DOCUMENTATION

RISEFR 010-0238

With reference to the national code of building regulations of 27 June 2008 with the Norwegian building regulations of 1 July 2017 and belonging guidance, we document, on the basis of test certificates, evaluations and installation instructions, that this product meets the requirements of the Norwegian authorities as to the fire related qualities.

Product: FB Cavity Barrier

Product responsible: Securo AS Neptunveien 6, 7652 Verdal, Norge

The documentation is conditional on that the product is in accordance with the specifications given in the appendix and that the product is applied and used in accordance with regulations and all important details in this process follow precisely what is described in an installation manual. Both the installation manual and the RISE Fire Research AS Documentation shall follow the product or be available for the purchaser, user, inspector and the local authority.

The product shall be labeled with **RISEFR 010-0238**, trade name, product responsible and/or manufacturer together with a reference to the production for traceability. The labelling shall have good visibility.

Detailed product design and principle design of installation details are described in "Standard construction details for FB Cavity Barrier, belonging to Documentation **RISEFR 010-0238**". The version of the construction details filed at RISE Fire Research AS at any time is a formal part of the approval.

The product must have at least one annual, external inspection related to the internal system for control of quality. The inspection is adjusted to the type of product and other existing inspection arrangements. Details specified in a written agreement with RISE Fire Research AS.

This documentation was first issued **2009-08-30**. A renewal may be issued based on a written application. Termination by the applicant shall be asked for in writing and with 6 months notice. RISE Fire Research AS may withdraw this documentation when irregularities or misuse happens, and written instructions are not respected.

Issued: 2022-11-10 Valid until: 2028-01-01

This product documentation ceases to apply when the properties covered by this document are to be CE marked in accordance with CPR (EU) 305/2011.

4stop Ostur

Asbjørn Østnor Fagansvarlig dokumentasjon

Por Attan

Per Arne Hansen Prosjektleder dokumentasjon

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Appendix to Documentation RISEFR 010-0238, 2022-11-10.

1. Holder of the Documentation

Securo AS Neptunveien 6 7652 Verdal Norge www.securo.no

2. Manufacturer

Securo AS

3. Product description

FB Cavity Barrier is a ventilated fire barrier consisting of a twin roll (see Fig. 1) with single or double intumescent strip inside.

Standard length is 0.53 m and 1.13 m, and the width is 23 mm, 28 mm, 36 mm and 50 mm, depending on sealing material and materials in the cavity. FB Cavity Barrier is made of stainless steel mesh (AISI304) with wire diameter 0.56 mm and mesh width 2 mm. Intumescent strips are installed in rolls made of the mesh. The following intumescent strips can be used:

- "THERM-A-FLEX" from Dixon International Group.
- "Kerafix Flexpan 200" from SVT Group.
- "ART-FSVX" from AFS (Allright Fire Security).
- "ART-FSVA" from AFS.

4. Fields of application

FB Cavity Barrier is used as fire barrier in vented voids or cavities inside fire rated walls and floors, between different materials, to prevent vertical fire spread.

5. Properties

Table 1-3 on the next pages show the fire resistance of FB Cavity Barrier depending on type of barrier, materials in the cavity, type and dimensions of intumescent strip, single or double strip and type of end seal.

The Cavity Barriers with corresponding fire resistance can be used in constructions where the same EI fire resistance is required (i.e., if a Cavity Barrier has a fire resistance of 60 minutes according to Table 1 - 3, it can be used where fire resistance EI 60 is required).



Fig.1 FB Cavity Barrier with a single intumescent strip.

6. Special conditions for use and installation

FB Cavity Barrier shall be installed according to installation details shown in "Standard Construction Details for the product, belonging to RISE Fire Research AS documentation RISEFR 010-0238".

7. Basis for the documentation

This documentation is based on the properties that are documented in the following reports:

- Test report 103011.11 dated 2009-03-27 from SINTEF NBL according to NS-EN 1366-4:2006.
- Test report PGA11514A dated 2019-10-22 from Danish Institute of Fire and Security Technology according to EN 1366-4+A1:2010.
- Assessment report 150020-05 dated 2017-10-12 from RISE Fire Research AS.
- Test report No.21-001957-PRO3 dated 2022-08-29 from ift Rosenheim according to pr-EN 1364-6:2022.

