

**Product information**  
PX-G ventilation module



**Safety and Exclusivity**

# Table of contents

## **General**

The most important advantages .....	3
Application.....	3

## **Installed situations**

Installation in walls with fire resistance class F30 to F120 .....	4
Installation example, combination solid wall and light partition wall.....	4
Classified installation shafts and ducts F30 .....	5
Classified installation shafts and ducts F90 - F120.....	5
Light partition wall F30 or installation shafts and ducts.....	5
Light partition wall F90 - F120 or installation shafts and ducts .....	5

## **Dimensions**

Dimensions.....	6
Dimensions of possible combinations .....	7

## **Cover blind for the decrease of cold-smoke transfer**

Cover blind Type A .....	8
Cover blind Type B .....	8

## **Technical data**

General construction-supervision-related authorization Z-19.18-1648	
Fire resistance class F30 - F120 in accordance with DIN 4102 Part 2 .....	9

## **Order example**

Ventilation module PX-G.....	10
Table cover grating one or two-sided.....	10

## **Tender text**

Tender text ventilation module for the installation F30 and F120 in accordance with DIN 4102 Part 2.....	11
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## **PX-G ventilation module - application example for shut-down chimneys**

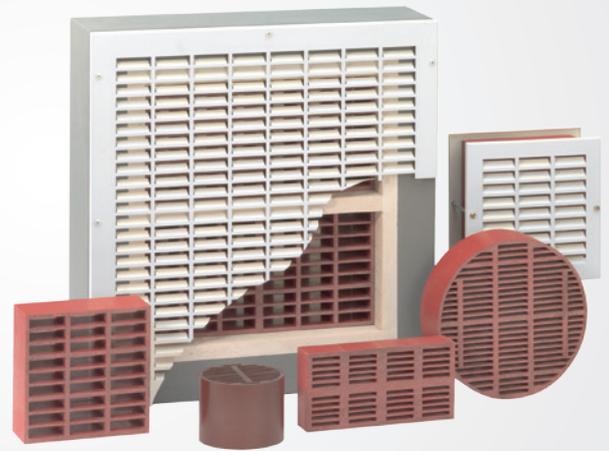
Ventilation module PX-G.....	12
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## **Agreement confirmation**

Building product(s) for the close-off of flow openings Type: PX-G in fire-resistance capable components.....	14
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# PX-G ventilation module

- **Fire resistance class:** F30 - F120 in accordance with DIN 4102, Part 2  
1 hour integrity to BS 476, Part 20
- No movable parts
- Simple cleaning
- Simple installation
- Very good air-technical characteristics, openings parallel to the air stream - compensation of turbulence
- Resistant against high humidity and most corrosive / industrial air conditions
- New is the installation in the fire-protection housing for switchgear cabinets with fire-resistance capable lining for installation in all rooms with the exception of the stairwell
- **General construction-supervision-related authorization:** Z-19.18.-1648



PX-G

## The most important advantages

 Fire protection ventilation modules are offered round, square or rectangular. The standard program of this product line is cast directly from intumescent Proxit raw material. As a result of that, no influencing of the fire-inhibiting effect through frames or e.g. protection film.

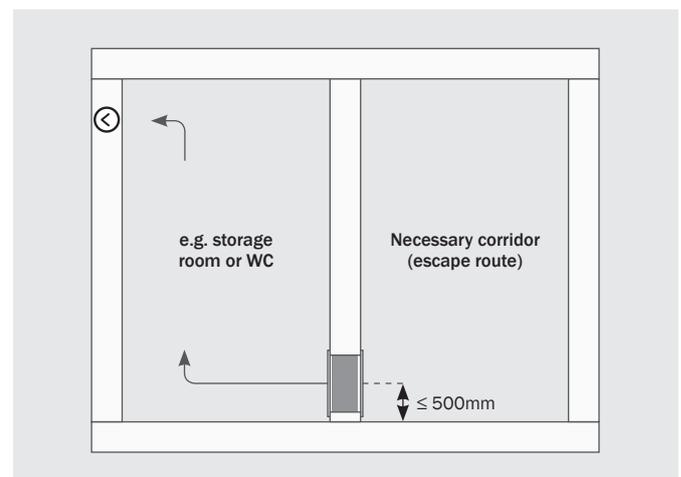
With precisely-fitting installation of the  fire-protection ventilation modules, additional sealing work is not required since, in case of activation through heat or fire, the foaming material fills possible irregularities in the fire-resistance capable lines or wall openings if these are not more than 2.5mm.

In the case of fire, the  fire-protection air foams fast and closes the fire section caused chemical reaction, through heat and no mechanical or other procedure.

With fire tests in the Warrington Fire Research Centre, the  fire protection ventilation modules were classified as follows: **1 hour integrity to BS 476, Part 20.**

## Application

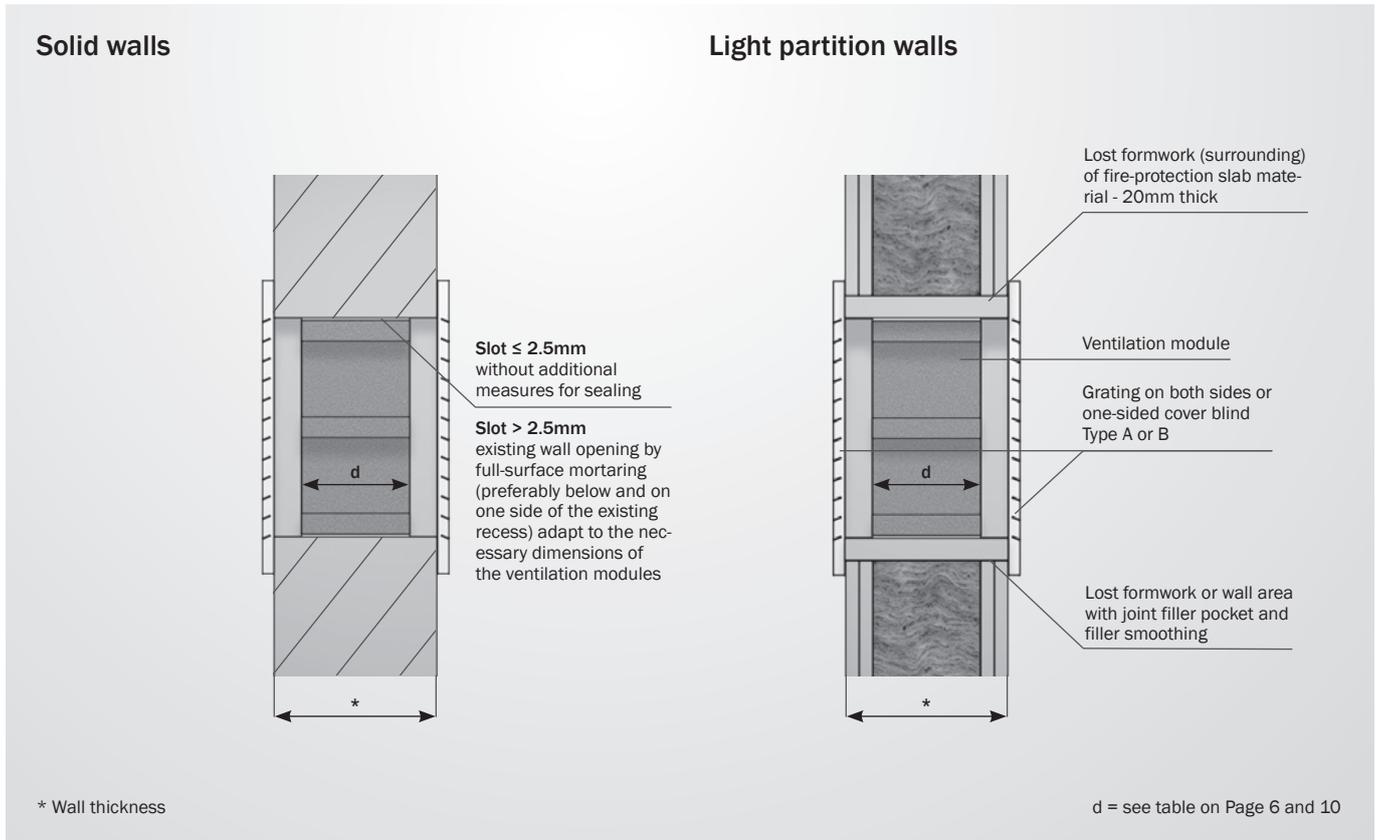
 Ventilation modules can be installed for ventilation and air extraction in light and solid partition walls, installation shafts and ducts. The classification F30 and F120 of the component is not impaired by the installation of the ventilation modules. The direction of the fire attack does not play any role in this case.



