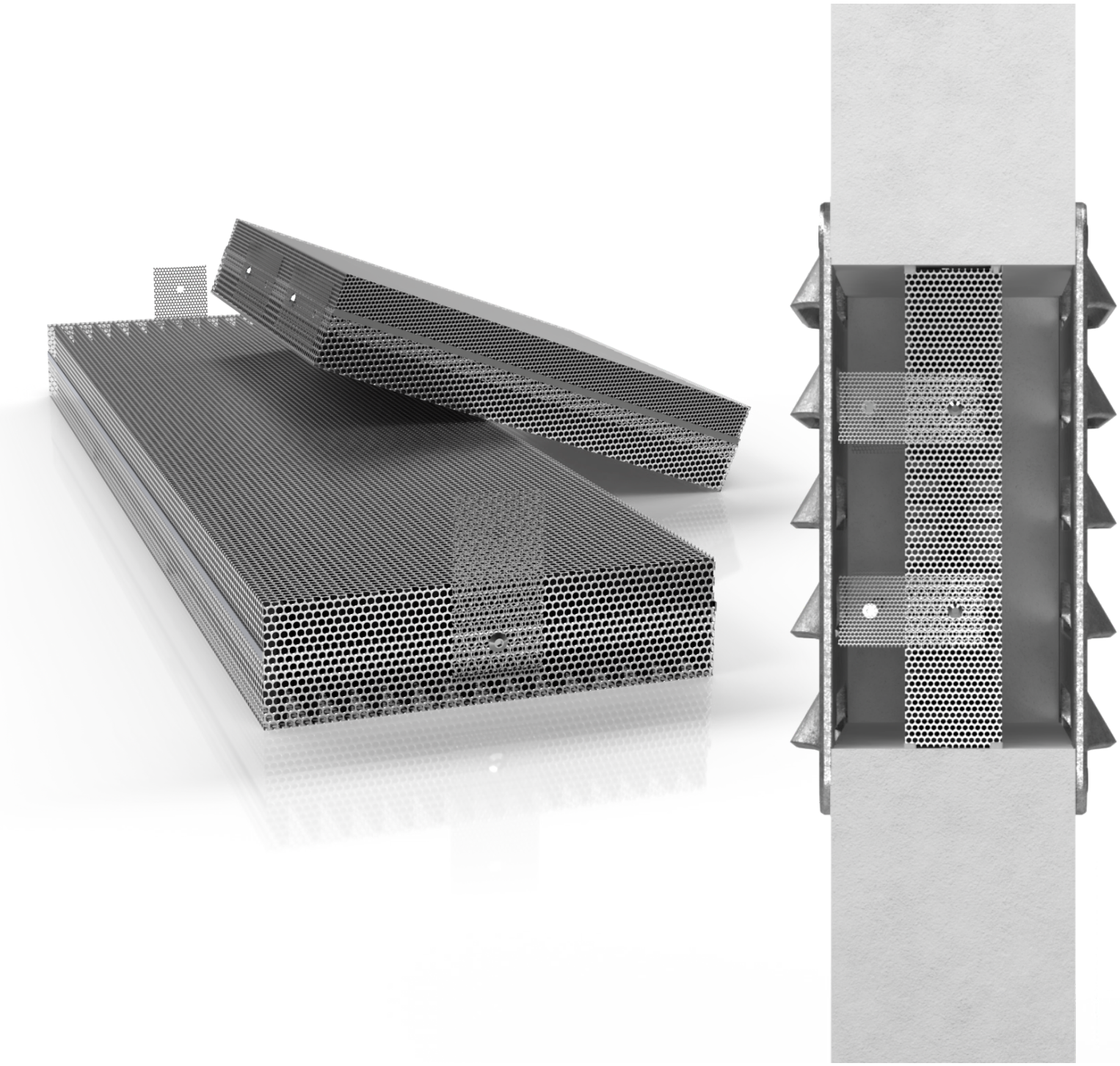
Firebreather® Air Transfer Grilles

Air transfer grilles for ventilation between fire compartment walls

Made of stainless steel with an intumescent fire resisting inlay.

Fire rating: EI 30, EI 60 or EI 90 in accordance with NS-EN 1364-5: 2017 as per RISEFR 030-03101



Flamro Brandschutz-Systeme GmbH • Am Sportplatz 2 • 56291 Leiningen • Germany
T +49 6746 9410-0 • www.flamro.de • info@flamro.com
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1. Preliminary remarks

1.1. Use of the instructions

Before starting work, read through these installation instructions completely. Pay particular attention to the following safety instructions.

