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European Technical Assessment

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General Part

Technical Assessment Body issuing the ETA: ITeC

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Trade name of the construction product	**PENOSIL Fire Rated Gunfoam B1 187** **PENOSIL Brandschutzschaum B1 187** **PENOSIL Espuma B1 PU-476 Pistola** **PENOSIL B1 Fire Rated Foam 187**
Product family to which the construction product belongs	Fire stopping and fire sealing products. Linear joint seal.
Manufacturer	**WOLF GROUP OÜ** Suur Paala, 10 13619 Tallinn Estonia
Manufacturing plant(s)	**WOLF GROUP OÜ** Suur Paala 10 13619 Tallinn Estonia
This European Technical Assessment contains	7 pages
This European Technical Assessment is issued in accordance with Article 95(4) of Regulation (EU) 2024/3110, on the basis of	European Assessment Document EAD 350141-00-1106

General comments

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.

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Specific parts of the European Technical Assessment

1. Technical description of the product

PENOSIL Fire Rated Gunfoam B1 187[1] is a one-component sealant foam. It is a self-adherent, ready to use gunfoam for in situ application directly into the linear joint without backing material.

PENOSIL Fire Rated Gunfoam B1 187 shall be applied, in accordance with the manufacturer's instructions, to fill the whole depth of the joint, from surface to surface of the constructive element. The foam expands after application (excess foam can be cut after it has fully cured). See table 1.1 for information on the application properties.

Table 1.1: Application properties of PENOSIL Fire Rated Gunfoam 187.

Property	Nominal value
Tack free time (EN 17333-3)	(6 – 10) min
Cutting time (30 mm bead, EN 17333-3)	< 30 min
Fully cured in joint (3 cm x 5 cm, 23 °C)	< 8 h
Post expansion (EN 17333-2)	< 70 %
Density in joint (3 cm x 10 cm, WGM106)	(17 – 22) kg/m^3

Once cured, the sealed linear joint is covered at both sides of the constructive element with a galvanised steel sheet DX51D+Z275 according to EN 10346, of at least 0,6 mm thickness, fixed to the constructive element with steel screws Ø3,5 mm x 40 mm (at least 8 fixings staggered per linear metre).

The assessment carried out in this ETA relates to the assembled constructive system: linear joint seal made up of the foam covered with the steel sheets.

[1] PENOSIL Fire Rated Gunfoam B1 187 is also put on the market under the trade names PENOSIL Brandschutzschaum B1 187, PENOSIL Espuma B1 PU-476 Pistola and PENOSIL B1 Fire Rated Foam 187. All the information contained in this ETA applies to the four product trade names.

2. Specification of the intended use(s) in accordance with the applicable EAD

The seals are intended to prevent or restrict the passage of fire (and/or hot smoke) between elements or components or to maintain the integrity and insulation performance of one or more fire separating elements at linear discontinuities for a specified duration. The seals are designed not to accommodate movement (non-movement joints).

PENOSIL Fire Rated Gunfoam B1 187 can be used to seal horizontal and vertical linear joints in rigid walls, not abutting another constructive element, with:

- minimum thickness of 100 mm and minimum density of 550 kg/m^3,
- minimum thickness of 200 mm and minimum density of 450 kg/m^3.

The constructive element where the joint seal is installed must be classified according to EN 13501-2 for the required fire resistance period as given in table 3.2.

PENOSIL Fire Rated Gunfoam B1 187 has been assessed for use in internal conditions (type Z_2 in accordance with EAD 350141-00-1106).

The provisions made in this ETA are based on a working life of the foam of at least 10 years, provided that the conditions laid down in the manufacturer's instructions for the installation, use and maintenance are met. These provisions are based upon the current state of the art and the available knowledge and experience.

The indications given as to the working life of the product cannot be interpreted as a guarantee but are regarded only as a means for choosing the appropriate products in relation to the expected economically reasonable working life of the works.

