City of Aurora
Building Codes Division
15151 E Alameda Pkwy
Aurora, CO 80012
(303) 739-7420

Notice

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Building Permit Application

Permit Center - 15151 E Alameda Pkwy ⁘ Ste 2400 ⁘ Aurora, CO 80012 ⁘ (303)739-7420
Email buildingplans@auroragov.org

Project Address: 1501 S. Potomac St Unit # Zip code: 80012
Project Name: Medical Center of Aurora
Contractor Company Name: Empire Fire & Safety Phone: 3) 451-0975 Fax: 3) 920-9298
Contact Person: Dave Walker Phone: 3) 217-1438
Email: davefirewalker@hotmail.com Fax: 3) 920-9298

Architect and/or Engineer Contact information for correction items:

Architect or Engineer Name: Email:
Phone #: Fax #:
Owner:(Required for Certificate of Occupancy) only:
Owner address:
Email:
Valuation / FDA$ 5000 **Materials cost $** 3000

FDA = Fee Determination Assessment. (Also known as the value of project. The Fee Determination Assessment, FDA has no relationship to the construction costs for the building which can vary greatly. Rather, the Assessment is used only to determine the appropriate level of fees to fund our code compliance activities.

Describe the work you will be doing:

Change out existing 155° QR Pendent sprinklers with 155° QR recessed/concealed sprinklers on 3rd floor ICU
Quantity is 177

I declare under penalty that this application has been examined by me; and that the statements made herein are made in good faith pursuant to City of Aurora tax and licensing regulations; and to the best of my knowledge and belief are true, correct and complete.

Print Name: Dave Walker **Signature:** Dave Walker Date: 9/20/11

BOARD OF APPEALS - Contractor's Appeals and Standards Board. Applicants have the right to have the board hear appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of the building code. Any application for appeal to the board shall be based on a claim that the true intent of the code or the rules legally adopted there under have been incorrectly interpreted, the provisions of the building code do not fully apply or an equally good or better form of construction is proposed.

Sprinkler & Alarm permits are separate submittals, and the value is NOT included on main permit.

◆◆◆◆ THIS SPACE FOR OFFICE USE ONLY ◆◆◆◆

Change of occupancy/use: ☐ Yes ☐ No

FDA:

Reviews		Inspections	
☐	Structural	☐	Structural
☐	Mechanical	☐	Mechanical
☐	Plumbing	☐	Plumbing
☐	Electrical	☐	Electrical
☒	Fire Life Safety	☒	Life Safety
☐	Bldg Life Safety	☐	Gate/Haz.

