



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. 38

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

Trade Name(s): Viking Sprinklers

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; UL 1626

Laboratory: Underwriters Laboratories, Inc.

Test Report(s):

1. UL File Ex643, Projects 05NK21413, 06NK07102, 05NK31378, 06NK21906 and 07NK02539, issued January 13, 2006, revised February 19, 2007.
2. UL File Ex643, Projects 03NK31930, 04NK24425, 05NK25712, 06NK15719, 6NK06003 and 06NK24531, issued August 4, 2004, revised April 24, 2007.

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

Model No.	Description
SIN VK461	<p>ITEM 1: Mirage® Quick Response Concealed Pendent Sprinkler SIN VK461 (2.8 K-Factor), 3 mm glass bulb type, ½" NPT, 175 psig maximum for Light Hazard occupancies only. 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 or painted. UL File Ex643, Projects 05NK21413, 06NK07102, 05NK31378, 06NK21906 and 07NK02539, issued January 13, 2006, revised February 19, 2007.</p>

ITEM 2: EC/QREC Ordinary Hazard Upright Sprinkler SIN VK570 (14.0 K-Factor), 3 mm glass bulb type, 3/4" NPT, 175 psig maximum. Sprinkler temperature ratings: 155°F, 175°F, 200°F and 286°F. Cover Plate Finishes: Brass, Chrome-Enloy®, White polyester, Black polyester, or Black Teflon®. UL File Ex643, Projects 03NK31930, 04NK24425, 05NK25712, 06NK15719, 06NK06003 and 06NK24531, issued August 4, 2004, revised April 24, 2007.

	Maximum Areas of Coverage	Minimum Area per Sprinkler	Minimum Water Supply Requirements	Temperature Ratings
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Standard Response

SIN VK570			OH Group 1	OH Group 2	
	12' x 12'	144 ft ² (13.4 m ²)	39 gpm @ 7.8 psi	39 gpm @ 7.8 psi	155, 175, 200, 286°F
	14' x 14'	196 ft ² (18.2 m ²)	39 gpm @ 7.8 psi	39 gpm @ 7.8 psi	155, 175, 200, 286°F
	16' x 16'	256 ft ² (23.8 m ²)	39 gpm @ 7.8 psi	51 gpm @ 13.3 psi	155, 175, 200, 286°F
	18' x 18'	324 ft ² (30.1 m ²)	49 gpm @ 12.3 psi	65 gpm @ 21.6 psi	155, 175, 200, 286°F
	20' x 20'	400 ft ² (37.2 m ²)	60 gpm @ 18.4 psi	80 gpm @ 32.7 psi	155, 175, 200, 286°F

Quick Response

12' x 12'	144 ft ² (13.4 m ²)	39 gpm @ 7.8 psi	39 gpm @ 7.8 psi	155, 175, 200, 286°F
14' x 14'	196 ft ² (18.2 m ²)	39 gpm @ 7.8 psi	39 gpm @ 7.8 psi	155, 175, 200, 286°F

NOTE: Minimum spacing between sprinklers is 9 ft. to prevent cold soldering.
 * For Sprinklers VK570 and VK572 with High Temperature 286°F rating, the QR listing is limited to their use in Ordinary Hazard occupancies to the high temperature zones within a building only. VK570 and VK572 quick response sprinklers with this temperature rating cannot be used throughout the property.

ITEM 3: EC/QREC Ordinary Hazard Pendent and Recessed Pendent Sprinkler SIN VK572 (14.0 K-Factor), 3 mm glass bulb type, 3/4" NPT, 175 psig maximum. Sprinkler temperature ratings: 155°F, 175°F, 200°F and 286°F. Finishes: Brass, Chrome-Enloy®, White polyester, Black polyester, or Black Teflon®. UL File Ex643, Projects 03NK31930, 04NK24425, 05NK25712, 06NK15719, 06NK06003 and 06NK24531, issued August 4, 2004, revised April 24, 2007.

	Maximum Areas of Coverage	Minimum Area per Sprinkler	Minimum Water Supply Requirements	Temperature Ratings
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Standard Response

SIN VK572			OH Group 1	OH Group 2	
	12' x 12'	144 ft ² (13.4 m ²)	39 gpm @ 7.8 psi	39 gpm @ 7.8 psi	155, 175, 200, 286°F
	14' x 14'	196 ft ² (18.2 m ²)	39 gpm @ 7.8 psi	39 gpm @ 7.8 psi	155, 175, 200, 286°F
	16' x 16'	256 ft ² (23.8 m ²)	39 gpm @ 7.8 psi	51 gpm @ 13.3 psi	155, 175, 200, 286°F
	18' x 18'	324 ft ² (30.1 m ²)	49 gpm @ 12.3 psi	65 gpm @ 21.6 psi	155, 175, 200, 286°F
	20' x 20'	400 ft ² (37.2 m ²)	60 gpm @ 18.4 psi	80 gpm @ 32.7 psi	155, 175, 200, 286°F

Quick Response

12' x 12'	144 ft ² (13.4 m ²)	39 gpm @ 7.8 psi	39 gpm @ 7.8 psi	155, 175, 200, 286°F
14' x 14'	196 ft ² (18.2 m ²)	39 gpm @ 7.8 psi	39 gpm @ 7.8 psi	155, 175, 200, 286°F

NOTE: Minimum spacing between sprinklers is 9 ft. to prevent cold soldering.
 * Recessed sprinkler approved through 200°F rating only. For Sprinklers VK570 and VK572 with High Temperature of 286°F rating, the QR listing is limited to their use in Ordinary Hazard occupancies to the high temperature zones within a building only. VK570 and VK572 quick response sprinklers with this temperature rating cannot be used throughout the property.

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 August 15, 2007, F.P. Index #0707045.

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 and NFPA Codes 13, 13R and 13D.
2. Sprinkler VK461 shall be used in Light Hazard occupancies only.
3. Sprinkler VK570 shall be used in Ordinary Hazard occupancies and maintain the required minimum spacing. Quick Response with 286°F rating shall be limited to use in Ordinary Hazards to the high temperature zones within a building. It cannot be used throughout the building.
4. Sprinkler VK572 shall be used in Ordinary Hazard occupancies and maintain the required minimum spacing. Quick Response with 286°F rating shall be limited to use in Ordinary Hazards to the high temperature zones within a building. It cannot be used throughout the building. Recessed sprinklers are approved only for 155°F, 175°F and 200°F.
5. Underwriters Laboratories, Inc.'s listing requirements and limitations shall be adhered to.
6. Manufacturer's installation, maintenance procedures and limitations shall be complied with.
7. 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 New York City Building Code.

Final Acceptance September 7, 2007
Examined By Donald [Signature]