



Incorporating



Fire dampers

Series IFBM
Intumescent fire dampers

- Up to 120 minute integrity
- Suitable for vertical installations in plasterboard walls, ducting and timber fire doors
- Approximately 60% free area
- Low maintenance
- Replace the previous IFB60 intumescent fire damper



Series IFBM

Series IFBM Intumescent fire dampers are suitable for installation in fire doors, plasterboard walls and ductwork (vertical installations only), with fire ratings up to 120 minutes (see overleaf for full details).

As passive devices, during normal operation IFBMs have a free area of approximately 60%. Upon exposure to elevated temperatures, they expand quickly to fill the aperture into which they have been installed, creating a single, incombustible mass. This prevents the spread of fire and hot smoke through the aperture.

With no moving parts and a smooth plastic outer skin, IFBM's require no maintenance beyond a periodic wipe down with a damp cloth.

Available in square/rectangular and circular sizes.



Design features

Material	Intumescent core Black plastic outer skin
Sizes	See overleaf
Depth	38mm
Free area	Approx 60%

Quality assurance

HVC Supplies (Stourbridge) Ltd is an ISO 9001 certified company.



Assessed to ISO 9001
Cert/Ref No. 1186

Certification and sizes

The fire rating of Series IFBM intumescent fire dampers is dependent on its size and installation location.

Sample units have been tested to the below standards:

- BS 476-20:1987
Flexible (plasterboard) walls and ducting, offering up to 120 minutes of fire protection.
- BS EN 1634-1:2014
Timber doors, offering up to 60 minutes of fire protection.

Please pay special attention to the tables below detailing the fire rating in minutes of each size when installed in flexible walls or ducting.

When installed into a timber door the maximum fire rating is 60 minutes.

Square/rectangular nominal sizes

	75	↔	W						
			500	550	600	650	700	750	
H	75		120	120	120	120	120	120	120
	↓		120	120	120	120	120	120	
	500	120	120	120	120	120	120	60	
	550	120	120	120	120	120	60	60	
	600	120	120	120	120	60	60	60	
	650	120	120	120	60	N/A	N/A	N/A	
	700	120	120	60	60	N/A	N/A	N/A	
750	120	120	60	60	60	N/A	N/A		

Circular nominal sizes

Diameter					
100	125	150	200	250	300
120	120	120	120	120	120
→	350	400	450	500	600
	120	120	120	120	120

Both square/rectangular and circular units are available in 1mm increments from the smallest size shown to the largest.

Installation

Series IFBM intumescent fire dampers should be installed in the same manner in which they were tested to ensure correct operation in the event of a fire.

Installation instructions are available via:

www.h-v-c.com/installations

Cover grilles

Intumescent fire dampers are frequently used in fire doors.

In these situations a cover grille is desirable on both sides of the door to hide the damper and the cut out itself.

HVC manufacture the NV4 surface mounted non-vision grille specifically for use in these installations.



Finish

Black plastic (standard)

Other colours available on request



Ordering codes

Example

1 - 500 x 500 - IFBM

Codes

- | | | | |
|----|------------------|------------------|---|
| 1) | Quantity | | |
| 2) | Size (mm) | (Width x height) | Nominal size |
| 3) | Series | IFBM | 60 minute rated intumescent fire damper |