Intake Date: 9/20/11 PE Initial: JMP

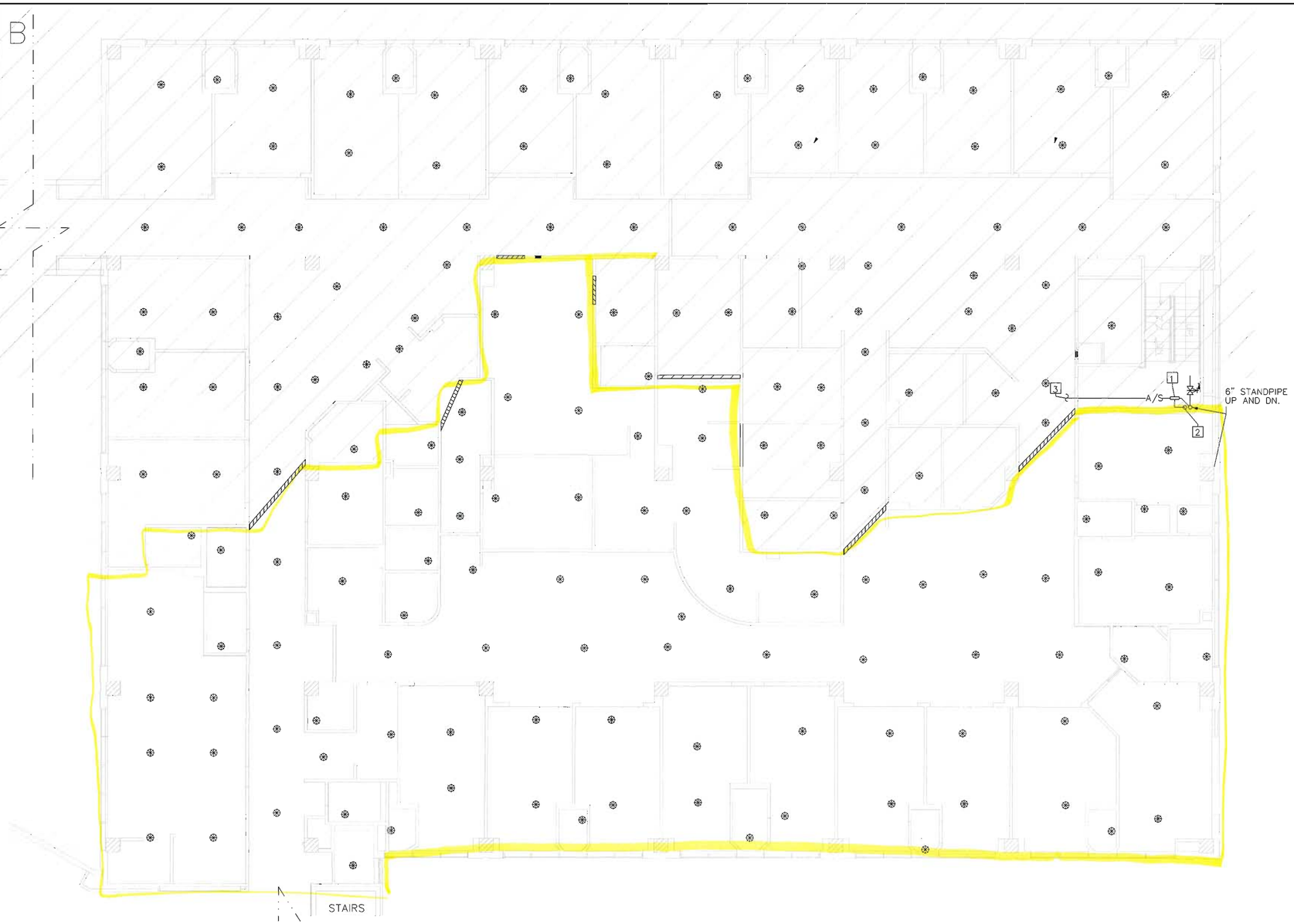
Balance Due: $

Initials

Pre-approval(s). Zoning ☐ Water ☐
Exterior changes? ☐ Yes ☐ No
Homeowner Verified ☐ Yes
Permit Type Limited
Mid roof /Avg. bldg height
Parent Permit RSN
Plans Examiner JMP
Sub Type 4X Sprinkler
RSN: 623822 / 2011-562581

Plans Picked up by
Company Nam
Phone #

See reverse side for Fence/sign/Public Improvements application



FIRE PROTECTION PLAN
1/8" = 1'

FIRE PROTECTION SYMBOL LEGEND

SCHEMATIC SYMBOL	SYMBOL DESCRIPTION
F	FIRE SERVICE LINE (ABOVE OR BELOW FLOOR SLAB/GRADE)
A/S	AUTOMATIC SPRINKLER LINE (ABOVE FLOOR SLAB)
	IN-LINE O.S.&Y GATE CUTOFF VALVE
A/S	AUTOMATIC SPRINKLER
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.H.E.C.	FIRE HOSE/EXTINGUISHER CABINET
	FIRE EXTINGUISHER CABINET
	FIRE HOSE/EXTINGUISHER CABINET
	FIRE DEPARTMENT SIAMESE CONNECTION
	FLOW SWITCH
	SERVICE PIPE TURNED DOWN (ABOVE OR BELOW FLOOR SLAB)
	SERVICE PIPE TURNED UP (ABOVE OR BELOW FLOOR SLAB)
	DROP OR RISE IN SERVICE PIPING (ABOVE FLOOR SLAB)
	EXISTING PIPING TO BE REMOVED (ABOVE OR BELOW FLOOR SLAB)
	EXISTING PIPING TO REMAIN (ABOVE OR BELOW FLOOR SLAB)
DOWN UP	IN-LINE CUTOFF VALVE IN VERTICAL PIPE (BALL, GATE, OR O.S.&Y.)
	IN-LINE CHECK VALVE
	REFER TO NOTE(S)
	NEW CONNECTION TO EXISTING SERVICE PIPING
	AUTOMATIC SPRINKLER HEAD - CONCEALED
DSW	AUTOMATIC SPRINKLER HEAD - DRY SIDEWALL
ASD	AUTOMATIC SPRINKLER DRAIN LINE

