

Certificate of Product Approval

Certificate Number: 1287a

Issue: 02

Fire Eater A/S

Vølundsvej 17
3400 Hillerød
Denmark

is certified by BRE Global Ltd. and is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirement(s) of the standards as detailed below:

Products

Gaseous Extinguishing System Components
(refer to attached appendix for details)

Standards

EN 12094
Fixed firefighting systems. Components for gas extinguishing systems.

This certificate and appendix is maintained and held in force through regular surveillance activities

RE Brown

Signed for BRE Global Ltd.

Robert Brown

Verifier

27 August 2021

Date of Issue

25 March 2015

Date of First Issue



This certificate and appendix remains the property of BRE Global Ltd. and is issued subject to terms and conditions (for details visit www.redbooklive.com/terms).

To check the validity of this certificate and appendix please visit www.redbooklive.com/check, scan the QR tag or contact us.

BRE Global Ltd, Watford, WD25 9XX

T: +44 (0)333 321 8811 E: enquiries@breglobal.com

LPCB is a Registered Trademark of the Building Research Establishment Ltd.



bre

Appendix to Certificate No: 1287a Fire Eater A/S

Issue: 02

Fire Eater 200 bar and 300 bar Inert Fixed Fire Fighting Components

Notes:

1. This range of equipment is suitable for storage and environmental conditions from -20°C to +65°C and is approved for use with INERGEN (IG541).
2. Nominal system pressure is specified as 200 bar and 300 bar at 15°C.

Fire Eater Containers and Hand Wheel Valve Assemblies for INERGEN (200 bar) and (300 bar)

| Product | Description | Hand Wheel Valve Outlet Thread | LPCB Ref. No. |
|---------|------------------------------|--------------------------------|---------------|
| 200604 | 20 litre cylinder (200 bar) | W24.32 x 1¼ | 1287a/01 |
| 200606 | 30 litre cylinder (200 bar) | W24.32 x 1¼ | |
| 200610 | 50 litre cylinder (200 bar) | W24.32 x 1¼ | |
| 200616 | 80 litre cylinder (200 bar) | W24.32 x 1¼ | |
| 200609 | 30 litre cylinder (300 bar) | M25 x 1.5 | |
| 200615 | 50 litre cylinder (300 bar) | M25 x 1.5 | |
| 200624 | 80 litre cylinder (300 bar) | M25 x 1.5 | |
| 200642 | 140 litre cylinder (300 bar) | M25 x 1.5 | |

Fire Eater Discharge Valves

| Product | Description | LPCB Ref. No. |
|---------|---|---------------|
| 305421 | Ci IV8 container valve (200 bar) | 1287a/02 |
| 305411 | Ci IV8 container valve (300 bar) | |
| 305410 | Ci IV8 container valve (300 bar) + Manoswitch | 1287a/03 |

This certificate and appendix is maintained and held in force through regular surveillance activities

RE Brown

Signed for BRE Global Ltd.

Robert Brown

Verifier

27 August 2021

Date of Issue

25 March 2015

Date of First Issue



This certificate and appendix remains the property of BRE Global Ltd. and is issued subject to terms and conditions (for details visit www.redbooklive.com/terms).

To check the validity of this certificate and appendix please visit www.redbooklive.com/check, scan the QR tag or contact us.

BRE Global Ltd, Watford, WD25 9XX
T: +44 (0)333 321 8811 E: enquiries@breglobal.com

LPCB is a Registered Trademark of the Building Research Establishment Ltd.



bre

Appendix to Certificate No: 1287a Fire Eater A/S

Issue: 02

Note:

The above discharge valves may be actuated by any of the actuators listed below or by built-in pneumatic actuator via pilot or manifold back-pressure.

Fire Eater Discharge Valve Actuators

| Product | Description | LPCB Ref. No. |
|---------|--------------------------------------|---------------|
| 305450 | Ci IS8B solenoid actuator | 1287a/04 |
| 305451 | Ci IS8B solenoid and manual actuator | |
| 305442 | Ci IM8 manual actuator | |
| 305448 | Ci PA8 pneumatic actuator | |

Fire Eater Pressure Gauge and Switch

| Product | Description | LPCB Ref. No. |
|---------|----------------------|---------------|
| 305374 | Manoswitch 0-431 bar | 1287a/05 |

Fire Eater Connectors

| Product | Description | LPCB Ref. No. |
|---------|--|---------------|
| 303302 | Ci DN10 discharge hose with straight ends, 0.5 m | 1287a/06 |
| 303304 | Ci DN10 discharge hose with straight ends, 1 m | |
| 303306 | Ci DN10 discharge hose with straight ends, 1.5 m | |
| 303308 | Ci DN10 discharge hose with straight ends, 2 m | |
| 303309 | Ci DN10 discharge hose with straight ends, 2.5 m | |

This certificate and appendix is maintained and held in force through regular surveillance activities

RE Brown

Signed for BRE Global Ltd.

