



TECHNICAL DATA

CONCEALED SPRINKLER COVER PLATE ASSEMBLIES

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 Cover Plates are low-profile covers used with Viking Concealed Sprinklers. The covers are installed flush with the ceiling or wall to provide a smooth appearance, and are available in several [standard decorative finishes](#) to meet design requirements. Viking Cover Plates may also be custom ordered with any color by any paint manufacturer.

2. LISTINGS AND APPROVALS

Refer to the Approval Charts on the applicable Viking Sprinkler Technical Data Pages.

3. TECHNICAL DATA

Specifications:

Refer to the appropriate sprinkler technical page for sprinkler specifications.

Material Standards:

Cover Plate Assembly: Copper UNS-C11000, Brass UNS-C26000 or UNS-C26800

Spring: Nickel Alloy

Solder: Eutectic (non-Eutectic for cover 15765)

Ordering Information: (Also refer to the current Viking price list.)

Refer to Tables 1a, 1b, and 2.

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:

For example, cover 09804 with a Polished Chrome finish and a 165 °F (74 °C) temperature rating = 09804FC.

Available Finishes And Temperature Ratings:

Refer to Tables 1a, 1b, and 2.

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.

4. INSTALLATION

A. After installation of the Concealed Sprinkler, testing of the system, repairing of all leaks, and installation and painting of the wall or ceiling, the concealed sprinkler cover plate assembly may be attached.

1. Remove the plastic protective cap from the sprinkler.

2. Remove the cover plate assembly from the protective box, taking care not to damage the assembly.

3. Gently place the base of the cover plate assembly over the sprinkler protruding through the opening** in the ceiling or wall.

**Size depends on the sprinkler model used. Refer to appropriate sprinkler data page.

4. Carefully push the cover plate assembly onto the sprinkler, using even pressure with the palm of the hand, until the unfinished brass flange of the cover plate base (or the cover adapter, if used) touches the surface of the ceiling or wall. The maximum adjustment available is 1/2" (12.7 mm) [1/4" (6.4 mm) for sprinklers VK480, VK481 and VK680]. DO NOT MODIFY THE UNIT. If necessary, re-cut the sprinkler nipple.

B. DISASSEMBLY: Cover plates can be removed either by gently unthreading them or pulling them off the sprinkler body (depends on the sprinkler model used).

C. RE-ASSEMBLY: The push-on feature of these cover plate assemblies allows easy installation of the cover plates.

1. Gently place the base of the cover plate assembly over the sprinkler.

2. Push the cover plate assembly onto the sprinkler, using even pressure with the palm of the hand, until the unfinished brass flange of the cover plate base touches the ceiling or wall.

5. OPERATION

During fire conditions, when the temperature around the sprinkler approaches its operating temperature, the cover plate detaches. Continued heating of the sprinkler causes the operating element to fuse or shatter (depending on the type of sprinkler), releasing the sealing assembly. Water flowing through the sprinkler orifice strikes the deflector or flow shaper, 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 concealed sprinklers and cover assemblies 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.



TECHNICAL DATA

CONCEALED SPRINKLER COVER PLATE ASSEMBLIES

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 1a: COMMERCIAL COVER ASSEMBLIES

Cover Part No. ¹	Cover Type	Cover Temp. Rating	Cover Diameter	Finishes Suffixes Available ^{2,3}	Sprinkler Models	Sprinkler Data Pages
09804	Flat Pendent	165 °F (74 °C) = C	2-3/4" (70 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK404 (Obs)	20a-e
					VK454 (Obs)	57a-e
11225	Flat Pendent	135 °F (57 °C) = A	2-3/4" (70 mm)	F	VK404 (Obs)	20a-e
					VK454 (Obs)	57a-e
11451	Flat Sidewall	135 °F (57 °C) = A and 165 °F (74 °C) = C	2-3/4" (70 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK408 (Obs)	63a-e
11697	Flat Commercial (large diameter)	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-5/16" (84 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK404 and VK454 (Obs)	57a-f
12381	Domed Pendent / Dry Pendent	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-1/8" (80 mm)	F, B, M-/W, M-/I, M-/B	VK102 and VK202	F_101912
					VK190	F_092003
					VK192	F_081311
					VK194	F_092103
					VK196	F_092203
					VK302	F_033614
					VK352	F_102112
					VK353	F_102212
					VK614 and VK616	F_061603
13501	Domed Sidewall	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-1/8" (80 mm)	F, M-/W, M-/I, M-/B	VK630 VK631 (Obs)	F_102805 84h-m
					VK461	F_091506
13504	Flat Pendent	135 °F (57 °C) = A and 165 °F (74 °C) = C	2-3/4" (70 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK462 and VK463	F_103005
					VK462 and VK464 MRI	F_062908
					VK464	F_021606
					VK465	F_032107
					VK632 and VK634	F_080107
13642	Flat Commercial (large diameter)	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-5/16" (84 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK461	F_091506
					VK462 and VK463	F_103005
					VK462 and VK464 MRI	F_062908
					VK464	F_021606
					VK465	F_032107
VK632 and VK634	F_080107					

Notes

¹ Base part number is shown. For complete part number, add finish suffix and temperature suffix.

