WDBA

- **Wall / door element**
- **Transfer**
- **Fire block**

Application:

The fire block WDBA is suitable for mounting in fire doors or fire walls. Use intumescent mastic to bed the fire block into the wall. Intumescent material used in the construction is based upon sodium silicate encapsulated in PVC extrusions and activates at 100 degrees C. Since Sodium silicate is hydroscopic by nature the damper should be stored and used in a dry environment.

Design:

Damper:
PVC extrusions with intumescent material
Finish : none
Colour : grey

Cover grilles (optional):
Pressed steel
Finish : none
Colour : white (RAL 9010)
Silver

Available types:

W D B A - O

W wall / door element
D transfer
B fire block
A rectangular, depth 40 mm, up to 60 minutes fire resistance

- accessoires
O none
E 1 cover grille
T 2 cover grilles

O not applicable

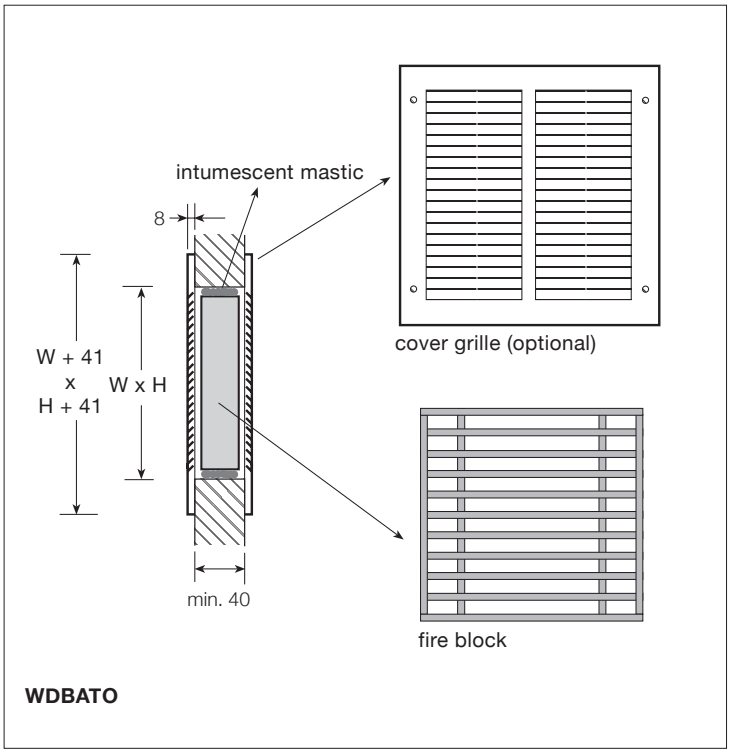
Features:

Free Area: 56 to 69%

Dimensional data:

H	Width W									
	100	150	200	250	300	350	400	450	500	600
100	•	•	•	•	•	•	•	•	•	
150	•	•	•	•	•	•	•	•	•	
200	•	•	•	•	•	•	•	•	•	
250	•	•	•	•	•	•	•	•	•	
300	•	•	•	•	•	•	•	•	•	
350	•	•	•	•	•	•	•	•	•	
400	•	•	•	•	•	•	•	•	•	
450	•	•	•	•	•	•	•	•	•	
500	•	•	•	•	•	•	•	•	•	
600	•	•	•	•	•	•	•	•	•	

Dimensions:



WDBATO

Remarks:

The stated dimensions are sizes in mm.
The actual width is W-2 mm.
The actual height is H-2 mm.
Fire rating 60 minutes in accordance with BS 476 : part 20 : 1987.
Alternative sizes are available upon request.

Performance data WDBA:

Air volume.		free area in cm²																	
		50		60		80		100		125		150		200		250		300	
m³/s	m³/h	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp
0,0100	36	5	-																
0,0125	45	8	11	6	7														
0,0150	54	12	15	9	12	5	-												
0,0175	63	17	20	12	16	7	-	4	-										
0,0200	72	22	23	15	19	9	13	5	-	4	-								
0,0250	90	34	29	24	25	13	19	9	14	6	-	4	-						
0,0300	108			34	30	19	23	12	19	8	14	6	10						
0,0400	144					34	31	22	26	14	21	10	17	6	11	4	-		
0,0500	180							34	32	22	27	15	23	9	17	6	12	4	-
0,0600	216									32	32	22	28	13	22	8	17	6	13
0,0800	288											40	35	22	29	15	25	10	21
0,1000	360													35	35	23	30	16	27
0,1250	450															36	36	25	32
0,1500	540																	36	37
m³/s	m³/h	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp

Air volume.		free area in cm²																	
		400		500		600		800		1000		1250		1500		2000		2500	
m³/s	m³/h	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp
0,0800	288	6	15	4	10														
0,1000	360	9	21	6	16	4	12												
0,1250	450	14	26	9	22	7	18	4	12										
0,1500	540	21	31	14	27	10	23	6	17	4	13								
0,1750	630	28	35	18	31	13	27	8	21	5	17	4	-						
0,2000	720			24	34	17	30	10	25	7	20	5	16	3	13				
0,2500	900					27	36	16	30	11	26	7	22	5	19				
0,3000	1080							23	35	15	31	10	27	8	23	5	19	4	15
0,4000	1440									27	38	18	34	14	31	9	26	6	23
0,5000	1800											29	40	21	37	14	32	10	29
0,6000	2160															20	37	14	33
0,8000	2880																	26	41
m³/s	m³/h	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp	Pt	Lp

preferred area when used in doors: 8 to 10 Pa

Free area in cm²

Height H	Width B										
	100	150	200	250	300	350	400	450	500	550	600
100	56	85	114	146	179	208	241	273	302	335	363
150	89	134	180	232	283	329	380	432	478	529	575
200	122	184	246	317	387	450	520	591	653	724	786
250	154	233	312	402	491	570	660	750	829	918	997
300	187	283	378	487	596	691	800	909	1004	1113	1209
350	220	332	444	572	700	812	940	1067	1180	1307	1420
400	252	381	510	657	804	933	1080	1226	1355	1502	1631
450	285	431	577	742	908	1054	1219	1385	1531	1697	1842
500	318	480	643	827	1012	1175	1359	1544	1706	1891	2054
550	350	530	709	912	1116	1295	1499	1703	1882	2086	2265
600	383	579	775	998	1220	1416	1639	1862	2058	2280	2476

General:

• total pressure drop P_t in P_a
The table is calculated with 10 dB damping.
• Sound pressure level Lp in dB(A).
Interpolation of intermediate values is acceptable.