

## Installation Detail

If your proposed installation details differ from that shown here, please discuss this with the authority having jurisdiction, referencing this documentation.

Deviation from this drawing requires approval of the relevant authority.

Connecting ductwork omitted for clarity. Ductwork must be independently supported. There must be an appropriate break-away joint between the damper and the connecting ductwork on both sides of the installation.

A minimum of 200mm between fire dampers installed in separate ducts and 75mm between fire damper and construction elements/edges needs to be observed unless otherwise specified in the drawing.



**SCAN ME**

Please refer to the DoP for latest classifications for CE/UKCA compliance and the Installation, Operation and Maintenance Guide

C	ECN3018	MJB	01-04-26
B	ECN2308	MJB	16-11-23
A	ECN2278	MJB	14-12-22
Rev:	Comments:	By:	Date:
Drawn By:	M. Bushell	Date:	07/09/2022
Checked By:	A. Hill	Date:	01/04/2026
Approved By:	S. Gore	Date:	01/04/2026

Description:  
**VERTICAL APPLICATION  
SMOKE SHIELD DWFX-F IN A  
BRITISH GYPSUM SHAFT WALL**

Damper Size Range (mm)  
200 x 200 to 1000 x 1000

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Isover Acoustic Part Roll 25mm thick (~24 kg/m<sup>3</sup>) insulation between vertical studs.

1 off 19mm British Gypsum core board

British Gyproc J channel deep flanges 62 JC 70 (or greater to suit wall thickness) used above and below damper with 70mm return shaft side. Cut away and screwed to the I studs using wafer head screws.

12.5mm. thick (type F, EN520) 87mm wide plasterboard lining (or greater to suit wall thickness) on all four sides, fixed with 41mm, 4mm dia. British Gypsum Jackpoint drywall screws at 300mm centres into perimeter channel.

87mm min wall thickness

Minimum 2-off 12.5mm Gypsum fire boards type F (EN520)

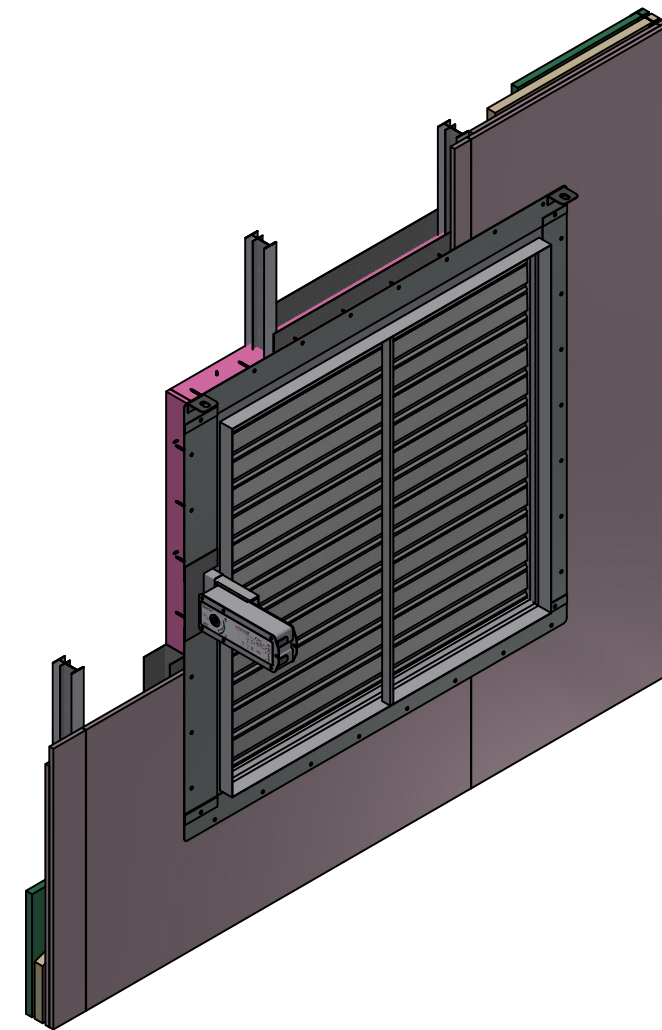
Cleats supplied to assist with installation only

No fire stopping to be included in damper opening.