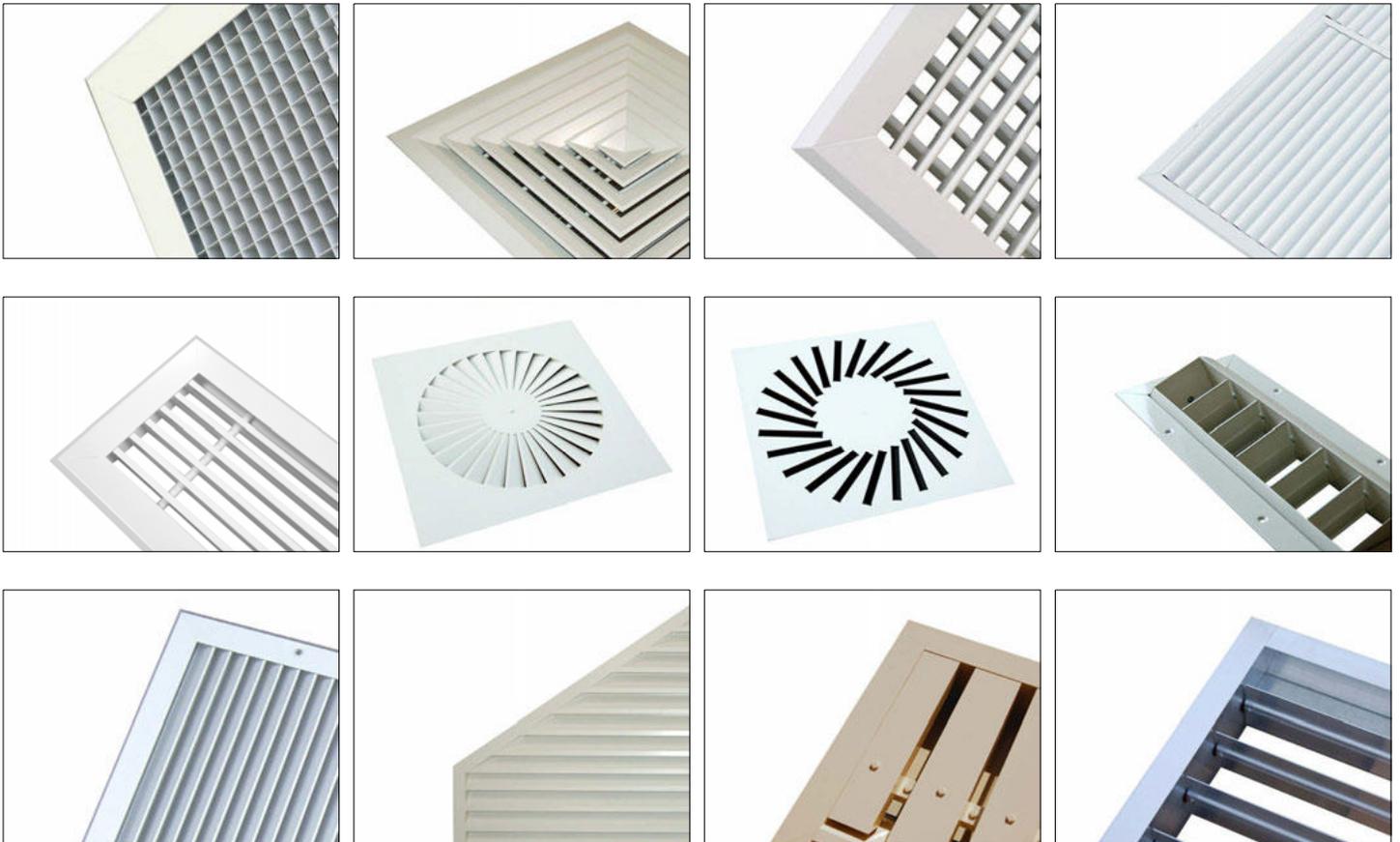
Sizes are taken to be nominal, and will have a tolerance of 2mm removed to aid fitting.

HVC & NCA products

HVC offer the significant advantage of manufacturing both in duct and duct terminal equipment, making us a one stop shop for all your HVAC needs.

The products shown below are a selection, not an exhaustive list. Go to www.h-v-c.com for details on all HVC and NCA products.

HVC: Grilles, Diffusers, Louvres and Volume Control Dampers



NCA: Fire and Volume Control Dampers





Assessed to ISO 9001
Cert/Ref No. 1186

HVC Supplies (Stourbridge) Ltd
Jason House
Amblecote
West Midlands
DY8 4EY
United Kingdom

Tel: +44 (0)1384 376555
Fax: +44 (0)1384 392555

sales@h-v-c.com

All details within this brochure are correct at time of publication. However HVC's policy is one of continual product development. The right is reserved to alter any details published in this brochure without any prior notice. Any changes will appear on www.h-v-c.com as soon as is practically possible.

All information in this brochure is designed to be used for informative purposes only. HVC will not be legally bound by anything contained within this publication, or any other information distributed.

All references to companies not part of the HVC group of companies are used with the permission of their respective owners.

