

# Installation guide

## Series 100 fire damper c/w plate frame

### Upon receipt of unit - Before signing for the delivery

- Flourescent 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. Take particular care inspecting the inside of the unit for any packing materials which may disrupt damper operation.

### Installation

- Fire damper installation should only be carried out by competent persons. As life safety devices, correct operation is reliant on correct installation.
- Damper edges can be sharp. PPE should be used when handling.
- Larger dampers can be very heavy, ensure suitable lifting methods are used to help prevent injury.
- There should be a minimum of 200mm of supporting construction between fire dampers installed in separate ducts.

- There should be a minimum of 75mm of supporting construction between the fire damper and any adjacent construction element, e.g. a corner or adjacent wall.
- Remove the safety cable tie around the fusible link. Failure to remove this will render the damper inoperable.

### Operation

- Fusible link fire dampers are designed to operate without any command from an operator or building maintenance system (unless equipped with an electromagnet or solenoid).
- Fusible links will release at the temperature embossed onto the link body.
- The use of electromagnets and solenoids enables the damper to be operated remotely, even when the damper itself is not being exposed to elevated temperatures.
- The activation command may originate from an automated command or a human operator through the building maintenance system.
- Once the damper has been shut, it can only be opened by hand.
- Once exposed to elevated temperatures/flames resulting in the damper closing, the damper must be replaced.

### Spares

- A spare amount of replacement fusible links should be kept on site.

### Installation FD-2VP Drywall partition installation

BS EN 13501-3:2005 + A1:2009

**Classification report numbers:**  
Galvanised units - P103718-1002/3  
Stainless units - P103718-1002B/2  
Multiple units - P103718-1002/2

#### Installation procedure

- Construct studwork aperture so that the space inside the steel channels is 45mm larger than the overall size of the damper case. e.g. Damper case 500mm x 200mm, studwork aperture size 545mm x 245mm.
- Clad one side of studwork with two layers of plasterboard.
- Infill wall cavities with mineral wool.
- Clad second side of studwork with two layers of plasterboard.
- Line aperture with one layer of plasterboard.
- Offer damper into aperture and using 7.5mm thick spacers if necessary to ensure correct positioning, affix damper into partition by screwing through the plate frame and plasterboard into the steel studwork.
- Screws to be 10mm in from outer edge of plate frame, and pitch to be not more than 125mm. Ensure the screws gain a positive fix on the steelwork.

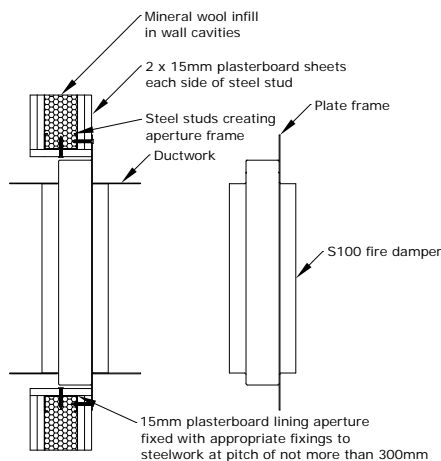
#### Notes

- The void at the non-access side of the damper does not require filling, nor a pattress.
- No lugs are required when fitting this CE marked fire damper.
- Multiple assemblies are subject to the same installation.
- Air can flow through the damper in either direction.

#### Material specifications

**Plasterboard:** 15mm thick and 30 minute fire rated  
e.g. GTEC Fire Board, Knauf Fireshield, Gyproc Fireline

**Mineral wool:** Rockwool RW5, Knauf RS100 or equivalent



### Installation FD-2VM Masonry wall installation

BS EN 13501-3:2005 + A1:2009

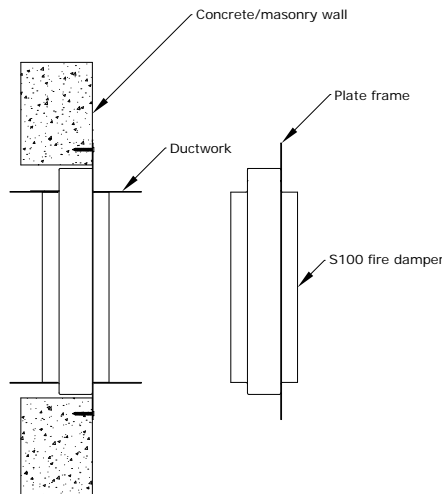
**Classification report numbers:**  
Galvanised units - P103718-1002/3  
Stainless units - P103718-1002B/2  
Multiple units - P103718-1002/2

