T - 39409 - PROTECT-FAD & PROTECT-CAD (1/5)

AIRTIGHT ACCESS DOOR

General description

Access doors allow easy admittance to the ventilation ducting for the purpose of inspection and cleaning. Meet Class C airthightness when protect rubber fitted around the edges of the opening.

Access doors are for rectangular ducting (PROTECT-FAD) or for round ducting (PROTECT-CAD).

They consist of two panels connected between themselves with two screws, springs and knobs. The inner panel will be slided inside the duct, and the outside panel will then be compressed by tightening both knobs.

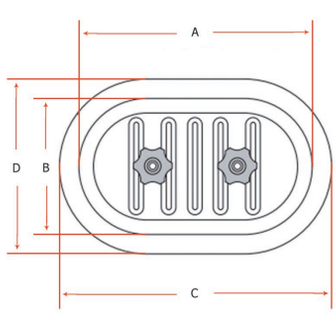
Technical specifications

PANELS	MATERIAL	Galvanized steel
SEALING GASKET	TYPE	High quality EPDM
	DIMENSION	6 mm x 15 mm
	DENSITY	+/- 33 Kg / m³
	TEMPERATURE RANGE	- 40 °C / + 90 °C
COMPONENTS COMPRESSION SYSTEM	SCREWS	2 screws: M8X40 or M10X40 crimped on internal panel
	SPRINGS	2 compressions springs
	KNOBS	2 plastics knobs with metal insert M8 or M10
Self-adhesive template comes with each door, for accurate cut-out		

PROTECT	Protective Rubber
MATERIAL	Rubber EPDM
HARDNESS	20 / 25 Sh A
COLOR	Black
ADHESIVE	Butyl
SERVICE TEMPERATURE	- 30 °C / +100 °C
TEMPERATURE MAX.	250 °C
TIGHTNESS	**CLASS C**

Sizes

TYPE OF DOOR	NOMINAL SIZES (mm)	ACTUAL SIZES (mm) The format is oblong, and the radius of the 4 angles is equivalent to the small size divided by 2.			
		A	B	C	D
18	180 x 80	170	72	197	101
20	200 x 100	200	100	219	117
25	250 x 150	250	150	274	186
30	300 x 200	300	200	329	228
40	400 x 300	380	280	403	303
50	500 x 400	500	400	532	432
60	600 x 450	600	450	627	480



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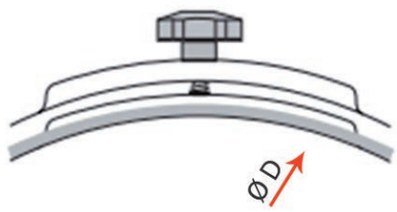
AIRTIGHT ACCESS DOOR

Selection chart



DOOR SIZE / Ø D	180x80 mm	200x100 mm	250x150 mm	300x200 mm	400x300 mm	500x400 mm	600x450 mm
100 mm	Standard	-	+	-	-	-	-
125 mm	Standard	-	+	-	-	-	-
140 mm	+	Standard	+	-	-	-	-
150 mm	+	+	+	-	-	-	-
160 mm	Standard	+	Standard	-	-	-	-
180 mm	+	Standard	+	-	-	-	-
200 mm	Standard	Standard	Standard	-	-	-	-
224 mm	+	+	+	-	-	-	-
250 mm	+	Standard	Standard	-	-	-	-
280 mm	+	+	+	-	-	-	-
300 mm	+	+	+	-	-	-	-
315 mm	-	Standard	Standard	Standard	-	-	-
355 mm	-	-	Standard	Standard	-	-	-
400 mm	-	-	Standard	Standard	Standard	-	-
450 mm	-	-	Standard	Standard	Standard	-	-
500 mm	-	-	Standard	Standard	Standard	-	-
550 mm	-	-	-	+	+	-	-
560 mm	-	-	-	+	Standard	-	-
600 mm	-	-	-	+	+	-	-
630 mm	-	-	-	+	Standard	Standard	-
700 mm	-	-	-	-	+	+	-
710 mm	-	-	-	-	Standard	Standard	Standard
800 mm	-	-	-	-	Standard	Standard	Standard
850 mm	-	-	-	-	+	+	+
900 mm	-	-	-	-	Standard	Standard	Standard
1000 mm	-	-	-	-	+	Standard	Standard
1120 mm	-	-	-	-	+	Standard	Standard
1250 mm	-	-	-	-	+	Standard	Standard
1400 mm	-	-	-	-	-	-	Standard
1500 mm	-	-	-	-	-	-	Standard
1600 mm	-	-	-	-	-	-	Standard
1800 mm	-		-	-	-	-	Standard

