AODISI

FIRE TECHNOLOGY

产品资料与销售咨询

PRODUCT DOCUMENTATION & SALES CONTACT

Firebreather ® Cavity Barrier - Certificate ESL-24-11693-en

澳迪斯防火科技（廊坊）有限公司

Aodisi Fire Technology (Langfang) Co., Ltd.

销售及选型联系 / Sales & product enquiries

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以上为销售联系信息，不替代安全数据表中的应急联系电话。
原始技术内容及制造商、检测机构和证书签发信息见后续资料页。

Sales contact only; emergency contacts in safety data sheets remain applicable.
Original technical, manufacturer and certification details follow.

ESL

مختبر الإمارات للسلامة
EMIRATES SAFETY LABORATORY

ESLGlobal.com

CERTIFICATE OF CONFORMITY

Issue: **01**

Certificate number: **ESL-24-11693**

Pursuant to provisions of the Certification scheme on Global Conformity Certification of fire and life safety products (CS-GCC, scheme type 5), Emirates Safety Laboratory hereby grants this certificate of conformity to the product described below:

Firebreather® 'Open-State' Cavity Barrier

Placed on the market under the name or trade mark of:

SECURO AS
Industrivegen 10,
7652 Verdal, Norway

Manufactured in the following location(s):

SECURO AS
Industrivegen 10,
7652 Verdal, Norway

Complies with the requirements of the standard(s) as detailed below:

ASFP Technical Guidance Document – TGD 19 (Nov 2017) Fire Resistance Test for 'Open-State' Cavity Barriers used in the external envelope of fabric of buildings

The certificate was first issued on **27 September 2024** and remains valid under the condition that the Certificate Holder fulfils the requirements of the agreement on certification supervision no. **0287/SA/24**.

Signed for ESL	Tomasz Kielbasa Certification Manager	27 September 2024 Date of issue	26 September 2027 Expiry date

This Certificate remains valid till date stated above, unless suspended, withdrawn or terminated. This certificate will not be valid if the manufacturer makes any changes affecting product conformity, which have not been notified to, and agreed in writing with ESL. This Certificate is an electronic document and shall not be reproduced (in any form) except in full. Certificate holder is under an obligation to make references to issued certificate only in conjunction with product(s) that conform to evaluated product construction. Prior to use of this certificate, please verify its validity at ESL.directory

Emirates Safety Laboratory (ESL)
240 Al Awir Road, Warsan 3, Mushraif, Dubai, United Arab Emirates
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GCC ACCREDITATION CENTER GAC
Product Certification
ISO/IEC 17065:2012
APC 0097

Appendix to Certificate of Conformity

No: **ESL-24-11693** Issue: **01**

CERTIFIED PRODUCT:

Product / System Description:

Firebreather® 'Open-State' Cavity Barrier is a fire-resistant tested 'open-state' cavity fire barrier specialized for ventilated facades and rainscreen cladding system application. It comprises stainless steel woven mesh and an intumescent strip 'mass' material. Firebreather® certified in this document comes in two different types, a 28 mm cavity barrier with single mass, and a 50 mm cavity barrier with single mass.

Testing according to ASFP Technical Guidance Document – TGD 19:

1. ASFP TGD 19 is a test method specifies procedure for determining the fire resistance of 'open state' cavity barriers when subjected to the standard fire exposure conditions and performance criteria stipulated in EN 1363- 1.
2. ASFP TGD 19 test method applies to non-loadbearing, horizontally oriented 'open-state' cavity barriers, which are used to provide fire separation within cavity voids such as those located between an external envelope and the face of a building or between the timber skin and outer brick leaf of a timber framed building.
   These cavity barriers are specifically designed to provide a separating function only. They may be insulating or non-insulating.
3. Overall fire-resistance rating of Firebreather® 'Open-State' Cavity Barrier as tested to specific configuration:

Product Description	Air Cavity Gap Width (mm)	Horizontal-oriented "open-state" cavity barriers applicable in cavity voids with or without mineral wool insulation	Fire Resistance Rating ASFP TGD 19 (Nov 2017)
Firebreather® 'Open-State' Cavity Barrier Barrier – 28 mm with single mass	28 mm	• up to 100 mm thick, 50 kg/m^3 density – mineral wool with aluminium foil on one side (6.4.4.4 Block with uninterrupted insulation to non-combustible material)	Integrity: 90 minutes Insulation: 45 minutes
		• no thermal insulation (6.4.2.1 Block to non-combustible material)	Integrity: 120 minutes Insulation: 60 minutes
Firebreather® 'Open-State' Cavity Barrier Barrier – 50 mm with single mass	50 mm	• up to 100 mm thick, 50 kg/m3 density – mineral wool with aluminium foil on one side (6.4.4.4 Block with uninterrupted insulation to non-combustible material)	Integrity: 120 minutes Insulation: 45 minutes
		• no thermal insulation (6.42.1 Block to non-combustible material)	Integrity: 120 minutes Insulation: 90 minutes
Note: ASFP TGD 19 (Nov. 2017) Clause 13.3, item 1, states, "Test on insulation running behind the cavity will cover interrupted insulation". Therefore, Firebreather® 'Open-State' Cavity Barrier material, may only be applicable for interrupted insulation with a thickness less than the cavity barrier sizes 28 mm or 50 mm, respectively.			

