MADE IN BRITAIN

V12607

CAD Series
Access Doors

- Mounting frame pre-punched fixing holes
- High compression positive seal gasket
- Safety chain as standard
- Easy action camlock fasteners with positive retaining function
- Conforms to DW144 Classes A, B and C
- Complies with Eurovent 2/2 as relevant
- Tested up to 1500Pa

CAD Series
Access Doors – Introduction

Introduction

The CAD Series Access Doors have been subjected to extensive market and engineering research resulting in a strong and robust construction, designed in a range of sizes to meet most ductwork access requirements.

After exhaustive leakage testing, the position and number of cam and lock fasteners have been determined to provide maximum seal properties. It is therefore important that the cam and lock fasteners are properly sealed on the doors to prevent the frame from curling away from the lid when the ducting 'pants' under internal pressure.

The leakage testing has been verified by independent laboratory testing (see Testing Data below).

The CAD Series Access Doors are available in a range of sizes and are suitable for plain or insulated ductwork under low, medium or high pressures.

Size Selection

There are four sizes of CAD Access Doors, selected after extensive research to meet the requirements of code, job site, duct cleaning and maintenance.
The size range allows a graduated degree of access as illustrated below, enabling the most appropriate size of door to be used for a particular application.

CAD1
One hand or sight

CAD4
Full entry plus ladder

CAD2
Both hands and sight

CAD3
Full entry

Features

- Choice of 4 ergonomic sizes to suit most applications
- Suitable for medium and low pressure systems
- Suitable for plain and insulated ductwork
- Double skin door encapsulating a fire retardant thermal and acoustic insulation
- Seamless one piece mounting frame with pre-punched inner flange for easy installation
- One piece high compression positive seal gasket
- Progressive camlock fasteners
- Safety retaining chain fitted as standard
- Cut-out template provided, please see packaging
- Conforms to DW144 Classes A, B & C, in addition to Eurovent 2/2 as relevant

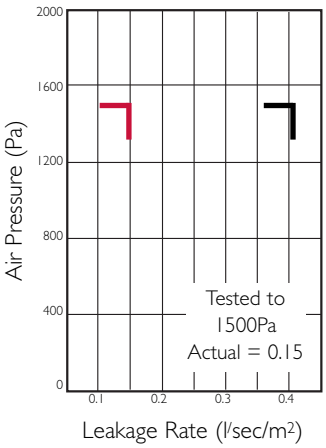
Leakage Testing Data

DW144 Class C = 0.35 l/sec/m²

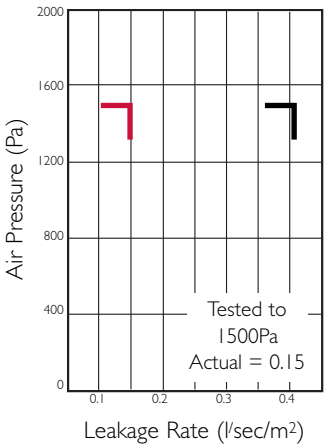
⌐ = permitted leakage at high pressure

⌐ = test performance

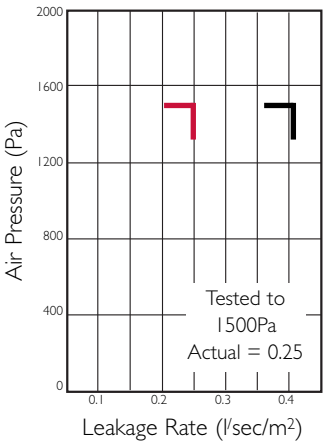
CAD 1



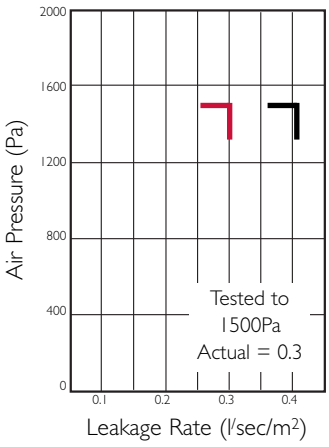
CAD 2



CAD 3



CAD 4



Dimensions

CAD 1							
Nominal Door Size	No. Cams per Door	A	B	C	D	E	F
233 x 143	2	205	115	237	147	281	191

