



BMZN

Weather louvre (customised) Aluminium Weatherproof vane

Available types

B M Z N - -

- B** weather louvre
- M** wall louvre
- Z** anodised aluminium vane 66 mm
- N** anodised aluminium frame 50 mm, fixed

- Mesh

- G** galvanised mesh (standard)
- S** stainless steel insect mesh

- Accessories

- I** burglar protection
- W** drainage duct (only in combination with stainless steel insect mesh)
- X** burglar protection + drainage duct (only in combination with stainless steel insect mesh)
- O** none

SA-Select

Check SA-Select to create extended order codes and selection details online. **NB!** At this moment, SA-Select is only available in Dutch. But it is possible to create extended order codes and selection details online.

Use

The BMZN louvre is suitable for air supply or discharge. The louvre is available as a customised alternative to the BMYN louvre. The louvre can be combined to extremely large sizes by putting together two or more segments. The maximum segment size is 6 metres wide and 2.4 metres high in connection with transport. The louvre is also available in different shapes, such as: triangle, round, trapezium. Diffusers in different shapes are welded and therefore should always be spray painted in color. Standard composite louvres are also available to $W \times H = 4000 \times 2025$ mm in the more economical BMYN version.

Characteristics

Free flow:	53 %
Fixed blind vanes*:	66 mm
Weight:	approx. 16.5 kg/m ²

*At the top of the louvre, any remaining space is covered with an insert.

Version

Weather louvre

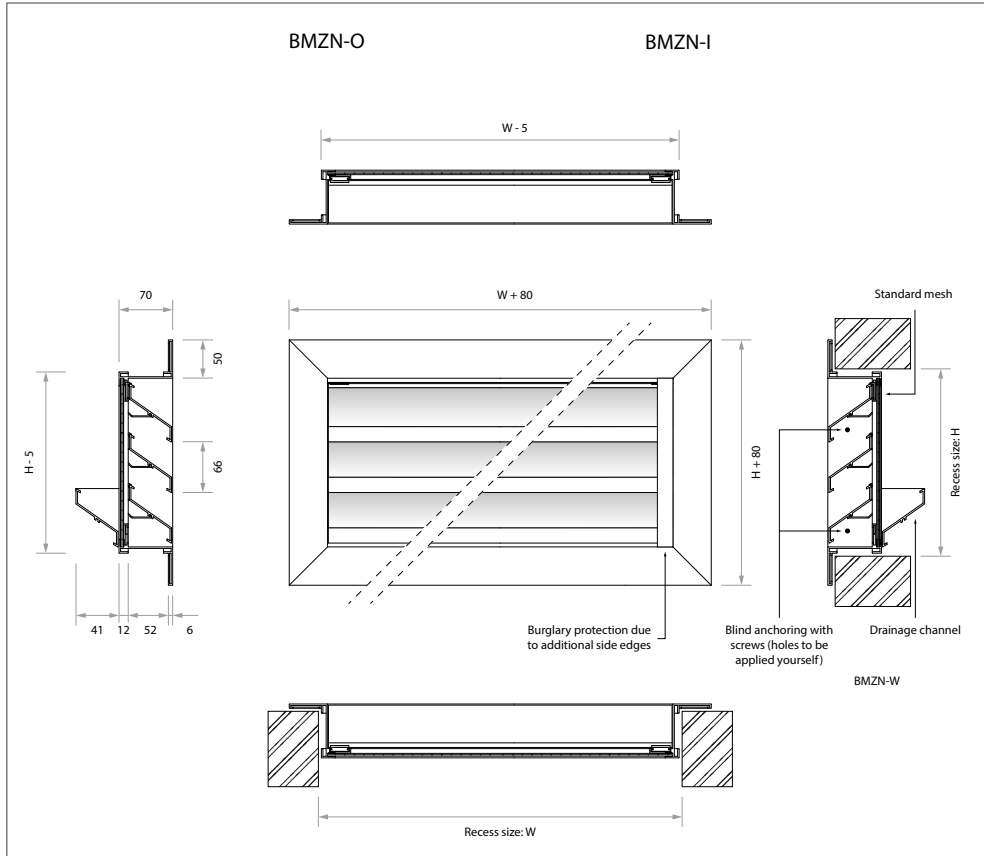
Frame:	anodised aluminium
Vaness:	anodised aluminium
Post-treatment:	none
Mesh:	10 x 10 mm, galvanised

Optional

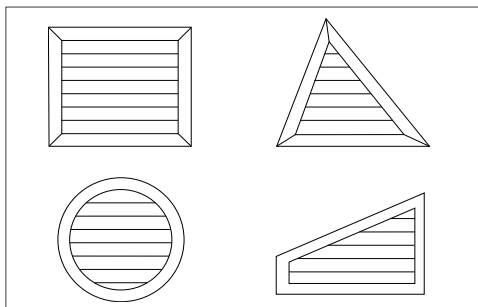
Insect mesh*:	stainless steel, 1.4 x 1.4 mm
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*The use of insect mesh reduces the net free flow and this has consequences for the design details. They are available in SA-Select.

Dimensions



Formats



The maximum width and height may cover the façade.