² Custom colors are also available.

³ Finish Suffixes: 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

(Continued on page 3.)



TECHNICAL DATA

CONCEALED SPRINKLER COVER PLATE ASSEMBLIES

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 1b (continued): COMMERCIAL COVER ASSEMBLIES

Cover Part No. ¹	Cover Type	Cover Temp. Rating	Cover Diameter	Finishes Suffixes Available ^{2,3}	Sprinkler Models	Sprinkler Data Pages
13642-/CR	Cleanroom Flat Commercial (large diameter)	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-5/16" (84 mm)	F-/CR, /W/CR, /I/CR, /B/CR	VK462 (QR)	F_022409
13642-/CR	Cleanroom Flat Commercial (large diameter)	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-5/16" (84 mm)	F-/CR, /W/CR, /I/CR, /B/CR	VK464 (SR)	F_022409
15765-/CR	Cleanroom Flat Commercial (large diameter)	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-5/16" (84 mm)	F-/CR, /W/CR, /I/CR, /B/CR	VK469 (QR)	F_120508
15394	Flat Commercial (square cover plate)	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-5/16" (84 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK461	F_091506
					VK462 and VK463	F_100305
					VK464	F_021606
					VK465	F_032107
					VK632 and VK634	F_080107
15765	Flat Pendent	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-5/16" (84 mm)	F, M-/W, M-/I, M-/B	VK469	F_120508
					VK636	F_121009
					VK538	F_050511
16207	Flat HSW (large diameter)	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-5/16" (84 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK481	F_020312
16207	Flat HSW (large diameter)	135 °F (57 °C) = A	3-5/16" (84 mm)	F, M-/W, M-/I, M-/B	VK680	F_050611

Notes

¹ Base part number is shown. For complete part number, add finish suffix and temperature suffix.

² Custom colors are also available.

³ Finish Suffixes: 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



TECHNICAL DATA

CONCEALED SPRINKLER COVER PLATE ASSEMBLIES

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 2: RESIDENTIAL COVER ASSEMBLIES

Cover Part No. ¹	Cover Type	Cover Temp. Rating	Cover Diameter	Finishes Suffixes Available ^{2,3}	Sprinkler Models	Sprinkler Data Pages
12207	Domed Residential	135 °F (57 °C) = A	3-1/8" (80 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK466	F_091606
					VK458	F_092305
					VK468	F_020206
13504	Flat Residential	135 °F (57 °C) = A and 165 °F (74 °C) = C	2-3/4" (70 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK457 ⁴ VK474 VK4570 ⁴ VK4740 VK488 VK4880	F_072607 F_012109 F_100710 F_012811 F_073012 F_061214
10786	Flat Residential	135 °F (57 °C) = A	2-3/4" (70 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK425 (Obs)	147a-c(Obs)
13642	Flat Residential (large diameter)	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-5/16" (84 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK457 ⁴ VK474 VK4570 ⁴ VK4740 VK488 VK4880	F_072607 F_012109 F_100710 F_012811 F_073012 F_061214
15394	Flat Residential (square cover plate)	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-5/16" (84 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK457 ⁴ VK474 VK4570 ⁴ VK4740 VK488 VK4880	F_072607 F_012109 F_100710 F_012811 F_073012 F_061214
16207	Flat HSW Residential (large diameter)	135 °F (57 °C) = A	3-5/16" (84 mm)	M-/W	VK480	F_121609

Notes

¹ Base part number is shown. For complete part number, add finish suffix and temperature suffix.

² Custom colors are also available.

³ Finish Suffixes: 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

⁴ Not compatible with the 165 °F (74 °C) temperature rated covers.



