# 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.

**Building material:** **FB Cavity Vents**

**Product responsible:** **Securo AS**
**Neptun vn. 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.

First issued: **2009-08-03.** 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: 2017-11-01**
**Valid until: 2023-01-01**

Asbjørn Østnor
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**RISE Fire Research AS**

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**Appendix 1 to Documentation RISEFR 010-0238 of 2017-11-01**

## 1. Owner of the Documentation

Securo AS
Neptun vn. 6,
7650 Verdal,
NORGE
www.securo.no

## 2. Manufacturer

Securo AS.

## 3. Product Description

FB Cavity Vents is a fire barrier in 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 Sealmaster strip inside a cavity, between different materials in walls and floors or for venting of the attic. FB Cavity Vents provide ample ventilation of the construction while instantly preventing fire spread.

Standard length is 0.5 and 1 m and standard size is 23 mm, 28 mm and 3 6mm. FB Cavity Vent is made of stainless steel (Stainless steel mesh AISI304). The wire diameter is 0.56mm Mesh width 2mm. Intumescent mass: Graphite in PVA polymeric binder. The following intumescent strips can be used:

- 'THERM-A-FLEX' from Intumescent Seals
- 'Kerafix Flexplan' 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 in vented fire barriers in voids or cavities inside fire rated walls and floors, between different materials in walls and floors, in order to prevent vertical fire spread, for instance behind the cladding on facades.

## 5. Properties

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

The seals with belonging fire resistance can be used in constructions where the corresponding EI fire class is required (i.e. if a fire seal has a fire resistance of 60 minutes according to Table 1, the FB Cavity Vent can be used where the fire class EI 60 is required).

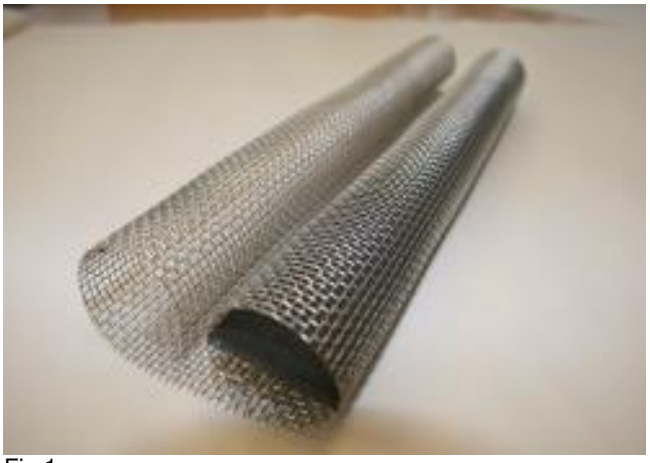

Fig.1
FB Cavity Vents with a single intumescent Sealmaster strip.

## 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 from SINTEF NBL:

- Test report 103011.11 dated 2009-03-27 from SINTEF NBL as according to NS-EN 1366-4:2006.
- Evaluation report 150020-05 dated 2017-10-12 from RISE Fire Research AS according to TEK17.

## 8. Validity

The validity of the appendix is uniquely linked to the first page of the document with the requirements, conditions and time stamps that are presented there.

## 9. Technical Management

Project manager for this approval is Jan P. Stensaas, Discipline Manager Documentation, SINTEF NBL as, Trondheim.

Table 1
The fire resistance of the FB Cavity Vent dependent on the type of vent, the materials of the cavity, dimensions of intumescent strip, single or double strip and type of end seal.

| FB Cavity Vent Type | The materials of the 36 mm wide cavity | Dimensions of intumescent strip[1] (mm) | Single or double strip | End seals | Fire Resistance[2] |
|---|---|---|---|---|---|
| **A**[3] | 2" x 6" softwood | 4,5/5 x 45 | double | Rockwool | **30** |
| **B**[3] | 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 | **60/90**[4] |
| **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 | **60/90**[4] |
| **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 is used when Kerafix Flexplan 200', 'ART-FSVX' and 'ART-FSVA' are used.

2) FB Cavity Vent Type A-G can be applied in cases where a fire class 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 a 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 Flexplan 200' and 'ART-FSVX' are used, the FB Cavity Vent has a fire resistance of 60 minutes.

**SP Fire Research AS**

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