

BRE Certification Limited and LPCB

Bucknalls Lane, Garston, Watford, Hertfordshire, WD25 9XX
Telephone: 01923 664100 Fax: 01923 664603 E-mail: enquiries@bre-certification.co.uk Web: www.bre-certification.co.uk

EC-CERTIFICATE OF CONFORMITY

0832 - CPD - 2032

In compliance with the Directive 89/106/EEC of the Council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to the construction products (Construction Products Directive - CPD), amended by the Directive 93/68/EEC of the Council of European Communities of 22 July 1993, it has been stated that the construction product

"Mirage" VK462 Concealed Pendant Sprinkler

(For full product details and conditions of use refer to appendix)

placed on the market by

The Viking Corporation

and produced in the factory

210 N Industrial Park, Hastings, Michigan 49058, USA

is submitted by the manufacturer to a factory production control and that the notified body BRE Certification Limited has performed the initial type-testing for the relevant characteristics of the product, the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of the factory production control.

This certificate attests that all provisions concerning the attestation of conformity (Level 1) and the performances described in Annex ZA of the standard

BS EN 12259-1:1999 A3:2006

were applied and that the product fulfils all the prescribed requirements.

This certificate was first issued on 16/October/2007 and remains valid as long as the conditions laid down in the harmonised technical specification in reference or the manufacturing conditions in the factory or the FPC itself are not modified significantly and the required annual FPC assessments are maintained.



B W Lywood
Scheme Manager
On behalf of BRE Certification Limited

Date of issue: 16/10/2007

Issue number: 02

This certificate remains the property of BRE Certification Ltd and is issued subject to terms and conditions and is maintained and held in force through regular Factory Production Control audits.
To check the authenticity of this certificate, please visit our website or contact us.

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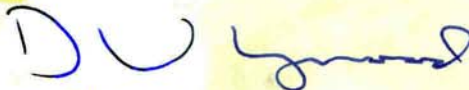
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Appendix to EC-Certificate of Conformity 0832 - CPD - 2032

Conditions of Use

The Sprinkler Heads covered by this Certificate of Conformity placed on the market by The Viking Corporation are identified below and must be installed in accordance with the manufacturers installation instructions:

Sprinkler Identification Number	Model	Size (mm)	Orientation	Nominal operating temperature (°C)	Finish	Response class	Nominal K-factor (l.min ⁻¹ .bar ^{1/2})
VK462	Mirage	15	CCP	68° Sprinkler with 59° ceiling plate (3 mm bulb)	Polished Chrome & Painted White	N/A	80
VK462	Mirage	15	CCP	79° Sprinkler with 74° ceiling plate (3 mm bulb)	Polished Chrome & Painted White	N/A	80
VK462	Mirage	15	CCP	93° Sprinkler with 74° ceiling plate (3 mm bulb)	Polished Chrome & Painted White	N/A	80

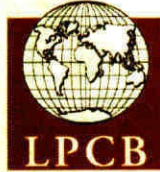


B W Lywood
Scheme Manager
On behalf of BRE Certification Limited

Date of issue: 16/10/2007

Issue number: 02

Loss Prevention Certification Board



This is to certify

THE VIKING CORPORATION

210 N Industrial Park, Hastings, Michigan 49058, USA

is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix.

Viking Sprinkler Heads
(refer to attached appendix for details)

which have complied with the requirements of the following:

LPS 1039 and EN12259-1:1999

Certificate No. 096e

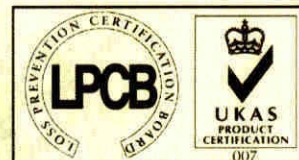
Issue No. 3

Date of Issue 9 July 2007

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Signed on behalf of the LPCB

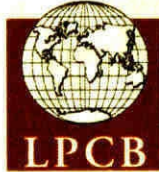
B W Lywood



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APPENDIX TO CERTIFICATE NO. 096e

THE VIKING CORPORATION

Certificated to LPS 1039 or EN12259-1:1999. (See footnotes for details of amendment status A1:2001, A2:2004 and A3:2006)

