

## 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.