



Maritime and Coastguard Agency

EC TYPE EXAMINATION (Module B) CERTIFICATE
MARINE EQUIPMENT DIRECTIVE
Certificate No.: 0832-MED-1003

This is to certify that the Loss Prevention Certification Board, as specified as a "notified body" under the terms of the Statutory Instrument 1999 No. 1957 The Merchant Shipping (Marine Equipment) Regulations 1999, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Fire protection of Marine Equipment Directive (MED) 96/98/EC as modified by Directive 98/85/EC subject to any conditions in the annex attached hereto.

**Manufacturer/
Applicant :** The Viking Corporation
210 N Industrial Park Road
Hastings
Michigan 49058
USA

**Product Description/
Identification :** See attached annex

Annex A.1 Item designation : A.1/3.28 – Sprinkler systems (limited to sprinkler heads and to the method of automatic sprinkling and signalling e.g. flow switches, alarm panels).

Specified Standard : EN 12259-1:1999 including amendment A1:2001

The examination encompassed the modules of conformity assessment of Annex B, EC Type Examination (Module B).

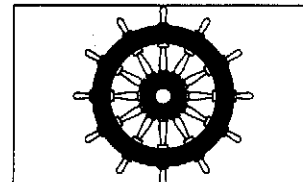
This Certificate is issued under the authority of the MCA under the terms stated above and remains valid for a period up to but not exceeding 5 years unless cancelled or revoked, providing the conditions in the attached annex are complied with and the equipment remains satisfactory in service.

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with LPCB.

Subject to compliance with the conditions in the attached annex, which forms part of this certificate, and those articles 10.1(i) and 11 of the Directive, the Manufacturer is allowed to affix the 'Mark of Conformity' to the product described herein. This certificate on its own, does not entitle the manufacturer to place the EU mark of conformity (wheelmark) and notified body number on the product, unless conformity assessment module D or E or F have been carried out in addition to Module B.

Signed on behalf of the LPCB

T Baker
Certification Scheme Manager



Issue date: 3 November 2005
First issued: 20 July 2004

Issue: 2
Valid Until: 2 November 2010

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Maritime and Coastguard Agency

**Annex to
EC TYPE EXAMINATION (Module B) CERTIFICATE
Certificate No.: 0832-MED-1003
SCHEDULE OF APPROVAL**

Product Description							
Sprinkler Identification Number	Model	Size	Orientation	Nominal operating temperature (°C)	Finish	Response class	K-factor (l.min ⁻¹ .bar ^{1/2})
N/A	F-1	15	RP	68, 79, 93 & 141	Plain (1)	Quick	80
VK302	M Microfast	15	SP	68, 79, 93 & 141	Plain, Chrome, Brass, Coloured	Quick	80
VK310	M Microfast	15	CU/P	68, 79, 93 & 141	Plain, Chrome, Brass, Coloured	Quick	80
VK345	M Microfast	15	SU	68, 79, 93 & 141	Plain, Chrome, Brass, Coloured	Quick	80
VK401	H	15	FP	74, 104	Plain	* Standard	80
VK407	B-1	15	CCP	72	Plain (2)	Not rated	80
VK413	H	15	FP	74	Plain	Quick	80
VK002	M	10	SU	68, 79, 93, 141 & 182	Plain, Chrome, Brass, Coloured	Standard	57
VK004	M	10	SP	68, 79, 93, 141 & 182	Plain, Chrome, Brass, Coloured	Standard	57
VK102	M	15	SP	68, 79, 93, 141 & 182	Plain, Chrome, Brass, Coloured	Standard	80
VK104	M	15	WH	68, 79, 93, 141 & 182	Plain, Chrome, Brass, Coloured	Standard	80
VK118	M	15	CU/P	68, 79, 93, 141 & 182	Plain, Chrome, Brass, Coloured	Standard	80
VK120	M	20	CU/P	68, 79, 93, 141 & 182	Plain, Chrome, Brass	Standard	115
VK145	M	15	SU	68, 79, 93, 141 & 182	Plain, Chrome, Brass, Coloured	Standard	80
VK151	M	15	DP (Plain)	68, 79, 93 & 141	Plain, Chrome, Brass	Standard	80
VK155	M	15	DP (Adjustable)	68, 79, 93 & 141	Plain, Chrome	Standard	80
VK159	M	15	RDP (Recessed)	68, 79 & 93	Plain, Chrome, White	Standard	80
VK200	M	20	SU	68, 79, 93, 141 & 182	Plain, Chrome, Brass	Standard	115
VK202	M	20	SP	68, 79, 93, 141 & 182	Plain, Chrome, Brass	Standard	115
N/A	M/E-1	15	SR	68, 79, 93	Plain (1)	Standard	80
N/A	M/E-1	20	SR	68, 79, 93	Plain (1)	Standard	115

Note 1: These sprinklers are certified with a brass, chrome and coloured recessing cup.

