



PRODUCT BROCHURE

mcr WIP LD

Multi-blade smoke control damper
for multi-zone fire ventilation systems



www.mercor.com.pl/en

1 APPLICATION

The mcr WIP LD smoke control dampers are intended for installation in manually or automatically operated fire ventilation systems. The devices are used in fire ventilation systems or in mixed fire and comfort ventilation systems (smoke evacuation or air supply systems). The dampers prevent fire, smoke and fire gases from spreading to the adjacent compartments. During normal system operation, the damper blades are closed. The smoke control dampers blades in the fire compartment are opened, whereas in other areas the blades are closed.

2 DESIGN



mcr WIP LD /V, mcr WIP LD /V-M smoke control dampers consist of a casing with a rectangular cross-section, multiple moving damper blades – louvers rotating around their own axes – and a remotely activated trigger and control mechanism, which is installed inside the damper clearance. The damper casing is made of galvanized steel sheets or stainless steel sheets. The damper is also provided with a connection flange on one side. The other end is the so-called “bare-end”. The damper casing total length is 350 mm. Damper louvers are made of galvanized steel sheets or stainless steel. The damper blades revolve on their own axes, which consist of steel pins. A ventilation gasket is provided on the blades to ensure that the damper is “cold” sealed.

3 KEY BENEFITS



Large active area,
quick installation



Certified installation
with a system grille in set,
as per EN 12101-8

4 DIMENSIONS

- » nominal width B: from 300 mm to 1100 mm
- » nominal height H from 600 mm to 2300 mm
- » maximum single damper cross-section surface up to 2.53 m²

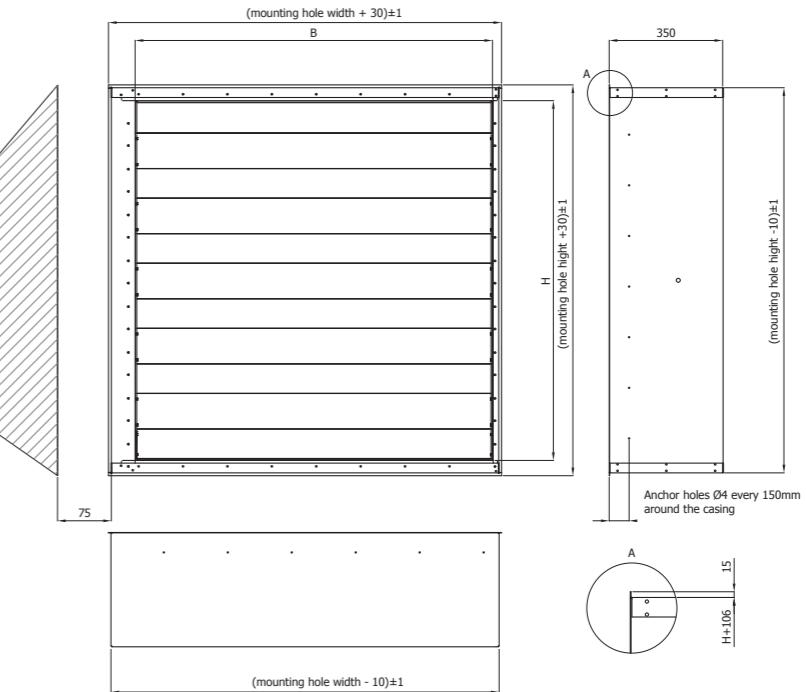
Apart from the standard dimensions, smoke control dampers may be manufactured with intermediate dimensions (at 1 mm increments within the given ranges). The exception are dampers whose height value falls within the 36-54 ranges, e.g. 136-154, 236-254...

5 VERSIONS

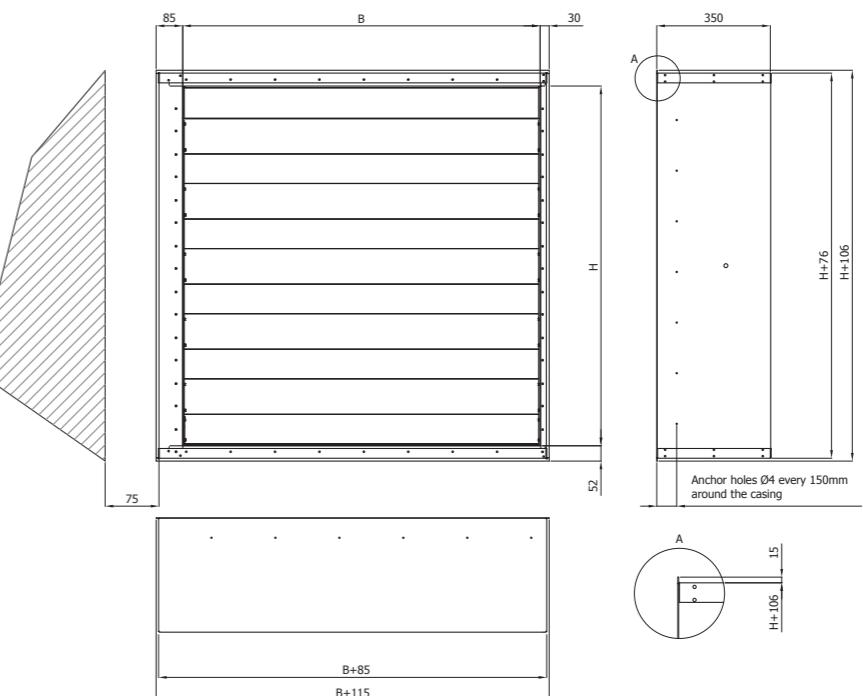
5.1 Damper closing and opening with an actuator

During normal operation, the smoke control dampers are opened or closed. In case of fire, the smoke control dampers louvers are opened in the fire compartment area and closed in the other areas - the smoke control dampers are released remotely by feeding the supply voltage to the trigger control mechanism. mcr WIP LD /V, mcr WIP LD /V-M smoke control dampers are equipped with a trigger control mechanism in the form of a BEE, BEN, BE axial actuator without a return spring (24 V AC/DC or 230 V AC). The BE, BEE, BEN series actuators are equipped with limit switches used to monitor the damper blade position. Furthermore, a mechanical position indicator is placed on the actuator. Smoke control dampers with BEE, BEN, BE actuators can be opened/closed by supplying voltage to the actuator terminals. Dampers with those actuators may be opened/closed manually using a key.