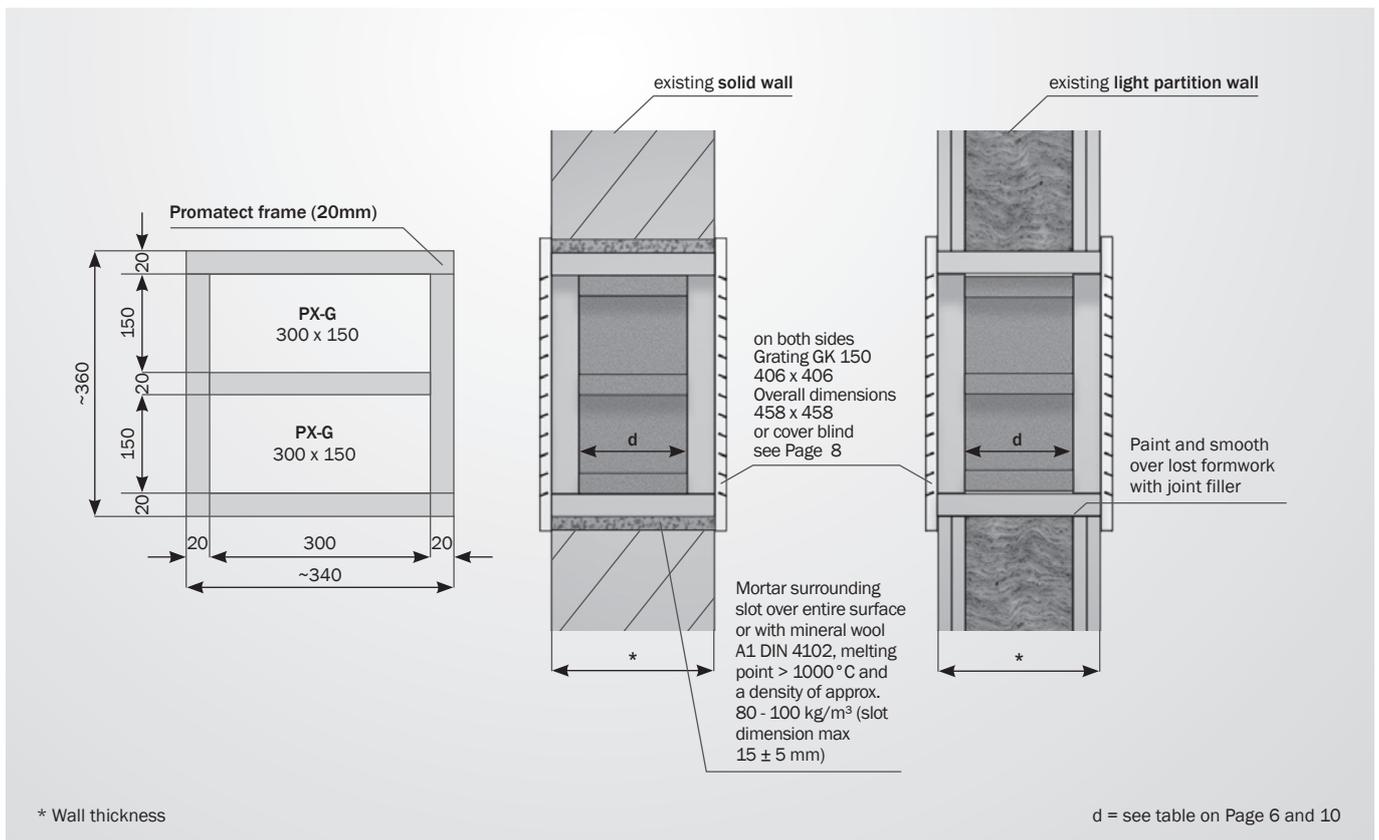
**Note:** Special observation applies for the installation of the ventilation module PX-G in walls of necessary corridors (escape routes). The openings must be in the lower wall area (max. 500mm arranged centrally over corridor surface). The admissibility of their utilization, in particular as regards arrangement and size, is decided by the responsible building supervisory authority in the building permit process. A possible smoke transfer in necessary corridors (escape routes) can be additionally prevented by the utilization of a cover blind (instead of a cover grating) with mechanical systems with vacuum pressure.

