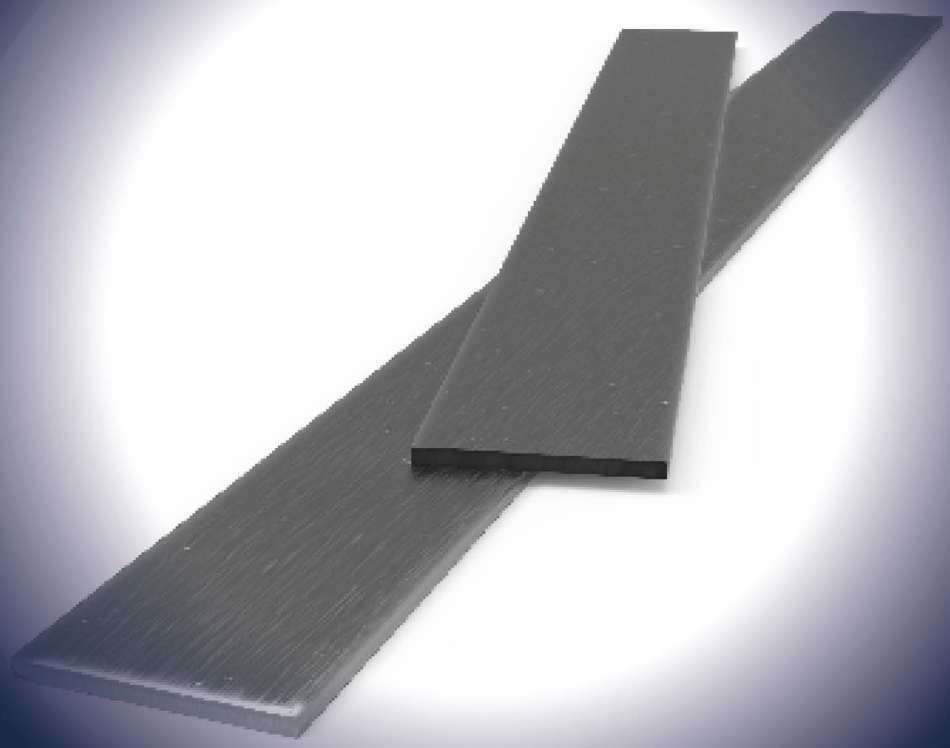
ALFA FF102

Ventilated Cavity Barrier

TECHNICAL DATA SHEET



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ALFASEAL® GROUP

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PRODUCT DESCRIPTION

The **ALFA FF102** fire-resistant gap barrier is made of intumescent material which expands in the event of a fire, closing the external wall cavity and blocking the spread of fire, ensuring fire resistance up to EI120. The **ALFA FF102** barrier is available in two sizes depending on the maximum gap width and the required fire resistance.

APPLICATION

ALFA FF102 barriers are used to restore the fire resistance of ventilated facades (walls with an air gap inside). The following layers are permitted the following layers in the partition:

- wall structure: steel profiles, wooden frame, reinforced concrete, masonry, e.g. aerated concrete blocks, silicate blocks, concrete blocks
- external wall cladding: silicate board, aerated concrete board, concrete board, gypsum board, masonry, facade boards, fibre-cement cladding material, e.g. Hardie® Plank, external mineral fibre wall board.

The **ALFA FF102/25** barrier is suitable for ventilated gaps up to 25 mm wide, while the **ALFA FF102/50** is suitable for gaps up to 50 mm wide

AVAILABILITY

Product	Maximum gap width [mm]	Dimensions [mm]	Delivery form	Item number
ALFA FF102 /25	25	4 x 35 x 1000	1 pcs.	8504351000
ALFA FF102 /50	50	6 x 75 x 1000	1 pcs.	8506751000

TECHNICAL DATA

Swelling factor	26 : 1
Colour	Silver / Grey
Finishing	Aluminium foil
Material density	ρ = ~900 kg/m³
Cutting option	Yes
Service life	60 years
Durability	Class X, the product may be exposed to weather conditions (UV, rain, frost)

COMPLIANCE

Fire resistance classification:

EN 1363-1

TRANSPORT AND STORAGE

Transport and store (in the original, unopened packaging) in a safe, dry place.