» set in a masonry wall with the flange facing the wall



» set in a masonry wall with the flange facing the wall



6 INSTALLATION

- » mcr WIP LD /V, mcr WIP LD /V-M rectangular dampers are rated EI120(v_{ew} i→o)S 1000C₁₀₀₀₀AAmulti if installed in yielding wall/shaft partitions made from gypsum board panels with the thickness of at least 125 mm.
- » mcr WIP LD /V, mcr WIP LD /V-M rectangular dampers are rated EI120(v_{ew} i→o)S 1000C₁₀₀₀₀AAmulti if installed in wall/shaft partitions made of concrete, bricks, hollow bricks, masonry or prefabricated slabs with a min. thickness of 125 mm.
- » mcr WIP LD /V, mcr WIP LD /V-M rectangular dampers are rated E600(v_{ew} i→o)S 1000C₁₀₀₀₀AAmulti if installed in wall/shaft partitions made of concrete, bricks, hollow bricks, masonry or prefabricated slabs with a min. thickness of 125 mm.

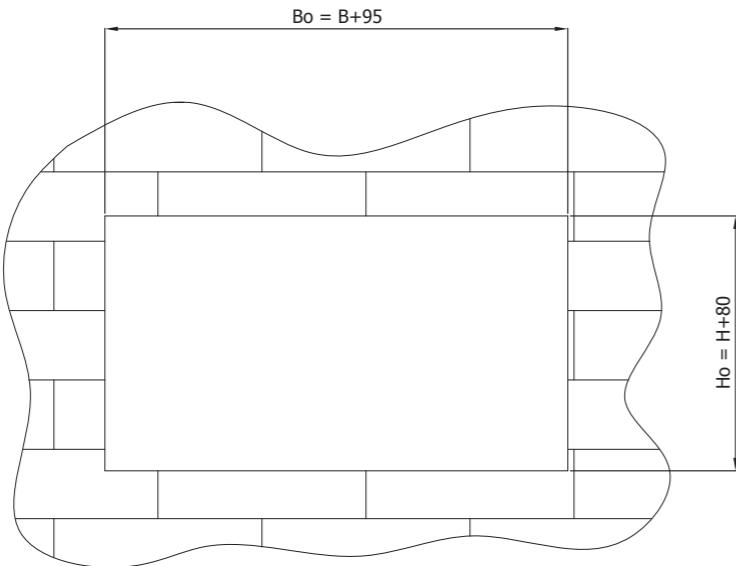
6.1 Preparation of installation openings

The minimum dimensions of the installation opening that permits correct installation of the mcr WIP LD /V, mcr WIP LD /V-M damper is:

