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APPROVAL REPORT

MODEL VK104, VK112, VK162, VK304, VK305, VK307, VK308, VK606 AND VK630 HSW, DRY HSW AND ECLH HSW AUTOMATIC SPRINKLERS WITH NOMINAL DISCHARGE COEFFICIENTS OF 5.6 AND K8.0 GAL/MIN/(PSI)^{1/2} WITH THE MODEL G-1 RECESSED ESCUTCHEON

Prepared for:

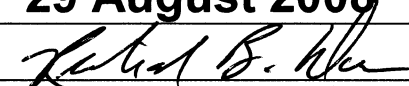
**The Viking Corporation
210 North Industrial Park Road
Hastings, MI 49058**

Project ID: 3032164

Class: 2015

Date of Approval: 29 August 2008

Authorized by:


Richard B. Dunne, Manager-Hydraulics Group

FM Approvals
1151 Boston-Providence Turnpike
P.O. Box 9102
Norwood, MA 02062



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APPROVAL REPORT

SAND CAST FRAME, BULB TYPE, PENDENT AND UPRIGHT, STANDARD AND QUICK RESPONSE AUTOMATIC SPRINKLERS (VARIOUS MODELS) WITH NOMINAL DISCHARGE COEFFICIENTS OF 2.8 AND 5.6 GAL/MIN/(PSI)^{1/2} IN PLAIN BRASS, CHROME, AND POLYESTER COATED FINISHES (MODIFICATION)

Prepared for:

**The Viking Corporation
210 N. Industrial Park Rd.
Hastings, MI 49058**

Project ID: 3020603

Class: 2016

Date of Approval: September 1, 2004

Authorized by:


Roger L. Allard, Assistant Vice President

FM Approvals
1151 Boston-Providence Turnpike
P.O. Box 9102
Norwood, MA 02062



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APPROVAL REPORT

**MODEL VK003, VK102, VK104 AND VK202
WITH 5 MM JOB BULB TYPE STANDARD RESPONSE
AUTOMATIC SPRINKLERS WITH A NOMINAL
DISCHARGE COEFFICIENT OF 2.8, 5.6 AND 8.0
GAL/MIN/(PSI)^{1/2} WITH THE MODEL E-1 ESCUTCHEON**

Prepared for:

**The Viking Corporation
210 N. Industrial Park Road
Hastings, Michigan 49058**

**Project ID. 3005949
Class 2015
Date: 9 August 2002**

FACTORY MUTUAL



Factory Mutual Research Corporation
Hydraulics Laboratory
743A Reynolds Road
West Glocester, Rhode Island 02814
Telephone (401) 567-0590
Fax (401) 567-0599

APPROVAL AGREEMENT

The Agreement is made by and between **Factory Mutual Research Corporation**, (herein called FMRC),
and **The Viking Corporation, Hastings, MI 49058**
(herein called the Client). The Client is making a product or providing a service known and described as:


**VIKING
MODEL M
BULB TYPE
NOMINAL 1/2 IN. ORIFICE HORIZONTAL SIDEWALL AND 3/8 IN.
ORIFICE PENDENT STANDARD RESPONSE AUTOMATIC
SPRINKLERS WITH SCREW MACHINED CUP, UTILIZING A 5mm
BULB
AND
NOMINAL 1/2 IN. ORIFICE VERTICAL SIDEWALL, 17/32 IN. ORIFICE
(1/2 IN. NPT) UPRIGHT AND PENDENT AND 3/8 IN. ORIFICE UPRIGHT
STANDARD RESPONSE AUTOMATIC SPRINKLERS WITH A
BULB IN NOMINAL TEMPERATURE RATINGS OF 135, 155, 175, 200
286 AND 360°F (57, 68, 79, 93, 141 AND 182°C)
(MODIFICATION)**

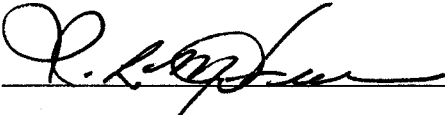
This product or service has been examined by FMRC as described in the report bearing
Job Identification **3000280**, dated **July 15, 1998**

In consideration of FMRC Approval of the product or service the Client is authorized to indicate such approval, as stated by the above report, and agrees to the following and terms stated on the reverse side of this Agreement:

1. The Client shall place a unique identification mark (i.e. model or type number) on the product as stated in the above report and shall not place this mark on any other product unless covered by separate agreement with FMRC.
2. The Client shall use the FMRC Approval mark on the product, but shall not use this mark on any other product unless such other product is covered by separate agreement with FMRC.
3. The client shall not use, reproduce or distribute the above referenced report by FMRC except in its entirety without any change, deletion or addition thereto. The Client agrees that FMRC may distribute the referenced report and related information within the Factory Mutual System.

