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# APPROVAL REPORT

**MODEL VK532 3MM BULB TYPE ECLH UPRIGHT  
QUICK RESPONSE AUTOMATIC SPRINKLERS WITH A  
NOMINAL DISCHARGE COEFFICIENT OF 11.2  
GAL/MIN/(PSI)<sup>1/2</sup> IN BRASS, CHROME AND  
POLYESTER FINISHES WITH NOMINAL  
TEMPERATURE RATINGS OF 155 AND 175°F (68 AND  
79°C)**

**Prepared for:**

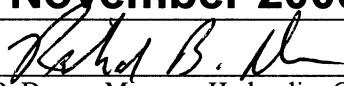
**The Viking Corporation  
210 N. Industrial Park Road  
Hastings, MI 49058  
USA**

**Project ID: 3037192**

**Class: 2022**

**Date of Approval: 23 November 2009**

**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 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 VK530, VK532 AND VK608  
BULB TYPE AUTOMATIC SPRINKLERS WITH A  
NOMINAL DISCHARGE COEFFICIENT OF 11.2  
GAL/MIN/(PSI)<sup>1/2</sup> WITH A MODIFIED FRAME DESIGN**

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

Job Identification **3009334** dated **May 16, 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  
\_\_\_\_\_  
Address  
Hastings MI 49058  
\_\_\_\_\_  
Date  
June 28, 2001  
\_\_\_\_\_  
Date

**FACTORY MUTUAL RESEARCH CORPORATION**  
\_\_\_\_\_  
Signature  
*R.L. Martell*  
\_\_\_\_\_  
Name  
Asst. V.P. – Approvals Division  
\_\_\_\_\_  
Title  
6-5-01  
\_\_\_\_\_  
Date

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Norwood, MA 02062 USA  
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(herein called the Client). The Client is making a product or providing a service known and described as:

**MODEL VK532  
3 MM BULB TYPE  
ECOH ELO CONTROL-MODE  
(SPECIFIC APPLICATION)  
UPRIGHT, STANDARD RESPONSE  
AUTOMATIC SPRINKLERS WITH A NOMINAL  
DISCHARGE COEFFICIENT OF 11.2 GAL/MIN/(PSI)<sup>1/2</sup>  
IN BRASS, CHROME AND PAINTED FINISHES  
IN A NOMINAL TEMPERATURE RATING  
OF 200°F (93°C)**

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

Job Identification **3010783**

dated **April 30, 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.
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The Viking Corporation Client  
*Scott T. Franson* Signature  
Scott T. Franson Name  
Director, Sprinkler Division  
210 N. Industrial Park Rd Title  
Hastings, MI 49058 Address  
May 23, 2001 Date

**FACTORY MUTUAL RESEARCH CORPORATION**  
*R.L. Martell* Signature  
R.L. Martell Name  
Asst. V.P. - Approvals Division Title  
5-10-01 Date

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P.O. Box 9102  
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(herein called the Client). The Client is making a product or providing a service known and described as:

**MODEL VK532  
3 MM BULB TYPE  
ECOH ELO CONTROL-MODE  
(SPECIFIC APPLICATION)  
UPRIGHT, STANDARD RESPONSE  
AUTOMATIC SPRINKLERS WITH A NOMINAL  
DISCHARGE COEFFICIENT OF 11.2 GAL/MIN/(PSI)<sup>1/2</sup>  
IN BRASS, CHROME AND PAINTED FINISHES  
IN NOMINAL TEMPERATURE RATINGS OF 155, 175,  
AND 286°F (68, 79 AND 141°C)**

This product or service has been examined by Factory Mutual Research as described in a report bearing Job Identification **3006879** dated **April 12, 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.
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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  
 \_\_\_\_\_  
 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  
 4-17-01  
 \_\_\_\_\_ Date