

1151 Boston-Providence Turnpike
P.O. Box 9102
Norwood, MA 02062 USA
T: (781) 762-4300 F: (781) 762-9375

APPROVAL AGREEMENT

The Agreement is made by and between Factory Mutual Research Corporation (herein called Factory Mutual Research)

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:

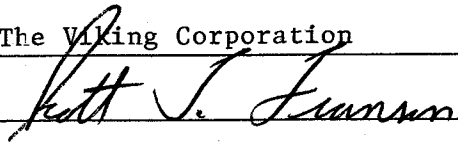
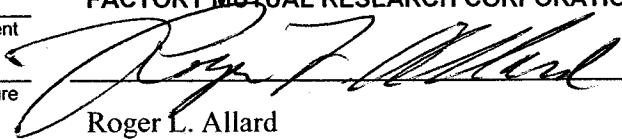
**MODEL VK300, VK302, VK304, VK306, VK325, VK329,
VK350, VK352, VK556, VK566, VK600 AND VK602
BULB TYPE AUTOMATIC SPRINKLERS WITH
NOMINAL DISCHARGE COEFFICIENTS OF 2.8, 5.6
AND 8.0 GAL/MIN/(PSI)^{1/2} WITH ALTERNATE 3 mm
BULB**

This product or service has been examined by Factory Mutual Research as described in a report bearing

Job Identification **3004444**, dated **13 June 2002**.

In consideration of Factory Mutual Research 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 a separate Agreement with Factory Mutual Research.
2. The Client shall use the Factory Mutual Research 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 Research.
3. The Client shall not use, reproduce or distribute the above referenced report by Factory Mutual Research except in its entirety without any change, deletion or addition thereto. The Client agrees that Factory Mutual Research may distribute the referenced report and related information within FM Global. *(See Over)*

The Viking Corporation	FACTORY MUTUAL RESEARCH CORPORATION
	
Client	Signature
Scott T. Franson	Roger L. Allard
Name	Name
Director, Sprinkler Division	Group Manager - Hydraulics
Title	Title
210 N. Industrial Park Rd	June 21, 2002
Hastings MI 49058	Date
Address	Date
July 2, 2002	
Date	

NOT to be distributed outside of FMGlobal except by CUSTOMER.

APPROVAL REPORT

**MODEL VK100, VK102, VK200, VK202, VK300, VK302,
VK350 AND VK352, BULB TYPE
STANDARD AND QUICK RESPONSE
AUTOMATIC SPRINKLERS WITH A NOMINAL
DISCHARGE COEFFICIENT OF 5.6 AND 8.0
GAL/MIN/(PSI)^{1/2} (MODIFICATION)**

Prepared for:

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

**Project ID. 3007385
Class 2016
Date: 13 May 2002**

NOT to be distributed outside of FMGlobal except by CUSTOMER.

APPROVAL REPORT

**MODEL VK200, VK204 AND VK350 CONTROL-MODE
(DENSITY/AREA) UPRIGHT AUTOMATIC SPRINKLERS
WITH A NOMINAL DISCHARGE COEFFICIENT OF 8.0
GAL/MIN/(PSI)^{1/2} IN A POLYESTER COATED FINISH**

Prepared for:

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

**Project ID. 3012769
Class 2001
Date: 7 January 2002**

Factory Mutual Research Corporation
1151 Boston-Providence Turnpike
P.O. Box 9102
Norwood, MA 02062

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APPROVAL AGREEMENT

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(herein called the Client). The Client is making a product or providing a service known and described as:

**MODEL VK300, VK100 AND VK108
 CONTROL-MODE (DENSITY/AREA)
 UPRIGHT AUTOMATIC SPRINKLERS WITH A
 NOMINAL DISCHARGE COEFFICIENT OF
 5.6 GAL/MIN/(PSI)^{1/2} IN A POLYESTER COATED FINISH**

This product or service has been examined by Factory Mutual Research as described in a report bearing

Job Identification **3006951**

dated **March 28, 2001.**

In consideration of Factory Mutual Research 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 a separate Agreement with Factory Mutual Research.
2. The Client shall use the Factory Mutual Research 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 Research.
3. The Client shall not use, reproduce or distribute the above referenced report by Factory Mutual Research except in its entirety without any change, deletion or addition thereto. The Client agrees that Factory Mutual Research may distribute the referenced report and related information within FM Global.

