Fire Dampers Low - Medium Velocity

Description

Our range of fire dampers are designed to stop the spread of fire through ductwork, walls, floors and ceilings. The slimline range is especially suitable for narrow partitions or in-duct mounting. All fire dampers are fire tested to BS 476 part 20:1987 for four hour duration and are available with optional installation frame.

Construction

The casing is manufactured from 1.2mm galvanised mild steel; whilst blades are rollformed from 0.8mm galvanised mild steel as standard. Grade 430 stainless steel casing and blades are available as an option.

Size

From 100 x 100 to 1525 x 1525 in one module. Multiple assemblies can be supplied.

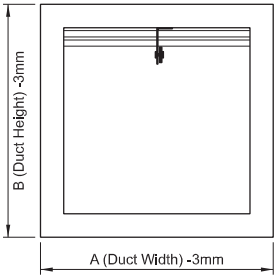
How to Specify

STATE QUANTITY, THE PRODUCT CODING AND THE SIZE WIDTH X HEIGHT
e.g. 10 Qty. D18G0+00 300 x 150.

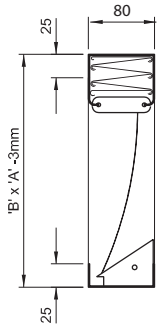
Product Type		Construction		Options	
D18	Slimline In-Duct Casing Blades Partially in the Airstream	G	Galvanised Steel	0	None
				F	HEVAC Installation Frame

+

Control		Options	
0	72° Fusible Link	0	None
1	Easy Maintenance Link	V	Visual Blade Position Indicator
2	Solenoid (AC Voltage)	1	Single Pole Microswitch
3	Electro-Magnet (AC & DC)	2	Double Pole Microswitch

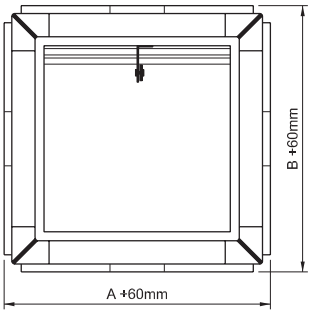


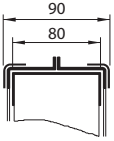
D18G0



D18G0

D18GF
HEVAC Installation Frame Detail





HEVAC / HVCA Installation Frame

Fire Dampers Low - Medium Velocity

Description

Our range of fire dampers are designed to stop the spread of fire through ductwork, walls, floors and ceilings. All fire dampers are fire tested to BS 476 part 20:1987 for four hour duration and are available with optional installation frame. The fire damper is suitable for low-medium velocity systems as the blades remain partially within the airstream.

Construction

The casing is manufactured from 1.6mm galvanised mild steel whilst blades are rollformed from 0.8mm galvanised mild steel as standard. Grade 430, 304 and 316 stainless steel casing and blades are available as an option.

Size

From 100 x 100 to 1000 x 1000 in one module. Multiple assemblies can be supplied.

How to Specify

STATE QUANTITY, THE PRODUCT CODING AND THE SIZE WIDTH X HEIGHT
e.g. 10 Qty. DA8G0+00 300 x 150.

Specifications & Testing

Fire Tested
European Standard EN 1366 - 2:1999
International Standard ISO 10294 - 1:1996(E)
Horizontal Test Report for 4 Hour Duration TE 201814
Vertical Test Report for 4 Hour Duration TE 201633

Fire Tested to BS 476 Part 20:1987 for a 4 Hour Duration
Warrington Report WFRC C43264
(Stainless Steel Blades)
Warrington Report WFRC C43265
(Galvanised Blades)

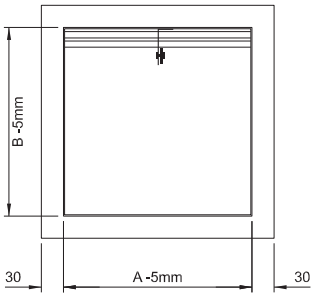
28 Day Salt Corrosion Test
Chatfield Reports C7217 and C7218 refer

Conformance to DW144 and Eurovent 2/2 as Relevant

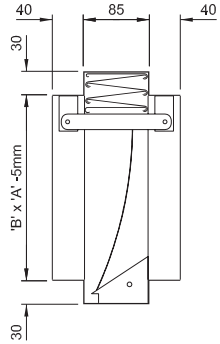
Product Type	Construction	Options
DA8 Square / Rectangular Spigot Blades Partially in the Airstream	G Galvanised Steel	0 None
	M Galv. Casing S/Steel Blades	F HEVAC Installation Frame
	S S/Steel Casing S/Steel Blades	

+

Control	Options
0 72° Fusible Link	0 None
1 Gate Latch Release	V Visual Blade Position Indicator
2 Solenoid (AC Voltage)	1 Single Pole Microswitch
3 Electro-Magnet (AC & DC)	2 Double Pole Microswitch