KEY NOTES:

1. FLOOR CONTROL TEST/DRAIN ASSEMBLY.
2. 3" DRAINSTACK WITH FIRE DEPARTMENT VALVE TEST PORT.
3. AUTOMATIC SPRINKLER MAIN TO SYSTEM.

GENERAL NOTES:

A. REMOVE EXISTING SEMI-RECESSED 155 DEGREE QUICK RESPONSE PENDANT HEADS

B. INSTALL NEW VIKING 155 DEGREE QUICK RESPONSE CONCEALED FIRE SPRINKLER HEADS

C. ALL SPRINKLER HEADS SHOWN ON PLAN ARE EXISTING AND LOCATION TO REMAIN.

Note: Contractor to have a Written procedure in place to ensure fire Watch is in place any time Sprinkler System (or a portion) is inoperable. Procedure to be provided to hospital staff & to City of Aurora inspector. Must be signed off daily by Contractor & hospital

Area of work - Remove heads & OR Concealed
Label Rooms on future Plans
Sprinkler placement to comply with NFPA 13 · Ch. 8 for spacing to walls · Field Verify.

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED mp
DATE 9/21/11

PERMIT # 11562581
RSN # 623822
OCCUPANCY TYPE I-2
CONST. TYPE I FR SPK 08A
SQUARE FOOT
CODES REV'D NFPA 13 '07

11-562581

The Medical Center of Aurora
Health ONE

EMPIRE FIRE & SAFETY
10475 IRMA DR.
SUITE 17
NORTH GLENN, CO 80233

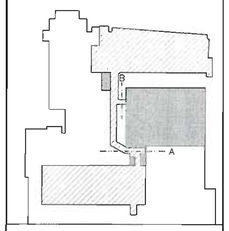
THE MEDICAL CENTER
OF AURORA
1501 S. POTOMAC ST.
AURORA, CO 80012

REVISION & DESCRIPTION

PROJECT
3RD FLOOR
EAST TOWER B

SHEET DESCRIPTION
FIRE PROTECTION
PLAN

KEY PLAN



UPDATED
AUGUST 16, 2011

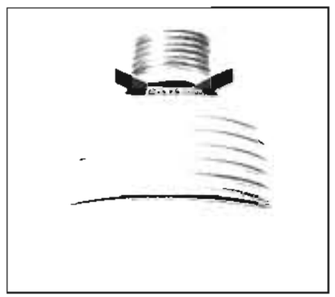
SCALE
1/8" = 1'

SHEET NUMBER
FP-1

VIKING — TECHNICAL DATA — MIRAGE® STANDARD AND QR CONCEALED PENDENT SPRINKLER VK462 AND HP SPRINKLER VK463 (K5.6)

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058
Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

1. DESCRIPTION



Viking Mirage® Standard and Quick Response Concealed Pendent Sprinkler VK462 and HP Sprinkler VK463 are thermosensitive glass-bulb spray sprinklers designed for installation on concealed pipe systems where the appearance of a smooth ceiling is desired.