#### Installation procedure

- Construct wall so that the aperture for the fire damper is 15mm larger than overall size of the damper case. e.g. Damper case 500mm x 200mm, wall aperture size 515mm x 215mm.
- Offer damper into aperture and using 7.5mm thick spacers if necessary to ensure correct positioning, affix damper into partition by screwing through the plate frame into the wall.
- Screws to be 10mm in from outer edge of plate frame, and pitch to be not more than 125mm. Ensure the screws gain a positive fix on the concrete/masonry.

#### Notes

- The void at the non-access side of the dampers does not require filling, nor a pattress.
- No lugs are required when fitting this CE marked fire damper.
- Multiple assemblies are subject to the same installation.
- Air can flow through the damper in either direction.



### Installation FD-2HC Concrete floor installation

BS EN 13501-3:2005 + A1:2009

**Classification report numbers:**  
P101275-1001/1

#### Installation procedure

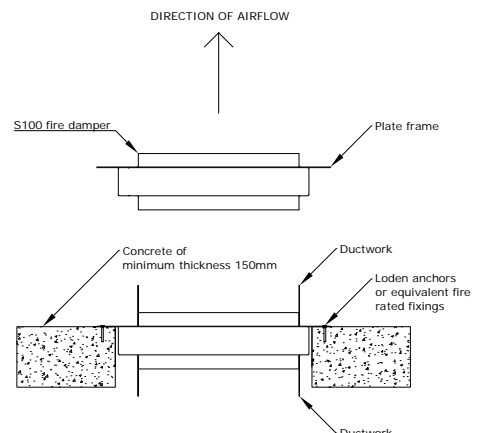
- Construct floor so that the aperture for the fire damper is 15mm larger than overall size of damper case. e.g. Damper case 500mm x 200mm, floor aperture size 515mm x 215mm.
- Offer damper into aperture and using 7.5mm thick spacers if necessary to ensure correct positioning, affix damper into partition using fixings as detailed below, through the plate frame into the floor.
- Fixings to be 10mm in from outer edge of plate frame, and pitch to be not more than 125mm. Ensure the fixings gain a positive fix on the concrete/masonry.

#### Notes

- The void at the non-access side of the dampers does not require filling, nor a pattress.
- Air must flow towards the lock guides - See arrow below.

#### Material specifications

**Floor:** 150mm (minimum) thick concrete.  
**Fixings:** Loden anchors, 5mm diameter x 50mm long  
Equivalent fixing acceptable



### IMPORTANT NOTE

It is a legal requirement that fire dampers are installed in the way instructed by the manufacturer.  
Any other installation is untested and therefore illegal.

Responsibility for ensuring correct installation lies with all parties in the supply chain.

## Installation Declaration for Series 100 Fire Dampers

- It is the installer's responsibility to ensure the installation is done as per the installation method provided.
- This document must be completed when installing any HVC Fire Damper.
- By signing this document you are declaring that the correct installation method has been followed.

Check:	Yes/No
Is the installed damper the correct type?	
Is the damper installed correctly?	
Has the damper been correctly identified?	
Has the correct orientation been used?	
Are there sufficient access routes installed?	
Has a check of the damper been carried out for: <ul style="list-style-type: none"> <li>• Internal cleanliness?</li> <li>• Damage?</li> <li>• Obstructing debris?</li> </ul>	
Has a drop test been carried out?	
At the time of handover is the fire barrier and penetration seal complete?	

<b>Damper unique system I.D. (If applicable):</b>	
<b>Damper location:</b>	
<b>Installation address:</b>	
<b>Damper type: e.g. S100BGP</b>	
<b>Link rated temperature:</b>	
<b>Notes:</b>	

<b>Installer's name:</b>	
<b>Company name:</b>	
<b>Company address:</b>	
<b>Company telephone number:</b>	

I hereby confirm that the damper detailed above has been installed in accordance with HVC Supplies (Stourbridge) Ltd's tested installation method, and has been tested as above.

**Installer's signature:**

**Date:**