Product Name	Nominal Orifice size (mm)	Type	Temperature rating (°C)	LPCB Ref. No.
Viking H	15	SF	74° 104°	096e/01
† Viking M Microfast (1), (2), (6), (15)	20	SU	57°68°79°141°(quick response)	096e/03
† Viking M Microfast (1), (2),(6)	20	SP	57°68°79°141°(quick response)	
† Viking F-1 Microfast (3)	20	CU/P	57°68°79°141°(quick response)	
Viking Model VK407 (4),(5)	15	SR	57°68°79°93°141°(recessed and adjustable)	096e/04
† Viking M (6),(7)	15	SK	72° sprinkler with 72° ceiling plate	096e/05
	10	SU	57°68°79°93°141°182°(5mm bulb)	096e/06
	10	SP	57°68°79°93°141°182°(5mm bulb)	
	15	CU/P	57°68°79°93°141°182°(5mm bulb)	
	15	SU	57°68°79°93°141°182°(5mm bulb)	
	15	SP	57°68°79°93°141°182°(5mm bulb)	
	15	WH	57°68°79°93°141°182°(5mm bulb)	
	20	CU/P	57°68°79°93°141°182°(5mm bulb)	
	20	SU	57°68°79°93°141°182°(5mm bulb)	
	20	SP	57°68°79°93°141°182°(5mm bulb)	
† Viking M (8)	15	SDP	57°68°79°93°(adjustable recessed) (5mm bulb)	
† Viking M (9)	15	SDP	57°68°79°93°141°(adjustable standard) (5mm bulb)	
† Viking M (10)	15	SDP	57°68°79°93°141°(plain barrel) (5mm bulb)	
Viking S-1ESFR(13) (18)	20	SP	74°	096e/07
Viking Horizon Model H(1) (11),(12)	15	SF	74° (quick response)	096e/08
† Viking M/E-1 (3), (14)	15	SR	57°, 68°, 79°, 93° (5mm bulb)	096e/06
	20	SR	57°, 68°, 79°, 93° (5mm bulb)	
Viking VK130 (16) (17)	15	SU	68°, 79°, 93°, 141°, 182° (5mm bulb)	096e/09
Viking VK132 (16) (17)	15	SP	68°, 79°, 93°, 141°, 182° (5mm bulb)	

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Signed on behalf of the LPCB

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Loss Prevention Certification Board



APPENDIX TO CERTIFICATE NO. 096e

THE VIKING CORPORATION

Product Name	Nominal Orifice size (mm)	Type	Temperature rating (°C)	LPCB Ref. No.
Viking Horizon VK402	15	SF	74° (quick response)	096e/10
Viking Horizon Mirage VK404	15	SCCP	74 °	096e/11
Viking Horizon Mirage VK408	15	WHSCC	74 °	
Viking Mirage Concealed VK462 (19), (20)	15	CCP	79° Sprinkler with 74° ceiling plate (3 mm bulb)	096e/12
			93° Sprinkler with 74° ceiling plate (3 mm bulb)	

Notes:

- 1) The suitability of 'quick response' sprinklers for many risks is not yet proven. Use is therefore limited to where the purchaser, authority having jurisdiction and/or insurers consent to its use. Quick response sprinklers must be handled with care due to the fragile nature of the operating element, with packaging and instructions being marked accordingly.
- 2) Approved with plain and chrome finishes.
- 3) Approved with brass, chrome or coloured recessing cup.
- 4) Approved with chrome, bright brass and painted finish coverplates.
- 5) Not to be installed in ceilings with a positive pressure in the void above.
- 6) Approved with chrome, polished brass and coloured finishes.
- 7) The "57°, 68°, 79° and 93° heads are approved with wax finishes.
- 8) Approved with chrome and white finishes.
- 9) Approved with chrome finish.
- 10) Approved with chrome and brass finishes.
- 11) Every five years, all sprinklers should be visually examined and representative samples removed and tested to the requirements of the authority and/or insurer
- 12) Approved with polished chrome and white polyester finishes.
- 13) This ESFR sprinkler has a k-factor of 200 l.min⁻¹.bar^{-½} (US k-factor of 14 gal.min⁻¹.psi^{-½})
- 14) Approved with recessed and adjustable escutcheon.
- 15) 141° head only approved when fitted with Job bulbs.
- 16) The VK130 & 132 sprinklers are stainless steel
- 17) Certificated to EN12259:1999 including amendment A1:2001
- 18) Certificated to the relevant clauses of EN12259:1999 and LPS1039
- 19) Certificated to EN12259-1:1999 A3:2006
- 20) Approved with Polished Chrome and Painted White finished coverplates

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