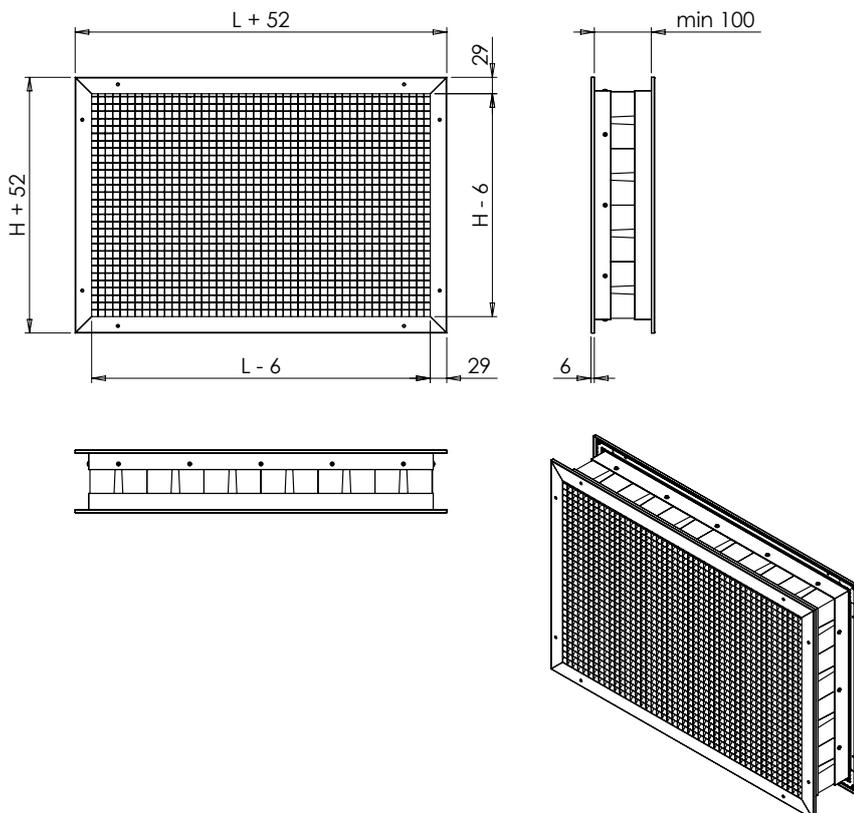
PREZZI - PRICES

ALTEZZA HEIGHT	BASE mm							
	100	200	300	400	500	600	700	800
mm	€	€	€	€	€	€	€	€
200								
300								
400								
500								
600								

TABELLA PRESTAZIONE - PERFORMANCE TABLE

Dimensioni - Sizes	Pressione - Pressure	Integrità - Integrity	Isolamento termico Thermal insulation
100 x 100 mm	-	E 120	I 120
400 x 400 mm	-	E 120	I 120
800 x 600 mm	-	E 60	I 60
100 x 100 mm	+	E 90	I 60
400 x 400 mm	+	E 120	I 60
800 x 600 mm	+	E 120	I 90

DIMENSIONI - DIMENSION



CARATTERISTICHE:

Griglia tagliafuoco adatta per installazione interna. Certificata secondo EN 1364-5:2017 e EN 1363-1:2012. Griglia ad ampia superficie di passaggio aria.

COSTRUZIONE:

Esecuzione con doppia griglia esterna a maglia quadra in alluminio con cornice ed elemento interno intumescente e termo-espandente.

SUPPORTO MINIMO DI INSTALLAZIONE:

Muratura in calcestruzzo aerato spessore 100 mm e densità 550 kg/mc.

CHARACTERISTICS:

Fire grille suitable for indoor installation. Certified according to EN 1364-5:2017 and EN 1363-1: 2012. Large free area for air passage.

CONSTRUCTION:

Execution with double egg crate external grille in aluminum with frame and internal element intumescent and thermo-expanding.

MINIMUM INSTALLATION SUPPORT:

Low density rigid wall made of aerated concrete of 100 mm thick and density of 550 kg/mc.