8. Validity

The validity of this appendix is uniquely linked to the first page of the document with the corresponding requirements and conditions.

9. Technical management

Project manager for this approval is Per Arne Hansen and Discipline Manager Documentation is Asbjørn Østnor, RISE Fire Research AS, Trondheim.

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Table 1

Fire resistance of FB Cavity Barrier depending on type of barrier, materials of the cavity, type and dimensions of intumescent strip, single or double strip and type of end seal.

FB Cavity Barrier (ref. 103011.11)	The materials of the 36 mm wide cavity	Dimensions of intumescent strip ¹⁾ (mm)	Single or double strip	End seals	Fire Resistance ²⁾ (min)
A ³⁾	2" × 6" softwood	4,5/5 × 45	double	rockwool	30
B ³⁾	2" × 6" softwood	4,5/5 × 45	single	rockwool	30
С	13 mm gypsum boards (Gyproc GN 13)	4,5/5 × 45	double	rockwool	60/90 ⁴⁾
D	13 mm gypsum boards (Gyproc GN 13)	4,5/5 × 45	single	rockwool	60
E	19 mm softwood and 12 mm fiber board	4,5/5 × 45	single	rockwool	30
F	13 mm gypsum boards (Gyproc GN 13)	4,5/5 × 45	double	Sealmaster Firefoam	60/90 ⁴⁾
G	2" × 6" softwood	3,5/5 × 45	single	rockwool	30

¹⁾ Thickness x width of the intumescent strip. The thickness of 4.5 and 3.5 mm applies only when THERM-A-FLEX is used. 5 mm thickness applies when Kerafix Flexpan 200, ART-FSVX and ART-FSVA are used.

²⁾ FB Cavity Barrier type A - G can be applied in cases where a fire resistance corresponding to the fire resistance given in Table 1 is required (i.e. a FB Cavity Barrier with fire resistance of 60 minutes or more, can be used in an EI 60 fire division).
³⁾ A splice was included between two twin rolls

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⁴⁾ The fire resistance of 90 minutes applies only if the intumescent materials THERM-A-FLEX and ART-FSVA are used. If the intumescent materials Kerafix Flexpan 200 and ART-FSVX are used, the FB Cavity Barrier has a fire resistance of 60 minutes.

Table 2

Fire resistance of FB Cavity Barrier with intumescent material THERM-A-FLEX depending on materials of the cavity, single or double strip and type of end seal.

The materials of the 50 mm wide cavity	Dimensions of THERM-A-FLEX (mm)	Single or double strip	End seals	Fire Resistance ¹⁾ (min)
Fibre cement board and mineral wool A2, density≥135kg/m ³	6 × 60	single	rockwool	90
13 mm gypsum boards (Gyproc GN 13)	6 × 60	single	rockwool	60
13 mm gypsum boards (Gyproc GN 13)	6 × 60	double	rockwool	90

¹⁾ FB Cavity Barrier can be applied in cases where a fire resistance corresponding to the fire resistance given in Table 2 is required (i.e. a FB Cavity Barrier with fire resistance of 60 minutes or more, can be used in an EI 60 fire division).

Table 3

Fire resistance of FB Cavity Barrier with intumescent material Kerafix Flexpan 200 depending on materials of the cavity, single or double strip and type of end seal.

The materials of the 50 mm wide cavity	Dimensions of Kerafix Flexpan 200 (mm)	Single or double strip	End seals	Fire Resistance ¹⁾ (min)
Fibre cement board and mineral wool A2, density≥135kg/m³	6 × 58	single	rockwool	80
15 mm gypsum boards type F (Norgips Brannplate)	6 × 58	single	rockwool	101
Spruce, 36×198 mm, density ≥ 460 kg/m³	6 × 58	single	rockwool	68

¹⁾ FB Cavity Barrier can be applied in cases where a fire resistance corresponding to the fire resistance given in Table 3 is required (i.e. a FB Cavity Barrier with fire resistance of 60 minutes or more, can be used in an EI 60 fire division).

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Verification

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Document

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