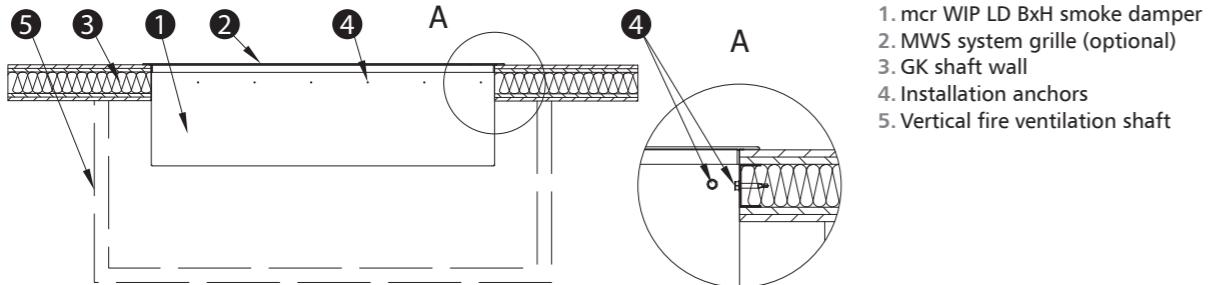
Preferred

$$Bo = (B+95) \text{ mm}$$

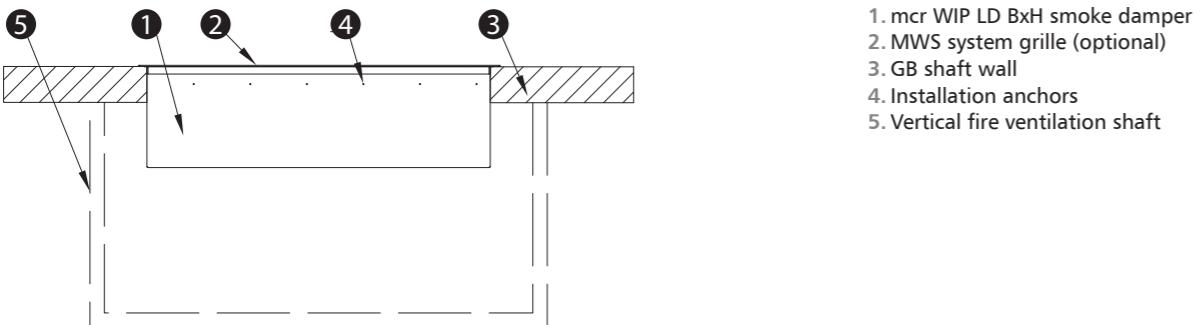
$$Ho = (H+80) \text{ mm}$$



6.2 Installation in shaft walls

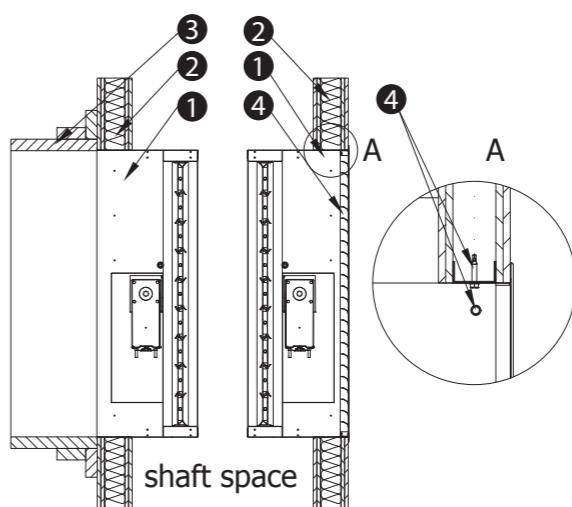


6.3 Installation in light shaft walls

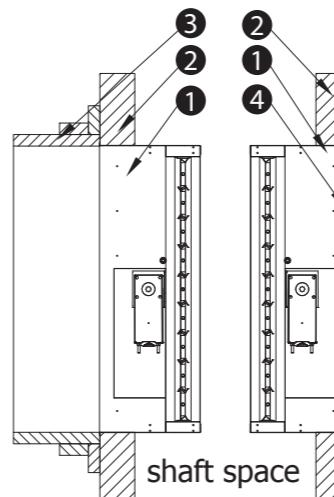


6.4 Installation in concrete walls or masonry shafts

- 1. mcr WIP LD BxH smoke damper
- 2. Plasterboard wall
- 3. Multi-compartment smoke extract duct
 - e.g. made of fire-proof boards
- 4. MWS system grille (optional)

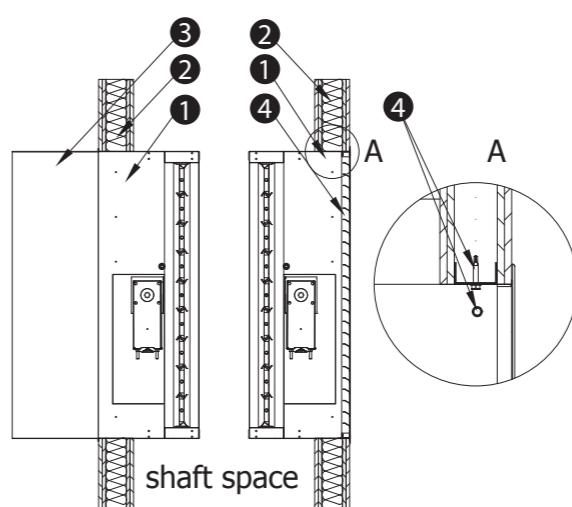


6.5 Sample installation in light walls and with multi-compartment ducts or grilles



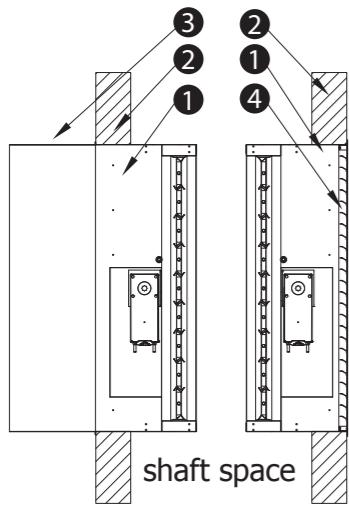
- 1. mcr WIP LD BxH smoke damper
- 2. Solid wall
- 3. Multi-compartment smoke extract duct
 - e.g. made of fire-proof boards
- 4. MWS system grille (optional)

6.6 Sample installation in concrete or masonry walls and with multi-compartment ducts or grilles



- 1. mcr WIP LD BxH smoke damper
- 2. Plasterboard wall
- 3. Single-compartment smoke extract duct
 - e.g. made of metal sheets
- 4. MWS system grille (optional)

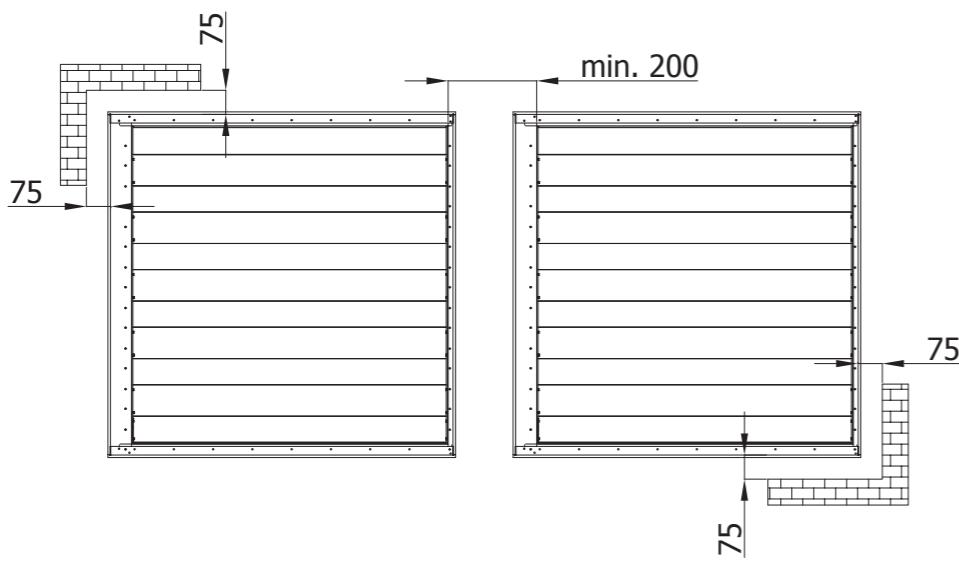
6.7 Sample installation in light walls and with single-compartment ducts or grilles



1. mcr WIP LD BxH smoke damper
2. Solid wall
3. Multi-compartment smoke extract duct
– e.g. made of fire-proof boards
4. MWS system grille (optional)

* Smoke extraction ducts should be made in accordance with the ducts manufacturer's guidelines. The ducts must have an adequate fire resistance rating in accordance with the fire resistance rating provided for the entire solution. Seal all connections between the damper, wall and the ducts with the appropriate grout/glue/gaskets, ensuring that the fire resistance rating is maintained. A masking grille may terminate the system.