+ : Available on request
- : Not available

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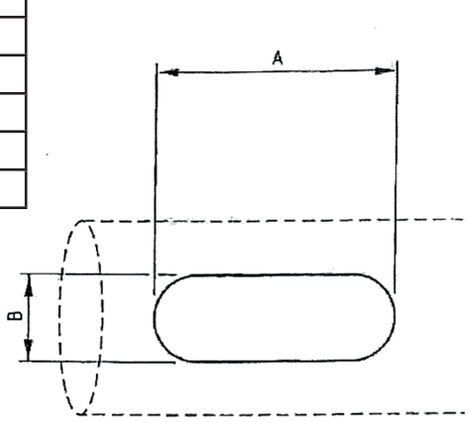
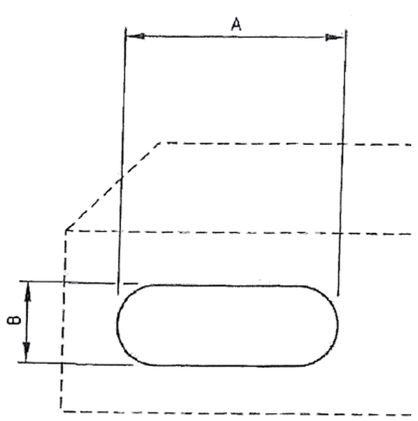
Selection of curving diameters

DUCT DIAMETER (mm)	RECOMMENDED DOOR CURVING Ø (mm)
80 -120	100
121 - 150	125
151 - 190	160
191 - 240	200
241 - 300	250
301 - 340	315
341 - 380	355
381 - 430	400
431 - 480	450
481 - 530	500
531 - 600	560
601 - 670	630
671 - 750	710
751 - 850	800
851 - 950	900
951 - 1050	1000
1050 - 1150	1120
1151 - 1300	1250

Selection of Access Door: (Based on EN 12097)

CIRCULAR DUCT		RECTANGULAR DUCT	
Nominal duct diameter (mm) D	Minimal size of access door (mm) A x B	Width of duct where access door is fitted (mm) S	Minimal size of access door (mm) A x B
100 ≤ D < 200	180 x 80	S ≤ 200	180 x 80
200 ≤ D ≤ 315	250 x 150	200 < S ≤ 400	300 x 200
315 < D ≤ 500	300 x 200	400 < S ≤ 500	400 x 300
500 < D	400 x 300	500 < S	500 x 400





Access door needs to be fitted :

- at least every 7,5 m
- after every change of airflow direction of more than 45°C
- after every change of duct diameter within the duct network
- before and after every fitting (dampers, fire dampers, filters, duct fans, duct heaters,...)

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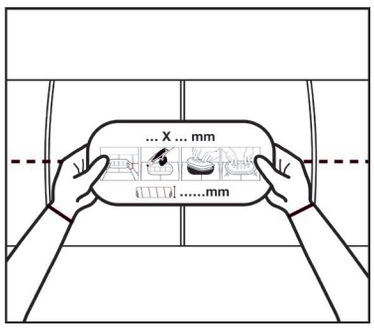
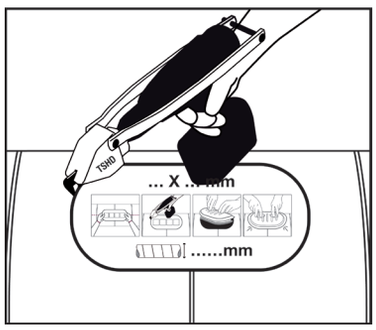
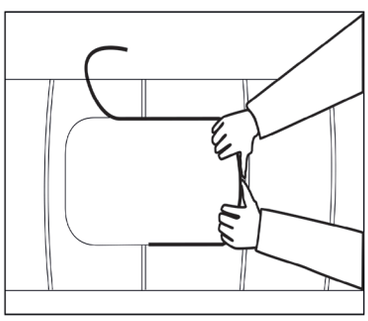
Application



