

# DWFX™

## DRY WALL FIX Installation System

### DWFX-C

#### Dry Wall Fix – Cleats

For damper fixing prior to wall construction

### DWFX-F

#### Dry Wall Fix – Flange

For damper fixing into existing wall



*action*air

Dampers Controls Fancoils

Ruskin Air Management Limited

[www.ruskinuk.co.uk](http://www.ruskinuk.co.uk)

# DWFX-C

## Dry Wall Fix – Cleats

### Specification

The Actionair DWFX-C installation method is BRE Tested to BS476 pt 20 for 2 hours. (BRE test report 212065).

Suitable for

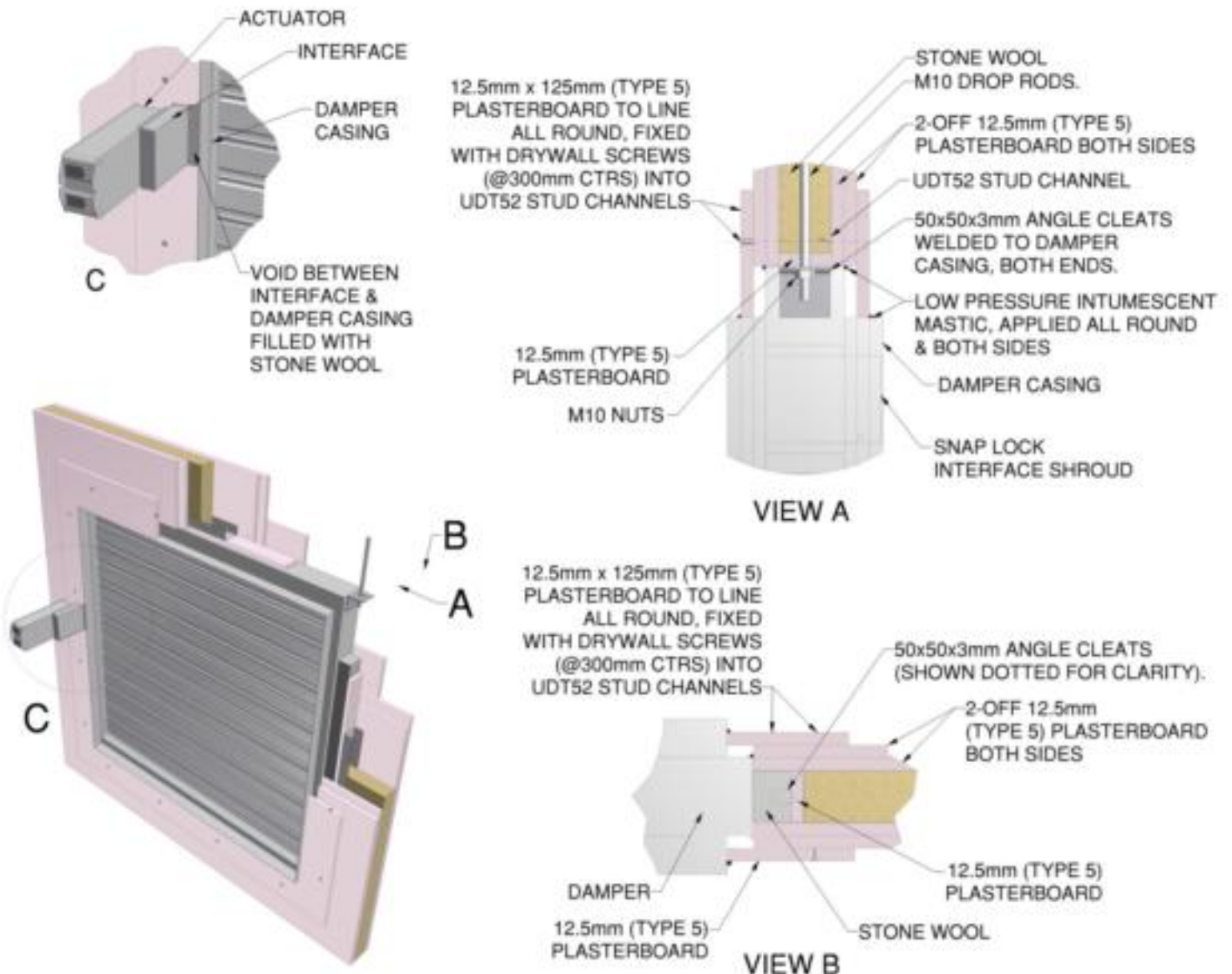
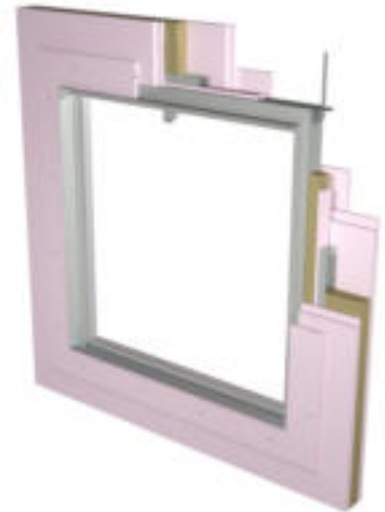
- Actionair Fire/Shield
- Actionair Smoke/Shield
- Actionair Hot/Shield

