

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, A.I.A., Commissioner  
MEA 89-92-E Vol. XXIV

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) - NFPA 13, NFPA 13D, NFPA 13R, Reference Standard RS 17-2, RS 17-6, 27-954 through 27-967.

Prescribed Tests - UL 199 and UL 1626.

Laboratory - Underwriter's Laboratories, Inc.

Test Report(s) - As indicated below.

Description - Residential type automatic fire sprinklers, rated 175 psig, of the following types and temperature ratings:

Model No.	Description			
SIN VK434	<b>ITEM 1:</b> Microfast® Residential Pendent-Sprinkler (3.1 K-Factor), 3 mm glass bulb type pendent and recessed pendent, ½" NPT, 175 psig max. Finishes: Brass, Bright Brass, Chrome-Enloy®, White (paint), and Navajo White (paint). UL File Ex3836, Projects 96NK37710, 98NK5103, 99NK36385/Ex643, 00NK24588, and 02NK16262, Issued Nov. 25, 1997, Revised April 19, 2002.			
	<b>Maximum Areas of Coverage Width x Length</b>	<b>Minimum Water Supply Requirements</b>	<b>Temp. Rating</b>	
	Installed below smooth, flat, horizontal ceilings only.			
	12' x 12'	11 gpm @ 12.6 psi	155 °F only	
	14' x 14'	13 gpm @ 17.6 psi		
	16' x 16'	13 gpm @ 17.6 psi		
SIN VK432	<b>ITEM 2:</b> Microfast® Residential Pendent Sprinkler (5.5 K-Factor), 3 mm glass bulb pendent and recessed pendent type, ½" NPT, 175 psig max. Finishes: Brass, Bright Brass, Chrome-Enloy®, White (paint), and Navajo White (paint). UL File Ex3836, Projects 97NK21624, 98NK5103, 99NK36385/Ex643, 00NK24588, 02NK16262, 01NK34435, and 02NK38001, Issued July 18, 1997, Revised October 11, 2002.			
	<b>Max. Areas of Covg. (W x L)</b>	<b>Min. Water Supply Reqmts</b>	<b>Temp. Rating</b>	
	For smooth, flat, horizontal ceilings only.			
	12' x 12'	16 gpm @ 8.5 psi	155 °F and 175 °F	
	14' x 14'	19 gpm @ 11.9 psi		
	16' x 16'	19 gpm @ 11.9 psi		
	18' x 18'	21 gpm @ 14.6 psi		
	20' x 20'	24 gpm @ 19.0 psi		
	For sloped ceilings to an 8/12 (in./in.) pitch.			
	12' x 12'	21 gpm @ 14.6 psi		
	14' x 14'	21 gpm @ 14.6 psi		
	16' x 16'	21 gpm @ 14.6 psi		
	18' x 18'	22 gpm @ 16.0 psi		
20' x 20'	28 gpm @ 25.9 psi			

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Model No.

Description

SIN VK440

**ITEM 3:** Microfast® Residential HSW Sprinkler (4.3 K-Factor). 3 mm glass-bulb type horizontal sidewall and recessed horizontal sidewall, 1/2" NPT, 175 psig max. Finishes: Brass, Bright Brass, Chrome-Enloy®, White (paint), and Navajo White (paint). UL File Ex3836. Projects 95NK26511, 96NK25030, 98NK5103, 00NK24588, 02NK16262, and 01NK34435. Issued September 27, 1996, Revised October 8, 2002. Projects 95NK26511 and 96NK25030, Issued September 27, 1996, Revised April 19, 2002.

Maximum Areas of Coverage Width x Length	Minimum Water Supply Requirements	Temp. Rating
Installed below smooth, flat, horizontal ceilings with the deflector positioned between 6" and 12" below the ceiling.		155 °F and 175 °F
12' x 12'	19 gpm @ 19.5 psi	
14' x 14'	21 gpm @ 23.9 psi	
Installed below sloped ceilings to 8/12 (in./in.) pitch with sprinklers at peak spraying down the slope with the deflector positioned between 4" and 6" below the ceiling.		
12' x 12'	19 gpm @ 19.5 psi	

SIN VK442

**ITEM 4:** Microfast®/MicrofastHP® Residential HSW Sprinkler (5.5 K-Factor). 3 mm glass bulb type horizontal sidewall and recessed horizontal sidewall, 1/2" NPT, 175 psig max. Finishes: Brass, Bright Brass, Chrome-Enloy®, White (paint), and Navajo White (paint). UL File Ex3836, Projects 95NK26511, 96NK25030, 98NK5103, 00NK24588, 02NK16262, and 01NK34435, Issued September 27, 1996, Revised October 8, 2002. Projects 95NK26511 and 96NK25030, Issued September 27, 1996, Revised April 19, 2002.