Note 2: These sprinklers are certified with a brass, chrome and coloured cover plate.

Testing/ Assessment	Tested according to EN12259-1:1999 +A1 including amendment A1:2001. The technical documentation in support of this certificate is located within LPCB project files 217538 & 218195.
Applications /Limitations	<p>These products must be installed in accordance with the manufacturers installation instructions.</p> <p>This Certificate does not apply to equipment which has been varied or modified from the systems tested. The manufacturer must submit modified equipment for consideration by this Agency prior to any modifications being made to equipment supplied to market..</p> <p>This certificate does not entitle the manufacturer to place the EU mark of conformity (Wheel mark) and Notified body number on the product, unless conformity assessment module D or E or F have been carried out in addition to Module B.</p>

Signed on behalf of the LPCB
T Baker
Certification Scheme Manager

Issue date: 3 November 2005
First issued: 20 July 2004

Issue: 2
Valid Until: 2 November 2010



Maritime and Coastguard Agency

EC PRODUCTION-QUALITY ASSURANCE (Module D) CERTIFICATE
MARINE EQUIPMENT DIRECTIVE
Certificate No.: 0832-MED-1004

This is to certify that the Loss Prevention Certification Board, as specified as a "notified body" under the terms of the Statutory Instrument 1999 No. 1957 The Merchant Shipping (Marine Equipment) Regulations 1999, did undertake the relevant quality assessment procedures for the equipment identified below which was found to be in compliance with the Fire protection of Marine Equipment Directive (MED) 96/98/EC as amended by Directive 2002/84/EC subject to any conditions in the annex attached hereto.

Manufacturer/ Applicant : The Viking Corporation
210 N Industrial Park Road
Hastings
Michigan
49058
USA

Scope of certificate:

A.1/3.28 – Sprinkler systems (limited to sprinkler heads and to the methods of automatic sprinkling and signalling e.g. flow switches and alarm panels)
See attached annex.

The examination encompassed the modules of conformity assessment of Annex B, Production quality assurance (Module D) .

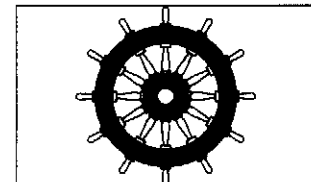
This Certificate is issued under the authority of the MCA under the terms stated above and remains valid for a period up to but not exceeding 5 years unless cancelled or revoked, providing the conditions in the attached annex are complied with.

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment or quality management system, which have not been notified to, and agreed with LPCB.

Subject to compliance with the conditions in the attached annex, which forms part of this certificate, and those articles 10.1(i) and 11 of the Directive, this certificate, in conjunction with the EC type examination (Module B) certificate detailed in the attached annex, authorises the manufacturer of the equipment listed to affix the mark of conformity (wheelmark) as detailed in the annex.

Signed on behalf of the LPCB

T Baker
Certification Scheme Manager



Issue date: 3 November 2005
First issued: 20 July 2004

Issue : 2
Valid Until: 19 July 2009

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Maritime and Coastguard Agency

**ANNEX TO
EC PRODUCTION-QUALITY ASSURANCE (Module D) CERTIFICATE
No. 0832-MED-1004**

Item		Module B type examination data		
A.1/3.28	Sprinkler systems (limited to sprinkler heads and to the methods of automatic sprinkling and signalling e.g. flow switches and alarm panels)	<u>Number:</u> 0832-MED-1003 issue 2	<u>Date:</u> 3 November 2005	<u>Notified Body:</u> LPCB No. 0832
<u>Description:</u> Sprinkler models F-1, M Microfast, M, B-1, H and M/E-1.				

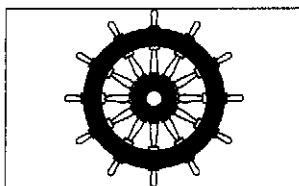
Places of production: (if different from client or where there are several)

As Manufacturer/Applicant.