3. Performance of the product and references to the methods used for its assessment

3.1. Performance of the product

The assessment of PENOSIL Fire Rated Gunfoam B1 187 has been performed in accordance with EAD 350141-00-1106 *Fire stopping and fire sealing products – Linear joint and gap seals*. The performance of the product is shown in table 3.1.

Table 3.1: Performance of the product.

Basic Working Requirement	Essential characteristic	Performance
BWR 2 Safety in case of fire	Reaction to fire	E
	Resistance to fire	See table 3.2
BWR 4 Safety and accessibility in use	Durability	Type Z_2

The rest of characteristics included in EAD 350141-00-1106 have not been assessed in this ETA.

Table 3.2: Resistance to fire classification of the seals in rigid walls.

Joint orientation	Depth of sealant / Wall thickness (mm)	Width of joint (mm)	Classification
Horizontal	100	15	EI 60-T-X-F-W15 E 90-T-X-F-W15
		30	EI 45-T-X-F-W30 E 60-T-X-F-W30
	200	15	EI 240-T-X-F-W15
		30	EI 120-T-X-F-W30 E 180-T-X-F-W30
Vertical	100	10	EI 45-V-X-F-W10 E 120-V-X-F-W10
		20	EI 30-V-X-F-W20 E 120-V-X-F-W20
		30	EI 20-V-X-F-W30 E 120-V-X-F-W30
		40	EI 15-V-X-F-W40 E 120-V-X-F-W40
	200	10	EI 240-V-X-F-W10
		20	EI 240-V-X-F-W20
		30	EI 180-V-X-F-W30 E 240-V-X-F-W30
		40	EI 60-V-X-F-W40 E 180-V-X-F-W40

Notes:

- Classification valid for the assembled system: linear joint seal made up of the foam covered with the steel sheets.
- Classification valid for rigid walls of aerated concrete, concrete, blockwork and masonry of a minimum thickness of 100 mm and minimum density of 550 kg/m^3 or a minimum thickness of 200 mm and minimum density of 450 kg/m^3, as given in the table.
- Classification valid for narrower nominal joint widths and equal or greater seal depths (provided that the joint is fully filled with the foam).
- Classification valid with fire exposure from both sides of the wall.
- Test results valid only for the joint orientation in which the seal was tested.

3.2. Methods used for the assessment

3.2.1. Reaction to fire

PENOSIL Fire Rated Gunfoam B1 187 has been tested according to EN ISO 11925-2, and the classification is given in accordance with EN 13501-1 in connection with Regulation (EU) 2016/364. The tested product has been mounted and fixed following the provisions of Annex A.1 of EAD 350141-00-1106.

3.2.2. Resistance to fire

PENOSIL Fire Rated Gunfoam B1 187 has been tested according to EN 1366-4 and classified according to EN 13501-2. The resistance to fire performance is given in table 3.2.

3.2.3. Durability

For intended use type Z_2, PENOSIL Fire Rated Gunfoam B1 187 has been assessed in accordance with section 2.2.12 of EAD 350141-11-1106. Tests have been performed in accordance with:

- Section B.12 of EAD 350141-00-1106 (appearance).
- Section B.6.2 of EAD 350141-00-1106 (density of cured foam).
- Section B.15 of EAD 350141-00-1106 (loss of mass according to EN ISO 3451-1).

4. Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

According to the Decision 1999/454/EC of the European Commission the system of AVCP (see EC delegated Regulation (EU) No 568/2014 amending Annex V to Regulation (EU) 305/2011) given in the following table applies.

Table 4.1: AVCP system.

Product(s)	Intended use(s)	Level(s) or class(se)	System
For sealing products	For fire compartmentation and/or fire protection or fire performance	Any	1

5. Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

All the necessary technical details for the implementation of the AVCP system are laid down in the *Control Plan* deposited with the ITeC and agreed in accordance with EAD 350141-00-1106, section 3.

The *Control Plan* is a confidential part of the ETA and only handed over to the notified product certification body involved in the assessment and verification of constancy of performance.

The factory production control operated by the manufacturer shall be in accordance with the above-mentioned *Control Plan*.

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