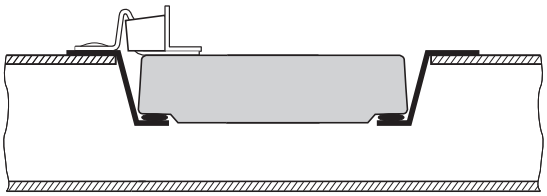
CAD 2							
Nominal Door Size	No. Cams per Door	A	B	C	D	E	F
362 x 227	2	330	195	367	232	414	279

CAD 3							
Nominal Door Size	No. Cams per Door	A	B	C	D	E	F
494 x 354	4	460	320	500	360	552	412

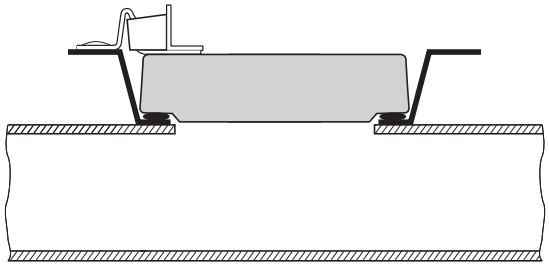
CAD 4							
Nominal Door Size	No. Cams per Door	A	B	C	D	E	F
647 x 496	4	610	462	653	502	705	550

Mounting Methods

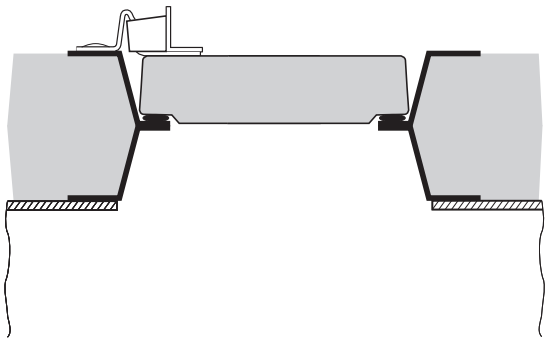
Flush mounting for uninsulated duct work



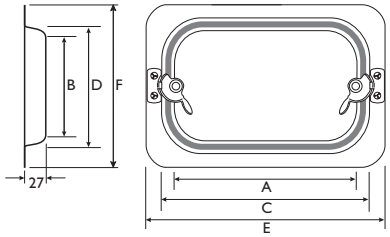
Exterior mounting for uninsulated duct work



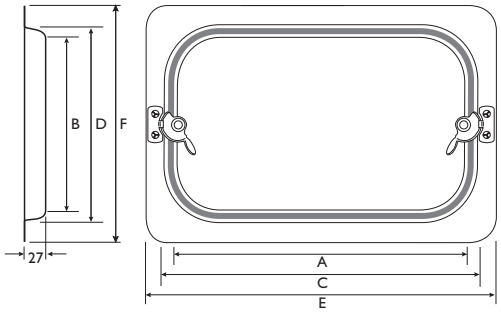
Exterior mounting for duct work with 50mm insulation using optional spacer frame