» Distance between systems and partitions



7 MCR WIP LD RECTANGULAR DAMPERS TECHNICAL PARAMETERS

B – nominal width [mm]
H – nominal height [mm]

v – velocity [m/s]
 S_k – duct cross-section [m^2]
 S_e – damper active cross-section [m^2]

Q – flow [m^3/h]
 d_p – pressure drop [Pa]
 L_{WA} – damper noise level [dB]

		height H [mm]													
		600				700				800					
v [m/s]	S_k [m^2]	S_e [m^2]	Q [m^3/s]	d_p [Pa]	L_{WA} [dB]	S_k [m^2]	S_e [m^2]	Q [m^3/s]	d_p [Pa]	L_{WA} [dB]	S_k [m^2]	S_e [m^2]	Q [m^3/s]	d_p [Pa]	L_{WA} [dB]
300	4		2 151	5	30			2 510	5	30			2 868	5	31
	6	0,18	3 227	12	41	0,21	0,17	5 020	11	41	0,24	0,20	4 303	11	41
	8		4 303	21	48			5 856	19	48			5 737	19	48
	10		5 378	32	54	6 275	31	6 275	31	54	7 171	30	54		
350	4		2 510	5	30			2 928	5	31			3 347	5	32
	6	0,21	3 765	11	41	0,25	0,20	4 392	11	41	0,28	0,23	5 020	10	41
	8		5 020	20	48			6 693	19	49			6 693	19	49
	10		6 275	31	54	7 321	30	7 321	30	54	8 366	29	55		
400	4		2 868	5	31			3 347	5	32			3 825	5	32
	6	0,24	4 303	11	41	0,28	0,23	5 020	11	42	0,32	0,27	5 737	10	41
	8		5 737	20	49			6 693	19	49			7 649	19	50
	10		7 171	31	55	8 366	30	8 366	30	55	9 562	29	55		
450	4		3 227	5	31			3 765	5	32			4 303	5	33
	6	0,27	4 841	11	42	0,32	0,26	5 647	11	42	0,36	0,30	6 454	10	42
	8		6 454	20	50			7 530	19	50			8 605	19	50
	10		8 068	31	55	9 412	30	9 412	30	55	10 757	29	56		
500	4		3 586	5	32			4 183	5	33			4 781	5	33
	6	0,30	5 378	11	42	0,35	0,29	6 275	11	43	0,40	0,33	7 171	10	42
	8		7 171	20	50			8 366	19	50			9 562	19	51
	10		8 964	31	56	10 458	30	10 458	30	56	11 952	29	56		
550	4		3 944	5	32			4 602	5	33			5 259	5	34
	6	0,33	5 916	11	43	0,39	0,32	6 902	11	43	0,44	0,37	7 888	10	43
	8		7 888	20	50			9 203	19	50			10 518	19	51
	10		9 860	31	56	11 504	30	11 504	30	56	13 147	29	56		
600	4		4 303	5	33			5 020	5	33			5 737	5	34
	6	0,36	6 454	11	43	0,42	0,35	7 530	11	44	0,48	0,40	8 605	10	43
	8		8 605	19	50			10 040	19	51			11 474	19	51
	10		10 757	30	56	12 550	30	12 550	30	57	14 342	29	57		
650	4		4 661	5	33			5 438	5	34			6 215	5	34
	6	0,39	6 992	11	43	0,46	0,38	8 157	10	43	0,52	0,43	9 323	10	43
	8		9 323	19	50			10 876	19	51			12 430	19	52
	10		11 653	30	56	13 595	29	13 595	29	57	15 538	29	57		
700	4		5 020	5	33			5 856	5	34			6 693	4	32
	6	0,42	7 530	11	44	0,49	0,41	8 785	10	43	0,56	0,46	10 040	10	44
	8		10 040	19	51			11 713	19	51			13 386	18	51
	10		12 550	30	57	14 641	29	14 641	29	57	16 733	28	57		
750	4		5 378	5	34			6 275	5	34			7 171	4	32
	6	0,45	8 068	11	44	0,53	0,44	9 412	10	43	0,60	0,50	10 757	10	44
	8		10 757	19	51			12 550	19	52			14 342	18	52
	10		13 446	30	57	15 687	29	15 687	29	57	17 928	28	57		
800	4		5 737	5	34			6 693	4	32			7 649	4	32
	6	0,48	8 605	10	43	0,56	0,46	10 040	7	39	0,64	0,53	11 474	10	44
	8		11 474	19	51			13 386	11	45			15 299	18	52
	10		14 342	29	57	16 733	28	16 733	28	57	19 123	28	58		
850	4		6 096	4	31			7 111	4	32			8 127	4	33
	6	0,51	9 143	10	43	0,60	0,49	10 667	10	44	0,68	0,56	12 191	10	45
	8		12 191	18	51			14 223	18	52			16 255	17	51
	10		15 239	28	57	17 779	28	17 779	28	57	20 318	27	57		
900	4		6												

B – nominal width [mm]
H – nominal height [mm]
v – velocity [m/s]
S_k – duct cross-section [m²]
S_e – damper active cross-section [m²]
Q – flow [m³/h]
d_p – pressure drop [Pa]
L_{WA} – damper noise level [dB]

