



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. 35

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

**Trade Name(s):** Viking Automatic Sprinkler

**Product:** Automatic fire sprinklers for fire protection service

**Pertinent Code Section(s):** Subchapter 17 and Reference Standard RS 17

**Prescribed Test(s):** UL199 and UL1626

**Laboratory:** Underwriters Laboratories, Inc.

**Test Report(s):**

1. File EX3836, Project Nos.: 03CA06609, 03NK33586, 05NK05068, 05CA43687 and 06NK07613, issued September 25, 2003, revised April 24, 2006.
2. File EX3836, Project Nos.: 04NK21104, 05CA24622, 06NK08727, issued March 18, 2005, revised April 10, 2006.

**Description:** Residential-type automatic fire sprinklers of the following types and temperature ratings:

Model No.	Description				
SIN VK468 Concealed	<p><b>ITEM 1:</b> Freedom® Residential Concealed Pendent Sprinkler SIN VK468 (4.9 K-Factor), nominal 3 mm glass bulb type, ½” NPT. Sprinkler temperature rating: 155°F with a 135°F cover plate. For installation in residential occupancies with wet systems only, 175 psig. max. The deflector must be located 3/8” to 7/8” below ceiling. Finishes: Polished Chrome or painted. UL File Ex3836, Projects 03CA06609, 03NK33586, 05NK05068, 05CA43687 and 06NK07613, issued September 25, 2003, revised April 24, 2006.</p>				
	<p><b>Maximum Areas of Coverage</b></p>	<p><b>Minimum Water Supply Requirements</b></p>	<p><b>Sprinkler Temperature Rating</b></p>	<p><b>Cover Assembly Temperature Rating</b></p>	
	<p>Installed below smooth, flat, horizontal ceilings, including ceilings with slopes up to and including 2/12 (9.5°).</p>				
	12' x 12'	13 gpm @ 7.0 psi	155°F and 175°F	135°F	
	14' x 14'	13 gpm @ 7.0 psi	155°F and 175°F	135°F	
	16' x 16'	13 gpm @ 7.0 psi	155°F and 175°F	135°F	
	18' x 18'	17 gpm @ 12.0 psi	155°F and 175°F	135°F	
20' x 20'	20 gpm @ 16.7 psi	155°F and 175°F	135°F		
SIN VK468	<p><b>ITEM 2:</b> Freedom® Residential Pendent and Recessed Pendent Sprinkler SIN VK468 (4.9 K-Factor), nominal 3 mm glass bulb type, ½” NPT. For installation in residential occupancies with wet systems only, 175 psig max. Finishes: Brass, Chrome-Enloy® or painted. Temperature ratings: 155°F or 175°F. UL File Ex3836, Projects 03CA06609, 03NK33586, 05NK05068, 05CA43687 and 06NK07613, issued September 25, 2003, revised April 24, 2006.</p>				
	<p><b>Minimum Areas of Coverage</b></p>		<p><b>Minimum Water Supply Requirements</b></p>		<p><b>Temperature Ratings</b></p>
	<p>Installed below smooth, flat, horizontal ceilings including ceilings with slopes up to and including 2/12 (9.5°).</p>				
	12' x 12'	13 gpm @ 7.0 psi	155°F and 175°F		
	14' x 14'	13 gpm @ 7.0 psi	155°F and 175°F		
	16' x 16'	13 gpm @ 7.0 psi	155°F and 175°F		
	18' x 18'	17 gpm @ 12.0 psi	155°F and 175°F		
	20' x 20'	20 gpm @ 16.7 psi	155°F and 175°F		
	<p>Installed below horizontal ceilings with beams.</p>				
	12' x 12'	13 gpm @ 7.0 psi	155°F		
	14' x 14'	13 gpm @ 7.0 psi	155°F		
	16' x 16'	13 gpm @ 7.0 psi	155°F		
	18' x 18'	17 gpm @ 12.0 psi	155°F		
	20' x 20'	20 gpm @ 16.7 psi	155°F		

SIN VK453	<b>ITEM 3:</b> Freedom® Residential HSW and Recessed HSW Sprinkler SIN VK453 (4.0 K-Factor), nominal 3 mm glass bulb type, ½" NPT. For installation in residential occupancies with wet systems only, 175 psig. max. Finishes: Brass, Chrome-Enloy® or painted. Temperature ratings: 155°F or 175°F. UL File Ex3836, Project 04NK21104, issued March, 18, 2005, revised April 10, 2006.		
	Minimum Areas of Coverage	Minimum Water Supply Requirements	Temperature Ratings
	Installed below smooth, flat, horizontal ceilings including ceilings with slopes up to and including 2/12 (9.5°). Deflector must be located between 4" to 6" below ceiling.		
	12' x 12'	11 gpm @ 7.6 psi	155°F and 175°F
	14' x 14'	12 gpm @ 9.0 psi	155°F and 175°F
	16' x 16'	16 gpm @ 16.0 psi	155°F and 175°F
	16' x 18'	16 gpm @ 16.0 psi	155°F and 175°F
	16' x 20'	23 gpm @ 33.1 psi	155°F and 175°F
	18' x 18'	19 gpm @ 22.6 psi	155°F and 175°F
	18' x 20'	24 gpm @ 36.0 psi	155°F and 175°F
	Installed below smooth, flat, horizontal ceilings including ceilings with slopes up to and including 2/12 (9.5°). Deflector must be located between 6" to 12" below ceiling.		
	12' x 12'	12 gpm @ 9.0 psi	155°F and 175°F
	14' x 14'	13 gpm @ 10.6 psi	155°F and 175°F
	16' x 16'	16 gpm @ 16.0 psi	155°F and 175°F
	16' x 18'	17 gpm @ 18.1 psi	155°F
	16' x 18'	18 gpm @ 20.3 psi	175°F
	16' x 20'	24 gpm @ 36.0 psi	155°F and 175°F
	18' x 18'	19 gpm @ 22.6 psi	155°F and 175°F
18' x 20'	24 gpm @ 36.0 psi	155°F and 175°F	

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 October 17, 2006, F.P. Index #0609008.

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

1. Installation shall comply with the New York City Building Code and applicable 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 the NFPA Code 13, 13R and 13D.
2. The sprinklers shall be used only in wet pipe systems.
3. Underwriters Laboratories, Inc.'s listing requirements and limitations shall be adhered to.
4. Only VK #468 Residential pendent sprinkler shall be installed below horizontal ceilings with beams.
5. Manufacturer's installation, maintenance procedures and limitations shall be complied with.
6. 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 November 30, 2006  
Examined By 