The sprinkler is pre-assembled with a threaded adapter for installation with a low-profile cover assembly that provides up to ½" (12.7 mm) of vertical adjustment. The two-piece design allows installation and testing of the sprinkler prior to installation of the cover plate. The "push-on", "thread-off" design of the concealed cover plate assembly allows easy installation of the cover plate after the system has been tested and the ceiling finish has been applied. The cover assembly can be removed and reinstalled, allowing temporary removal of ceiling panels without taking the sprinkler system out of service or removing the sprinkler.

2. LISTINGS AND APPROVALS

cULus Listed: Category VNIV
FM Approval: Class 2015
NYC Approved: MEA 89-92-E, Volume 32
VdS Approved: Certificate G4080021
LPCB Approved: Ref. No. 096e/12
CE Certified: Standard EN 12259-1, EC-certificate of conformity 0832-CPD-2032

Refer to Approval Chart 1 and Design Criteria on page 54c for cULus Listing requirements, and refer to Approval Chart 2 and Design Criteria on page 54d for FM Approval requirements that must be followed.

3. TECHNICAL DATA

Specifications:

Available since 2006.
Minimum Operating Pressure: 7 psi (0.5 bar)*
Maximum Working Pressure: Sprinkler VK463 is rated for use with water working pressures ranging from the minimum 7 psi (0.5 bar) up to 250 psi (17.2 bar) for high-pressure systems. High-pressure (HP) sprinklers can be identified by locating "250" stamped on the deflector. Sprinkler VK462 is rated to a maximum 175 psi (12 bar) wwp.
Factory tested hydrostatically to 500 psi (34.5 bar)
Testing: U.S.A. Patent No. 4,831,870
Thread size: 1/2" (15 mm) NPT
Nominal K-Factor: 5.6 U.S. (80.6 metric†)
Glass-bulb fluid temperature rated to -65°F (-55°C)
Patents Pending

Viking Technical Data may be found on The Viking Corporation's Web site at http://www.vikinggroupinc.com. The Web site may include a more recent edition of this Technical Data Page.

*cULus Listing, FM Approval, and NFPA 13 installs require a minimum of 7 psi (0.5 bar). The minimum operating pressure for LPCB and CE Approvals ONLY is 5 psi (0.35 bar).

†Metric K-factor measurement shown is when pressure is measured in Bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0

Material Standards:

Sprinkler Body: Brass UNS-C84400
Deflector: Copper UNS-C19500 for Sprinkler VK462
Phosphor Bronze UNS-C51000 for Sprinkler VK463
Deflector Pins: Stainless Steel Alloy
Bulb: Glass, nominal 3 mm diameter
Pip Cap and Insert Assembly: Copper UNS-C11000 and Stainless Steel UNS-S30400
Button: Brass UNS-C36000
Screws: 18-8 Stainless Steel
Belleville Spring Sealing Assembly: Nickel Alloy, coated on both sides with Teflon Tape
Yoke, Phosphor Bronze UNS-C51000
Cover Adapter: Cold Rolled Steel UNS-G10080, Finish: Clear Chromate over Zinc Plating

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Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

Cover Assembly Materials:

Cover: Copper UNS-C11000
Base: Brass UNS-C26000 or UNS-C26800
Springs: Nickel Alloy
Solder: Eutectic

Ordering Information: (Also refer to the current Viking price list.)
Viking Mirage® Standard and Quick Response Concealed Pendent Sprinklers and Cover Plate Assemblies must be ordered separately:
Sprinkler: Base Part No. 13503A or HP Base Part No. 13667A
Specify sprinkler temperature rating by adding the appropriate suffix for the temperature rating to the base part number:
Temperature Suffix (°F/°C): 155°/68° = B, 175°/79° = D, 200°/93° = E
For example, sprinkler VK463 with a 155°F/68°C temperature rating = 13667AB.
Cover Plate Assembly: Base Part No. 13504 (2-3/4" diameter), Base Part No. 13642 (3-5/16" diameter), or Base Part No. 15394 (square cover plate, 3-5/16" diameter)
Specify finish and temperature rating of the cover plate assembly by adding the appropriate suffixes for the finish and the cover temperature rating to the base part number:
Finish Suffix: Polished Chrome = F, Brushed Chrome = F-/B, Bright Brass = B, Antique Brass = B-/A, Brushed Brass = B-/B, Brushed Copper = E-/B, Painted White = M-/W, Painted Ivory = M-/I, Painted Black = M-/B
Temperature Suffix (°F/°C): 135°/57° UL (139°/59° FM and LPCB) = A, 165°/74° = C
For example, cover 13504 with a Polished Chrome finish and a 165°F/74°C temperature rating = 13504FC.
Note: Square cover plate 15394 cULus Listing is for the 135°F (57°C) temperature rated cover plate only. Refer to the Approval Chart.