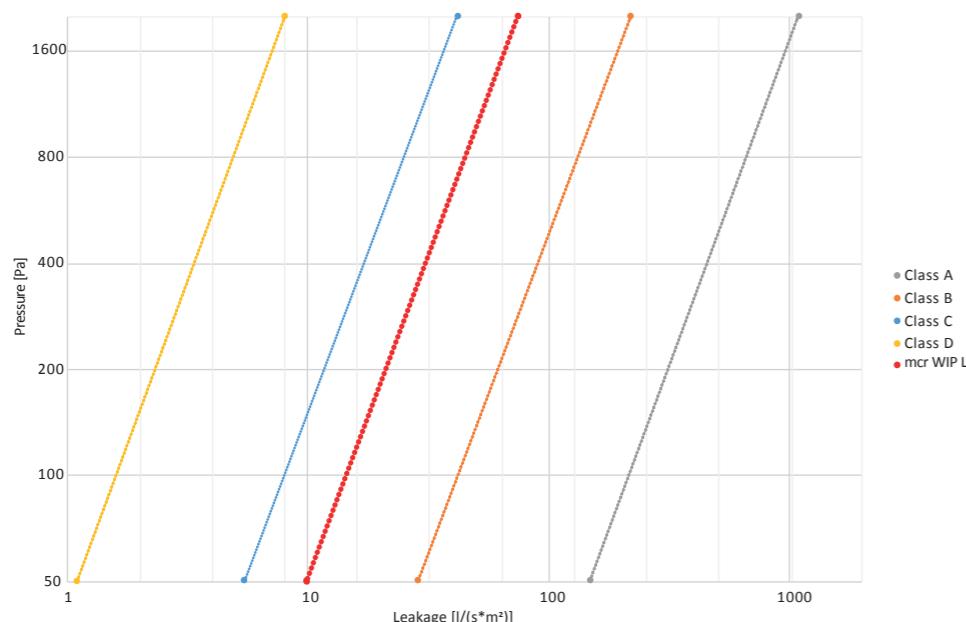
height H [mm]															
900						1000			1100						
v [m/s]	S _k [m ²]	S _e [m ²]	Q [m ³ /s]	d _p [Pa]	L _{WA} [dB]	S _k [m ²]	S _e [m ²]	Q [m ³ /s]	d _p [Pa]	L _{WA} [dB]	S _k [m ²]	S _e [m ²]	Q [m ³ /s]	d _p [Pa]	L _{WA} [dB]
300	4		3 227	5	31			3 586	5	32			3 944	6,25	35
	6		4 841	10	41	0,30	0,25	5 378	10	41	0,33	0,27	5 916	13	44
	8	0,27	6 454	19	49			7 171	19	49			7 888	24	53
	10		8 068	29	54			8 964	29	55			9 860	36	58
350	4		3 765	4	29			4 183	4	30			4 602	5	33
	6		5 647	10	41	0,35	0,29	6 275	10	42	0,39	0,32	6 902	13	45
	8	0,32	7 530	18	49			8 366	18	49			9 203	23	53
	10		9 412	28	55			10 458	28	55			11 504	35	58
400	4		4 303	4	30			4 781	4	30	0,44	0,37	5 259	5	34
	6		6 454	10	42	0,40	0,33	7 171	10	42			7 888	13	46
	8	0,36	8 605	18	49			9 562	18	50			10 518	23	53
	10		10 757	28	55			11 952	28	56			13 147	35	59
450	4		4 841	4	30			5 378	4	31	0,50	0,41	5 916	5	34
	6		7 261	10	42	0,45	0,37	8 068	10	43			8 874	13	46
	8	0,41	9 681	17	49			10 757	17	50			11 832	21	53
	10		12 101	27	55			13 446	27	56			14 791	34	59
500	4		5 378	4	31			5 976	4	31	0,55	0,46	6 574	5	35
	6		8 068	10	43	0,50	0,42	8 964	10	43			9 860	13	47
	8	0,45	10 757	17	50			11 952	17	50			13 147	21	53
	10		13 446	27	56			14 940	27	56			16 434	34	59
550	4		5 916	4	31			6 574	4	32	0,61	0,50	7 231	5	35
	6		8 874	10	43	0,55	0,46	9 860	10	44			10 846	13	47
	8	0,50	11 832	17	50			13 147	17	51			14 462	21	54
	10		14 791	27	56			16 434	27	57			18 077	34	60
600	4		6 454	4	32			7 171	4	32	0,66	0,55	10 846	13	47
	6		9 681	10	44	0,60	0,50	10 757	10	44			11 832	13	47
	8	0,54	12 908	17	50			14 342	17	51			15 777	21	54
	10		16 135	27	56			17 928	27	57			19 721	34	60
650	4		6 992	4	32			7 769	4	32	0,72	0,59	8 546	5	36
	6		10 488	10	44	0,65	0,54	11 653	10	44			12 819	13	48
	8	0,59	13 984	17	51			15 538	17	51			17 091	21	55
	10		17 480	27	57			19 422	27	57			21 364	34	61
700	4		7 530	4	32			8 366	4	33	0,77	0,64	9 203	5	36
	6		11 295	9	43	0,70	0,58	12 550	9	43			13 805	11	47
	8	0,63	15 060	17	51			16 733	17	52			18 406	21	55
	10		18 824	26	57			20 916	26	57			23 008	33	60
750	4		8 068	4	33			8 964	4	33	0,83	0,68	9 860	5	36
	6		12 101	9	43	0,75	0,62	13 446	9	44			14 791	11	47
	8	0,68	16 135	17	51			17 928	17	52			19 721	21	55
	10		20 169	26	57			22 410	26	57			24 651	33	61
800	4		8 605	4	33			9 562	4	33	0,88	0,73	10 518	5	37
	6		12 908	9	43	0,80	0,66	14 342	9	44			15 777	11	47
	8	0,72	17 211	17	52			19 123	17	52			21 036	21	55
	10		21 514	26	57			23 904	26	58			26 294	33	61
850	4		9 143	4	33			10 159	4	34	0,94	0,78	11 175	5	37
	6		13 715	9	44	0,85	0,71	15 239	9	44			16 763	11	47
	8	0,77	18 287	17	52			20 318	17	52			22 350	21	56
	10		22 858	26	57			25 398	26	58			27 938	33	61
900	4		9 681	4	33			10 757	4	34	0,99	0,82	11 832	5	37
	6		14 522	9	44	0,90	0,75	16 135	9	44			17 749	11	48
	8	0,81	19 362	17	52			21 514	16	52			23 665	20	55
	10		24 203	26	58			26 892	25	58			29 581	31	61
950	4		10 219	4	34			11 354	4	34	1,05	0,87	12 490	5	37
	6		15 328	9	44	0,95	0,79	17 032	9	45					