Robert Brown
Verifier

27 August 2021
Date of Issue

25 March 2015
Date of First Issue



This certificate and appendix remains the property of BRE Global Ltd. and is issued subject to terms and conditions (for details visit www.redbooklive.com/terms).

To check the validity of this certificate and appendix please visit www.redbooklive.com/check, scan the QR tag or contact us.

BRE Global Ltd, Watford, WD25 9XX
T: +44 (0)333 321 8811 E: enquiries@breglobal.com

LPCB is a Registered Trademark of the Building Research Establishment Ltd.



bre

Appendix to Certificate No: 1287a Fire Eater A/S

Issue: 02

| Product | Description | LPCB Ref. No. |
|---------|---|---------------|
| 303311 | Ci DN10 discharge hose with straight ends, 3 m | 1287a/06 |
| 303313 | Ci DN10 discharge hose with straight ends, 4 m | |
| 303104 | Ci DN10 discharge hose with 90° elbow one end, 1 m | |
| 303106 | Ci DN10 discharge hose with 90° elbow one end, 1.5 m | |
| 303108 | Ci DN10 discharge hose with 90° elbow one end, 2 m | |
| 303109 | Ci DN10 discharge hose with 90° elbow one end, 2.5 m | |
| 303111 | Ci DN10 discharge hose with 90° elbow one end, 3 m | |
| 303113 | Ci DN10 discharge hose with 90° elbow one end, 4 m | |
| 303162 | Ci DN6 pilot hose PA1 with straight ends, 0.18 m | 1287a/07 |
| 303166 | Ci DN6 pilot hose PA1 with straight ends, 0.22 m | |
| 303169 | Ci DN6 pilot hose PA1 with straight ends, 0.25 m | |
| 303172 | Ci DN6 pilot hose PA1 with straight ends, 0.28 m | |
| 303174 | Ci DN6 pilot hose PA1 with straight ends, 0.33 m | |
| 303180 | Ci DN6 pilot hose PA1 with straight ends, 0.5 m | |
| 205064 | Ci DN6 pilot hose PA1 with straight ends, 0.4 m | |
| 205063 | Ci DN6 pilot hose PA1 with straight ends, 1.0 m | |
| 303182 | Ci DN6 pilot hose PA2 with 90° elbow one end, 1 m | |
| 303183 | Ci DN6 pilot hose PA2 with 90° elbow one end, 3 m | |
| 303184 | Ci DN6 pilot hose PA2 with 90° elbow one end, 0.4 m | |
| 303155 | Ci DN6 pilot hose PA3 with 90° elbow each end, 0.35 m | |
| 303156 | Ci DN6 pilot hose PA3 with 90° elbow each end, 0.45 m | |

This certificate and appendix is maintained and held in force through regular surveillance activities

RE Brown

Signed for BRE Global Ltd.

Robert Brown

Verifier

27 August 2021

Date of Issue

25 March 2015

Date of First Issue



This certificate and appendix remains the property of BRE Global Ltd. and is issued subject to terms and conditions (for details visit www.redbooklive.com/terms).

To check the validity of this certificate and appendix please visit www.redbooklive.com/check, scan the QR tag or contact us.

BRE Global Ltd, Watford, WD25 9XX
T: +44 (0)333 321 8811 E: enquiries@breglobal.com

LPCB is a Registered Trademark of the Building Research Establishment Ltd.



bre

Appendix to Certificate No: 1287a Fire Eater A/S

Issue: 02

Fire Eater Manifold and Check Valve / Non Return Valve Assemblies

| Product | Description | LPCB Ref. No. |
|---------|---------------------------------|---------------|
| 3057xx | Ci MT manifold assembly | 1287a/08 |
| 305302 | DN6 pilot line non-return valve | |

Notes:

1. xx = number of discharge connectors up to a maximum of 10. Each connection is fitted with an integral check valve device.
2. n = number of discharge connectors up to a maximum of 8. Each connection is fitted with an integral non-return valve device.

Fire Eater Nozzles

| Product | Description | LPCB Ref. No. |
|---------|--|---------------|
| 210203 | DN15 360° nozzle (1-3mm DN orifices) (1) | 1287a/09 |
| 210204 | DN15 360° nozzle (1) | |
| 210206 | DN20 360° nozzle (1) | |
| 210208 | DN25 360° nozzle (1) | |
| 210210 | DN32 360° nozzle (1) | |
| 210223 | DN15 360° nozzle (1-3mm DN orifices) (2) | |
| 210224 | DN15 360° nozzle (2) | |
| 210226 | DN20 360° nozzle (2) | |
| 210228 | DN25 360° nozzle (2) | |
| 210230 | DN32 360° nozzle (2) | |

This certificate and appendix is maintained and held in force through regular surveillance activities

RE Brown

Signed for BRE Global Ltd.