The Actionair DWFX-C consists of 50mm x 50mm x 3mm steel angle cleats with 14 x 24mm oval slots.

Fully welded to damper casing for drop rod support prior to wall construction.

### Installation Guide

1. Mark centre line of damper on ceiling/floor.
2. Measure cleat hole centres on damper.
3. Mark out position of each drop rod either side of centre line.
4. Cut and fit drop rods.
5. Position vertically to desired height and secure damper with appropriate fastenings.
6. Continue to fabricate wall, allowing a 5mm gap (approx) around damper spigots to permit fitting of ductwork.



# DWFX-F

Dry Wall Fix – Flange

## Specification

The Actionair DWFX-F installation method is BRE Tested to EN1366-2 for 90 minutes. (BRE test report 220895).

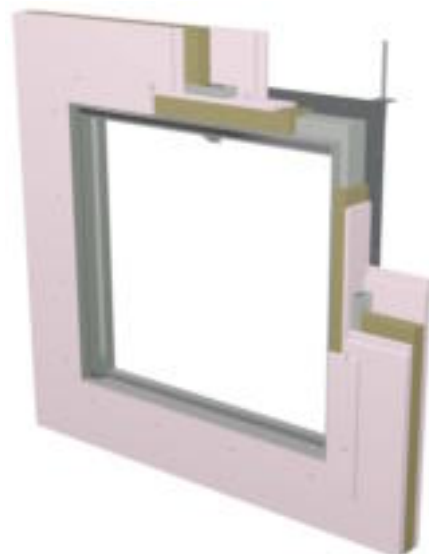
Classification (ref BRE assessment 225285).

- Actionair Fire/Shield E90
- Actionair Smoke/Shield ES60/E90
- Actionair Hot/Shield ES60/E90

The Actionair DWFX-F consists of a 1.2mm galvanised steel peripheral flange with 50mm x 50mm x 3mm steel angle cleats with 14 x 24 oval slots, welded to damper casing for drop rod support.