Note

- The listed dimensions are in mm.
- $W \times H$ is the recess size.
- Blind anchoring with screws requires the removal of one vane, following which a hole can be drilled in the frame; see right view above. After fitting the louvre, the removed vane can be put back and will cover the screw.
- When burglar protection is used, the louvre needs to be fitted from the inside.
- It is recommended to fit a drainage option in the duct behind the louvres. At the front, the standard drainage duct discharges to the outside below the lowest vane.

Selection details

BMZNG

air volume		required free flow in m ²											
		0.05		0.06		0.08		0.1		0.125		0.15	
m ³ /s	m ³ /h	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)
0.080	288	5	5										
0.100	360	8	10	6	6								
0.150	540	19	21	13	17	7	11	5	6				
0.200	720	33	28	23	25	13	18	8	13	5	9	4	5
0.250	900	51	34	36	30	20	24	13	19	8	14	6	10
0.300	1080	74	39	51	35	29	29	19	24	12	19	8	15
0.400	1440	132	47	91	43	51	36	33	32	21	27	15	23
0.500	1800					80	42	51	37	33	32	23	29
0.600	2160					116	47	74	42	47	37	33	33
0.800	2800									84	45	59	41
1.000	3600									132	51	91	47

air volume		required free flow in m ²																						
		0.2		0.25		0.3		0.4		0.5		0.6		0.8		1.0		1.25		1.5		2		
m ³ /s	m ³ /h	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	Δp_t Pa	L_{pA} dB(A)	
0.250	900	3	4																					
0.300	1080	5	9	3	4																			
0.400	1440	8	16	5	12	4	8																	
0.500	1800	13	22	8	17	6	13	3	7															
0.600	2160	19	27	12	22	8	18	5	12	3	7													
0.800	2800	33	35	21	30	15	26	8	19	5	15	4	11											
1.000	3600	51	40	33	35	23	32	13	25	8	20	6	16	3	10	2	5							
1.500	5400	116	51	74	46	51	42	29	36	19	31	13	27	7	21	5	16	3	11	2	7			
2.000	7200			132	54	91	50	51	43	33	38	23	35	13	28	8	23	5	19	4	15	2	8	
2.500	9000					143	55	80	49	51	44	36	40	20	34	13	29	8	24	6	20	3	14	
3.000	10800							116	54	74	49	51	45	29	39	19	34	12	29	8	25	5	19	
4.000	14400									132	57	91	53	51	46	33	42	21	37	15	33	8	26	
5.000	18000											143	58	80	52	51	47	33	42	23	39	13	32	
6.000	21600													116	57	74	52	47	47	33	43	19	37	
8.000	28800														132	60	84	55	59	51	33	45		
10.000	36000																132	61	91	57	51	50		

Preferred range (approx. 4 m/s over net surface).

General

- $L_{pA} = L_{WA} - 10$ dB.
- It is permitted to interpolate the interim values.
- Sound and pressure loss data apply when the discharge goes to the outside.

Correction data

- When air is drawn in, the values in the table need to be corrected with the following factors:
 $\Delta p_t = \text{table value} \times 1,2$
 $L_{pA} = \text{table value} + 5$ dB.

Free flow

H	W													
	425	625	825	1025	1225	1425	1625	1825	2025	3025	4025	5025	6000	
	m ²	m ²	m ²	m ²	m ²	m ²	m ²	m ²	m ²	m ²	m ²	m ²	m ²	
325	0.0522	0.0775	0.1026	0.1279	0.1531	0.1783	0.2035	0.2287	0.2538	0.3791	0.5044	0.6298	0.7551	
525	0.1026	0.1520	0.2015	0.2509	0.3003	0.3498	0.3992	0.4487	0.4981	0.7440	0.9900	1.2360	1.4820	
825	0.1792	0.2656	0.3520	0.4384	0.5248	0.6112	0.6976	0.7840	0.8704	1.3002	1.7300	2.1599	2.5597	
1025	0.2232	0.3308	0.4384	0.5460	0.6536	0.7612	0.8688	0.9764	1.0840	1.6193	2.1546	2.6898	3.2118	
1225	0.2672	0.3960	0.5248	0.6536	0.7824	0.9112	1.0400	1.1688	1.2976	1.9383	2.5791	3.2199	3.8447	
1425	0.3854	0.4612	0.6112	0.7612	0.9112	1.0612	1.2112	1.3612	1.5112	2.2574	3.0036	3.7499	4.4774	
1625	0.3552	0.5264	0.6976	0.8688	1.0400	1.2112	1.3824	1.5536	1.7247	2.5764	3.4281	4.2798	5.1102	
1825	0.3992	0.5916	0.7840	0.9764	1.1688	1.3612	1.5536	1.7459	1.9383	2.8954	3.8526	4.8098	5.7431	
2025	0.4432	0.6568	0.8704	1.0840	1.2976	1.5112	1.7247	1.9383	2.1519	3.2145	4.2771	5.3397	6.3758	
2225	0.4919	0.7233	0.9548	1.1863	1.4178	1.6493	1.8807	2.1122	2.3437	3.5011	4.6585	5.8200	6.9444	
2400	0.5411	0.7957	1.0503	1.3050	1.5596	1.8142	2.0609	2.3235	2.5781	3.8513	5.1245	6.3977	7.6390	