Restrictions:

See Module B type examination certificate.

Example of mark of conformity



0832/xx

Notes;

- 0832 – LPCB Notified Body identification No.
- /xx – indicates last two digits of year in which marking is applied.

Signed on behalf of the LPCB

T Baker
Certification Scheme Manager

Issue date: 3 November 2005
First issued: 20 July 2004

Issue : 2
Valid Until: 19 July 2009



Maritime and Coastguard Agency

EC TYPE EXAMINATION (Module B) CERTIFICATE
MARINE EQUIPMENT DIRECTIVE
Certificate No.: 0832-MED-1008

This is to certify that the Loss Prevention Certification Board, as specified as a "notified body" under the terms of the Statutory Instrument 1999 No. 1957 The Merchant Shipping (Marine Equipment) Regulations 1999, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Fire protection of Marine Equipment Directive (MED) 96/98/EC as modified by Directive 98/85/EC subject to any conditions in the annex attached hereto.

**Manufacturer/
Applicant :** Viking S.A.
Zone Industrielle Haneboesch,
L-4562 Differdange / Niedercorn
Luxembourg

**Product Description/
Identification :** See attached annex

Annex A.1 Item designation : A.1/3.28 – Sprinkler systems (limited to sprinkler heads and to the method of automatic sprinkling and signalling e.g. flow switches, alarm panels).

Specified Standard : EN 12259-1:1999 including amendment A1:2001

The examination encompassed the modules of conformity assessment of Annex B, EC Type Examination (Module B).

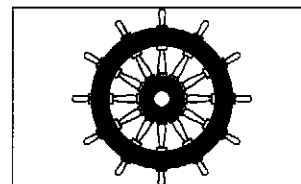
This Certificate is issued under the authority of the MCA under the terms stated above and remains valid for a period up to but not exceeding 5 years unless cancelled or revoked, providing the conditions in the attached annex are complied with and the equipment remains satisfactory in service.

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with LPCB.

Subject to compliance with the conditions in the attached annex, which forms part of this certificate, and those articles 10.1(i) and 11 of the Directive, the Manufacturer is allowed to affix the 'Mark of Conformity' to the product described herein. This certificate on its own, does not entitle the manufacturer to place the EU mark of conformity (wheelmark) and notified body number on the product, unless conformity assessment module D or E or F have been carried out in addition to Module B.

Signed on behalf of the LPCB

T Baker
Certification Scheme Manager



Issue date: 3 November 2005
First issued: 3 November 2005

Issue : 1
Valid Until: 2 November 2010

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Maritime and Coastguard Agency

**Annex to
EC TYPE EXAMINATION (Module B) CERTIFICATE
Certificate No.: 0832-MED-1008
SCHEDULE OF APPROVAL**

Product Description							
Sprinkler Identification Number	Model	Size	Orientation	Nominal operating temperature (°C)	Finish	Response class	K-factor (l.min ⁻¹ .bar ^{1/2})
N/A	F-1	15	RP	68, 79, 93 & 141	Plain (1)	Quick	80
VK302	M Microfast	15	SP	68, 79, 93 & 141	Plain, Chrome, Brass, Coloured	Quick	80
VK310	M Microfast	15	CU/P	68, 79, 93 & 141	Plain, Chrome, Brass, Coloured	Quick	80
VK345	M Microfast	15	SU	68, 79, 93 & 141	Plain, Chrome, Brass, Coloured	Quick	80
VK002	M	10	SU	68, 79, 93, 141 & 182	Plain, Chrome, Brass, Coloured	* Standard	57
VK004	M	10	SP	68, 79, 93, 141 & 182	Plain, Chrome, Brass, Coloured	Standard	57
VK102	M	15	SP	68, 79, 93, 141 & 182	Plain, Chrome, Brass, Coloured	Standard	80
VK104	M	15	WH	68, 79, 93, 141 & 182	Plain, Chrome, Brass, Coloured	Standard	80
VK118	M	15	CU/P	68, 79, 93, 141 & 182	Plain, Chrome, Brass, Coloured	Standard	80
VK120	M	20	CU/P	68, 79, 93, 141 & 182	Plain, Chrome, Brass	Standard	115
VK145	M	15	SU	68, 79, 93, 141 & 182	Plain, Chrome, Brass, Coloured	Standard	80
VK200	M	20	SU	68, 79, 93, 141 & 182	Plain, Chrome, Brass	Standard	115
VK202	M	20	SP	68, 79, 93, 141 & 182	Plain, Chrome, Brass	Standard	115
N/A	M/E-1	15	SR	68, 79, 93	Plain (1)	Standard	80
N/A	M/E-1	20	SR	68, 79, 93	Plain (1)	Standard	115

Note 1: These sprinklers are certified with a brass, chrome and coloured recessing cup.
Note 2: These sprinklers are certified with a brass, chrome and coloured cover plate.