The authorisation holder assumes no liability for damage caused by failure to comply with these instructions.

Pictorial representations serve as examples only. Installation results may differ in appearance.

Unless stated otherwise, all lengths are specified in mm.

Subject to errors, misprints and changes. All information contained in this brochure reflects the state of the art or, if applicable, the requirements of the pertinent standard at the time of printing (26.03).

All information in this document represents the state of the art at the time of writing or the current version of the standard.

Upon request, flamro will be pleased to provide the relevant legal and technical framework and manufacturer specifications for each individual case.

1.2. Safety instructions

Personal protective equipment

	Wear protective clothing and non-slip shoes.
	Use safety goggles, safety glasses.
	Wear work gloves.

2. Test methods and standards / certificates

NS-EN 1364-5:2017	Fire resistance tests for non-loadbearing elements. Air transfer grilles

2.1. Certificate of Usability

RISEFR 030-0311

3. Air Permeability (informative value)

In its normal condition, the Firebreather® Air Transfer Grille remains open, allowing natural ventilation. The airflow rate through the air transfer grille has been measured at different pressure levels. These figures are provided for information only and are not part of the fire resistance assessments.

Dimension [mm]	Airflow in m^3/t at pressure drop		
	5PA	10PA	15PA
150 × 150	49	72	89
200 × 200	93	141	179
600 × 600	1000	1420	1810

4. Products

Consisting of: perforated stainless steel (AISI 304) and Palusol

Article	Standard width [mm]	Standard height [mm]	Standard depth [mm]	Fire rating	Art. no.
Firebreather® Air Transfer Grille	150	150	40	EI 30	ATG-15153
				EI 60	ATG-15156
				EI 90	ATG-15159
Approved louvres:	TROX® Auranor OVA louvre (150 × 150 mm)				OVA-150-150
	Flexit fixed louvre, steel (150 × 150 mm)				FLEXIT 150x150
	Flexit flap valve (150 × 150 mm)				FLEXIT-KLAFF
Firebreather® Air Transfer Grille	200	200	40	EI 30	ATG-20203
				EI 60	ATG-20206
				EI 90	ATG-20209
Approved louvres:	TROX® Auranor OVA louvre (200 × 200 mm)				OVA-200-200
	Flexit fixed louvre, steel (200 × 200 mm)				FLEXIT 225x225
Firebreather® Air Transfer Grille	500	100	40	EI 30	ATG-50103
				EI 60	ATG-50106
				EI 90	ATG-50109
Approved louvre:	TROX® Auranor OVA louvre (500 × 100 mm)				OVA-500-100
Firebreather® Air Transfer Grille	500	150	40	EI 30	ATG-50153
				EI 60	ATG-50156
				EI 90	ATG-50159
Approved louvre:	TROX® Auranor OVA louvre (500 × 150 mm)				OVA-500-150
Firebreather® Air Transfer Grille	600	600	40	EI 30	ATG-60603
				EI 60	ATG-60606
				EI 90	ATG-60606
Approved louvres:	TROX® Auranor OVA louvre (600 × 600 mm)*				OVA-600-600
	TROX® Auranor RIA louvre (600 × 600 mm)*				Trox-Ria
also approved for Air Transfer Grille sizes below 600 × 600 mm					

We also offer custom-sized Air Transfer Grilles from 100 × 100 mm to 600 × 600 mm.
Please send an enquiry to info@flamro.com for any individual requests.

5. Installation

5.1. Building elements

5.1.1 Flexible walls

Flexible walls must have a minimum thickness of ≥ 100 mm.
The walls must be classified for the desired fire resistance duration in accordance with EN 13501-2.

5.1.2 Rigid walls

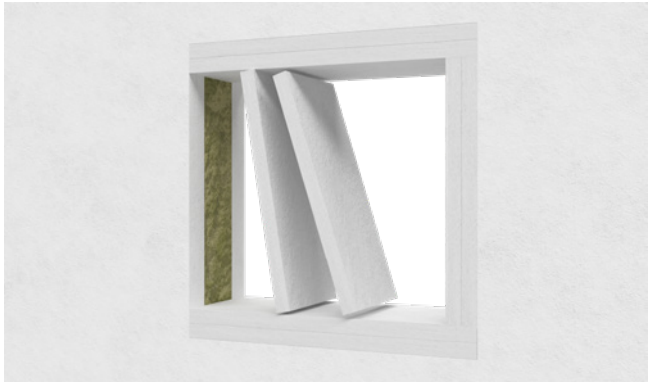
The walls must be classified for the desired fire resistance duration in accordance with EN 13501-2.