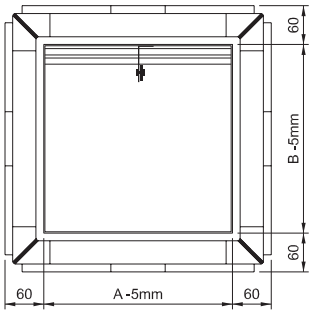


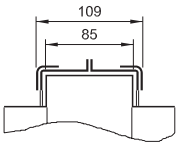
DA8G0



DA8G0

DA8GF
HEVAC Installation Frame Detail





HEVAC / HVCA Installation Frame

T. 01457 861 538 F. 01457 866 010 ✉ sales@gdl.co.uk

Technical Data Fire Dampers

Fusible Link (Code '+0')

Blades are held in the open position by a straight bar link (fitted as standard) rated at 72°C (180°F).
The fusing alloy is to BS 219. The brass is to BS 2870 and is electro-tinned following this process.
Alternative high temperature ratings available: 95°C, 124°C, 145°C, 182°C.

Gate Latch Release (Code '+1')

Optional mechanism for electrical release when required. Rated 72°C (180°F).
Alternative ratings available as per standard fusible link.

Mechanical Visual Indicator (Code 'V')

To provide local indication of the blade status.
When the indicator appears in the bulb, this shows that the blades have closed.

Single Pole Microswitch (Code '1')

To provide remote indication of the blade status. As the leading blade travels to the locking ramp, it contacts the arm and operates the switch. Factory fitted.

Double Pole Microswitch (Code '2')

Operates as above but with two switches for double pole operation. Can also provide a signal to a control panel enabling isolation of plant in case of fire. Factory fitted.

Solenoid (De-Energised) 240 volt (Code '+2')

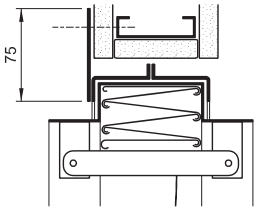
The remote mounted solenoid is designed for use with 'normally de-energised' systems and releases when a 240 volt AC detector signal is applied. **To suit damper sizes: 150 x 150 - 1200 x 1000 and 150 - 1000 diameter.**

Electro-Magnet (Energised) 24 volt (Code '+3')

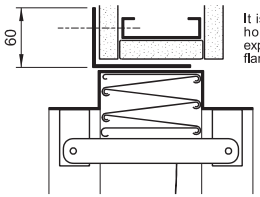
The remote mounted Electo-Magnet option is designed for use with 'normally energised' systems and releases upon interruption of the power supply. **To suit damper sizes: 150 x 150 - 1200 x 1000 and 150 - 1000 diameter.**

Dry Lining Partition Walls

Note: The methods detailed below are proposed methods only. Acceptance must be sought from the specifying authority prior to ordering or installation. These options must be factory fitted prior to despatch.



HEVAC Frame with Dry Liner Plate



It is recommended that slotted holes are inserted for linear expansion within this angle frame flange.

Angle Frame Method

		Pressure Loss (Total Pa)										
Duct Velocity (M/s)		1	2	3	4	5	6	7	8	9	10	15
Low - Medium	150 x 150	1	3	6	10	15	20	28	33	39	44	60
91 - 95% Free Area	1000 x 1000	-	-	2	3	4	5	6	8	9	10	15

Duct Velocity (M/s)		3	4	6	8	10	20	30	40	50		
Medium - High	150 x 150	2	4	8	16	23	70	200	-	-		
100% Free Area	1000 x 1000	-	-	3	5	6	20	50	100	180		

	Weight Chart (Kg)									
	Damper Width (mm)									
Damper Height (mm)	100	200	300	400	500	600	700	800	900	1000
100	2.0	3.0	4.0	5.0	6.5	7.0	8.0	9.0	9.5	10.0
200	3.0	3.5	4.0	5.0	7.0	8.0	9.0	10.0	11.0	12.0
300	3.5	4.0	4.5	5.5	7.0	9.0	9.5	10.5	12.0	13.0
400	4.0	5.0	5.5	6.0	7.5	10.0	11.0	12.0	13.0	14.0
500	5.0	6.0	7.0	7.5	8.5	11.0	12.0	13.0	15.0	16.0
600	6.0	7.0	8.0	8.0	9.5	12.0	13.0	14.0	16.0	17.0
700	7.0	8.0	9.0	9.5	10.5	13.0	14.0	15.0	17.0	18.0
800	8.0	9.0	10.0	10.0	12.0	14.0	15.0	16.0	18.0	19.0
900	9.0	10.0	11.5	12.0	14.0	15.0	15.5	17.0	18.0	20.0
1000	10.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	20.0	22.0

For dampers with installation frames - Multiply by 1.25.

For circular and flat/oval dampers - Multiply by 1.25.

For circular and flat/oval dampers with installation frames - Multiply by 1.50.