The Viking Corporation
 _____ Client
Scott T. Franson
 _____ Signature
Scott T. Franson
 _____ Name
Director, Sprinkler Division
 _____ Title
210 N. Industrial Park Rd
 _____ Title
Hastings, MI 49058
 _____ Address
May 7, 2001
 _____ Date

FACTORY MUTUAL RESEARCH CORPORATION

R.L. Martell
 _____ Signature
R.L. Martell
 _____ Name
Asst. V.P. – Approvals Division
 _____ Title
4-16-01
 _____ Date

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P.O. Box 9102
Norwood, MA 02062 USA
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APPROVAL AGREEMENT

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(herein called the Client). The Client is making a product or providing a service known and described as:

**MODELS VK100, VK102, VK108, VK110, VK300, VK302, VK550 AND VK556
BULB AND FUSIBLE TYPE
CONTROL-MODEL (DENSITY/AREA)
UPRIGHT, PENDENT, RECESSED PENDENT, AND RACK STORAGE
UPRIGHT
STANDARD AND QUICK RESPONSE
AUTOMATIC SPRINKLERS WITH
A NOMINAL DISCHARGE COEFFICIENT OF 5.6 GAL/MIN/(PSD)^{1/2}
(MODIFICATION)**

This product or service has been examined by Factory Mutual Research as described in a report bearing Job Identification **3008096** dated **October 13, 2000.**

In consideration of Factory Mutual Research 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 a separate Agreement with Factory Mutual Research.
2. The Client shall use the Factory Mutual Research 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 Research.
3. The Client shall not use, reproduce or distribute the above referenced report by Factory Mutual Research except in its entirety without any change, deletion or addition thereto. The Client agrees that Factory Mutual Research may distribute the referenced report and related information within FM Global.

Client
Scott J. Franzen
Signature

Name

Title

Address
November 17, 2000
Date

FACTORY MUTUAL RESEARCH CORPORATION
R.L. Martell
Signature
R.L. Martell
Name
Asst. V.P. – Approvals Division
Title
November 10, 2000
Date



Factory Mutual Research

Hydraulics Laboratory
743A Reynolds Road
West Gloucester, 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, Michigan 49058** (herein called the Client). The Client is making a product or providing a service known and described as:

MODEL M
QUICK RESPONSE BULB TYPE, 17/32 IN. NOMINAL ORIFICE, 3/4 IN. NPT, SAND CAST FRAME, STANDARD UPRIGHT AUTOMATIC SPRINKLERS, FINISHES OF PLAIN BRASS OR CHROMIUM PLATED, TEMPERATURE RATINGS OF 135, 155, 175, 200 AND 286°F (57, 68, 79, 93 AND 141°C)
FOR USE IN AUTOMATIC SPRINKLER FIRE PROTECTION SYSTEMS

This product or service has been examined by FMRC as described in the report bearing Job Identification **OV6A7.AH** dated, **February 2, 1994** in consideration of FMRC Approval of the product or service the Client 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
Peter W. Thomas _____ Signature
 Peter W. Thomas _____ Name
 Director, R & D _____ Title
 210 N. Industrial Park Rd. _____ Title
 Hastings, MI 49058 _____ Address
 March 2, 1994 _____ Date
 _____ Date

FACTORY MUTUAL RESEARCH CORPORATION
 _____ Signature
R. L. Martell _____ Signature
 R. L. Martell _____ Name
 Asst. V.P. - Approvals Division _____ Title
 February 21, 1994 _____ Date
 _____ Date



Factory Mutual Research

Research Laboratory
7564 Reynolds Road
West Gloucester, Rhode Island 02814
Telephone: (401) 567-0500
Fax: (401) 567-4000

APPROVAL AGREEMENT

The Agreement is made by and between Factory Mutual Research Corporation, (herein called FMRC), 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
QUICK RESPONSE BULB TYPE, 1/2 IN. NOMINAL ORIFICE, SAND
CAST FRAME, STANDARD UPRIGHT AUTOMATIC SPRINKLER,
FINISHES OF PLAIN BRASS OR CHROMIUM PLATED
TEMPERATURE RATINGS OF 135, 155, 175, 200 AND 286°F
(57, 68, 79, 93 AND 141°C)
FOR USE IN AUTOMATIC SPRINKLER FIRE PROTECTION SYSTEMS**

This product or service has been examined by FMRC as described in the report bearing Job Identification **OR4A8.AH** dated, **February 2, 1994** In consideration of FMRC Approval of the product or service the Client 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
Peter W. Thomas _____ Signature
 Peter W. Thomas _____ Name
 Director, R & D _____ Title
 210 N. Industrail Park Rd. _____ Title
 Hastings, MI 49058 _____ Address
 March 14, 1994 _____ Date

FACTORY MUTUAL RESEARCH CORPORATION

R. L. Martell _____ Signature
 R. L. Martell _____ Name
 Asst. V.P. - Approvals Division _____ Title
 March 4, 1994 _____ Date