5.2. Permitted installation height

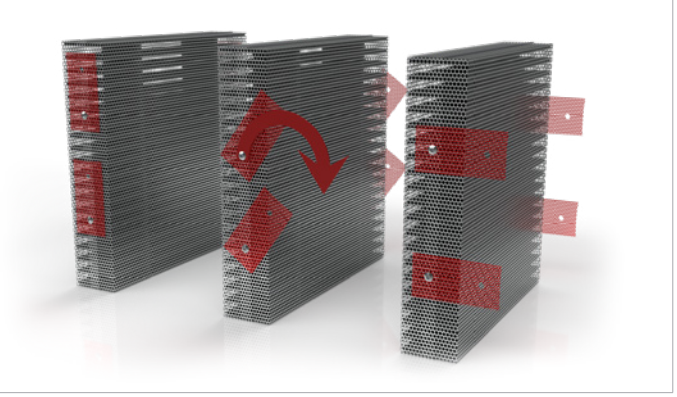
150 × 150 mm	0.5–2.6 m	-
200 × 200 mm	0.5–2.2 m	when using Flexit louvres on both sides
	0.5–2.6 m	when using stretch metal louvres on both sides or an OVA louvre on one side and a Flexit louvre on the other side
> 200 × 200 mm	0.5–1.8 m	-

6. Installation steps

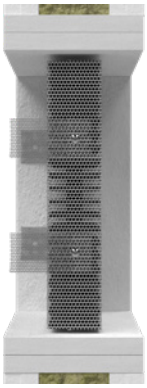
1. Prepare the aperture for installation.
   Use a single layer for walls with a fire rating of EI 30.
   Use dual layers for walls with a fire rating of EI 60 and EI 90.



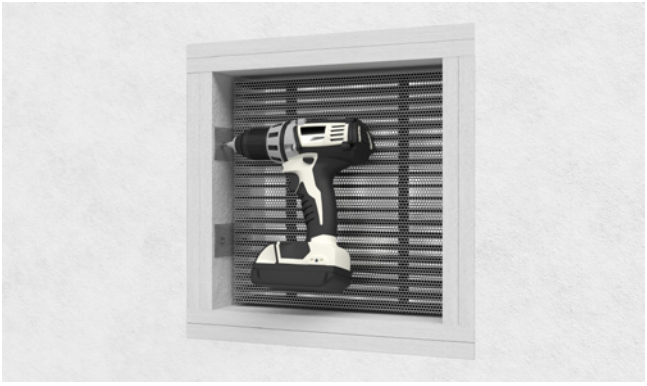
2. Pull out the brackets before installation.

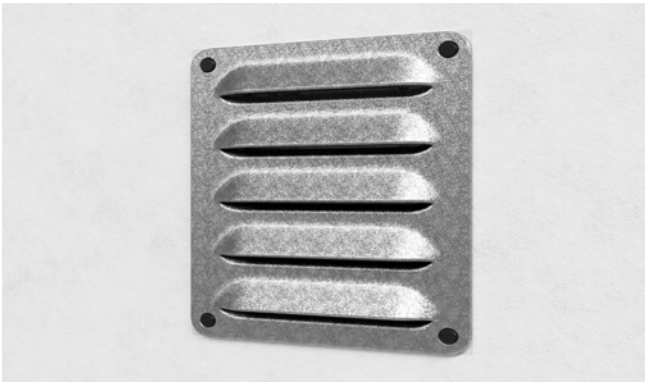


3. Mount the Firebreather® Air Transfer Grille inside the aperture in a central position. The grille is designed with a 5 mm clearance on all sides for the joint gap.



4. Fasten the brackets to the wall with stainless steel screws.



5. Seal the gap around the grille with suitable fire resistant sealant on both sides of the wall.	6. Install approved louvres on both sides of the wall.
	

7. Fill out the label neatly and attach it visibly to the louvre.

7. Maintenance

Regular visual inspection of the vents should be carried out to ensure that the perforated steel plates are not clogged by dust, insects or the like which can reduce the airflow. It is recommended to carry out inspection and necessary cleaning at least every five years.