Robert Brown
Verifier

27 August 2021
Date of Issue

25 March 2015
Date of First Issue



This certificate and appendix remains the property of BRE Global Ltd. and is issued subject to terms and conditions (for details visit www.redbooklive.com/terms).

To check the validity of this certificate and appendix please visit www.redbooklive.com/check, scan the QR tag or contact us.

BRE Global Ltd, Watford, WD25 9XX
T: +44 (0)333 321 8811 E: enquiries@breglobal.com

LPCB is a Registered Trademark of the Building Research Establishment Ltd.



bre

Appendix to Certificate No: 1287a Fire Eater A/S

Issue: 02

| Product | Description | LPCB Ref. No. |
|---------|---------------------------|---------------|
| 210123 | ½" IN nozzle silencer 112 | 1287a/09 |
| 210125 | ½" IN nozzle silencer | |
| 210126 | ¾" IN nozzle silencer | |
| 210128 | 1" IN nozzle silencer | |

Notes:

(1) = ISO7/1 thread

(2) = NPT thread.

This certificate and appendix is maintained and held in force through regular surveillance activities

RE Brown

Signed for BRE Global Ltd.

Robert Brown

Verifier

27 August 2021

Date of Issue

25 March 2015

Date of First Issue



This certificate and appendix remains the property of BRE Global Ltd. and is issued subject to terms and conditions (for details visit www.redbooklive.com/terms).

To check the validity of this certificate and appendix please visit www.redbooklive.com/check, scan the QR tag or contact us.

BRE Global Ltd, Watford, WD25 9XX
T: +44 (0)333 321 8811 E: enquiries@breglobal.com

LPCB is a Registered Trademark of the Building Research Establishment Ltd.



bre

Certificate of Product Approval

Certificate Number: 1287b

Issue: 01

Fire Eater A/S

Vølundsvej 17
3400 Hillerød
Denmark

is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirements of the standard(s) as detailed below:

Products

Fire Eater IG541 200 bar & 300 bar
(refer to attached appendix for details)

Standards

LPS 1230
Requirements for Fire Testing of Fixed Gaseous Fire Extinguishing Systems

This certificate and appendix is maintained and held in force through regular surveillance activities

RE Brown

Signed for LPCB

Robert Brown
Verifier

25 March 2015
Date of Issue

25 March 2015
Date of First Issue



This certificate and appendix remain the property of BRE Global Ltd and is issued subject to terms and conditions (for details visit www.redbooklive.com/terms).

To check the validity of this certificate and appendix please visit www.redbooklive.com/check, scan the QR tag or contact us.

LPCB is part of BRE Global Ltd, Garston, Watford, WD25 9XX
T: +44 (0)333 321 8811 F: +44 (0)1923 664603 E: enquiries@breglobal.com



bre

Appendix to Certificate No: 1287b Fire Eater A/S

Issue: 01

Fire Eater IG541 200 bar & 300 bar

| Product Name | Risk | Design Concentration | Comments | LPCB Ref. No. |
|----------------------------------|---|----------------------|---|---------------|
| Fire Eater Control Inert INERGEN | Class A Standard (Solid fires e.g. paper, wood, plastics) | 37.2% | Design concentration includes 30% safety factor | 1287b/01 |
| | Class A Cables (Solid fires risks including cables) | 42.6% | Confirmation that 'minimum safety factor' is adequate | |
| | Class B (Liquid Fires e.g. heptane) | 43.7% | Design concentration includes 30% safety factor | |

Notes:

Design concentration Class A Standard and Class B = Extinguishing concentration x safety factor (minimum 1.3).

Design concentrations are as tested to LPS 1230 in BRE Test Report Number 291411 (200 bar and 300 bar)

Extinguishing concentrations are as tested in BRE Test Report Number 291410 (EN 15004-1 tests).

This system uses:

Design Manual: 'Fire Eater Control Inert Extinguishing System - Design, Installation, Maintenance and User Manual' – Revision 2015-02-23

Software Program: Fire Eater A/S Inergen Program, IMT version 2.2.x.

This system is suitable for storage and environmental conditions from -20°C to +65°C.

System pressure is specified as 200 bar and 300 bar at 15°C.

This certificate and appendix is maintained and held in force through regular surveillance activities

RE Brown

Signed for LPCB

Robert Brown
Verifier

25 March 2015
Date of Issue

25 March 2015
Date of First Issue



This certificate and appendix remain the property of BRE Global Ltd and is issued subject to terms and conditions (for details visit www.redbooklive.com/terms).

To check the validity of this certificate and appendix please visit www.redbooklive.com/check, scan the QR Tag or contact us.

LPCB is part of BRE Global Ltd., Garston, Watford WD25 9XX.
T: +44 (0)333 321 8811 F: +44 (0)1923 664603 E: Enquiries@breglobal.com



bre