Available Finishes And Temperature Ratings: Refer to Table 1.

Accessories: (Also refer to the "Sprinkler Accessories" section of the Viking data book.)
Sprinkler Wrenches**:
A. Heavy Duty Wrench Part No. 14047W/B (available since 2006), or
B. Head Cabinet Wrench Part No. 14031*** (available since 2006)
C. Optional Concealed Cover Plate Installer Tool Part No. 14412 for cover 13504, or Part No. 14867 for the large diameter cover (available since 2007)
**Requires a ½" ratchet (not available from Viking). ***Optional for removal of the protective cap. Ideal for sprinkler cabinets.
Sprinkler Cabinet: Part No. 01731A (available since 1971)

4. INSTALLATION

Refer to appropriate NFPA Installation Standards.

5. OPERATION

During fire conditions, when the temperature around the sprinkler approaches its operating temperature, the cover plate detaches. Continued heating of the exposed sprinkler causes the heat-sensitive liquid in the glass bulb to expand and the bulb to shatter, releasing the yoke, pip-cap and sealing spring assembly. Water flowing through the sprinkler orifice strikes the sprinkler deflector, forming a uniform spray pattern to extinguish or control the fire.

6. INSPECTIONS, TESTS AND MAINTENANCE

Refer to NFPA 25 for Inspection, Testing and Maintenance requirements.

7. AVAILABILITY

Viking Sprinklers VK462 and VK463 are available through a network of domestic and international distributors. See The Viking Corporation web site for the closest distributor or contact The Viking Corporation.

8. GUARANTEE

For details of warranty, refer to Viking's current list price schedule or contact Viking directly.

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VIKING — TECHNICAL DATA — MIRAGE® STANDARD AND QR CONCEALED PENDENT SPRINKLER VK462 AND HP SPRINKLER VK463 (K5.6)

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058
Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

TABLE 1: AVAILABLE SPRINKLER TEMPERATURE RATINGS AND FINISHES

Sprinkler Temperature Classification	Sprinkler Nominal Temperature Rating[1]	Maximum Ambient Ceiling Temperature[2]	Temperature Rating of Cover Assembly (Required)	Bulb Color
Ordinary	155°F (68°C)	100°F (38°C)	135°F (57°C) cULus 139°F (59°C) FM and LPCB	Red
Intermediate	175°F (79°C)	150°F (65°C)	165°F (74°C)	Yellow
Intermediate	200°F (93°C)	150°F (65°C)	165°F (74°C)	Green

Cover Plate Finishes: Polished Chrome, Brushed Chrome, Bright Brass, Antique Brass, Brushed Brass, Brushed Copper, Painted White, Painted Ivory, or Painted Black

Footnotes

[1] The sprinkler temperature rating is stamped on the sprinkler deflector.

[2] Based on NFPA-13. Other limits may apply, depending on fire loading, sprinkler location, and other requirements of the Authority Having Jurisdiction. Refer to specific installation standards.



Identification of Custom Paint Color:
All custom color painted cover plates will have an identifying label affixed to the inside of the cover that indicates custom color and will have a representative sample (a paint dot) of the paint on the label.