Testing/Assessment	Tested according to EN12259-1:1999 +A1 including amendment A1:2001. The technical documentation in support of this certificate is located within LPCB project files 217538 & 218195.
Applications/Limitations	<p>These products must be installed in accordance with the manufacturers installation instructions.</p> <p>This Certificate does not apply to equipment which has been varied or modified from the systems tested. The manufacturer must submit modified equipment for consideration by this Agency prior to any modifications being made to equipment supplied to market..</p> <p>This certificate does not entitle the manufacturer to place the EU mark of conformity (Wheel mark) and Notified body number on the product, unless conformity assessment module D or E or F have been carried out in addition to Module B.</p>

Signed on behalf of the LPCB

T Baker
Certification Scheme Manager

Issue date: 3 November 2005
First issued: 3 November 2005

Issue : 1
Valid Until: 2 November 2010



Maritime and Coastguard Agency

EC PRODUCTION-QUALITY ASSURANCE (Module D) CERTIFICATE
MARINE EQUIPMENT DIRECTIVE
Certificate No.: 0832-MED-1007

This is to certify that the Loss Prevention Certification Board, as specified as a "notified body" under the terms of the Statutory Instrument 1999 No. 1957 The Merchant Shipping (Marine Equipment) Regulations 1999, did undertake the relevant quality assessment procedures for the equipment identified below which was found to be in compliance with the Fire protection of Marine Equipment Directive (MED) 96/98/EC as amended by Directive 2002/84/EC subject to any conditions in the annex attached hereto.

Manufacturer/ Viking S.A.
Applicant : Zone Industrielle Haneboesch,
L-4562 Differdange / Niedercorn
Luxembourg

Scope of certificate:

A.1/3.28 – Sprinkler systems (limited to sprinkler heads and to the methods of automatic sprinkling and signalling e.g. flow switches and alarm panels)
See attached annex.

The examination encompassed the modules of conformity assessment of Annex B, Production quality assurance (Module D).

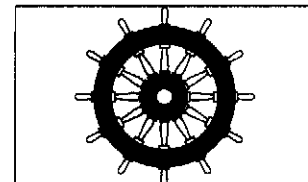
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Subject to compliance with the conditions in the attached annex, which forms part of this certificate, and those articles 10.1(i) and 11 of the Directive, this certificate, in conjunction with the EC type examination (Module B) certificate detailed in the attached annex, authorises the manufacturer of the equipment listed to affix the mark of conformity (wheelmark) as detailed in the annex.

Signed on behalf of the LPCB

T Baker
Certification Scheme Manager



Issue date: 3 November 2005
First issued: 3 November 2005

Issue : 1
Valid Until: 2 November 2010

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Maritime and Coastguard Agency

**ANNEX TO
EC PRODUCTION-QUALITY ASSURANCE (Module D) CERTIFICATE
No. 0832-MED-1007**

Item		Module B type examination data		
A.1/3.28	Sprinkler systems (limited to sprinkler heads and to the methods of automatic sprinkling and signalling e.g. flow switches and alarm panels)	<u>Number:</u> 0832-MED-1008 issue 1	<u>Date:</u> 3 November 2005	<u>Notified Body:</u> LPCB No. 0832
<u>Description:</u> Sprinkler models F-1, M Microfast, M and M/E-1.				

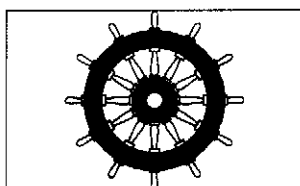
Places of production: (if different from client or where there are several)

As Manufacturer/Applicant.

Restrictions:

See Module B type examination certificate.

Example of mark of conformity



0832/xx

Notes;

1. 0832 – LPCB Notified Body identification No.
2. /xx – indicates last two digits of year in which marking is applied.

Signed on behalf of the LPCB

T Baker
Certification Scheme Manager

Issue date: 3 November 2005
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