



NYC Department of Buildings  
 280 Broadway, New York, NY 10007  
 Patricia Lancaster, FAIA, Commissioner  
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## Report of Materials and Equipment Acceptance Division

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

### MEA 89-92-E Vol.28

**Manufacturer:** The Viking Corporation

**Trade Name(s):** Automatic Fire Sprinklers

**Product:** Automatic Fire Sprinklers For Fire Protection Service.

**Pertinent Code Section(s):** NFPA 13, Reference Standard Subchapter 17 and RS 17-2.

**Prescribed Test(s):** UL 199

**Laboratory:** Underwriters Laboratories

**Test Report(s):** File Ex 643 Projects 98NK5805, 98NK37850, 98NK20794 & Project 02NK21752 issued June 1, 1998 and revised July 5, 2002.  
 File Ex 643 Projects 95NK21127, 97NK21752 issued September 3, 1996 and revised July 5, 2002.  
 File Ex643, Project 92NK25550; Project 93NK5028; Project 94NK25714; Project 95NK15167; Project 95NK21127; Project 98NK11873; Project 98NK20794; Project 00NK32255; Project 01NK09248; Project 02NK25369; \* Project 01NK36023, Issued: July 2, 1993, Revised: January 27, 2003. UL letter dated January 17, 2006

**Description** – Automatic fire sprinklers, of the following types and temperature ratings:

Model No.	Description
SIN VK405 (Model B-2)	<b>ITEM 1:</b> Horizon Mirage Standard Response Concealed Pendent Sprinkler VK405 (5.6 K-Factor), fusible link type, ½" NPT, 250 psig max. Sprinkler temperature rating 165 °F with a 135 °F cover plate (Polished Chrome finish only) or 165 °F cover plate. Also, 220 °F sprinkler with a 165 °F cover plate. Cover Plate Finishes: Bright Brass, Antique Brass, Brushed Brass, Polished Chrome, Brushed Chrome, and Brushed Copper, as well as painted finishes. UL File Ex643, Projects 95NK21127, 97NK22078, 00NK32255, and 02NK21752, Issued Sept. 3, 1996, Revised July 5, 2002.

SIN VK404 and VK454 (Model B-2)	<b>ITEM 2:</b> Horizon Mirage Quick Response Concealed Pendent Sprinklers VK404 and VK454 (5.6 K-Factor), fusible link type, ½" NPT, 175 psig max for Sprinkler VK404; 250 psig max. for Sprinkler VK454. Sprinkler temperature rating 165 °F with a 135 °F cover plate (Polished Chrome finish only) or 165 °F cover plate. Also, 220 °F sprinkler with a 165 °F cover plate. Also, Sprinklers VK404 and VK454, with a sprinkler temperature rating of 165 °F or 220 °F, and a 135 °F larger cover plate as an alternate cover plate assembly. Cover Plate Finishes: Bright Brass, Antique Brass, Brushed Brass, Polished Chrome, Brushed Chrome, and Brushed Copper, as well as painted finishes. UL File Ex643, Projects 95NK21127, 97NK22078, 00NK32255, and 02NK21752, Issued September 3, 1996, Revised July 5, 2002. Also, UL File Ex643, Projects 92NK25550, 93NK5028, 94NK25714, 95NK15167, 95NK21127, 98NK11873, 98NK20794, 00NK32255, 01NK09248, 02NK25369, 01NK36023, Issued July 2, 1993, Revised January 27, 2003.
SIN VK406 (Model B-2, Large Orifice)	<b>ITEM 3:</b> Horizon Mirage Quick Response Large Orifice Concealed Pendent Sprinklers (8.0 K-Factor), fusible link type, ½" or ¾" NPT, 175 psig max. Sprinkler temperature rating 165 °F with a 135 or 165 °F cover plate, or a 220 °F sprinkler with a 165 °F cover plate. Cover Plate Finishes: Bright Brass, Antique Brass, Brushed Brass, Polished Chrome, Brushed Chrome, and Brushed Copper, as well as painted finishes. UL File Ex643, Projects 98NK5805, 98NK37850, 98NK20794, and 02NK21752, Issued June 1, 1998, Revised July 5, 2002.
SIN VK625 and VK627 (Model B-1 and B-2)	<b>ITEM 4:</b> Horizon Mirage Standard and Quick Response Extended Coverage Concealed Pendent Sprinklers VK625 and VK627 (5.6 or 8.0 K-Factor), with a ½" or ¾" NPT, fusible link type, 175 psig max. For Light Hazard occupancies only. Sprinkler temperature rating 165 °F with a 135 °F cover plate (Polished Chrome finish only) or a 165 °F cover plate with the following finishes: Bright Brass, Antique Brass, Brushed Brass, Polished Chrome, Brushed Chrome, and Brushed Copper, as well as painted finishes. UL File Ex643, Projects 92NK25550, 93NK5028, 94NK25714, 95NK15167, 95NK21127, 98NK11873, 98NK20794, 00NK32255, 01NK09248, 02NK25369, and 01NK36023 Issued July 2, 1993, Revised January 27, 2003. Also, UL File Ex643, Projects 98NK5805, 98NK37850, 98NK20794, and 02NK21752, Issued June 1, 1998, Revised July 5, 2002.