(See Over)

The Viking Corporation
 _____ Client

 _____ Signature
 Peter Thomas
 _____ Name
 Director, Research & Development
 _____ Title
 210 North Industrial Park Road
 Hastings, MI 49058
 _____ Address
 August 11, 1998
 _____ Date

FACTORY MUTUAL RESEARCH CORPORATION

 _____ Signature
 R.L. Martell
 _____ Name
 Asst. V.P. – Approvals Division
 _____ Title
 July 24, 1998
 _____ Date



Factory Mutual Research

1151 Boston-Providence Turnpike
P.O. Box 688
Norwood, Massachusetts 02062
Telephone (617) 762-4300
Telex 92-4415

APPROVAL AGREEMENT

This Agreement is made by and between Factory Mutual Research Corporation, (herein called Factory Mutual), and The Viking Corporation, Hastings, Michigan 49058 (herein called the Client). The Client is making a product or providing a service known and described as:

MODEL M

BULB TYPE, HORIZONTAL SIDEWALL AUTOMATIC SPRINKLER

BRONZE AND CHROMIUM PLATED

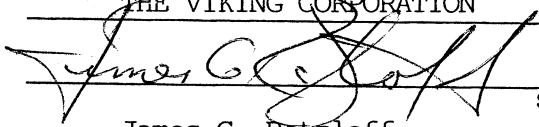
135, 155, 175, 200 286^oF (57, 68, 79, 93, 141^oC)

This product or service has been examined by Factory Mutual as described in the report bearing Job Identification 1F6A8.AH, dated March 6, 1985

In consideration of Factory Mutual Approval of the product or service the Client is authorized to indicate such approval, as stated by the above report, and agrees to the following and terms stated on the reverse side of this Agreement:

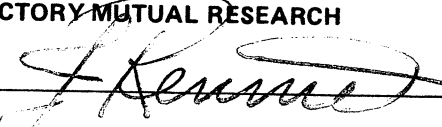
1. The Client shall place a unique identification mark (i.e. model or type number) on the product as stated in the above report and shall not place this mark on any other product unless covered by separate agreement with Factory Mutual.
2. The Client shall use the Factory Mutual approval mark on the product, but shall not use this mark on any other product unless such other product is covered by separate agreement with Factory Mutual.
3. The Client shall not use, reproduce or distribute the above referenced report by Factory Mutual except in its entirety without any change, deletion or addition thereto.

(SEE OVER)

THE VIKING CORPORATION
 _____ Client

 _____ Signature
 James G. Retzloff
 _____ Name
 Vice President, Design & Development
 _____ Title
 210 N. Industrial Park Road, Hastings
 _____ Address
 MI

 March 21, 1985
 _____ Date

FACTORY MUTUAL RESEARCH


 _____ Signature
 J. Rennie
 _____ Name
 Asst. V.P. - Approvals Division
 _____ Title
 March 13, 1985
 _____ Date



Certificate of Compliance

Automatic Control Mode Sprinklers for Fire Protection

This certificate is issued for the following equipment:

Model	K	Type	Resp.	Element	NPT (in.)	Finishes	Temperature Ratings °F (°C)
VK104	5.6	Horizontal Sidewall	SR	5 mm	1/2	Brass, Chrome	135°, 155°, 175°, 200°, 286°F (57°, 68°, 79°, 93°, 141°C)
VK104*	5.6	Recessed Horizontal Sidewall	SR	5 mm	1/2	Brass, Chrome	135°, 155°, 175°, 200°F (57°, 68°, 79°, 93°C)

* With Viking G-1 Escutcheon

Manufactured by: The Viking Corp, 210 N Industrial Park Rd, Hastings, Michigan 49058

Manufacturing Location: The Viking Corp, 210 N Industrial Park Rd, Hastings, Michigan 49058

FM Approvals confirms that the items have been found to comply with the following standard:

FM Approvals Standard 2000 (March 2006)

Project Identifier: 3026351

Date of Approval: May 5, 2009

A handwritten signature in black ink, appearing to read 'Richard B. Dunne', is written over a horizontal line.

Richard B. Dunne
Group Manager - Hydraulics

May 8, 2009
Date



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