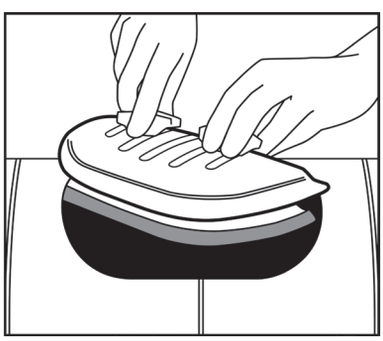
1. Stick self-adhesive template on to duct (a template is provided with each door)



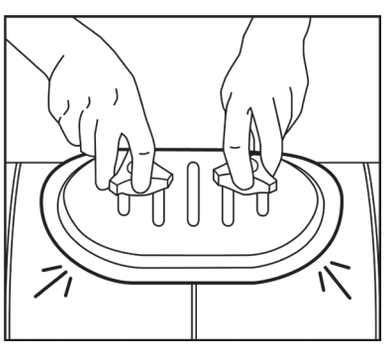
2. Using Turbo Shears or similar cut around template taking care not to exceed the size of the template (the door will function correctly when cut to template size +0 mm -3 mm).
For details of the Turbo Shear please refer to Malco Tools Datasheet



3. Set the protect rubber around the edges of the opening. And ensure it is evenly installed.



4. Install door by unscrewing the hand knobs until thread is level with top of bolt. Using both hands place the door in the hole at an angle.



5. Turn straight and pull out slighlty to align. Then tighten knobs.

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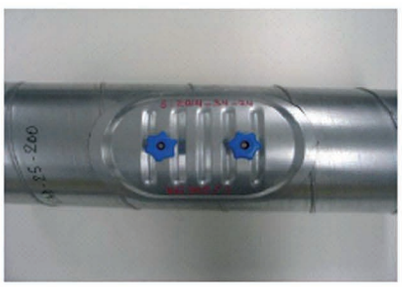

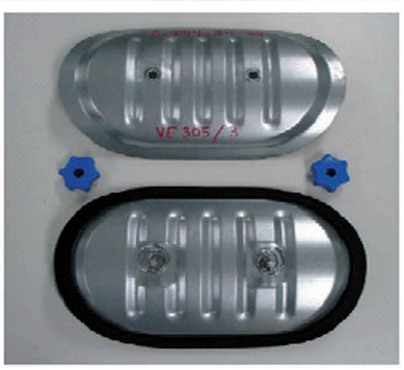

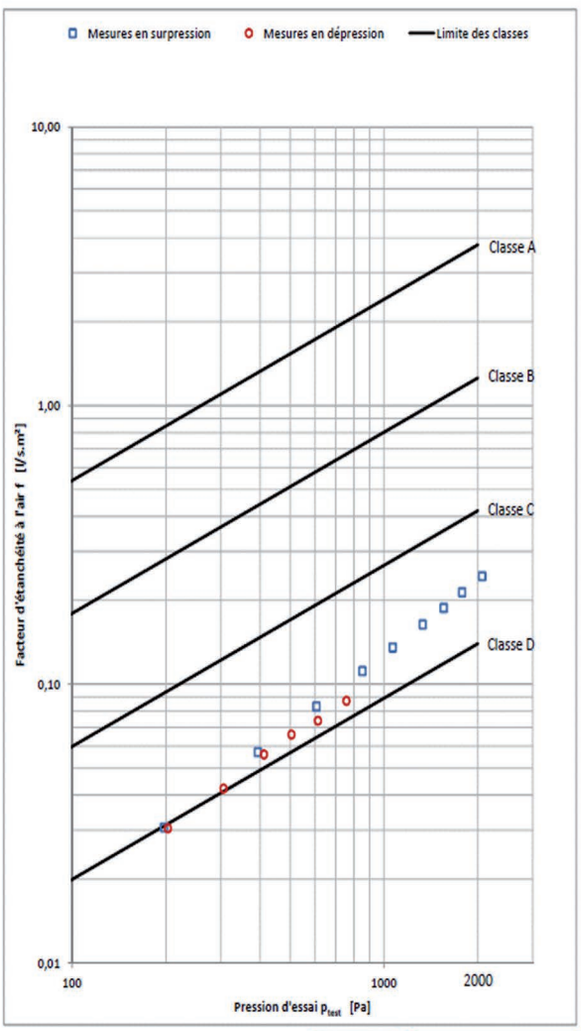

C.S.T.C. W.T.C.B. PMM

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