B – nominal width [mm] v – velocity [m/s]
H – nominal height [mm] S_k – duct cross-section [m²] Q – flow [m³/h]
S_e – damper active cross-section [m²] d_p – pressure drop [Pa]
L_{WA} – damper noise level [dB]

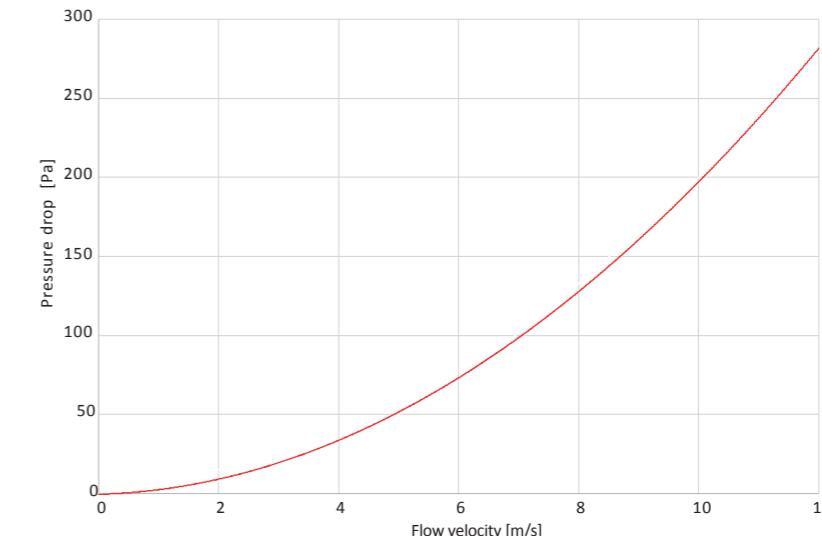
height H [mm]															
1500						1600			1700						
v [m/s]	S _k [m ²]	S _e [m ²]	Q [m ³ /s]	d _p [Pa]	L _{WA} [dB]	S _k [m ²]	S _e [m ²]	Q [m ³ /s]	d _p [Pa]	L _{WA} [dB]	S _k [m ²]	S _e [m ²]	Q [m ³ /s]	d _p [Pa]	L _{WA} [dB]
300	4		5 378	5	34		5 737	5	34		6 096	5	34		
	6		8 068	8	39		8 605	7	38		9 143	7	38		
	8	0,45	10 757	17	49	0,48	11 474	16	49	0,51	12 191	16	49		
	10		13 446	25	55		14 342	25	55		15 239	24	55		
350	4		6 275	2,75	27		6 693	2,5	26		7 111	2,25	25		
	6		9 412	9	42		10 040	9	42		10 667	8	41		
	8	0,53	12 550	16	49	0,56	13 386	15	49	0,60	14 223	15	49		
	10		15 687	24	55		16 733	24	55		17 779	23	55		
400	4		7 171	2,75	27		7 649	2,5	26		8 127	2,25	25		
	6		10 757	9	42		11 474	9	42		12 191	8	42		
	8	0,60	14 342	16	50	0,64	15 299	15	50	0,68	16 255	15	49		
	10		17 928	24	56		19 123	24	55		20 318	23	55		
450	4		8 068	2,75	28		8 605	2,5	27		9 143	2,25	26		
	6		12 101	9	43		12 908	9	43		13 715	8	43		
	8	0,68	16 135	13	48	0,72	17 211	13	48	0,77	18 287	12	47		
	10		20 169	22	55		21 514	21	54		22 858	20	54		
500	4		8 964	2,75	28		9 562	2,5	27		10 159	2,25	26		
	6		13 446	9	43		14 342	9	43		15 239	8	43		
	8	0,75	17 928	13	49	0,80	19 123	13	48	0,85	20 318	12	48		
	10		22 410	22	55		23 904	21	55		25 398	20	55		
550	4		9 860	2,75	29		10 518	2,5	28		11 175	2,25	26		
	6		14 791	9	44		15 777	9	44		16 763	8	43		
	8	0,83	19 721	13	49	0,88	21 036	13	49	0,94	22 350	12	48		
	10		24 651	22	56		26 294	21	55		27 938	20	55		
600	4		10 757	2,75	29		11 474	2,5	28		12 191	2,25	27		
	6		16 135	9	44		17 211	9	44		18 287	8	44		
	8	0,90	21 514	15	51	0,96	22 948	14	50	1,02	24 382	14	50		
	10		26 892	23	57		28 685	23	57		30 478	22	56		
650	4		11 653	2,75	29		12 430	2,5	28		13 207	2,25	27		
	6		17 480	9	44		18 645	9	44		19 810	8	44		
	8	0,98	23 306	15	51	1,04	24 860	14	51	1,11	26 414	14	51		
	10		29 133	23	57		31 075	23	57		33 017	22	57		
700	4		12 550	2,75	30		13 386	2,5	29		14 223	2,25	28		
	6		18 824	7	41		20 079	6	40		21 334	6	39		
	8	1,05	25 099	15	51	1,12	26 772	14	51	1,19	28 446	14	51		
	10		31 374	21	56		33 466	20	56		35 557	19	55		
750	4		13 446	2,75	30		14 342	2,5	29		15 239	2,25	28		
	6		20 169	7	41		21 514	6	40		22 858	6	39		
	8	1,13	26 892	15	52	1,20	28 685	14	51	1,28	30 478	14	51		
	10		33 615	21	56		35 856	20	56		38 097	19	56		
800	4		14 342	2,75	30		15 299	2,5	29		16 255	2,25	28		
	6		21 514	8	44		22 948	8	44		24 382	7	43		
	8	1,20	28 685	15	52	1,28	30 597	14	52	1,36	32 509	14	51		
	10		35 856	22	57		38 246	22	57		40 637	21	57		
850	4		15 239	4	35		16 255	4	36		17 271	4	36		
	6		22 858	8	44		24 382	8	44		25 906	7	44		
	8	1,28	30 478	16	53	1,36	32 509	16	53	1,45	34 541	15	53		
	10		38 097	24	58		40 637	23	58		43 177	23	58		
900	4		16 135	4	36		17 211	4	36		18 287	4	36		
	6		24 203	8	44		25 816	8	44		27 430	7	44		
	8	1,35	32 270	14	51	1,44	34 422	13	51	1,53	36 573	15	53		
	10		40 338	21	57		43 027	21	57		45 716	23	58		
950	4		17 032	4	36		18 167	4	36		19 302	4	36		
	6		25 547	8	44		27 251	8	44		28 954	7	44		
	8	1,43	34 063	12											