Damper spigot

15mm

Section D-D  
(shown on page 2)



Damper must be installed with the actuator on the non-shaft side to maintain classification.

Minimum 2-off 12.5mm Gypsum fire boards type F (EN520)

1 off 19mm Gypsum core board

Interface shroud

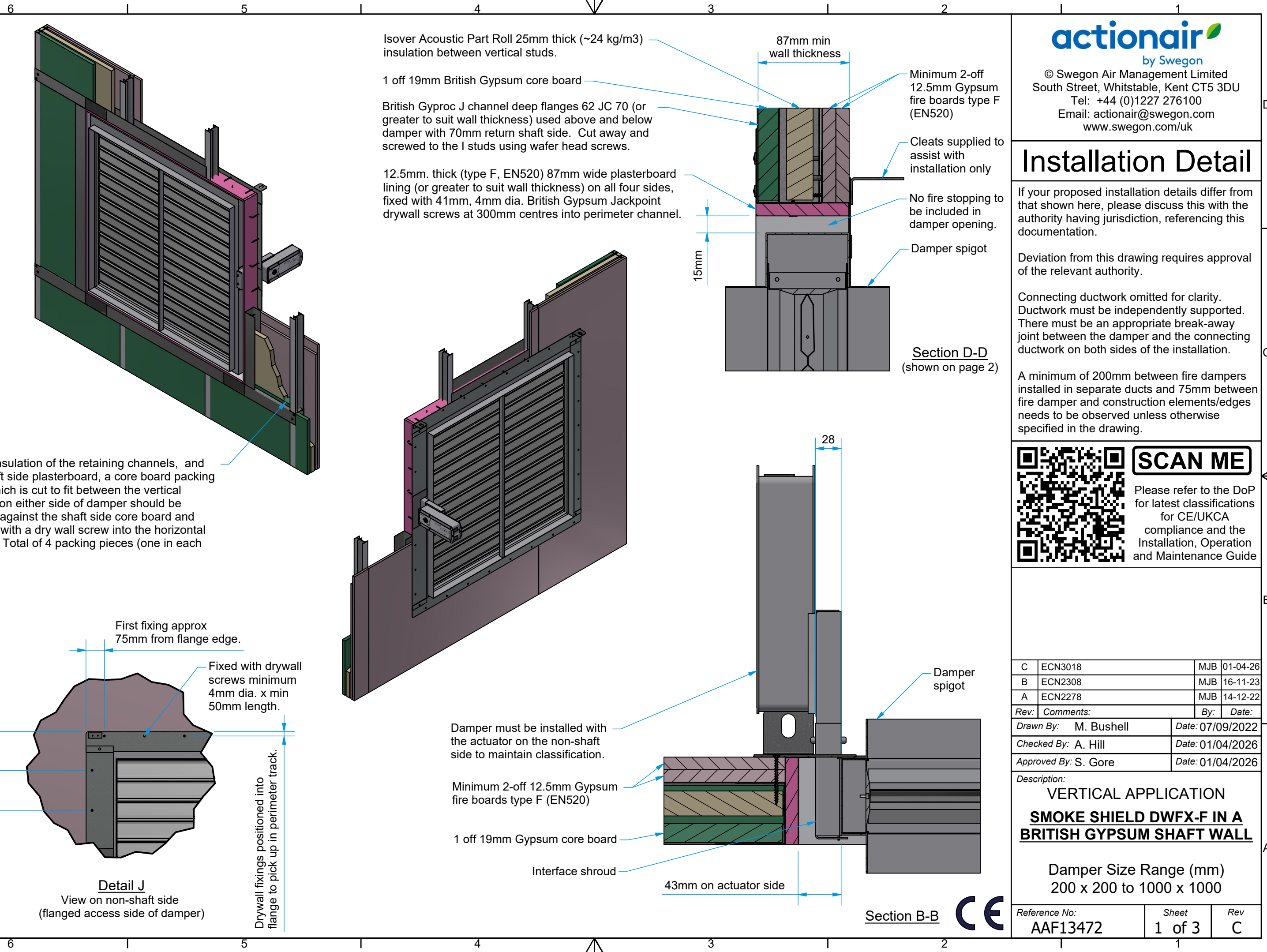
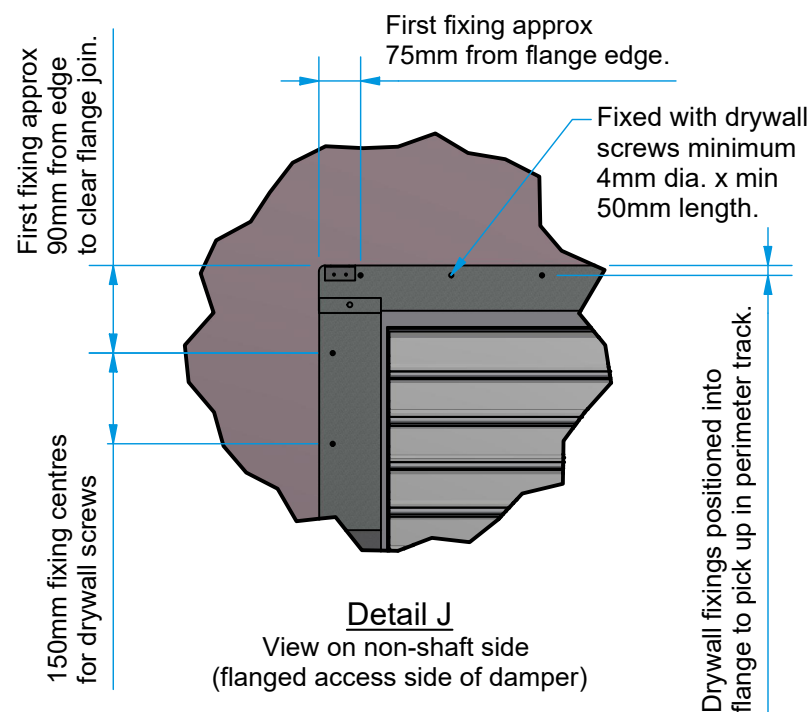
43mm on actuator side