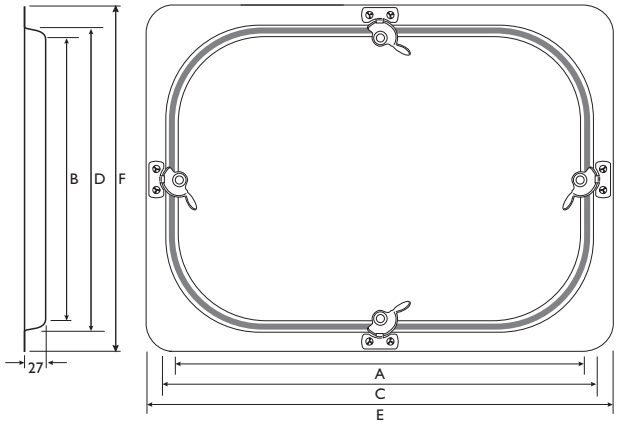
CAD 1



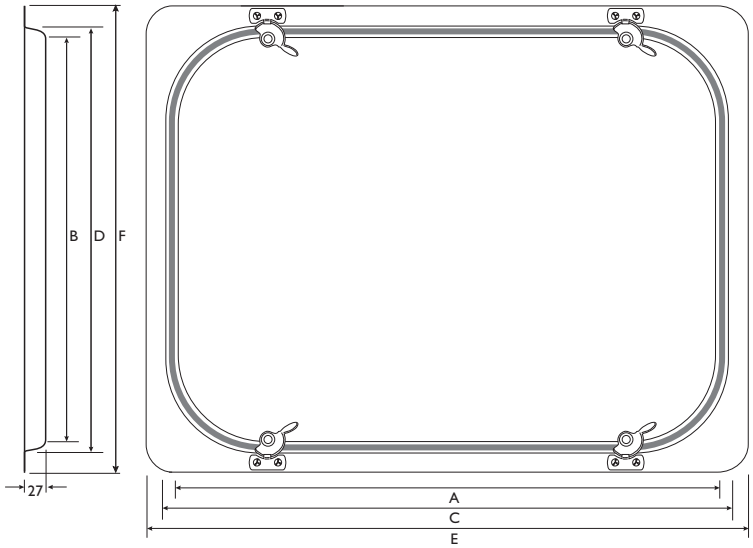
CAD 2



CAD 3



CAD 4



Options

A spacer frame is available for 50mm insulated ducts (See mounting methods left)

CAD Series
Access Doors – Specifications, Weights and Ordering Codes

Product Specification

Door
The door is a two panel design for a strong and robust assembly. The inner and outer panels are pressed from 0.7mm (24swg) galvanised mild steel to BS EN 10142 1991 for models CAD1, CAD2 and CAD3, and 0.8mm (22swg) galvanised mild steel to BS EN 10142 1991 for model CAD4. Standard thickness is 25mm nominal.

Insulation
20mm thick insulation is totally contained between the door panels. The insulation has excellent thermal, acoustic and fire resistant properties with a thermal density of 40kg m^3.

Seal
Extruded seal with welded seam incorporating an integral flexible "hollow tube" which ensures low leakage performance is fitted between the two door panels for strength and stability.

Frame
Pressed one piece dual flange/frame from 0.7mm (24swg) for models CAD1, CAD2 and CAD3 with 0.8mm (22swg) for model CAD4 from galvanised mild steel to BS EN 10142 1991. Both the inner and outer flanges are pre-punched for easy on-site installation.

Latches
Zinc plated steel progressive cam fasteners and fastening clamps. Two sets for Models CAD1 and CAD2, four sets for Model CAD3 and CAD4. Cam locks are positioned at strategic locations for optimum closure and low leakage.

Security Chain
A retaining safety chain is fitted to both the door and the frame to alleviate damage or injury during routine maintenance or cleaning as well as negating loss.

Weight Chart

Model No.	Nominal Size (mm)	No. per Carton	Weight Per Carton (kg)	Volume Per Carton (m^3)
CAD 1	233 x 143	10	9kg	0.025m^3
CAD 2	362 x 227	5	9kg	0.025m^3
CAD 3	494 x 354	5	16kg	0.047m^3
CAD 4	647 x 496	4	25kg	0.076m^3

Ordering Details

Example:

Model CAD3 Size: 494mm x 354mm
Quantity: 20 (4 boxes)
would be written as:

CAD3 - 494x354 - 20

Other Air, Fire and Smoke Control Products in the BSB Range:

LD and LDN Series
Lobby Dampers

FD Series
Fire Dampers

FD-C Series
Circular Fire Dampers

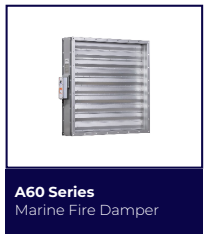
FSD-C Series
Circular Dampers

FSD-TD Series
Fire/Smoke Dampers

BD Series
Backdraught Dampers

HD Series
Heavy Duty Dampers

SS Series
SlimSeal Dampers


A60 Series
Marine Fire Damper

Control Systems

For full details of the complete BSB Product Range, please refer to our individual product brochures, sales office or website.

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For pricing, technical and general enquiries, please email: enquiries@bsb-dampers.co.uk

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