

Actionair Photo Storyboard 3: Damper vertical for enclosure in a drywall partition (+DWF-C)

GENERAL

This method of installation should only be employed with an Actionair damper that has the DWF-C™ installation system. (SmokeShield shown, but applicable to FireShield as well)

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 sections of wall.

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.

EQUIPMENT

Tape measure, pencil, straight edge, square, jigsaw (with fine blade), drill, screwdriver, tin snips, stanley knife, hammer/soft mallet, rasp/surform, float

MATERIALS

Plasterboard grabber screws, various lengths to suit, plasterboard for wall construction, plasterboard joint filler and finish

FIT A TRACK TO THE CEILING

Where the partition will eventually be built, fit a track to the ceiling



SUSPEND THE DAMPER

Suspend the damper from the ceiling using studding (10mm dia.), making sure that the studding is in the centre line of the ceiling track

Note: The damper in the photo has an extended spigot, making it unsymmetrical, hence the support.



FRAME OUT THE DAMPER

Start to build the partition. In the normal way set up the floor track and the vertical studs that are away from the damper. Place a track across the top of the damper, facing it first with a piece of board the same width as the track. This piece of track should extend to the nearest full studs on either side of the damper. You need to cut out round the damper support studding.

Avoiding the damper support cleats, but as close as possible to them, add two studs, again lined with board material to their own width



Add a cross track beneath the damper, again lined with board to its own width, between the two vertical studs.

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This ensures that the damper is surrounded in a fully protected outer wall construction.



Add studs above and below this framed area on the normal 600mm centres to maintain the full wall structure and allow the boards to be fixed successfully

BUILD THE FIRST SIDE OF THE PARTITION

Build up one skin of the partition, bringing it past the boards that line the area around the damper and as close to the damper casing as possible.



Normal jointing methods should be used as described by the partition board manufacturer.

Add the mineral/stone wool insulation, making sure that you fit some mineral wool in the area between the lined vertical studs and the damper



COMPLETE THE SECOND SIDE OF THE PARTITION

Build up the second side of the partition using the normal methods and jointing described by the partition board manufacturer.



SEAL BETWEEN THE DAMPER AND THE PARTITION

Seal around the damper casing at the joint with the partition with lightweight acoustic intumescent sealant (as recommended by the partition board manufacturer)



ADD PATRESS TO BOTH SIDES

Add a patress (150mm wide) to cover the remaining visible damper frame and take this down to the damper spigot. Using the same intumescent sealant seal the partition to the damper spigot



AT THE INTERFACE SHROUD

Fill the small space between the damper and the shroud with mineral/stone wool.



FINISHING

Make good the wall in the normal way.