Damper spigot

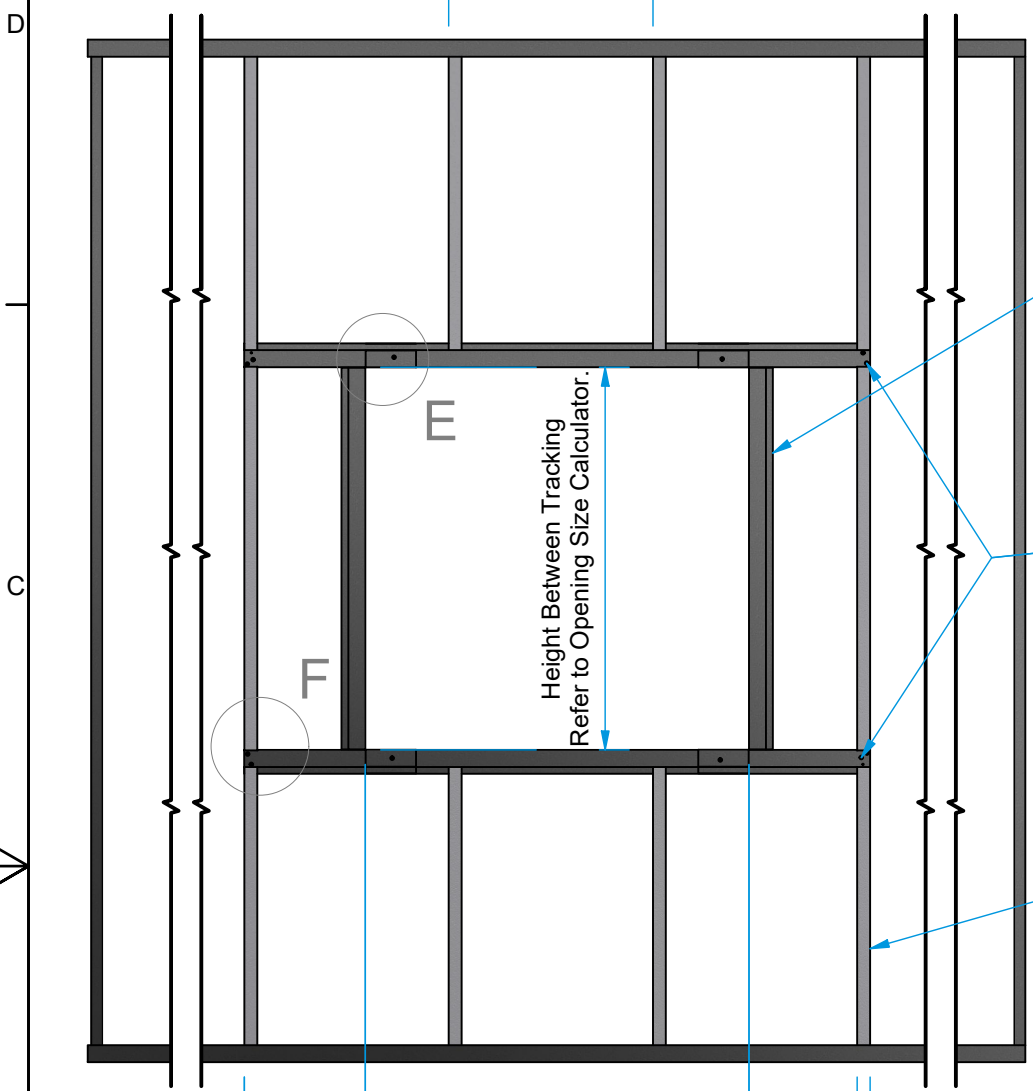
Section B-B



Before insulation of the retaining channels, and non-shaft side plasterboard, a core board packing piece which is cut to fit between the vertical channel on either side of damper should be inserted against the shaft side core board and retained with a dry wall screw into the horizontal channel. Total of 4 packing pieces (one in each corner).



