



Report of Materials and Equipment Acceptance Division

NYC Department of Buildings
 280 Broadway, New York, NY 10007
 Patricia Lancaster, FAIA, Commissioner
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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. 32

Manufacturer: The Viking Corporation, 210 N. Industrial Park Road, Hastings, MI 49058

Trade Name(s): Viking Corporation

Product: Automatic fire sprinklers for fire protection service.

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

Prescribed Test(s): UL 199

Laboratory: Underwriters Laboratories, Inc.

Test Report(s):

1. File EX643, Projects 05NK21413, 06NK07102, 05NK31378 issued January 13, 2006, revised May 8, 2006.
2. UL File EX643, Project 05NK23263 issued April 20, 2006.

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

Model No.	Description
SIN VK462	ITEM 1: Mirage® Quick Response Concealed Pendent Sprinkler SIN VK462 (5.6 K-Factor), 175 psig max, nominal 3 mm glass bulb type, ½" NPT sprinkler temperature rating 155°F with a 135°F cover plate. Also 175°F or 200°F sprinkler with a 165°F cover plate. Also includes a larger cover plate as an alternate cover plate assembly. Cover plate finishes: Polished chrome and painted finishes. UL File Ex643, Projects 05NK21413, 06NK07102 and 05NK31378, issued January 13, 2006, revised May 8, 2006.
SIN VK463	ITEM 2: Mirage® Quick Response High Pressure Concealed Pendent Sprinkler SIN VK463 (5.6 K-Factor), 250 psig max, nominal 3 mm glass bulb type, ½" NPT sprinkler temperature rating 155°F with a 135°F cover plate. Also 175°F or 200°F sprinkler with a 165°F cover plate. Also includes a larger cover plate as an alternate cover plate assembly. Cover plate finishes: Polished chrome and painted finishes. UL File Ex643, Projects 05NK21413, 06NK07102 and 05NK31378, issued January 13, 2006, revised May 8, 2006.

SIN VK464 **ITEM 3:** Mirage® Quick Response Concealed Pendent Sprinkler SIN VK464 (8.0 K-Factor), 175 psig max, nominal 3 mm glass bulb type, ¾" NPT sprinkler temperature rating 155°F with a 135°F cover plate. Also 175°F or 200°F sprinkler with a 165°F cover plate. Also includes a larger cover plate as an alternate cover plate assembly. Cover plate finishes: Polished chrome and painted finishes. UL File Ex643, Projects 05NK21413, 06NK07102 and 05NK31378, issued January 13, 2006, revised May 8, 2006. Also refer to UL File Ex3836, Projects 04NK21104, 05CA24622 and 06NK08727, issued March 18, 2005, revised April 10, 2006.

SIN VK630 **ITEM 4:** Quick Response Extended Coverage Frame Style Horizontal Sidewall and Recessed Pendent Sprinkler SIN VK630 (8.0 K-Factor), 175 psig max, nominal 3 mm glass bulb type, ¾" NPT for Light Hazard occupancies only. Sprinkler temperature ratings 135°F, 155°F, or 175°F. Finishes: Brass, Chrome-Enloy®, White Poly Finish, Black Poly Finish, and Black Teflon®. UL File Ex643, Project 05NK23263, issued April 20, 2006.

Maximum Areas of Coverage	Minimum Water Supply Requirements	Deflector-to-Ceiling Distance	Sprinkler Temperature Ratings
14' x 24'	34 gpm @ 18.1 psi	4 to 6"	135°F, 155°F, and 175°F
14' x 24'	36 gpm @ 20.3 psi	6 to 12"	
14' x 26'	38 gpm @ 22.6 psi	4 to 6"	135°F and 175°F
14' x 26'	46 gpm @ 33.1 psi	6 to 12"	
16' x 16'	26 gpm @ 10.6 psi	4 to 12"	135°F, 155°F, and 175°F
16' x 18'	29 gpm @ 13.1 psi	4 to 12"	
16' x 20'	32 gpm @ 16.0 psi	4 to 12"	
16' x 22'	36 gpm @ 20.3 psi	4 to 12"	135°F and 175°F
16' x 24'	39 gpm @ 23.8 psi	4 to 12"	
18' x 18'	33 gpm @ 17.0 psi	4 to 12"	
18' x 20'	36 gpm @ 20.3 psi	4 to 12"	
18' x 22'	40 gpm @ 25.0 psi	4 to 12"	

SIN V630 Concealed **ITEM 5:** Quick Response Extended Coverage Concealed Horizontal Sidewall Sprinkler SIN VK630 (8.0 K-Factor), 175 psig max, nominal 3 mm glass bulb type, ¾" NPT for Light Hazard occupancies only. Sprinkler temperature ratings 135°F with a 135°F cover plate or a 175°F sprinkler with a 165°F cover plate. Cover plate finishes: Polished chrome and painted finishes. UL File Ex643, Project 05NK23263, issued April 20, 2006.

Maximum Areas of Coverage	Minimum Water Supply Requirements	Deflector-to-Ceiling Distance	Sprinkler Temperature Ratings
14' x 24'	34 gpm @ 18.1 psi	4 to 6"	135°F sprinkler with a 135°F cover plate
14' x 24'	36 gpm @ 20.3 psi	6 to 12"	
14' x 26'	39 gpm @ 22.6 psi	4 to 6"	
14' x 26'	46 gpm @ 33.1 psi	6 to 12"	

SIN V630 Concealed (Cont'd.)	16' x 16'	26 gpm @ 10.6 psi	4 to 12"	135°F sprinkler with a 135°F cover plate or a 175°F sprinkler with a 165°F cover plate
	16' x 18'	29 gpm @ 13.1 psi	4 to 12"	
	16' x 20'	32 gpm @ 16.0 psi	4 to 12"	
	16' x 22'	36 gpm @ 20.3 psi	4 to 12"	135°F sprinkler with a 135°F cover plate
	16' x 24'	39 gpm @ 23.8 psi	4 to 12"	
	18' x 18'	33 gpm @ 17.0 psi	4 to 12"	
	18' x 20'	36 gpm @ 20.3 psi	4 to 12"	
	18' x 22'	40 gpm @ 25.0 psi	4 to 12"	

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 September 6, 2006, F.P. Index #0606069.

Terms and Conditions: The above units are accepted on the following conditions:

1. Installation shall comply with all applicable New York City Building Codes, rules, regulations and testing requirements, in particular with the requirements of Subchapter 17, and with Reference Standards RS 17-2, RS 17-2A and RS 17-2B of the Administrative Code.
2. Underwriters Laboratories, Inc.'s listing requirements and limitations shall be adhered to.
3. Fittings and other accessories used with sprinkler VK463 shall be suitable for the pressures designed and tested to.
4. Manufacturer's installation, maintenance procedures and limitations shall be complied with.
5. 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 September 25, 2006
Examined By Donald [Signature]