B – nominal width [mm]				v – velocity [m/s]				Q – flow [m³/h]							
				S_k – duct cross-section [m²]				d_p – pressure drop [Pa]							
				S_e – damper active cross-section [m²]				L_{WA} – damper noise level [dB]							
height H [mm]															
2100				2200				2300							
v [m/s]	S_k [m²]	S_e [m²]	Q [m³/s]	d_p [Pa]	L_{WA} [dB]	S_k [m²]	S_e [m²]	Q [m³/s]	d_p [Pa]	L_{WA} [dB]	S_k [m²]	S_e [m²]	Q [m³/s]	d_p [Pa]	L_{WA} [dB]
300	4		7 530	5	35			7 888	5	35			8 247	5	36
	6		11 295	5	34			11 832	4	32			12 370	4	31
	8		15 060	14	48			15 777	13	48			16 494	13	47
	10		18 824	21	54			19 721	20	53			20 617	19	53
	4		8 785	1,25	18			9 203	1	15			9 621	0,75	12
350	6		13 177	7	41			13 805	7	40			14 432	7	40
	8		17 569	13	48			18 406	12	47			19 243	12	47
	10		21 962	20	54			23 008	19	53			24 053	18	53
	4		10 040	1,25	18			10 518	1	16			10 996	0,75	12
400	6		15 060	7	41			15 777	7	41			16 494	7	41
	8		20 079	13	48			21 036	12	48			21 992	12	48
	10		25 099	20	54			26 294	19	54			27 490	18	54
	4		11 295	1,25	19			11 832	1	16			12 370	0,75	13
450	6		16 942	7	42			17 749	7	42			18 555	7	41
	8		22 589	9	44			23 665	8	43			24 741	7	42
	10		28 237	16	52			29 581	15	51			30 926	14	51
	4		12 550	1,25	19			13 147	1	17			13 745	0,75	13
500	6		18 824	7	42			19 721	7	42			20 617	7	42
	8		25 099	9	45			26 294	8	44			27 490	7	43
	10		31 374	16	53			32 868	15	52			34 362	14	51
	4		13 805	1,25	20			14 462	1	17			15 119	0,75	13
550	6		20 707	7	43			21 693	7	42			22 679	7	42
	8		27 609	9	45			28 924	8	44			30 239	7	43
	10		34 511	16	53			36 155	15	52			37 798	14	52
	4		15 060	1,25	20			15 777	1	17			16 494	0,75	14
600	6		22 589	7	43			23 665	7	43			24 741	7	42
	8		30 119	12	49			31 553	11	49			32 988	11	48
	10		37 649	19	55			39 442	18	55			41 234	17	55
	4		16 314	1,25	20			17 091	1	18			17 868	0,75	14
650	6		24 472	7	43			25 637	7	43			26 802	7	43
	8		32 629	12	49			34 183	11	49			35 736	11	49
	10		40 786	19	56			42 728	18	55			44 671	17	55
	4		17 569	1,25	21			18 406	1	18			19 243	0,75	15
700	6		26 354	4	34			27 609	3	32			28 864	3	30
	8		35 139	12	50			36 812	11	49			38 485	11	49
	10		43 924	15	53			46 015	14	52			48 107	13	52
	4		18 824	1,25	21			19 721	1	18			20 617	0,75	15
750	6		28 237	4	34			29 581	3	33			30 926	3	30
	8		37 649	12	50			39 442	11	50			41 234	11	49
	10		47 061	15	53			49 302	14	53			51 543	13	52
	4		20 079	1,25	21			21 036	1	19			21 992	0,75	15
800	6		30 119	6	42			31 553	6	42			32 988	6	42
	8		40 159	12	50			42 071	11	50			43 983	11	49
	10		50 198	18	56			52 589	17	56			54 979	16	55
	4		21 334	4	37			22 350	4	37			23 366	4	37
850	6		32 001	6	43			33 525	6	42			35 049	6	42
	8		42 669	14	53			44 700	14	53			46 732	14	53
	10		53 336	21	58			55 876	20	58			58 415	20	58
	4		22 589	4	37			23 665	4	37			24 741	4	37
900	6		33 884	6	43			35 497	6	43			37 111	6	42
	8		45 179	11	50			47 330	10	49			49 481	10	49
	10		56 473	17	56			59 162	16	55			61 852	15	55
	4		23 844	4	37			24 980	4	37			26 115	4	38
950	6		35 766	6	43			37 470	6	43			39 173	6	42
	8		47 688	9	47			49 959	8	46			52 230	7	46
	10		59 611	15	54			62 449	14	54					