Installation guide

Series IFBM intumescent fire dampers

Upon receipt of unit - Before signing for the delivery

- Fluorescent yellow stickers are attached to every package we despatch detailing receipt instructions and what to do if your goods are damaged.
- The instructions on this must be followed or HVC will not be able to assist with any claims for damage.

Prior to installation

- If damper is to be stored on site, ensure it is stored in a clean and dry environment.
- Immediately prior to fitment, remove all packaging from the unit.

Installation

- While not subject to the same level of regulation as mechanical fire dampers, intumescent fire dampers are still safety devices and should still be installed as per the manufacturer's instructions.
- Fire damper installation should only be carried out by competent persons. As safety devices, correct operation is reliant on correct installation.

Operation

- Intumescent fire dampers are designed to operate without any command from an operator or building maintenance system.
- Once exposed to elevated temperatures/flames resulting in the damper intumescenting to any extent, the damper must be replaced.

Drywall partition installation

Installation procedure

- Dampers are manufactured 2mm undersize; for example a 200mm x 200mm nominal unit would have an actual size of 198mm x 198mm.
- Construct studwork aperture so that the space inside the steel channels is 60mm larger than the nominal size of the damper.
e.g. Damper nominal 200mm x 200mm, studwork aperture size 260mm x 260mm.
- Clad both sides of studwork with two layers of plasterboard.
- Line aperture with two layers of plasterboard.
- Offer the damper into the aperture ensuring it is centrally located within the wall thickness, and mechanically fix it into position by screwing through the predrilled holes in the side components.
- Seal the perimeter between the damper and the wall on both sides using 'Pyromas A' intumescent sealant or an equivalent BS476-20:1987 certified intumescent sealant, rated for a minimum of two hours. Wipe away any excess sealant with a clean cloth.
- Finish off the lined aperture by face fitting a single layer of plasterboard around all four sides of the aperture on both sides, forming a 'picture frame'. This needs to be 50mm in width and prohibits fire ingress into the joints of the lined aperture.
- If decorative cover grilles (e.g. HVC Series NV4 non-vision grille) are to be used these can now be fitted, ensuring they are mounted centrally over the damper. Please note that due to the detail of the installation, the cover grilles may need to be oversized to hide the joints of the board.

Masonry wall installation

Installation procedure

- Dampers are manufactured 2mm undersize; for example a 200mm x 200mm nominal unit would have an actual size of 198mm x 198mm.
- Cut the aperture into the wall, ensuring the maximum gap between the damper and inside of the aperture is 3mm (i.e. 6mm difference between damper overall and aperture total). Ensure any dust and loose material is removed.
- Offer the damper into the aperture ensuring it is centrally located within the wall thickness.
- Mechanically fix the damper into position by screwing through the predrilled holes in the side components into the sidewall of the aperture.
- Seal the perimeter between the damper and the wall on both sides using 'Pyromas A' intumescent sealant or an equivalent BS476-20:1987 certified intumescent sealant, rated for a minimum of two hours. Wipe away any excess sealant with a clean cloth.
- If decorative cover grilles (e.g. HVC Series NV4 non-vision grille) are to be used these can now be fitted, ensuring they are mounted centrally over the damper.

Fire door installation

Prior to installation

- Check that the cutting of the aperture and fitting of the damper will not affect the integrity of the door. If in doubt, consult the fire door manufacturer to ascertain suitability, maximum permissible sizes and locations.

Installation procedure

- Dampers are manufactured 2mm undersize; for example a 200mm x 200mm nominal unit would have an actual size of 198mm x 198mm.
- Cut the aperture into the wall, ensuring the maximum gap between the damper and inside of the aperture is 3mm (i.e. 6mm difference between damper overall and aperture total). Ensure any dust and loose material is removed.
- Offer the damper into the aperture ensuring it is centrally located within the door thickness.
- Mechanically fix the damper into position by screwing through the predrilled holes in the side components into the sidewall of the aperture.
- Seal the perimeter between the damper and the wall on both sides using 'Pyromas A' intumescent sealant or an equivalent BS476-20:1987 certified intumescent sealant, rated for a minimum of two hours. Wipe away any excess sealant with a clean cloth.
- If decorative cover grilles (e.g. HVC Series NV4 non-vision grille) are to be used these can now be fitted, ensuring they are mounted centrally over the damper.