TECHNICAL DATA

CONCEALED SPRINKLER COVER PLATE ASSEMBLIES

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

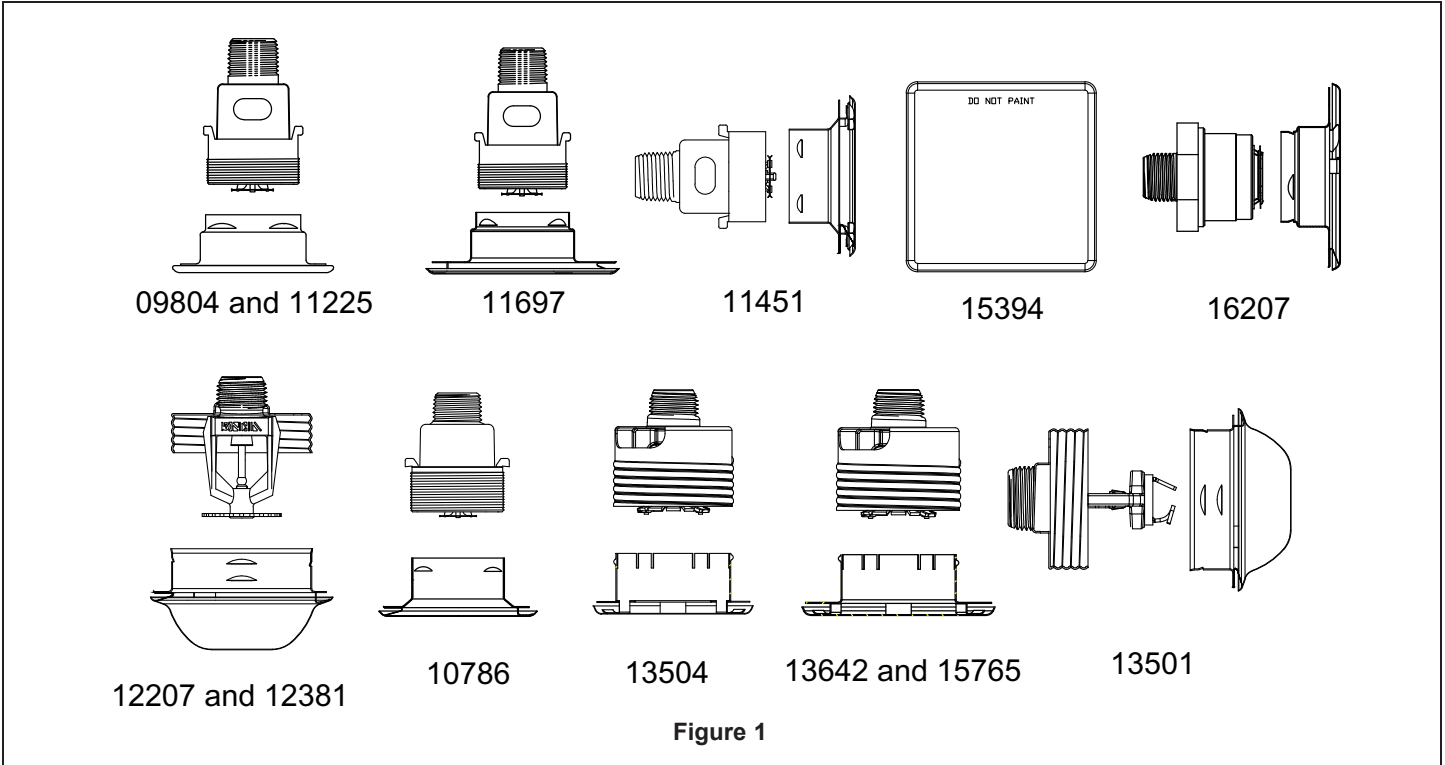


Figure 1

TABLE 3

SIN Number	Cover Base Part Number	SIN Number	Cover Base Part Number	SIN Number	Cover Base Part Number
VK102	12381	VK454	09804, 11225, 11697	VK481	16207
VK190	12381	VK457 and VK4570	13504, 13642, 15394	VK488 and VK4880	13504, 13642, 15394
VK192	12381	VK458	12207	VK538	15765
VK194	12381	VK461	13504, 13642, 15394	VK614	12381
VK196	12381	VK462	13504, 13642, 15394	VK616	12381
VK202	12381	VK463	13504, 13642, 15394	VK618	12381
VK302	12381	VK464	13504, 13642, 15394	VK630	13501
VK352	12381	VK465	13504, 13642, 15394	VK631	13501
VK353	12381	VK466	12207	VK632	13504, 13642, 15394
VK404	09804, 11225, 11697	VK468	12207	VK634	13504, 13642, 15394
VK405 (Obs)	09804, 11225	VK469	15765	VK636	15765
VK408 (Obs)	11451	VK474 and VK4740	13504, 13642, 15394	VK680	16207
VK425 (Obs)	10786	VK480	16207	--	--