Figure 1: Identification of Custom Paint Color for Concealed Covers



Figure 2: Square Cover Assembly 15394

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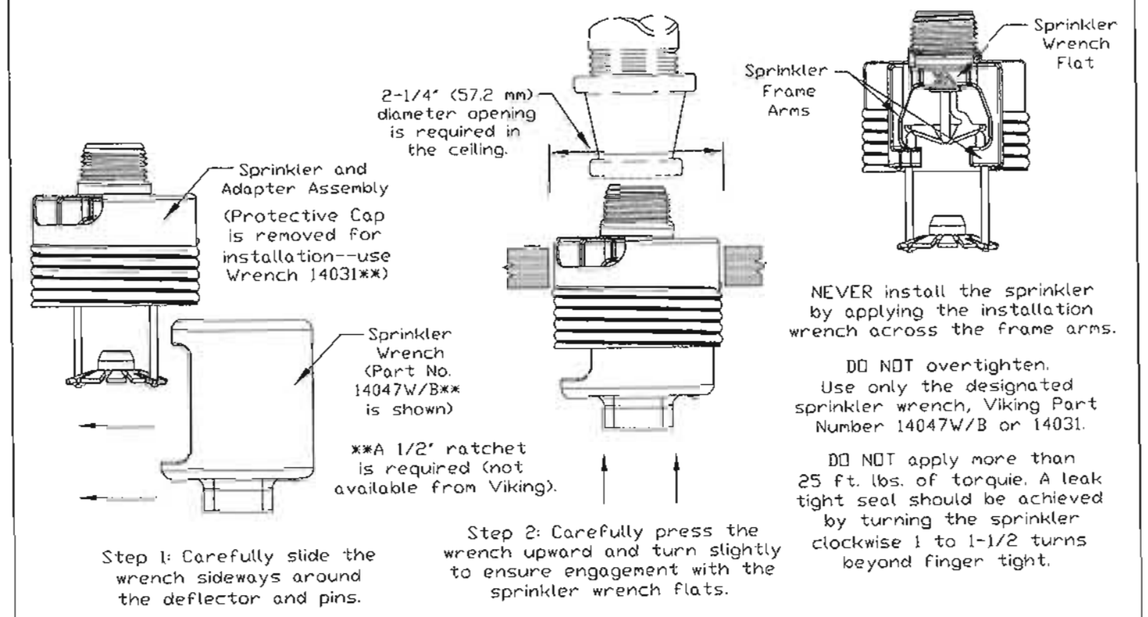


Figure 3: Sprinkler Installation and Correct Use of Wrenches

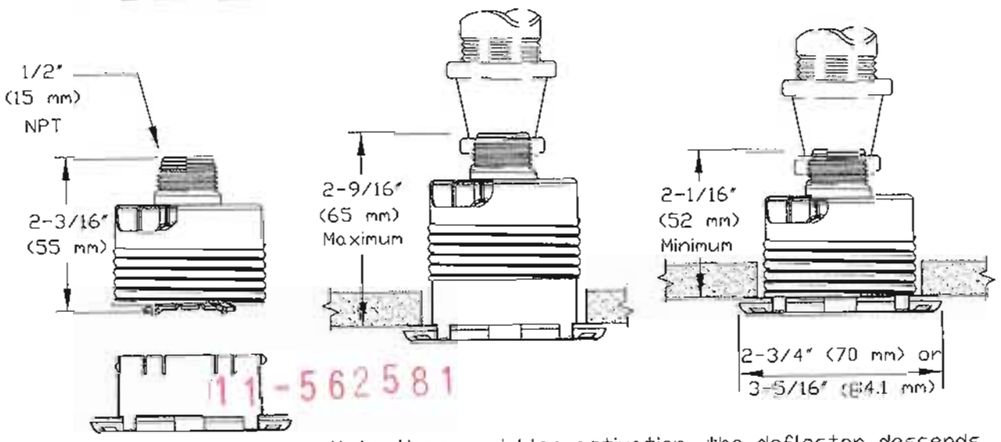


Figure 4: Sprinkler Dimensions and Cover Installation

Replaces page 54a-f, dated February 25, 2011. (Revised LPCB Approval. Removed UL listing from 165 °F Cover 15394. Obsoleted sprinkler 14697.)