10 SEALED DAMPER BLADE TIGHTNESS ACCORDING TO EN1751



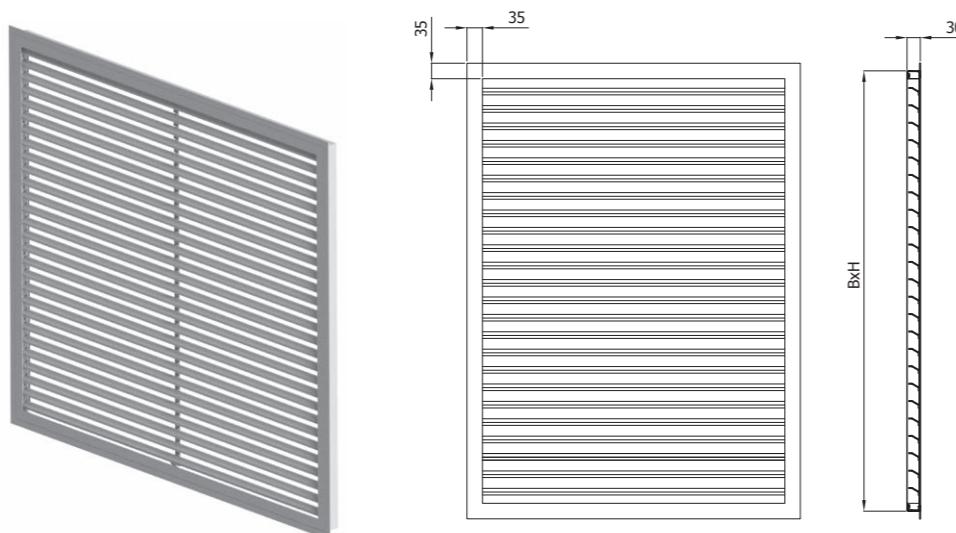
» Pressure drop on masking grilles



11 ACCESSORIES

11.1 mcr MWS system masking element

MWS system masking elements are designed to fulfill either supply or exhaust function. They enable the transfer of air through construction partitions. They come with fixed steel louvers with a 40 mm span, obscuring damper visibility. Bolts embedded in the damper are used to attach the masking element body. After installation, an outer frame is mounted on the masking element body so that the holes and bolts cannot be seen from the outside. Such a solution allows for installing the product even in the most visually-demanding applications. The masking elements are painted in RAL 9010 as a standard (available in any colour from the RAL range on request).



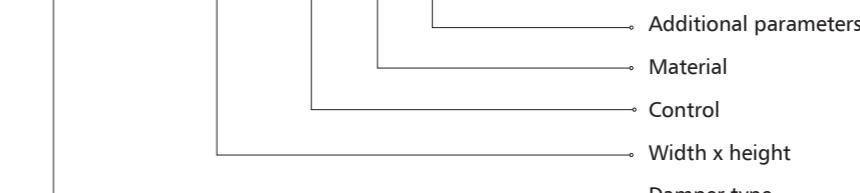
Marking:



X – material
[no symbol] – RAL9010
RALXXXX – selected color code from the RAL palette

12 MARKING

mcr WIP LD / B x H / 1 / 2 / 3



1 – control

» trigger control mechanism

BE24 – actuator without a return spring, U = 24 V AC/DC

BE24-ST (with the BKE230-24 option) – actuator without a return spring, for the SBS Control system

BE230 – actuator without a return spring, U = 230 V AC/DC

BEE24 – actuator without a return spring, U = 24 V AC/DC

BEN24 – actuator without a return spring, U = 24 V AC/DC

BEE24-ST (with the BKE230-24 option) – actuator without a return spring, for the SBS Control system

BEN24-ST (with the BKE230-24 option) – actuator without a return spring, for the SBS Control system

BEE230 – actuator without a return spring, U = 230 V AC/DC

BEN230 – actuator without a return spring, U = 230 V AC/DC

2 – material

[no symbol] – galvanized steel, Zn 275 m² coating

KN – stainless steel

KK – 1.4404 acid-proof steel

3 – additional parameters

» Damper axis of rotation

[no symbol] – horizontal axis of rotation

[no symbol] – left damper

[no symbol] – not painted

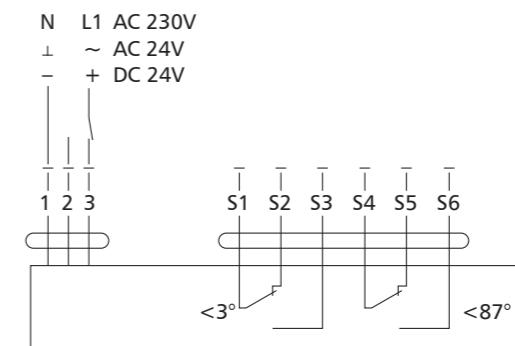
RAL9005 – damper blades and internal casing from the side of the actuator are painted black

Note: separate additional parameters entered with the "/" sign

example marking: mcr WIP LD / V 400 x 400 BLE24

Door-type smoke control damper with a 24 V actuator with limit switches.

13 CONTROL





➤ **HQ Gdańsk**

- 📍 Grzegorza z Sanoka 2
- 80-408 Gdańsk, Poland
- 📞 (+48) 58 341 42 45
- (+48) 58 341 39 85
- ✉ hw.export@mercorgroup.com.pl

www.mercor.com.pl/en



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