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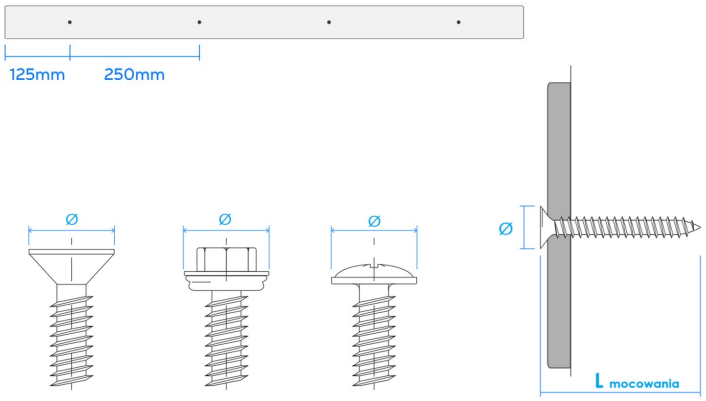
INSTALLATION

a) **PREPARATION.** Clean the surface of the barrier installation area of grease, dust and dirt. Ideally, the gap barrier should be installed in a continuous line. If there are gaps/obstacles that prevent the barrier from being installed in a continuous line, the product can be cut with a sharp knife and pressed tightly against the obstacle, then restarted on the opposite side of the obstacle.

b) **INSTALLATION.** Before starting installation, check that the surface is solid and free from cracks.

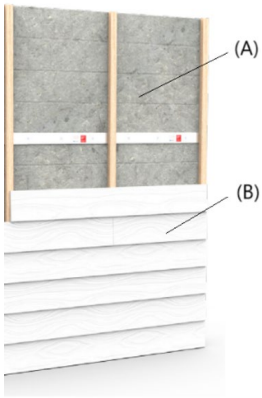
- Secure the product using stainless steel screws or nails at intervals of max. 250 mm between centres and max. 125 mm from each end. For cut sections of the barrier with a length of ≤ 250 mm, only one fastening is required.
- Use stainless steel screws or nails for assembly:
- For **ALFA FF102/25**: countersunk screws with head diameter: 6 mm ≤ ø ≤ 11.5 mm
- For **ALFA FF102/50**: conical or hexagonal head screws or screws with integrated washers with a diameter of ø ≤ 16 mm as shown in the diagram

• The typical minimum embedment depth of the "L" fastener is:
- 25 mm in wood
- 50 mm in concrete/masonry
or the minimum depth specified by the fastener manufacturer.



*When using nails, ensure that the nail is flush with the front surface of the product: it should not be recessed or protrude through the product. The fire barrier must not be damaged when fastening with nails. When using a nail gun, the pressure must be adjusted accordingly to take the above guidelines into account.

FIRE CLASSIFICATION



Barrier type	Wall construction Barrier type(A)	Facade cladding (B)	Max. slot width [mm]	Max. gap width after using the gasket [mm]	Dimensions (thickness x height x length) [mm]	Fire resistance class
ALFA FF102/25	Wooden frame with OSB board	Wall cladding	25	21	4 x 35 x 1000	EI 60
	Steel frame with calcium silicate board	Concrete slab cladding				
	Steel frame with cement-bonded particle board					
	Steel frame with plasterboard					
	Aerated concrete blocks / hollow blocks / masonry elements					
ALFA FF102/50	Wooden frame with OSB board	Wall cladding	50	44	6 x 75 x 1000	EI 120
	Steel frame with non-combustible panel					
	Aerated concrete blocks / hollow blocks / masonry elements	Facade boards / fiber-cement cladding material				
	Steel frame with cement-bonded particle board					