Tracking assembly viewed on non-shaft side



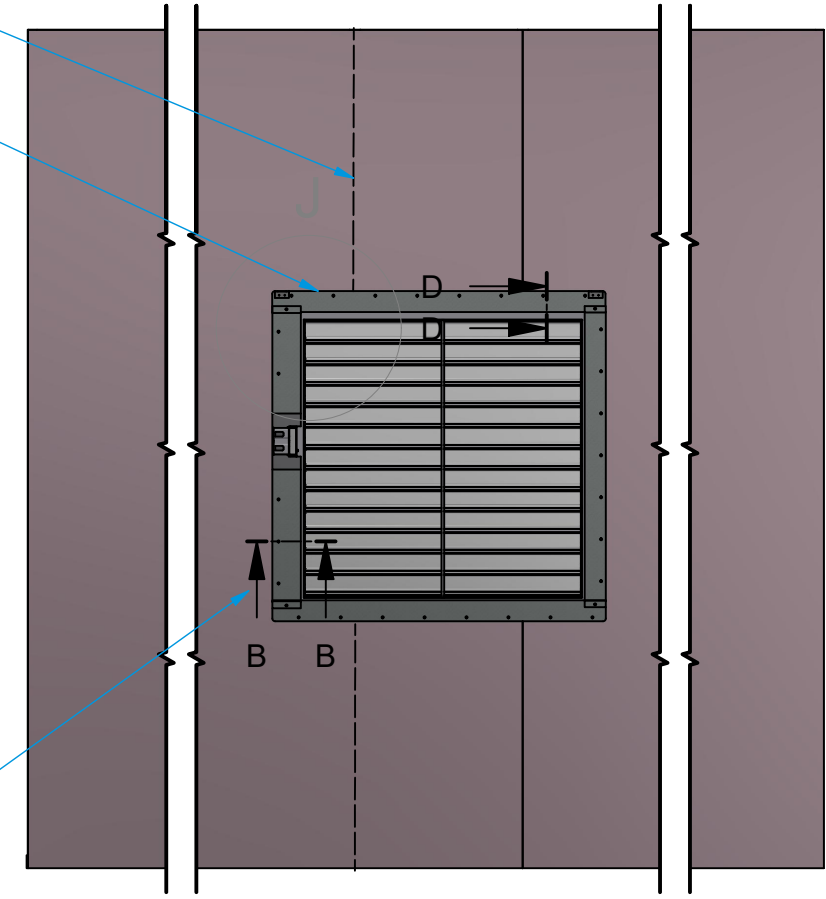
600

Height Between Tracking  
Refer to Opening Size Calculator.

Width Between Tracking  
Refer to Opening Size Calculator

(1800)

Finished wall viewed on non-shaft side



Plasterboard on non-shaft side staggered to cover joins of board behind.

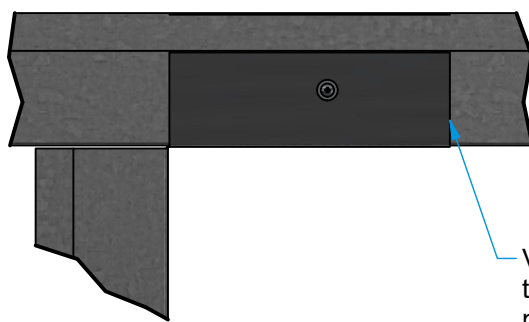
DWFX-F Flange (welded to damper casing) fixed with min  $\varnothing$  4mm drywall screws at least 50mm long (@ 150mm ctrs) into stud channel, all round.

British Gypsum Gyproc J channel deep flanges 62 JC 70 (or greater to suit wall thickness) used either side of damper with 70mm return shaft side. A folded 'ear' top and bottom bent inwards towards the damper and screwed to the adjacent horizontal tracks using 13mm wafer head screws.

British Gypsum Gyproc J channel deep flanges 62 JC 70 (or greater to suit wall thickness) used above and below damper with 70mm return shaft side. Cut away and screwed to the I studs using British Gypsum 13mm wafer head screws.

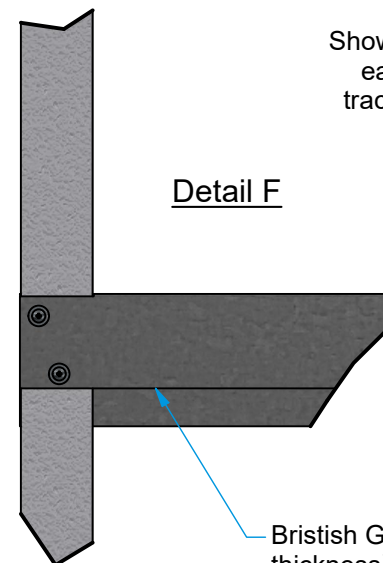
Detail D, viewed on this corner.

I Studs at maximum 600mm pitch with British Gypsum Gyproc102 retaining channel (or greater to suit wall thickness) to hold 19mm core board (friction fit).



Detail E

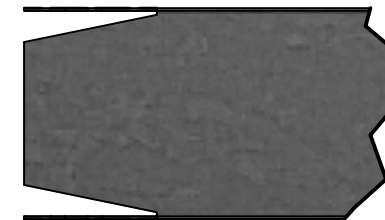
Vertical 'J' channels cut 100mm extra each end with the side sections cut to allow folding in to the penetration area and overlapping horizontal 'J' channel, held in place with a single British Gypsum 13mm wafer head screw on the non-shaft side.