Model No.	Sprinkler Identification Number	Maximum Areas of Coverage	Nominal K-Factor		Minimum Water Supply Requirements
			U.S.	metric	
<b>Quick Response Listings</b>					
Model B-1	VK625	16' x 16'	5.6	8,1	26 gpm @ 21.6 psi
Model B-1	VK625	18' x 18'	5.6	8,1	33 gpm @ 34.7 psi
Model B-2	VK627	16' x 16'	8.0	11,5	26 gpm @ 10.6 psi
Model B-2	VK627	16' x 16'	8.0	11,5	26 gpm @ 10.6 psi
Model B-2	VK627	18' x 18'	8.0	11,5	33 gpm @ 17.0 psi
Model B-2	VK627	18' x 18'	8.0	11,5	33 gpm @ 17.0 psi
<b>Standard Response Listings</b>					
Model B-1	VK625	20' x 20'	5.6	8,1	40 gpm @ 51.0 psi
Model B-2	VK627	20' x 20'	8.0	11,5	40 gpm @ 25.0 psi
Model B-2	VK627	20' x 20'	8.0	11,5	40 gpm @ 25.0 psi

Pursuant to "Promulgation of the Rules relating to Material and Equipment Application Procedures" dated November 5, 1992. The Bureau of Fire Prevention has no objections Letter dated March 1, 2006, F. P. Index # 0501045A.

Recommendation- That the above units be acceptable on condition that:

1. All uses, applications and installations shall comply with the provisions of New York City Building Code, specifically Subchapter 17, and Reference standard 17-2. Further, the installation shall be in accordance with the manufacturer's recommendation and UL Standard 199.
2. UL and manufacturer's maintenance procedures and limitations shall be complied with.

All shipments and deliveries of such equipment shall be provided with a metal tag, suitably placed, certifying that the equipment shipped or delivered is equivalent to that tested and acceptable for use, as provided in Section 27-131 of the Building Code.

Final Acceptance

*May 8, 2006*

Examined By

*Donald J. Jd*

CITY OF NEW YORK  
DEPARTMENT OF BUILDINGS

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use in accordance with the Report of Materials and Equipment Acceptance (MEA) Division.

Patricia J. Lancaster, F.A.I.A., Commissioner

MEA 89-92-E Vol. XXVII  
Report of Material and Equipment Acceptance Division

Manufacturer – The Viking Corporation

Trade Name(s) – Viking Sprinklers.

Product – Automatic fire sprinklers for fire protection service.

Pertinent Code Section(s) – Subchapter 17 and Reference Standard 17-2.

Test(s) – FM Class 2015.

Laboratory – FM Global.

Test Report(s) – FM Global Project J.I. 1X3A2.AH dated February 21, 1997; Project ID: 3008681, dated December 21, 2000; Project ID: 3011721, dated April 16, 2002; and Project ID: 3015730, dated February 12, 2003.

Description – Automatic fire sprinklers, of the following types and temperature ratings:

Model No.	Description
SIN VK404 (Model B-2)	Horizon Mirage Standard Response Concealed Pendent Sprinkler VK404 (5.6 K-Factor), fusible link type, ½" NPT, 175 psig max. Sprinkler temperature rating 165°F with a 165°F cover plate. Also, sprinkler temperature rating of 165°F, with a 135°F or 165°F larger cover plate as an alternate cover plate assembly. Cover Plate Finishes: Bright Brass, Antique Brass, Brushes Brass, Polished Chrome, Brushed Chrome, and Brushed Copper, as well as painted finishes.

Pursuant to "Promulgation of the Rules relating to Material and Equipment Application Procedures" dated November 5, 1992, the Bureau of Fire Prevention has no objections letter dated November 10, 2004, F.P. Index No. 0410055.

**Recommendation - That the above units be accepted on condition that all:**

1. All uses, applications and installations shall comply with the provisions of New York City Buildings Code, specifically Subchapter 17 and Reference Standard 17-2. Further, the installation shall be in accordance with the manufacturer's recommendation, and FM test standard.
2. FM and manufacturer's maintenance procedures and limitations shall be complied with.

All shipments and deliveries of such equipment shall be provided with a metal tag suitably placed, certifying that the equipment shipped or delivered is equivalent to that tested and accepted for use, as provided for in Section 27-131 of the Building Code.

Final Acceptance February 24, 2005.

Examined By Donald J. [Signature]