VIKING — TECHNICAL DATA

MIRAGE® STANDARD AND QR CONCEALED PENDENT SPRINKLER VK462 AND HP SPRINKLER VK463 (K5.6)

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058
Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

Approval Chart 2 (FM)

Mirage® Standard Response Concealed Pendent Sprinkler VK462

Sprinkler Temperature Rating / Cover Plate Temperature Rating
AW1 ← Cover Plate Finish KEY

Sprinkler Base Part No.[1]	SIN	NPT Thread Size		Nominal K-Factor		Maximum Water Working Pressure	FM Approvals[3] (Refer also to Design Criteria below.)
		Inch	mm	U.S.	metric[2]		
13503A	VK462	1/2"	15	5.6	80.6	175 psi (12 bar)	AW1, BX1

Sprinkler Temperature Ratings
A - 155°F (68°C)
B - 175°F (79°C) and 200°F (93°C)

Cover Plate Assembly Temperature Ratings[4]
W - 139°F (59°C) cover 13504[1], 13642[1] (large diameter), or 15394[1] (square cover plate)
X - 165°F (74°C) cover 13504[1], 13642[1] (large diameter), or 15394[1] (square cover plate)

Cover Plate Assembly Finishes[5]
1 - Polished Chrome, Brushed Chrome, Bright Brass, Antique Brass, Brushed Brass, Brushed Copper, Painted White, Painted Ivory, or Painted Black

Footnotes

[1] Part number shown is the base part number. For complete part number, refer to current Viking price list schedule.
[2] Metric K-factor measurement shown is when pressure is measured in Bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0.
[3] This chart shows the FM Approvals available at the time of printing. Other approvals may be in process. Check with the manufacturer for any additional approvals.
[4] The 139°F cover has an orange label. The 165°F cover has a white label.
[5] Painted finish consists of Polyester Baked Enamel. Other paint colors are available on request with the same listings as the standard paint colors. Listings and approvals apply for any paint manufacturer. Contact Viking for additional information.
NOTE: Custom colors are indicated on a label inside the cover assembly. Refer to Figure 1.

DESIGN CRITERIA - FM

(Also refer to Approval Chart 2 above.)

FM Approval Requirements:

Viking Concealed Pendent Sprinkler VK462 is FM Approved as a standard response **Non-Storage** concealed pendent sprinkler as indicated in the FM Approval Guide. For specific application and installation requirements, reference the latest applicable FM Loss Prevention Data Sheets (including Data Sheet 2-0). FM Global Loss Prevention Data Sheets contain guidelines relating to, but not limited to: minimum water supply requirements, hydraulic design, ceiling slope and obstructions, minimum and maximum allowable spacing, and deflector distance below the ceiling.

NOTE: The FM installation guidelines may differ from cULus and/or NFPA criteria.

IMPORTANT: Always refer to Bulletin Form No. F_091699 - Care and Handling of Sprinklers. Also refer to page SR1-3 for general care, installation, and maintenance information. Viking sprinklers are to be installed in accordance with the latest edition of Viking technical data, the appropriate standards of NFPA, FM Global, LPCB, APSAD, VdS or other similar organizations, and also with the provisions of governmental codes, ordinances, and standards, whenever applicable.

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VIKING — TECHNICAL DATA

MIRAGE® STANDARD AND QR CONCEALED PENDENT SPRINKLER VK462 AND HP SPRINKLER VK463 (K5.6)

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Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

Approval Chart 1 (UL)

Mirage® Concealed Pendent Sprinklers VK462 and VK463

Sprinkler Temperature Rating / Cover Plate Temperature Rating
AW1 ← Cover Plate Finish KEY