# Installed situations

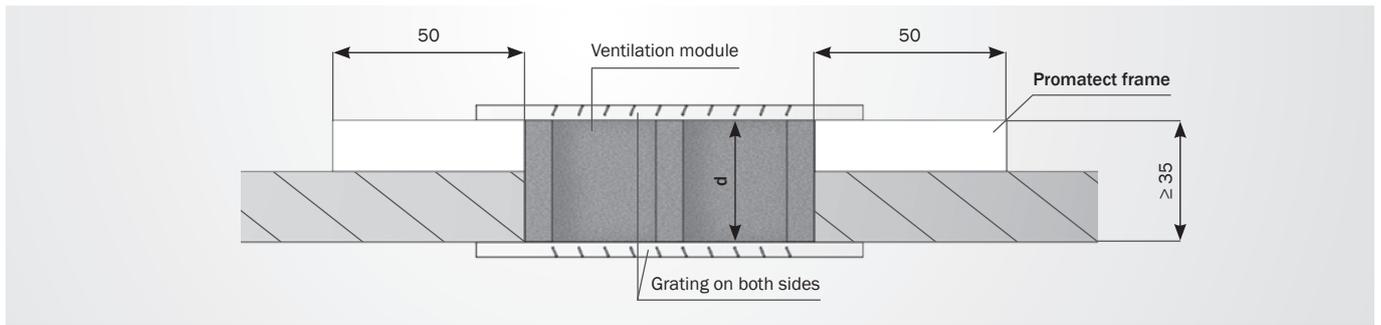
## Installation in walls with fire resistance class F30 to F120



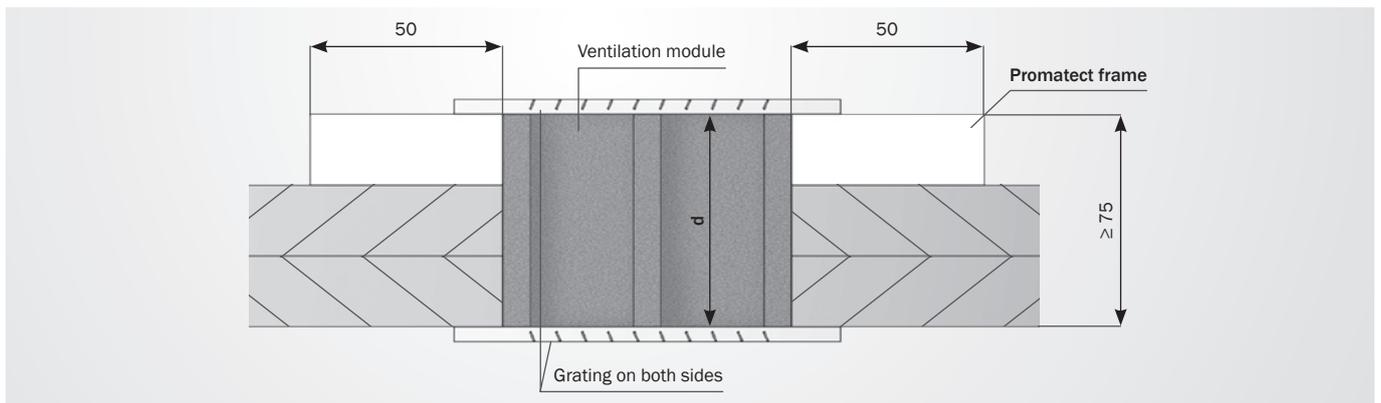
## Installation example, combination solid wall and light partition wall



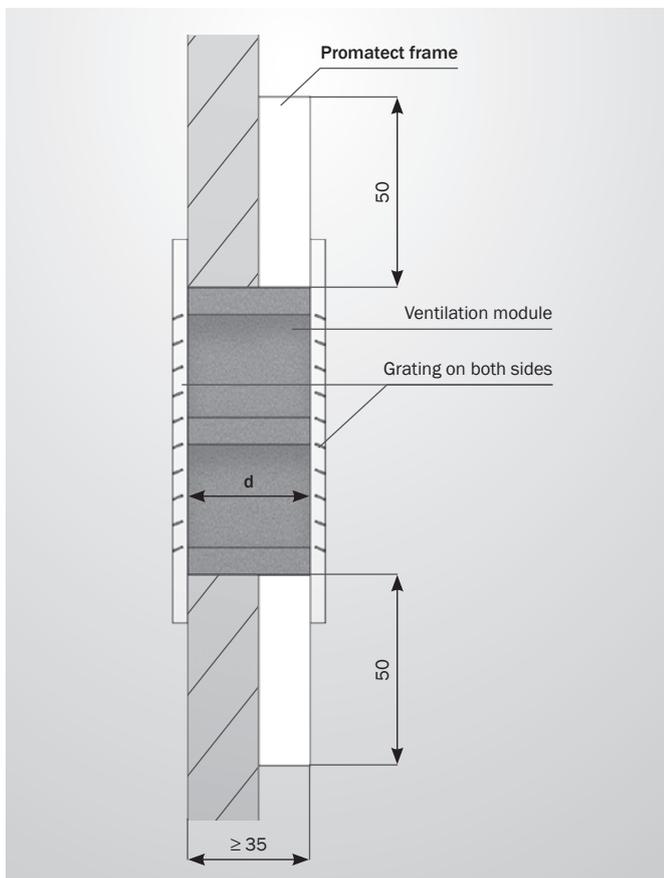
## Classified installation shafts and ducts F30



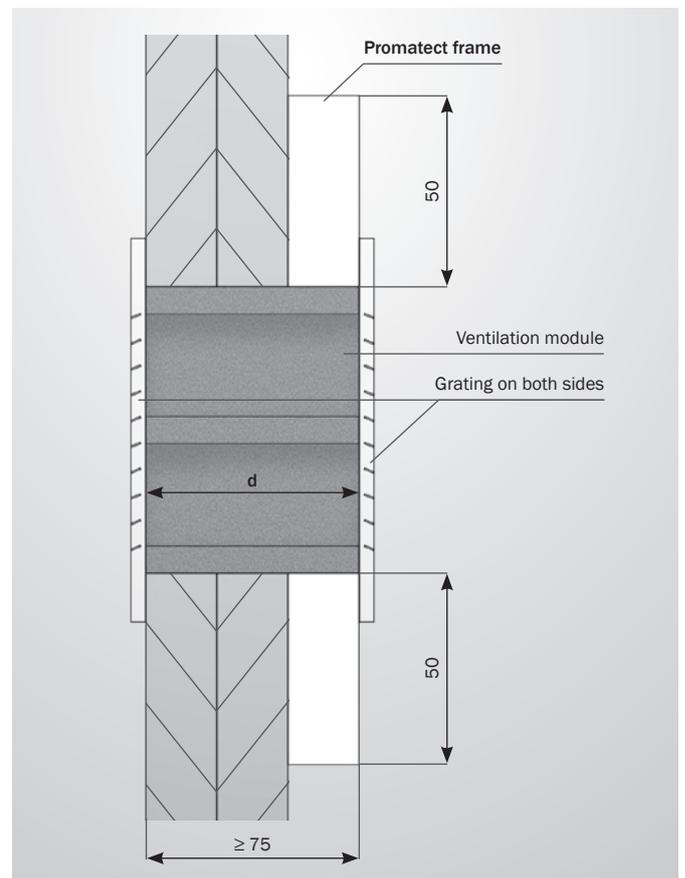
## Classified installation shafts and ducts F90 - F120



