

## Damper - Vertical in blockwork wall [2] (SS +IF)

### Health and safety

This process must be undertaken by competent persons. More than one person may be required to ensure the safe handling of large dampers and other materials.

Use must be made of access equipment to ensure unsafe practices are not used to approach walls or difficult access areas.

Standard site PPE should be used (minimum steel toe cap boots, hard hat); together with any protective eyewear, gloves and masks, when drilling or cutting is being undertaken. The latter should also be used when handling the wall construction materials, as defined by the material suppliers. If loud equipment is being used, hearing protection should be used.

All waste materials should be collected and disposed of as defined by the relevant supplier.

### Damper installation method

- 1) Measure the positions of the building ties on the HEVAC frame
- 2) Mark up the inside edges of the hole in the wall to give positions that match to the building ties. Drill into the wall and fit stud anchors (or similar) – leaving them protruding into the opening
- 3) Turn out the building ties on the damper and offer the damper into position, supporting from underneath with a block of wood or board, which will need to be removed when the mortar is in position.
- 4) Using a steel wire, wrap this round the building ties and the stud anchors to hold the damper in position.  
(Note: This will also maintain the quality of the link between the damper, the infill mortar and the wall should a fire occur)
- 5) Add mortar from both sides of the damper and infill to the duct spigot, making sure that there is room to connect any ductwork etc. Or wait until the ductwork has been fitted before completing the infill. Take care not to infill past the line on the interface shroud.

### Actuator fitting

- 1) The control mode/actuator should then be fitted using the instructions supplied with it.
- 2) Using the supplied drilling template, drill into the ductwork and fit the Electrical Thermal Release (ETR) into the duct (as good practice, this should be towards the top of the duct)
- 3) A special feature of the Actionair SmokeShield modes is that they may be adjusted from pointing straight out along the duct (standard configuration) through 90° to point either up or down if required.
- 4) The mode should be wired into the system using the site wiring detail, plus the details shown on the label.

Note: If the mode/actuator fitting instructions are missing, please contact the Actionair sales office for a new copy.

### Commissioning

The procedure detailed under periodic maintenance should be followed

### Periodic maintenance

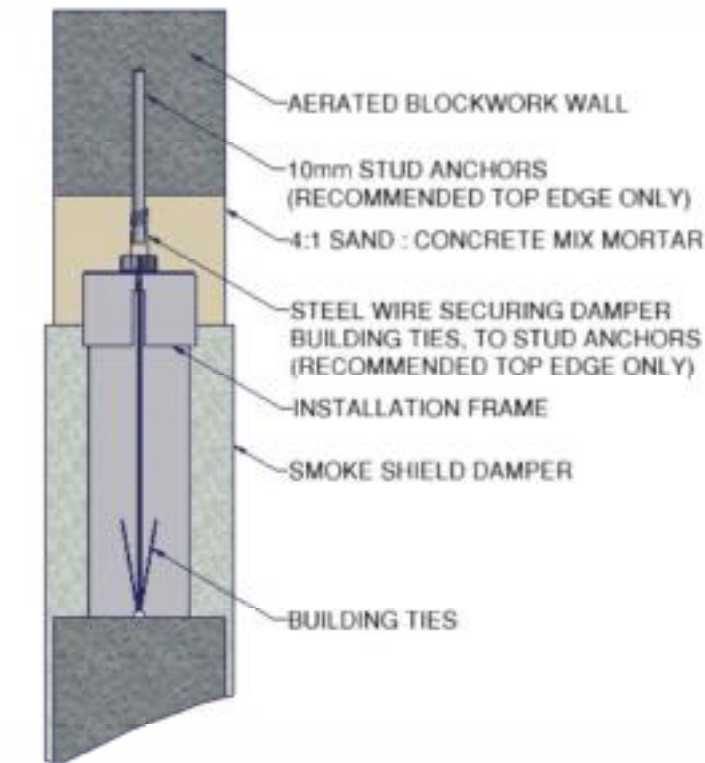
#### As detailed in BS 5588-12

- 1) For dampers this is at least once per year for units with spring operation.
- 2) Units operating in dust laden atmospheres, should be checked more often to suit the severity of the system
- 3) Units associated with systems may be required to be checked, as part of the system, as often as once per week or month to ensure ongoing confidence in the life safety system. This may be seen as analogous to fire alarm systems.

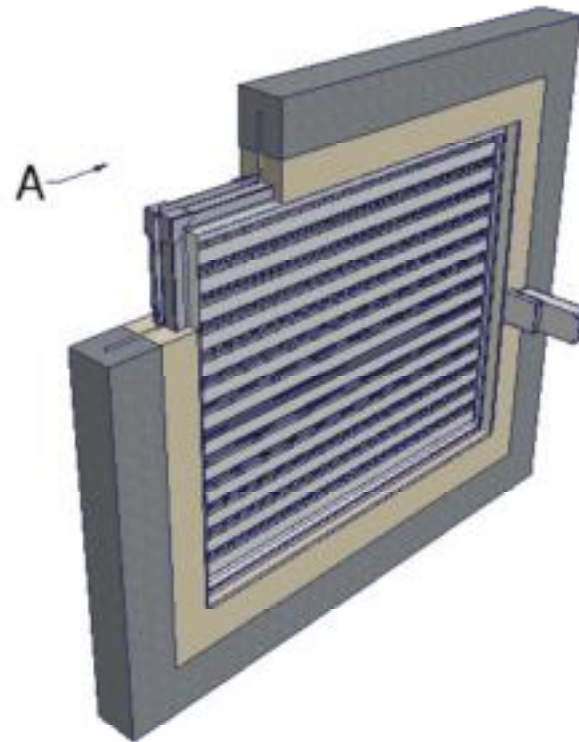
### Procedure

- 1) The units should be carefully inspected and cleaned of dust and debris
- 2) The units should then be lubricated with a light oil, by wiping this over all the surfaces
- 3) The mode should be operated to ensure that it is moving the blades from open to closed and the reverse.
- 4) If the microswitches (in the mode) are being used, it should be checked that they are actually indicating that the blades are open or closed. This is done by running a cycle and checking both the blades (open and closed) and the indication that the microswitches are feeding back to.

# actionair INSTALLATION DETAIL



**VIEW A**  
(ALL ROUND DETAIL)



IF YOUR PROPOSED INSTALLATION DETAIL DIFFERS FROM THAT SHOWN, PLEASE DISCUSS THIS WITH THE BUILDING CONTROL AUTHORITY (BCA) USING THIS DOCUMENT AND THE ASSOCIATED FIRE TESTS, ASSESSMENTS AND OTHER DOCUMENTS SHOWN BELOW, SO THE BCA CAN DECIDE WHETHER YOUR PROPOSED METHOD DIFFERS SUFFICIENTLY FOR IT TO BE UNACCEPTABLE TO THEM (THE BCA)

APPLICABLE TEST REPORTS - EN1366-2

**BRE 206672  
(CC225285)**

BSEN13501-3 CLASSIFICATION

<b>E180</b>	<b>ES90</b>	<b>E90S</b>
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VERTICAL APPLICATION  
 SMOKE SHIELD &  
 INSTALLATION FRAME  
 DAMPER SIZE:  
 1000mm (WIDE) X 1000mm (HIGH)