



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 Vent

Product responsible: Securo AS
Neptunveien 6, 7650 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, which is checked by RISE Fire Research AS. 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 Vents, 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: 2020-05-12
Valid until: 2025-07-01

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.

Asbjørn Østnor
Fagansvarlig dokumentasjon

Per Arne Hansen
Prosjektleder dokumentasjon

Appendix to Documentation RISEFR 010-0238 , 2020-05-12.

1. Holder of the Documentation

Securo AS
 Neptunveien 6
 7650 Verdal
 Norge
www.securo.no

2. Manufacturer

Securo AS

3. Product description

FB Cavity Vent is a fire barrier for voids or cavities behind the cladding on facades or inside fire rated walls and floors. It consists of a twin roll (see Fig. 1) with single or double intumescent strip inside a cavity, between different materials in walls and floors or for venting of the attic.

Standard length is 0.5 m and 1 m and standard width is 23 mm, 28 mm and 36 mm. Width of 50 mm is available for some configurations with THERM-A-FLEX. FB Cavity Vent 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 Intumescent Seals.
- "Kerafix Flexpan 200" from C H Materials Ltd.
- "ART-FSVX" from AFS (Allright Fire Security).
- "ART-FSVA" from AFS.

4. Fields of application

FB Cavity Vent is used as fire barrier in vented voids or cavities inside fire rated walls and floors, between different materials, in order to prevent vertical fire spread, for instance behind the cladding on facades.

5. Properties

Table 1 and 2 on the next page show the fire resistance of FB Cavity Vent depending on type of vent, materials of the cavity, type and dimensions of intumescent strip, single or double strip and type of end seal.

The Cavity Vents with corresponding fire resistance can be used in constructions where the same EI fire resistance is required (i.e. if a Cavity Vent has a fire resistance of 60 minutes according to Table 1 or 2, it can be used where fire resistance EI 60 is required).

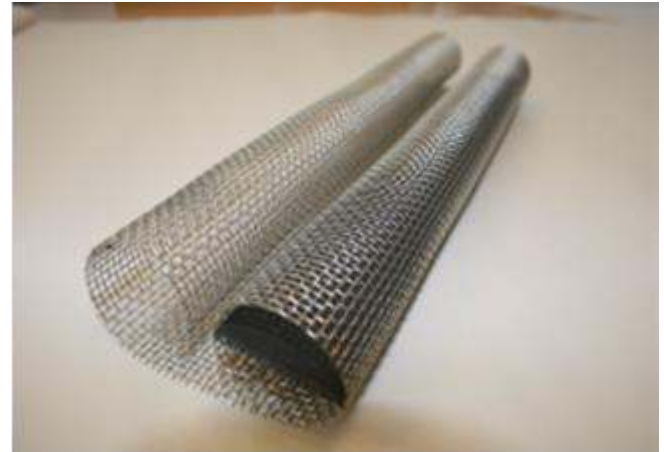


Fig.1
 FB Cavity Vent with a single intumescent strip.

6. Special conditions for use and installation

FB Cavity Vent 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.

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.

Table 1

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

FB Cavity Vent (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)
A³⁾	2" x 6" softwood	4,5/5 x 45	double	rockwool	30
B³⁾	2" x 6" softwood	4,5/5 x 45	single	rockwool	30
C	13 mm gypsum boards (Gyproc GN 13)	4,5/5 x 45	double	rockwool	60/90⁴⁾
D	13 mm gypsum boards (Gyproc GN 13)	4,5/5 x 45	single	rockwool	60
E	19 mm softwood and 12 mm fiber board	4,5/5 x 45	single	rockwool	30
F	13 mm gypsum boards (Gyproc GN 13)	4,5/5 x 45	double	Sealmaster Firefoam	60/90⁴⁾
G	2" x 6" softwood	3,5/5 x 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 Vent 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 Vent with fire resistance of 60 minutes, can be used in an EI 60 fire division).
- 3) A splice was included between two twin rolls.
- 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 Vent has a fire resistance of 60 minutes.

Table 2

Fire resistance of FB Cavity Vent 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 x 60	single	rockwool	90
13 mm gypsum boards (Gyproc GN 13)	6 x 60	single	rockwool	60
13 mm gypsum boards (Gyproc GN 13)	6 x 60	double	rockwool	90

- 1) FB Cavity Vent 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 Vent with fire resistance of 60 minutes, can be used in an EI 60 fire division).