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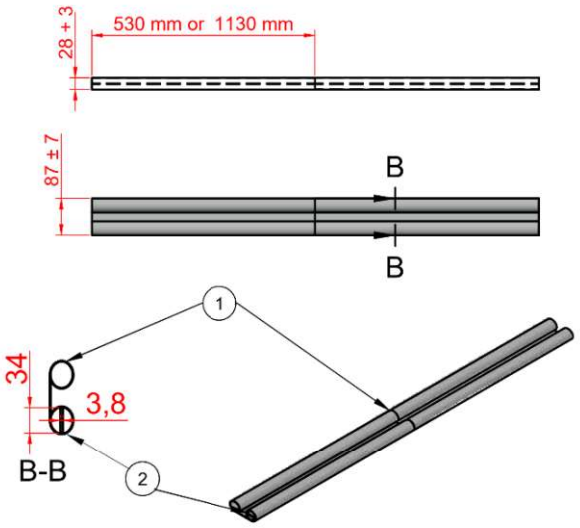
No: **ESL-24-11693** Issue: **01**

Details of Firebreather® 'Open-State' Cavity Barrier and Components:

a. Firebreather® 'Open-State' Cavity Barrier Barrier – 28 mm with single mass

Overall height: 87 ± 7 mm
Bottom roll height: 36 mm
Top roll height: 30 mm
Intumescent strip 'mass' (2):
34 x 3.8 mm (h x t), ref. KERAFIX® Flexplan 200 NG-A by ROLF*KUHN*GMBH
Stainless steel woven mesh: 0.56 mm (t), AISI 304
Length: Applicable to 530 mm or 1130 mm
Fixing support (no insulation):
- 2 nos. Ø 4 x 50 mm screws for 530 mm
- 5 nos. Ø 4 x 50 mm screws for 1130 mm

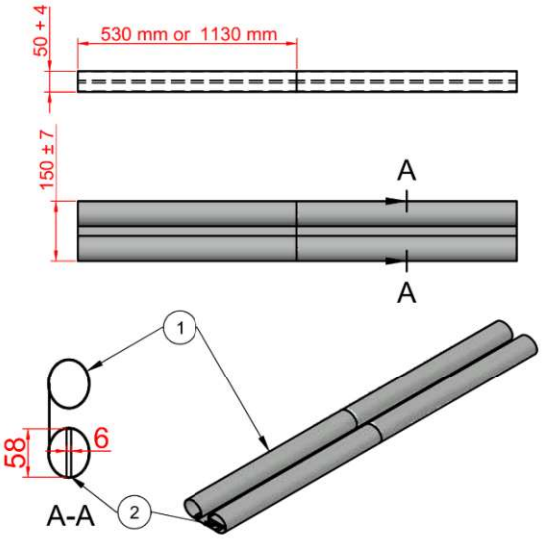
Fixing support (with up to 100 mm insulation):
- 2 nos. Ø 8 x 170 mm steel façade fixing fastener for 530 mm
- 5 nos. Ø 8 x 170 mm steel façade fixing fastener for 1130 mm



b. Firebreather® 'Open-State' Cavity Barrier Barrier – 50 mm with single mass

Overall height: 150 ± 7 mm
Bottom roll height: 60.5 mm
Top roll height: 52 mm
Intumescent strip 'mass' (2):
58 x 6 mm (h x t), ref. KERAFIX® Flexplan 200 NG-A by ROLF*KUHN*GMBH
Stainless steel woven mesh (1): 0.56 mm (t), AISI 304
Length: Applicable to 530 mm or 1130 mm
Fixing support (no insulation):
- 2 nos. Ø 4 x 50 mm screws for 530 mm
- 5 nos. Ø 4 x 50 mm screws for 1130 mm

Fixing support (with up to 100 mm insulation):
- 2 nos. Ø 8 x 170 mm steel façade fixing fastener for 530 mm
- 5 nos. Ø 8 x 170 mm steel façade fixing fastener for 1130 mm



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Limitation of use:

1. This certification covers only the Firebreather® 'Open-State' Cavity Barrier - a 28 mm cavity barrier with single mass, and a 50 mm cavity barrier with single mass, intended for ventilated facades and rainscreen cladding systems application.
2. This certification to ASFP TGD 19 does not cover assembly tests on the façade system and the result of assessment alone does not represent performance in a façade system. To evaluate the performance of open-state cavity barriers within a specific façade system, a large-scale fire propagation test should be considered.
3. Other performances (e.g. resistance to water leakage, seismic, air permeability, etc.) are not addressed in this certificate.

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