Maximum Areas of Coverage Width x Length	Minimum Water Supply Requirements	Temp. Rating
Installed below smooth, flat, horizontal ceilings with the deflectors positioned between 4" and 12" below the ceiling.		155 °F and 175 °F
12' x 12'	21 gpm @ 14.6 psi	
14' x 14'	22 gpm @ 16.0 psi	
Installed below smooth, flat, horizontal ceilings with the deflectors positioned between 4" and 6" below the ceiling.		
16' x 16'	24 gpm @ 19.0 psi	
16' x 18'	27 gpm @ 24.1 psi	
Installed below sloped ceilings to an 8/12 (in./in.) pitch with sprinklers at peak spraying down the slope with the deflector positioned between 4" and 6" below the ceiling.		
12' x 12'	21 gpm @ 14.6 psi	
14' x 14'	22 gpm @ 16.0 psi	
16' x 16'	24 gpm @ 19.0 psi	
16' x 18'	28 gpm @ 25.9 psi	

SIN VK425

**ITEM 5:** Mirage® Residential Concealed Pendent Sprinkler (4.1 K-Factor), fusible-link type, 1/2" NPT, 175 psig max. Finishes: Bright Brass, Brushed Brass, Antique Brass, Polished Chrome, Brushed Chrome, Brushed Copper, White (paint), Ivory (paint), and black (paint). UL File Ex3836, Projects 98NK20823 and 02NK16262. Issued December 13, 1999, Revised April 19, 2002.

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Model No.	Description			
SIN VK425	Maximum Areas of Coverage	Minimum Water Supply Requirements	Temp. Rating	
	Installed below smooth, flat, horizontal ceilings only.			
	12' x 12'	15 gpm @ 13.4 psi	140 °F sprinkler (with 135 °F cover plate)	
	14' x 14'	16 gpm @ 15.2 psi		
16' x 16'	20 gpm @ 23.8 psi			
<p><b>ITEM 6:</b> Microfast® Residential Pendent Sprinkler (4.3 K-Factor), 3 mm glass-bulb type pendent and recessed pendent, ½" NPT, 175 psig max. Finishes: Brass, Bright Brass, Chrome-Enloy®, White (paint), and Navajo White (paint). UL File Ex3836, Projects 95NK16745, 95NK34820, 97NK21624, 98NK5103, 99NK36385/Ex643, 00NK24588, and 02NK16262, Issued October 26, 1995, Revised April 19, 2002.</p>				
SIN VK430	Max. Areas of Coverage	Min. Water Supply Reqmts.	Temp. Rating	
	Installed below smooth, flat, horizontal ceilings.			
	12' x 12'	12 gpm @ 7.8 psi	155 °F and 175 °F	
	16' x 16'	13 gpm @ 9.1 psi		
	18' x 18'	17 gpm @ 15.6 psi		
	20' x 20'	21 gpm @ 23.9 psi		
For sloped ceilings to an 8/12 (in./in.) pitch.				
16' x 16'	18 gpm @ 17.5 psi			
<p><b>ITEM 7:</b> Microfast® Residential HSW Sprinkler (4.3 K-Factor), 3 mm glass-bulb type horizontal sidewall and recessed horizontal sidewall, ½" NPT, 175 psig max. Finishes: Brass, Bright Brass, Chrome-Enloy®, White (paint), and Navajo White (paint). UL File Ex3836, Project 02NK15163, Issued October 1, 2002.</p>				
SIN VK448	Max. Areas of Coverage	Min. Water Supply Reqmts.	Temp. Rating	
	Installed below smooth, flat, horizontal ceilings only with the deflector positioned between 4" and 6" below the ceiling.			
	16' x 18'	23 gpm @ 28.6 psi	155 °F and 175 °F	
	16' x 20'	25 gpm @ 33.8 psi		
	Installed below smooth, flat, horizontal ceilings only with the deflector positioned between 6" and 12" below the ceiling.			
	16' x 18'	24 gpm @ 31.2 psi		
16' x 20'	26 gpm @ 36.6 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 January 14, 2003, F.P. Index0301017.

Recommendation - That the above equipment be accepted on the following conditions:

1. Installation shall comply with all applicable New York City codes, rules, regulations and testing requirements and in particular with the requirements of Subchapter 17 and RS 17-2 of the Administrative Code.
2. Underwriters Laboratories Inc.'s listing requirements and limitations shall be adhered to.
3. Manufacturer's installation, 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 for in Section 27-131 of the Building Code.

Final Acceptance MARCH 10, 2003

Examined by Donald [Signature]