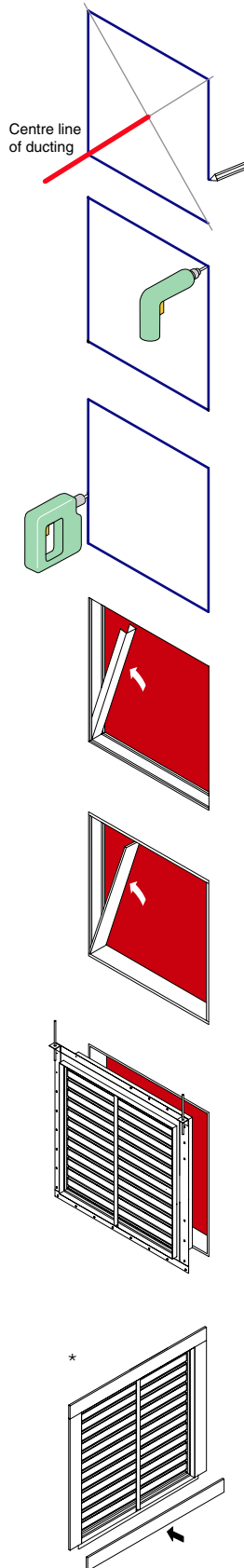


DWFX-F with Smoke/Shield



DWFX-F with Fire/Shield

## Installation Guide



- 1.** Mark out the hole to be cut on one surface of the wall, using the centre of the duct run as a datum. Check the diagonals of the marked out rectangle to ensure that it is square.
- 2.** Drill the four corners to project the rectangle on to the reverse side of the wall. Mark out the hole on the reverse.
- 3.** Cut the top and bottom edges of the hole first, then the vertical edges. Do the same on the reverse.
- 4.** Remove the waste material and tidy up all the edges of the hole.
- 5.** Frame out the sides of the hole with studding as used in the wall construction.
- 6.** Line the sides of the hole using the same plasterboard as used in the wall construction.
- 7.** Drill clearance holes in the damper flange marking out such that any fasteners used will pass through the board materials and penetrate the studding behind. Centres should be approximately 150mm.
- 8.** Place the damper in the hole in the wall. Use some pieces of plasterboard as shims to ensure that the damper is equally positioned in the hole. Push the flange flush to the face of the wall. Screw the flange to wall. Fit M10 drop rods.
- 9.** Fill void with mineral wool
- 10.** Finish off with edging, using the same plasterboard as used in the wall construction.

\*Typical installation, refer to 'Cutting Hole Sizes' on page 4.

# DWFX-F

## Cutting Hole Sizes

### Smoke/Shield

Measure damper casing (not overall flanges) Width x Height

#### Cutting hole size =

**Width** = 2 x wall board thickness used  
+ 2 x 12.5mm clearance all round  
+ damper casing width\*.

*\*For PTC dampers, add an additional 30mm to width for snaplock™ drive shroud.*

**Height** = 2 x wall board thickness used  
+ 2 x 12.5mm clearance all round  
+ damper casing height.

Hole tolerance of +/- 5mm applies.

#### Example

Nominal Smoke/Shield PTC damper 1000mm x 1000mm using 12.5mm wall board thickness.

Measure casing of damper (1048mm Wide x 1073mm High).

Add 30mm to width for shroud  
+ 2 x 12.5mm clearance = 25mm  
+ 2 x 12.5mm wallboard = 25mm

1048 + 25 + 25 + 30 = 1128mm Width

1073 + 25 + 25 = 1123mm Height

### Fire/Shield

Measure damper casing.

#### Cutting hole size =

**Width** = 2 x wall board thickness used  
+ 2 x 12.5mm clearance all round  
+ damper casing width.

**Height** = 2 x wall board thickness used  
+ 2 x 12.5mm clearance all round  
+ damper casing height.

Hole tolerance of +/- 5mm applies.

#### Example

Nominal Fire/Shield damper 1000mm x 1000mm using 12.5mm wall board thickness.

Measure casing of damper (1048mm Wide x 1123mm High).  
+ 2 x 12.5mm clearance = 25mm  
+ 2 x 12.5mm wallboard = 25mm

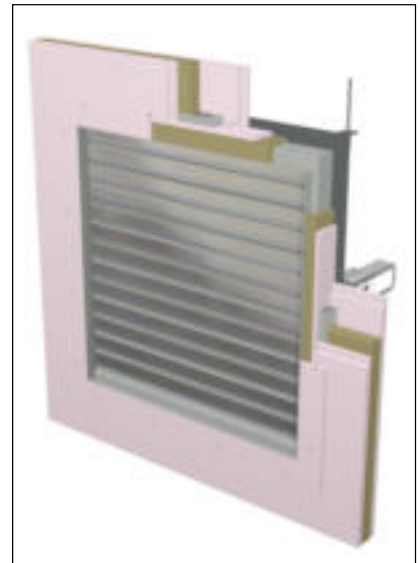
Therefore cutting hole size  
= 1098mm Width x 1173mm Length.

### Hole to Cut Dimension Calculation

Measure casing width	.....
Add shroud dimension	*30
Add gap dimension	25
Add 2 x typ. board thickness	25
Gives hole to cut width	= Total

Measure casing height	.....
Add gap dimension	25
Add 2 x typ. board thickness	25
Gives hole to cut height	= Total

#### \*Smoke/Shield damper only.



### General Notes: applicable to all content of this brochure

These installation methods are for guidance only. Installations will vary and it is likely that it will not be possible to copy the exact installation method prescribed in this document. Fire rating will vary depending upon installation specification. It is the responsibility of others to gain local authority approval for all installations, that includes suitable design / materials / workmanship etc. for the structure.

M10 diameter steel drop rods minimum are recommended.

A fully detailed installation method document is available on the Actionair website, or via the Actionair Customer Service Department.

Quality System Assessed to ISO 9001: 2000



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registered company