



# 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. 36

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

**Trade Name(s):** Viking Automatic 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 Ex3836, Project 05NK54707, issued August 3, 2006.
2. UL File Ex3836, Projects 05NK09264, 05CA36585, 05NK21411 and 05CA36555, issued August 16, 2005, revised May 16, 2006.

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

Model No.	Description			
SIN VK456	<b>ITEM 1:</b> Freedom® Residential Concealed Pendent Sprinkler SIN VK456 (4.9 K-Factor), fusible element type, ½" NPT. Sprinkler temperature rating: 140°F with a 135°F cover plate. For installation in residential occupancies with wet systems only. 175 psig max. Finishes: Polished chrome or painted. UL File Ex3836, Project 05CA54707, issued August 3, 2006.			
	Maximum Areas of Coverage	Minimum Water Supply Requirements	Sprinkler Temperature Rating	Cover Assembly Temperature Rating
	Installed below smooth, flat, horizontal ceilings, including ceilings with slopes up to and including 2/12 (9.5°)			
	12' x 12'	13 gpm @ 7.0 psi	140°F	135°F
	14' x 14'	13 gpm @ 7.0 psi	140°F	135°F
	16' x 16'	14 gpm @ 8.2 psi	140°F	135°F
	18' x 18'	17 gpm @ 12.0 psi	140°F	135°F
20' x 20'	23 gpm @ 22.0 psi	140°F	135°F	

SIN VK458	<b>ITEM 2:</b> Freedom® Residential Pendent and Recessed Pendent Sprinkler SIN VK458 (7.4 K-Factor), nominal 3 mm glass bulb type, 3/4" 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 05NK09264, 05CA36585, 05NK21411 and 05CA36555, issued August 16, 2005, revised May 16, 2006.					
	<b>Maximum Areas of Coverage</b>		<b>Minimum Water Supply Requirements</b>		<b>Temperature Ratings</b>	
	Installed below smooth, flat, horizontal ceilings, including ceilings with slopes up to and including 2/12 (9.5°)					
	12' x 12'		20 gpm @ 7.3 psi		155 and 175°F	
	14' x 14'		20 gpm @ 7.3 psi		155 and 175°F	
	16' x 16'		20 gpm @ 7.3 psi		155 and 175°F	
	18' x 18'		22 gpm @ 8.8 psi		155 and 175°F	
	20' x 20'		24 gpm @ 10.5 psi		155 and 175°F	
	<b>Maximum Areas of Coverage</b>		<b>Minimum Water Supply Requirements</b>		<b>Temperature Ratings</b>	
	Installed below ceilings with slopes up to and including 8/12 (33.7°) pitch.					
	16' x 16'		20 gpm @ 7.3 psi		155°F	
	16' x 16'		24 gpm @ 10.5 psi		175°F	
	18' x 18'		23 gpm @ 9.7 psi		155°F	
	18' x 18'		25 gpm @ 11.4 psi		175°F	
	20' x 20'		24 gpm @ 10.5 psi		155°F	
20' x 20'		25 gpm @ 11.4 psi		175°F		
SIN VK458 Concealed	<b>ITEM 3:</b> Freedom® Residential Concealed Pendent Sprinkler SIN VK458 (7.4 K-Factor), nominal 3 mm glass bulb type, 3/4" NPT. 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 the ceiling. Finishes: Polished chrome or painted. UL File Ex3836, Projects 05NK09264, 05CA36585, 05NK21411 and 05CA36555, issued August 16, 2005, revised May 16, 2006.					
	<b>Maximum Areas of Coverage</b>	<b>Minimum Water Supply Requirements</b>	<b>Sprinkler Temperature Ratings</b>	<b>Cover Assembly Temperature Rating</b>		
	Installed below smooth, flat, horizontal ceilings, including ceilings with slopes up to and including 2/12 (9.5°).					
	12' x 12'	20 gpm @ 7.3 psi	155°F	135°F		
	14' x 14'	20 gpm @ 7.3 psi	155°F	135°F		
	16' x 16'	20 gpm @ 7.3 psi	155°F	135°F		
	18' x 18'	23 gpm @ 9.7 psi	155°F	135°F		
	20' x 20'	28 gpm @ 14.3 psi	155°F	135°F		
	Installed below ceilings with slopes up to and including 8/12 (33.7°) pitch.					
	16' x 16'	22 gpm @ 8.8 psi	155°F	135°F		
	18' x 18'	28 gpm @ 14.3 psi	155°F	135°F		
	20' x 20'	28 gpm @ 14.3 psi	155°F	135°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 December 14, 2006, F.P. Index #0611009.

**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 (NFPA Code 13R and 13D).
2. Underwriters Laboratories, Inc.'s listing requirements and limitations shall be adhered to.
3. The sprinklers shall be installed in residential occupancies and wet systems only.
4. The sprinklers shall not be subject to system pressures greater than 175 psig.
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 January 23, 2007  
Examined By Donald [Signature]