Sprinkler Base Part No.[1]	SIN	NPT Thread Size		Nominal K-Factor		Maximum Water Working Pressure	Listings and Approvals[4] (Refer also to Design Criteria below.)				
		Inch	mm	U.S.	metric[2]		cULus[5]	NYC	VdS	LPCB	CE
Standard Response Applications											
13503A	VK462	1/2"	15	5.6	80.6	175 psi (12 bar)	--	--	AY1, CZ1	AY1, BZ1	AY1, CZ1[7]
Quick Response Applications											
13503A	VK462	1/2"	15	5.6	80.6	175 psi (12 bar)	AV1, BX1	AV1, BW1[6]	–	–	--
13667A	VK463	1/2"	15	5.6	80.6	250 psi (17.2 bar)[3]	AV1, BX1	AV1, BW1[6]	--	--	--

Sprinkler Temperature Ratings
A - 155°F (68°C)
B - 175°F (79°C) and 200°F (93°C)
C - 200°F (93°C)

Cover Plate Assembly Temperature Ratings[8]
V - 135°F (57°C) cULus Listed cover 13504[1], 13642[1] (large diameter), or 15394[1] (square cover plate)
W - 165°F (74°C) cover 13504[1] or 13642[1] (large diameter)
X - 165°F (74°C) cover 13504[1], or 13642[1] (large diameter)
Y - 135°F (57°C) cover 13504[1] *LPCB Approved as 139°F (59°C)*
Z - 165°F (74°C) cover 13504[1]

Cover Plate Assembly Finishes[9]
1 - Polished Chrome, Brushed Chrome, Bright Brass, Antique Brass, Brushed Brass, Brushed Copper, Painted White, Painted Ivory, or Painted Black

Footnotes

[1] Part number shown is the base part number. For complete part number, refer to current Viking price list schedule.
[2] Metric K-factor measurement shown is when pressure is measured in Bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0.
[3] The Water Working Pressure rating is stamped on the deflector.
[4] This chart shows the listings and approvals available at the time of printing. Other approvals may be in process. Check with the manufacturer for any additional approvals.
[5] Listed by Underwriter's Laboratories for use in the U.S. and Canada.
[6] Accepted for use, City of New York Department of Buildings, MEA Number 89-92-E, Vol. 32
[7] CE Certified, Standard EN 12259-1, EC-certificate of conformity 0832-CPD-2032.
[8] The 135/139 °F cover has an orange label. The 165 °F cover has a white label.
[9] Painted finish consists of Polyester Baked Enamel. Other paint colors are available on request with the same listings as the standard paint colors. Listings and approvals apply for any paint manufacturer. Contact Viking for additional information.
NOTE: Custom colors are indicated on a label inside the cover assembly. Refer to Figure 1.

DESIGN CRITERIA - UL

(Also refer to Approval Chart 1 above.)

cULus Listing Requirements:

Mirage® Concealed Pendent Sprinklers VK462 and VK463 are cULus Listed as quick response for installation in accordance with the latest edition of NFPA 13 for standard coverage pendent spray sprinklers as indicated below.

- For hazard occupancies up to and including Ordinary Hazard, Group II.
- Protection areas and maximum spacing shall be in accordance with the tables provided in NFPA 13. Maximum spacing allowed is 15 ft. (4.6 m).
- Minimum spacing allowed is 6 ft. (1.8 m) unless baffles are installed in accordance with NFPA 13.
- Minimum distance from walls is 4 in. (102 mm)
- Maximum distance from walls shall be no more than one-half of the allowable distance between sprinklers. The distance shall be measured perpendicular to the wall.
- The sprinkler obstruction rules contained in NFPA 13 for standard coverage pendent spray sprinklers must be followed.

NOTE: Concealed sprinklers must be installed in neutral or negative pressure plenums only.

IMPORTANT: Always refer to Bulletin Form No. F_091699 - Care and Handling of Sprinklers. Also refer to page SR1-3 or QR1-3 for general care, installation, and maintenance information. Viking sprinklers are to be installed in accordance with the latest edition of Viking technical data, the appropriate standards of NFPA, LPCB, APSAD, VdS or other similar organizations, and also with the provisions of governmental codes, ordinances, and standards, whenever applicable.

11-562581