## Light partition wall F30 or Installation shafts and ducts



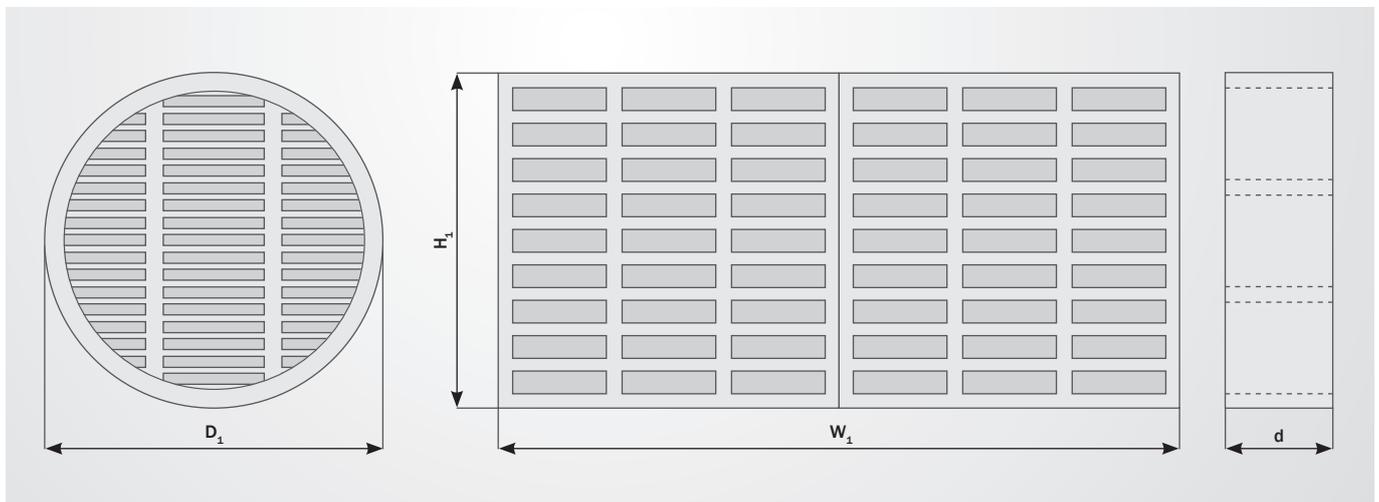
## Light partition wall F90 - F120 or Installation shafts and ducts



# Dimensions

## Dimensions

Fire resistance class / installation example		Ventilation module thickness (d) in mm
F30	Light partition walls, shaft walls, F30 solid walls from brickwork, aerated concrete and concrete, utility shafts and ducts	35
F90	Solid walls from brickwork, Aerated concrete and concrete	60
F90 and F120	Light partition walls, shaft walls, Utility shafts and ducts	75
F120	Solid walls from brickwork, Aerated concrete and concrete	75



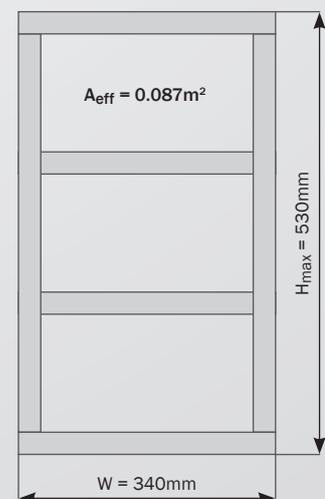
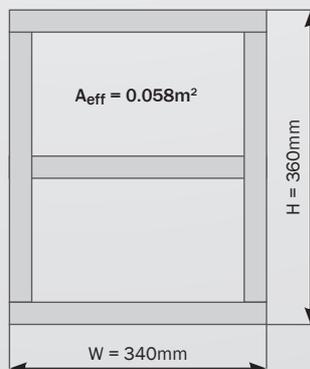
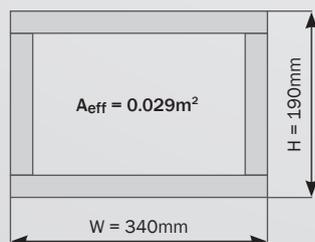
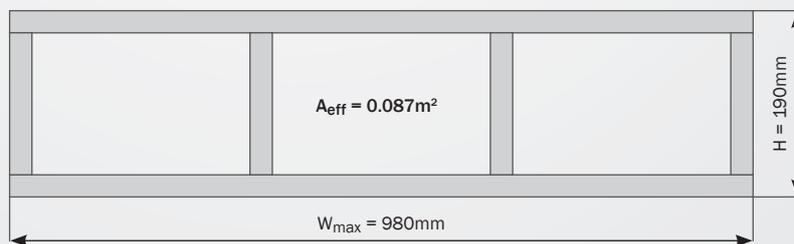
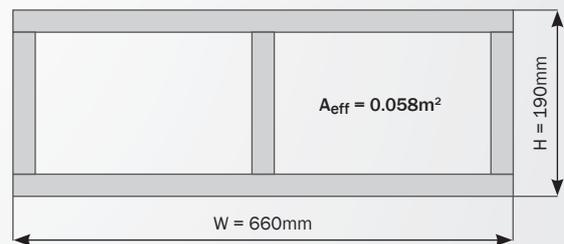
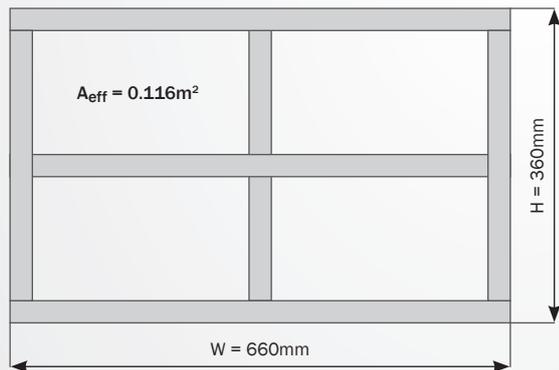
PX-G	Actual size of module			On-site compliance-mandatory max. clearance opening			Slot		Grating dimension Type GF 150 / AJ 150	
	$D_1 \pm 2$	$W_1 \pm 2$	$H_1 \pm 2$	$D_2$	$W_2$	$H_2$	5mm	12.5mm	$B_3$	$H_3$
$\emptyset D$	$D_1 \pm 2$	$W_1 \pm 2$	$H_1 \pm 2$	$D_2$	$W_2$	$H_2$	5mm	12.5mm	$B_3$	$H_3$
100	100	-	-	103	-	-	•		184	184
125	124	-	-	127	-	-	•		184	184
150	150	-	-	153	-	-	•		235	235
160	159	-	-	162	-	-	•		235	235
200	201	-	-	204	-	-		•	286	286
<b>W x H</b>										
100 x 100	-	93	93	-	96	96	•		184	184
200 x 100	-	186	93	-	189	96	•		286	134
150 x 150	-	150	150	-	153	153		•	235	235
200 x 150	-	200	150	-	203	153		•	286	184
300 x 150	-	300	150	-	303	153		•	388	184

## Dimensions of possible combinations

The **max. free surface** of the shaped pieces for building products and for the closing off of flow openings is:

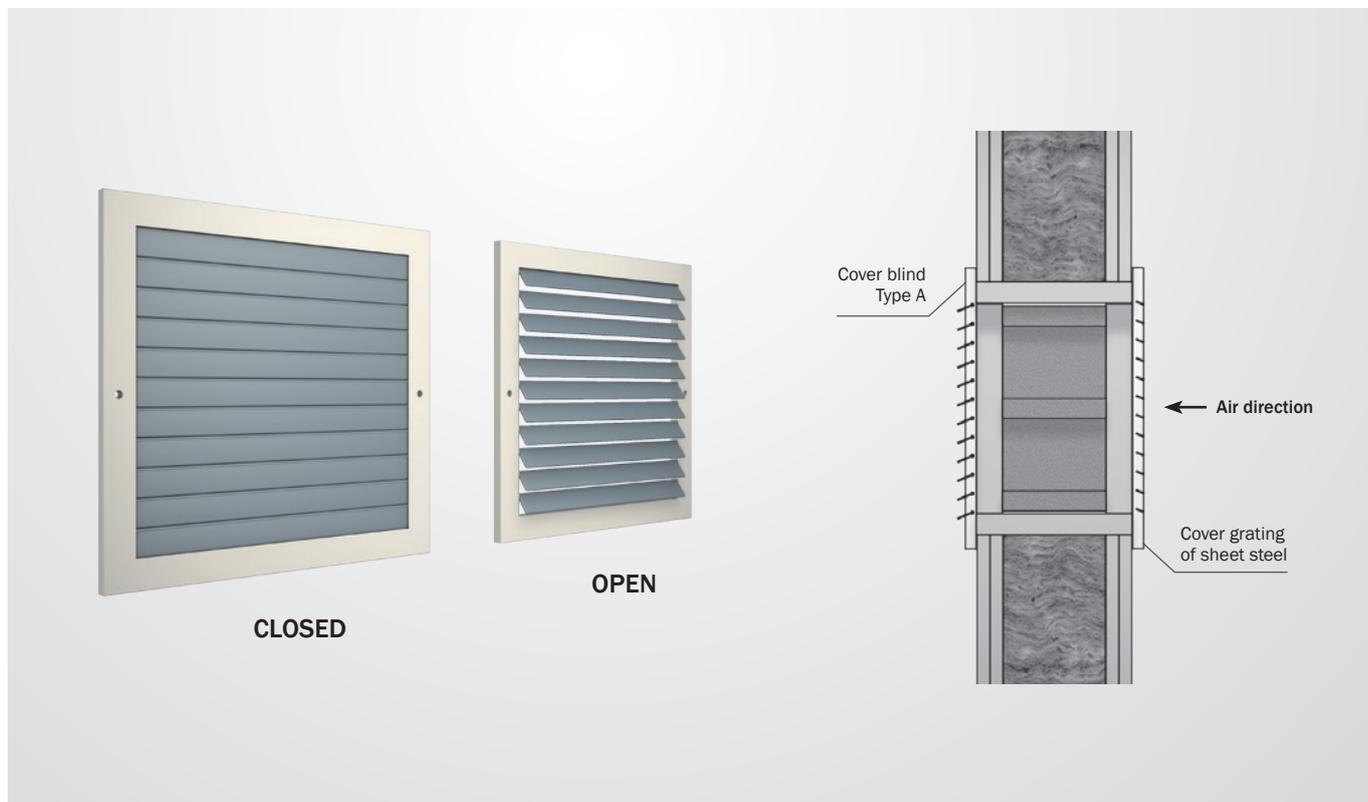
$$A_{\text{eff}} \leq 1,400\text{cm}^2$$