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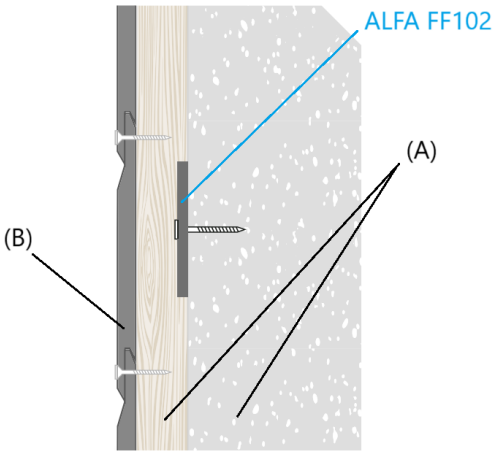
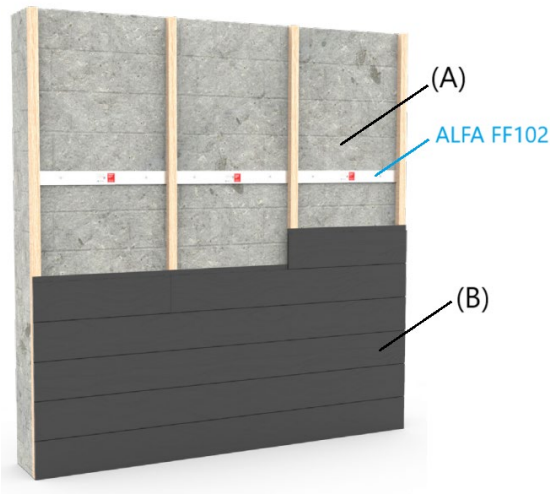
SOLUTION DETAILS

ALFA FF102 barrier between wooden frame (stop-start)

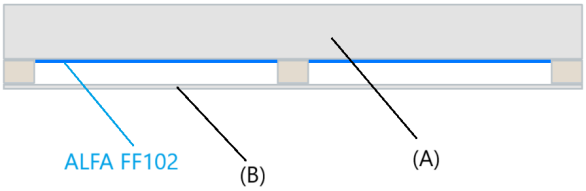
CROSS-SECTION



VIEW

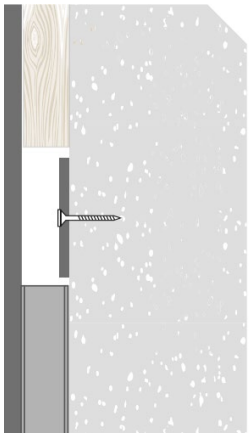


PLAN VIEW

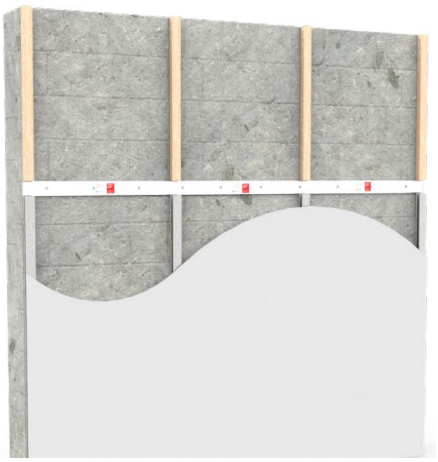


ALFA FF102 barrier continuous barrier without interruption

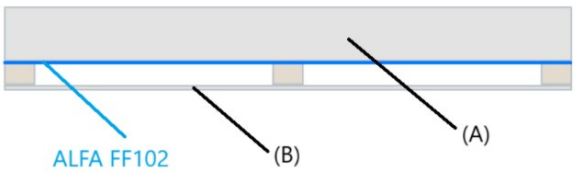
CROSS-SECTION



VIEW



PLAN VIEW



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