | | | Installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating |
| VK490 | Concealed HSW | 16 | 18 | 21 | 13.1 | 5.8 | 165 | Utilizes a 135 F cover plate. Installation 4 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating |
| VK490 | Concealed HSW | 16 | 18 | 21 | 13.1 | 5.8 | 205 | Utilizes a 165 F cover plate. Installation 4 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating |
| VK490 | Concealed HSW | 16 | 20 | 23 | 15.7 | 5.8 | 165 | Utilizes a 135 F cover plate. Installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating |
| VK490 | Concealed HSW | 16 | 20 | 23 | 15.7 | 5.8 | 205 | Utilizes a 165 F cover plate. Installation 4 to 6 in. below the ceiling. May utilize a corrosion resistant Nickel coating |
| VK490 | Concealed HSW | 16 | 20 | 26 | 20.1 | 5.8 | 165 | Utilizes a 135 F cover plate. Installation 6 to 12 in. below the ceiling. May utilize a corrosion resistant Nickel coating |
| VK490 | Concealed HSW | 16 | 20 | 26 | 20.1 | 5.8 | 205 | Utilizes a 165 F cover plate. Installation 6 to 12 in. below the ceiling. May utilize a corrosion |

| | | | | | | | |
|--------|-----------------------|----|----|----|------|-----|---------|
| TY4234 | Pendent /Rec. Pendent | 16 | 16 | 20 | 8.4 | 6.9 | 155,175 |
| TY4234 | Pendent /Rec. Pendent | 18 | 18 | 20 | 8.4 | 6.9 | 155,175 |
| TY4234 | Pendent /Rec. Pendent | 20 | 20 | 23 | 11.1 | 6.9 | 155,175 |
| TY4334 | HSW/ Rec. HSW | 12 | 12 | 22 | 14.4 | 5.8 | 155,175 |
| TY4334 | HSW/ Rec. HSW | 14 | 14 | 22 | 14.4 | 5.8 | 155,175 |
| TY4334 | HSW/ Rec. HSW | 16 | 16 | 24 | 17.1 | 5.8 | 175 |
| TY4334 | HSW/ Rec. HSW | 16 | 18 | 28 | 23.3 | 5.8 | 175 |
| TY4334 | HSW/ Rec. HSW | 16 | 20 | 32 | 30.4 | 5.8 | 175 |
| TY4334 | HSW/ Rec. HSW | 18 | 18 | 33 | 32.4 | 5.8 | 175 |

The Viking Corp. - FM Approved Residential Sprinklers

| SIN | Type | Max. Spacing (Width) | Max. Spacing (Length) | Min Flow | Min Pressure | K-Factor | Temp Rating | Notes |
|-------|---------------|----------------------|-----------------------|----------|--------------|----------|-------------|-------|
| VK420 | Flush Pendent | 12 | 12 | | | 3.8 | 165 | |
| VK420 | Flush Pendent | 14 | 14 | | | 3.8 | 165 | |
| VK420 | Flush Pendent | 16 | 16 | | | 3.8 | 165 | |

Refer to Vikings Technical Data Sheet for Flow and Pressure Requirements

It should be noted that the flow rates and coverage area for FM Approved sprinklers shall be in accordance with the limitations specified in FM Global Property Loss Prevention Data Sheets. Again, the flow pressure values provided are only for NFPA 13R and NFPA 13D systems. When used in accordance with NFPA 13, these flows will need to be increased to provide a minimum density of 0.1 gpm per sq ft over the actual coverage area of the sprinkler. Coverage area is permitted to be calculated using the S x L rule of NFPA 13.

As noted at the beginning of this TechNotes, these lists are intended to be resource to compare the different models and listings of residential sprinklers. When installing residential sprinklers, the manufacturer's data sheet must be referenced for all installation requirements.

Did You Know??

The NFSA keeps a member of the Engineering Department staff on duty every business day to answer your technical questions live. We call this the Expert of the Day (EOD) program and it is available to our members by phone, fax or e-mail. Call us at (845) 878-4200 and press 2, or you can send a fax to (845) 878-4215, or you can e-mail us at eod@nfsa.org. Last year we answered more than 2600 requests for assistance.

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