$$W_{\text{max}} = 980\text{mm} \quad H_{\text{max}} = 530\text{mm}$$

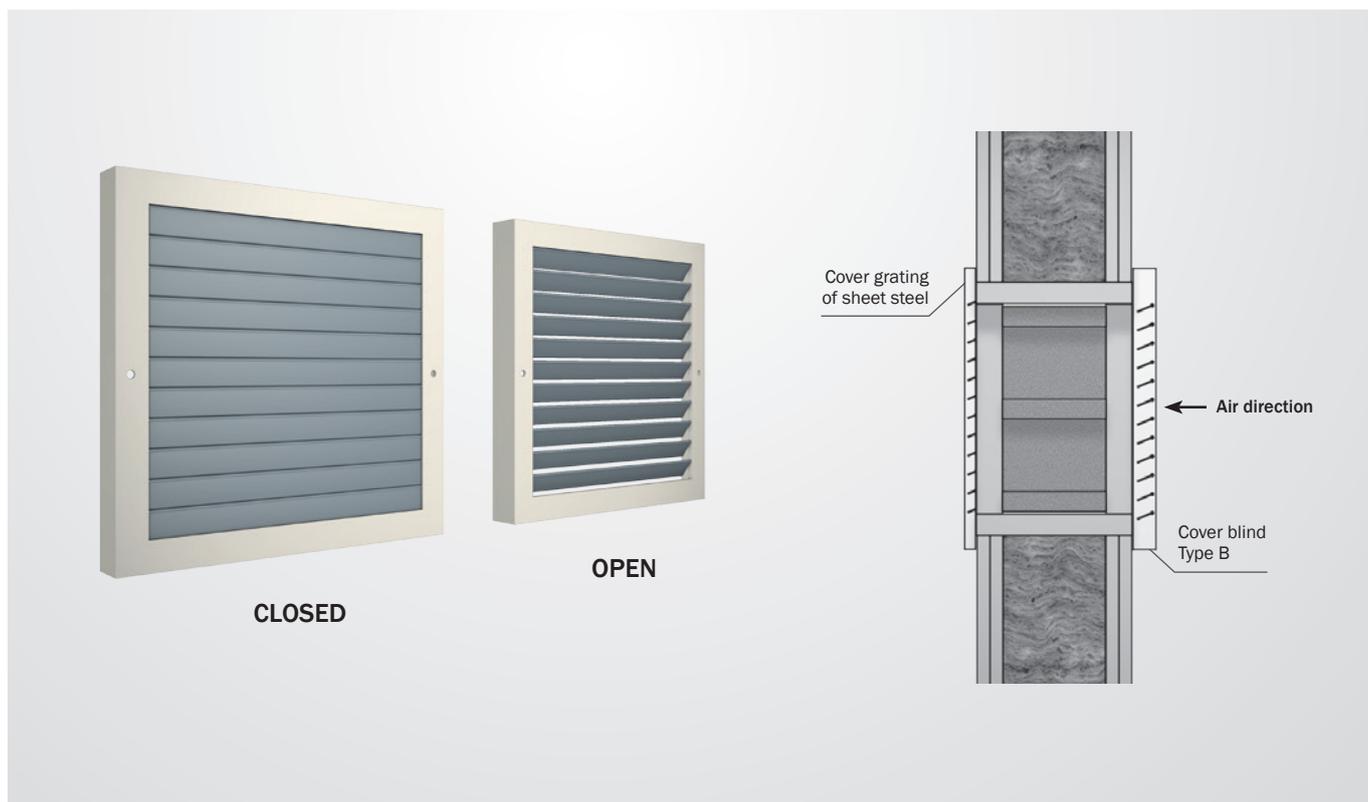


# Cover blind for the decrease of cold-smoke transfer

## Cover blind Type A

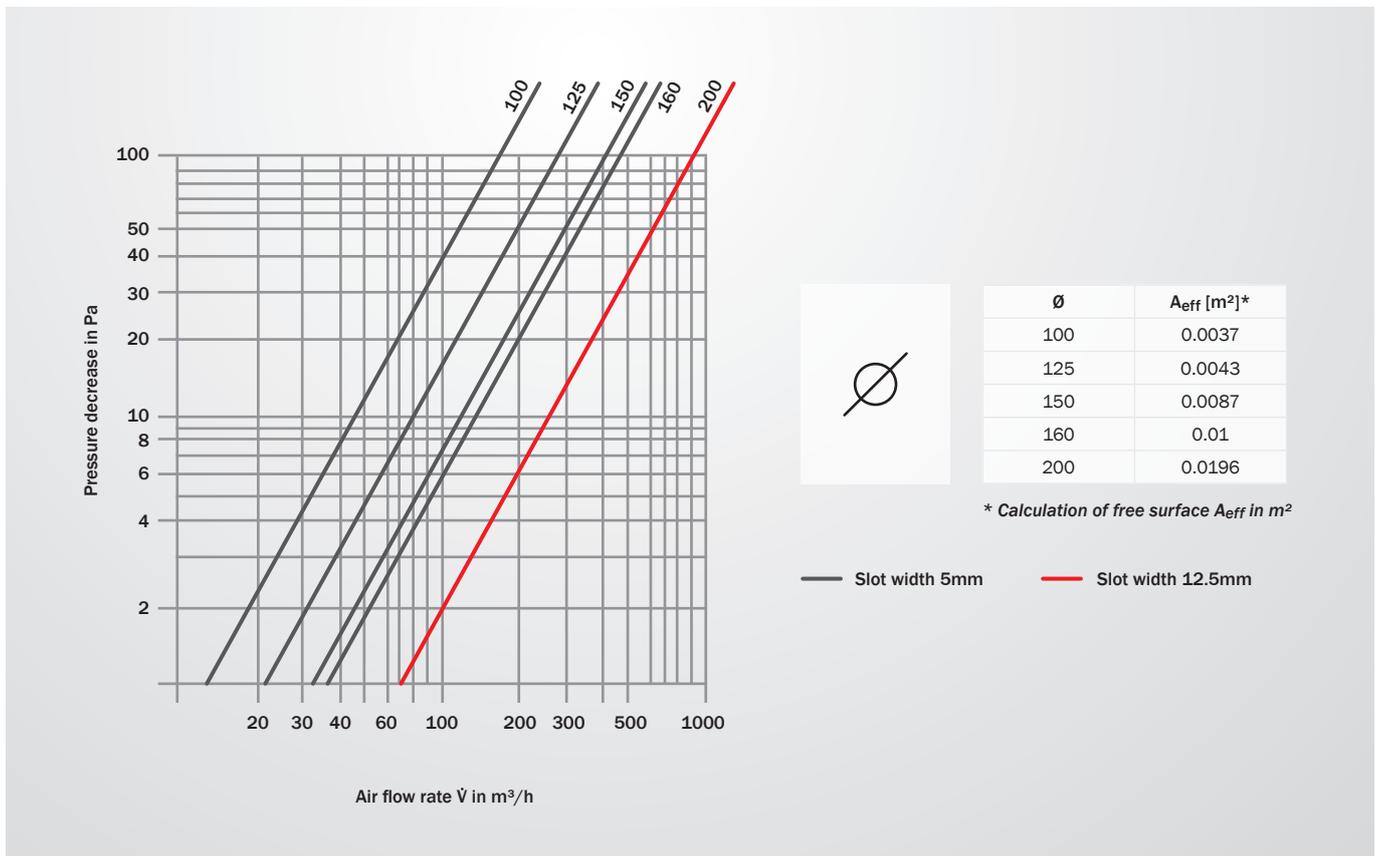
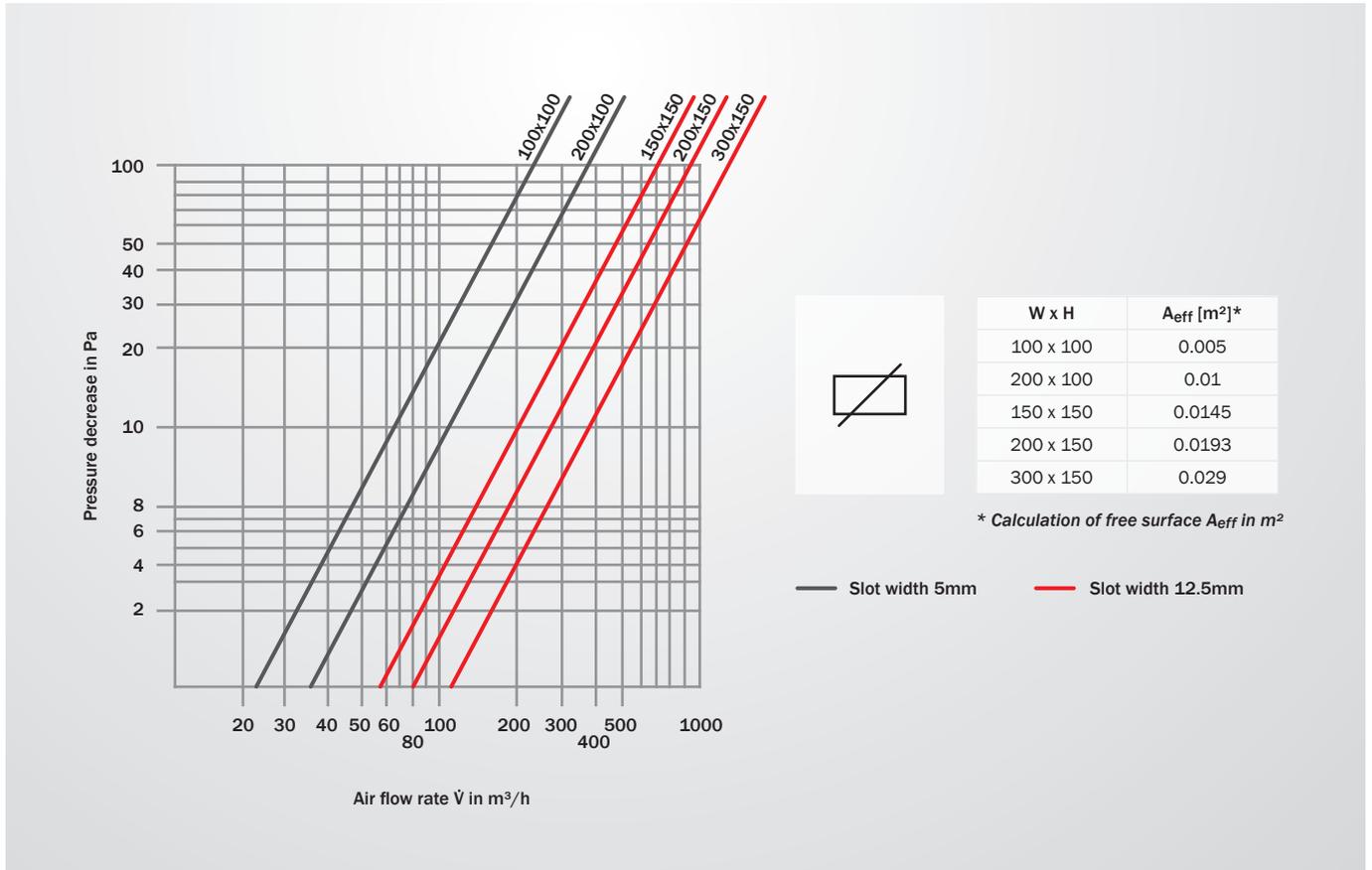


