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REPORT

on

SPRINKLERS, AUTOMATIC AND OPEN

Viking Corp. Hastings, MI

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GENERAL

INTRODUCTION:

This Report describes the investigation of automatic sprinklers intended to be installed in accordance with the National Fire Protection Association Standard For The Installation of Sprinkler Systems, NFPA 13.

OBJECT:

The object of this investigation was to determine compliance of the automatic sprinklers with the Standard For Automatic Sprinklers For Fire Protection Service, UL 199 and The Standard for Automatic Sprinklers for Fire Protection Service, ULC/ORD C199-03.

PLAN:

The investigation of the automatic sprinklers consisted of conducting a product conformance evaluation and performance testing as described in UL 199, 11^{th} Edition and C199-03, 2^{nd} edition.

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DESCRIPTION

PRODUCT COVERED:

Automatic sprinklers, Model M mechanical link incorporating a strut type fusible operating element having the following ratings:

Listing	Model	K-Factor	Style (Position)	Temperature Ratings
USL, CNL	VK108, VK110,	5.6	SSP, SSU horizontal and	165, 220 and 286
	VK112		vertical sidewall++	
USL, CNL	VK008	4.2	SSP	165, 220, 286 and 360
USL, CNL	VK006	4.2	SSU	165, 220, 286 and 360
USL, CNL	VK204, VK206	8.0 with 1/2 or	SSP and SSU	165, 220, 286 and 360
		3/4 in. NPT inlet		
		threads		
USL, CNL	VK108, VK110,	Intermediate	SSU, SSP	165, 220, 286 and 360
	VK204, VK206	level+, 5.6 and 8.0		
USL, CNL	VK008, VK110,	4.2, 5.6, 8.0	Recessed, SSP	165, 220, 286 and 360
	VK206			
USL, CNL	VK112	5.6	Recessed HSW	220
USL, CNL	VK552	5.6	Upright, Intermediate	165, 220 286
USL, CNL	VK562	8.0	Upright, Intermediate	165, 220 286

- + Model VK108 and VK204 intermediate level upright sprinklers for use with Model B-1 sprinkler guard. Model M intermediate level pendent sprinkler for use with Model C-1 sprinkler guard. For description of guards see File MS21, Vol. 1.
- ++ The 1/2 in. horizontal and vertical sidewalls and recessed horizontal sidewall sprinklers are for use in light hazard occupancies only. Recessed horizontal sidewall sprinklers are to be installed 4 to 12 in. below ceiling.

GENERAL:

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The sprinklers may also be wax coated where all parts will be completely coated. Sprinkler frames are color coded in accordance with the requirements of UL 199 and NFPA 13-1983. Model M, 1/2 in. size recessed horizontal sidewall sprinklers use Models E-1 and F-1 adjustable escutcheon.

USE:

These sprinklers are intended for use with automatic sprinkler equipment as covered by the Standard of the National Fire Protection Association for the Installation of Sprinkler System, NFPA 13.

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SIN	OLD MODEL	STYLE	K-FACTOR	RESPONSE TYPE
VK005	М	Upright	2.8	SR
VK006	М	Upright	4.2	SR
VK007	М	Pendent	2.8	SR
VK008	М	Pendent	4.2	SR
VK108	М	Upright	5.6	SR
VK110	М	Pendent	5.6	SR
VK204	М	Upright	8.0	SR
VK206	М	Pendent	8.0	SR
VK112	М	HSW	5.6	SR
VK114	М	VSW	5.6	SR

FOR ENGINEERING CONSIDERATIONS ONLY:

* CNL indicates Listing to Canadian National Standard ULC C199.

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CONCLUSION

Samples of the product covered by this Report have been found to comply with the requirements covering the category and the product is found to comply with UL's applicable requirements. The description and test result in this Report are only applicable to the sample(s) investigated by UL and does not signify the product(s) described as being covered under UL's Follow-Up Service Program. When covered under UL's Follow-Up Service Program, the manufacturer is authorized to use the UL Listing Mark on such products which comply with UL's Follow-Up Service Procedure and any other application requirements of Underwriters Laboratories Inc. The Listing Mark of Underwriters Laboratories Inc. on the product, or the UL symbol on the product and the Listing Mark on the smallest unit container in which the product is packaged, is the only method to identify products investigated by UL to published requirements and manufactured under UL's Listing and Follow-Up Service.

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