Detail F

British Gypsum Gyproc J channel 62 JC 70 (or greater to suit wall thickness) used above and below damper with 70mm return on the shaft side. Cut away (see detail H) and screwed to the I studs using 13mm British Gypsum wafer head screws.

Detail H  
Showing 'tongue' cut into each end of horizontal tracks above and below damper



**actionair**

by Swegon

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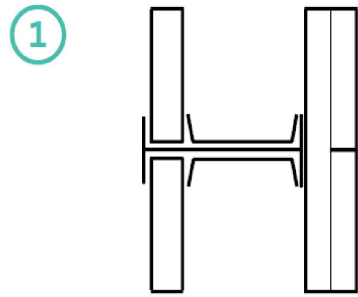
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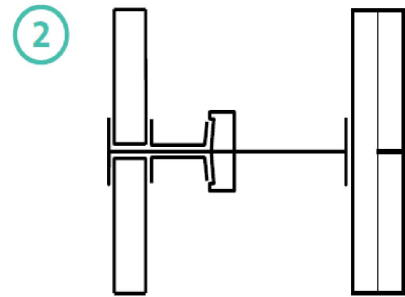
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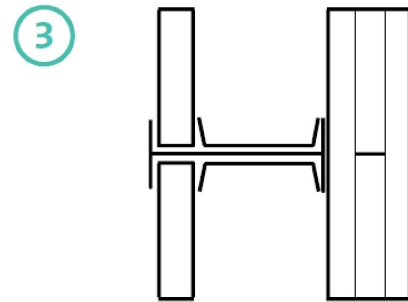
# Applicable Applications



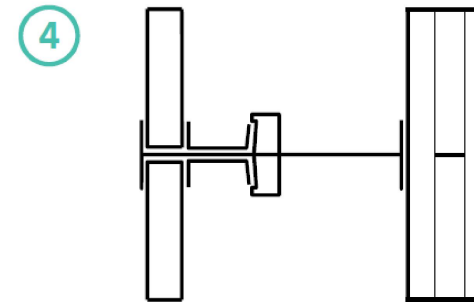
Gypframe 60, 70 or 92mm 'I' Stud framework with Gyprock CoreBoard between studs, secured by Gypframe Retaining Channel. 25mm Isover Acoustic Partition Roll (APR 1200) in cavity (optional). Lining boards to non-shaft side, see table. Studs at 600mm centres.



Gypframe 146 TI 90 Tabbed 'I' Stud framework with Gyprock CoreBoard between studs, secured by Gypframe Retaining Channel. 25mm Isover Acoustic Partition Roll (APR 1200) in cavity (optional). Lining boards to non-shaft side, see table. Studs at 600mm centres.



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60 Minute wall options				BG System reference	
Wall Thickness mm	Lining boards to non shaft side	Stud Size mm	Insulation	No Insulation	With Insulation
87	2 x12.5	60	Optional	A306002	A306012
97	2 x12.5	70	Optional	A306039	A306041
119	2 x12.5	92	Optional	A306005	A306014
173	2 x12.5	146	Optional	A306008	A306020

90 Minute wall options				BG System reference	
Wall Thickness mm	Lining boards to non shaft side	Stud Size mm	Insulation	No Insulation	With Insulation
92	2 x15	60	Optional	A306003	A306023
102	2 x15	70	Optional	A306040	A306042
124	2 x15	92	Optional	A306006	A306025
178	2 x15	146	Optional	A306009	A306028

120 Minute wall options				BG System reference	
Wall Thickness mm	Lining boards to non shaft side	Stud Size mm	Insulation	No Insulation	With Insulation
107	3 x15	60	Optional	A306030	A306035
117	3 x15	70	Optional	A306043	A306044
139	3 x15	92	Optional	A306031	A306036
193	3 x15	146	Optional	A306032	A306033

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