## Cover blind Type B



# Technical data

General construction-supervision-related authorization Z-19.18-1648  
 Fire resistance class F30 - F120 in accordance with DIN 4102 Part 2



# Order example

PX-G / W = 300 / H = 150 / 60  
 (1) (2) (3) (4)

## 1. Series

PX-G ventilation module

## 2. Implementation

**G Standard implementation:** Ventilation module complete with both-sided cover grating of sheet steel, colour of the grating standard in RAL 9010 (pure-white) or alternatively in RAL 7001 (silver grey)

**AJ Special design:** Ventilation module, complete with one-sided cover grating and one-sided cover blind AJ (Version A or B), colour of the grating standard in RAL 9010 (pure-white) or alternatively in RAL 7001 (silver grey); Colour of the cover blind AJ (housing only) standard in RAL 9010 (pure-white) or alternatively in RAL 7001 (silver grey), the louvers remain in natural alum.

## 3. Dimensions

**Rectangular:** 300/150, 200/150 and 200/100

**Quadratic:** 150/150 and 100/100

**Round:** 200, 160, 150, 125 and 100

**Combinations:** 340/360, 340/530, 660/190, 980/190 and 660/360

## 4. Material thickness

35mm, 60mm, 75mm, according to fire resistance class

## Table cover grating one or two-sided

Component	Minimum thickness (mm) of the ventilation modules for the close-off of flow openings for fire resistance duration of		
	120 minutes	90 minutes	30 minutes
Solid wall	** 75mm * -	** 60mm * 75mm	** 35mm * 35mm
Light partition wall or classified installation shafts and ducts	** 75mm * -	** 75mm * 75mm	** 35mm * 35mm

\*\* Implementation with cover grating on both sides or with one-sided cover grating and one-sided cover blind

\* Implementation with one-sided cover grating or one-sided cover blind

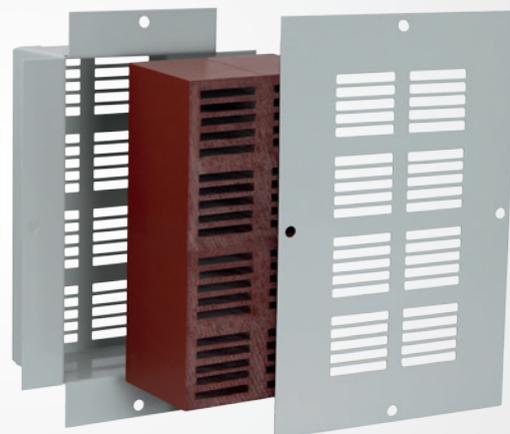
# Tender text

Pos.	Description	Unit	Unit price EUR	Total price EUR
	<p><b>sxif</b>® Ventilation module for the installation F30 and F120 in accordance with DIN 4102 Part 2</p> <p>General construction-supervision-related authorization Z-19.18-1648</p> <p>Installation Type F30: Solid walls from brickwork, aerated concrete or concrete, light partition walls, shaft walls, installation shafts and ducts</p> <ul style="list-style-type: none"> <li>▪ Material thickness min. 35mm</li> </ul> <p>Installation Type F90: Solid walls from brickwork, aerated concrete or concrete</p> <ul style="list-style-type: none"> <li>▪ Material thickness min. 60mm</li> </ul> <p>Installation Type F90: Light partition walls, shaft walls, installation shafts and ducts</p> <ul style="list-style-type: none"> <li>▪ Material thickness min. 75mm</li> </ul> <p>Installation Type F120: Solid walls from brickwork, aerated concrete or concrete, light partition walls, shaft walls, installation shafts and ducts</p> <ul style="list-style-type: none"> <li>▪ Material thickness min. 75mm</li> </ul> <p>Available sizes: DN: 100mm, 125mm, 150mm, 160mm, 200mm</p> <p>W x H: 100 x 100mm, 200 x 100mm, 150 x 150mm, 200 x 150mm, 300 x 150mm</p> <p>Combination sizes: W x H: 980 x 190mm, 660 x 190mm, 660 x 360mm, 340 x 530mm, 340 x 360mm, 340 x 190mm</p> <p>Complete with ventilation grating on both sides from sheet steel or a blind.</p> <p>Standard colour in RAL 9010 or alternatively in RAL 7001</p> <p>Type: <b>PX-G</b> Manufacturing make: <b>Strulik GmbH</b></p>			

# PX-G ventilation module - Application example for shut-down chimneys



- Ventilation module with sheet steel casing and cover grating for installation in shut-down chimneys.
- Dimension: W = 96mm, H = 188mm  
Accessories: Bolts and dowels
- **Manufacturing make:** Strulik  
Type: PXG-Sch
- General construction-supervision-related authorization Z-19.18.-1648



Front grid with mounting frames

A non-operated chimney should be protected against rain and weather influences. Masoned chimneys tend to absorb water. This can lead to damp and construction work damage.

Cause of this is that the chimney is no longer provided with heat internally. As a result of the closed-off connections, no natural air circulation is ensured which enables a drying out.

Moisture penetration and floor damages are the result, which can massively attack the respective building substance.

Also with installation of an exhaust gas line of calorific fireplaces into the existing chimney, sufficient air circulation between exhaust gas line and chimney is to be ensured.

With the PX-G ventilation module for shut-down chimneys, a product was developed for this special case of application.

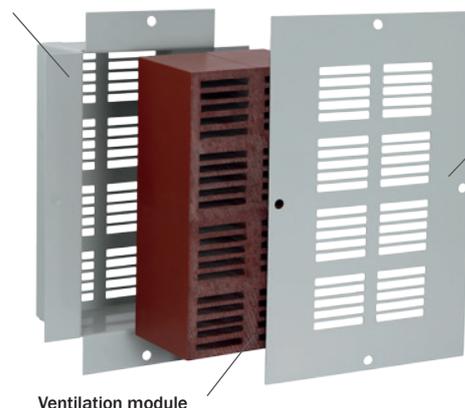
The PX-G ventilation module for shutdown chimneys is cast directly intumescent Proxit raw material.

In case of fire, the PX-G ventilation module for shut-down chimneys foams rapidly and closes the fire section (chimney) off completely.

This foaming is due to an internal chemical reaction, which is caused by heat and not by any mechanical action or other procedure.

With the matching mounting frame of powder-coated sheet steel, a long-lived equipment option was selected. Around the mounting frame is located a further foaming unit, which closes off sealed the maximum surrounding slot of 2.5mm in case of fire.

Installation frame of steel

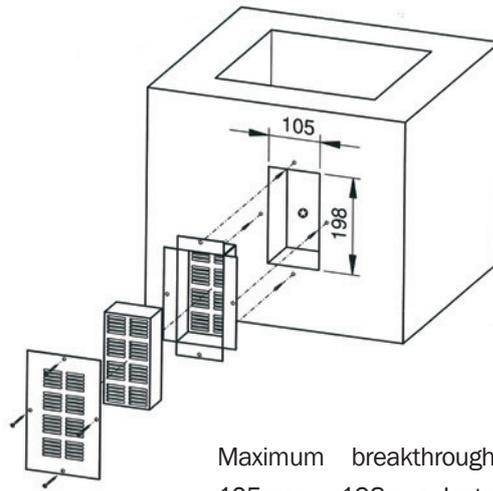


Front grating of sheet steel, painted, RAL 7035 (further RAL colours possible on request, subject to additional price)

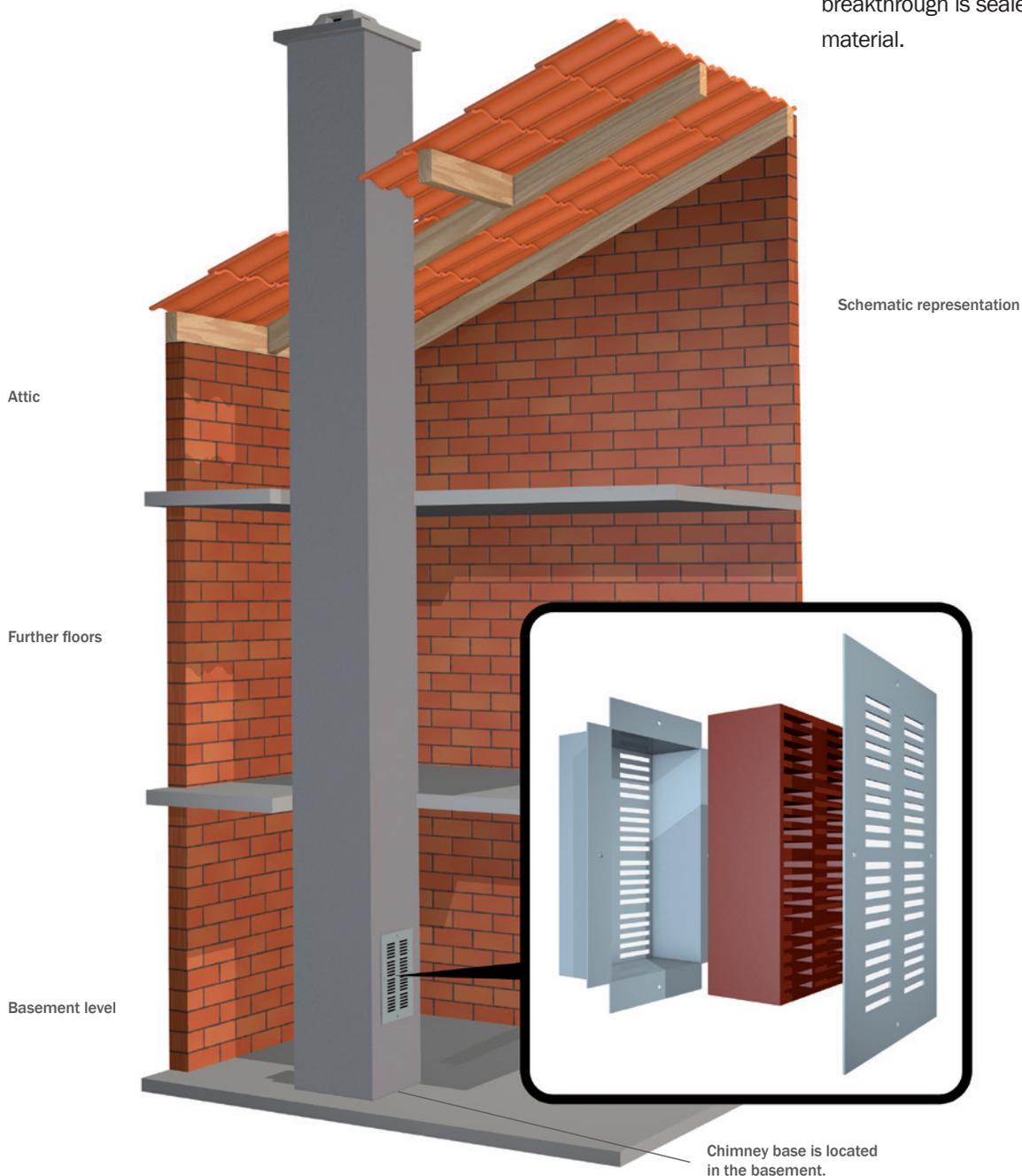
Ventilation module

Due to the selected construction size of 96mm x 188mm, the PX-G ventilation module for shut-down chimneys is predestined for already existing openings (e.g. cleaning opening or vent opening), in order to place it near the chimney base without any greater plastering and wall working outlay. With a maximum breakthrough dimension of 105mm x 198mm, a dry installation (without mortar) further facilitates installation.

The PX-G ventilation module for shut-down chimneys is supplied with bolts and dowels.



Maximum breakthrough dimension 105mm x 198mm. Installation frame is not mortared in. The intermediate space between installation frame and breakthrough is sealed by intumescent material.



# Agreement confirmation

## Building product(s) for the close-off of flow openings Type: PX-G in fire-resistance capable components

Name and address of the company which has installed the building product for the close-off of an overflow opening / the building products for the close-off of flow openings (subject of certification):

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**Construction project:**

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**Date of installation:**

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It is herewith confirmed that the subject of certification / the subjects of certification, with regard to all details, was/were installed professionally and subject to compliance with all stipulations of the general construction-supervision authorization no.: Z-19.18- \_\_\_\_\_ of \_\_\_\_\_ (and, as appropriate, the determinations of the change and extension decision \_\_\_\_\_).

Location, date

company, signature

This certificate is to be issued to the builder for possibly necessary forwarding to the responsible building supervisory authorities.



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## Enclosure 4

to the general construction-supervision-related  
authorization

No Z-19.18-1648

(dated 20.11.2014)

## Stammhaus

### Strulik GmbH

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## Standorte – Vertrieb



**Hinweis:** Alle Kontaktdaten unserer Vertriebsmitarbeiter finden Sie unter [www.strulik.com/nationaler-vertrieb.html](http://www.strulik.com/nationaler-vertrieb.html)

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