BMZN

Weather louvre (customised)

Aluminium

Weatherproof vane

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.
Standard composite louvres are also available to W x H = 4000 x 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
vanes:	anodised aluminium
post-treatment:	none
mesh:	10 x 10 mm, galvanised

Optional

insect mesh*:	stainless steel, 1.4 x 1.4 mm

*The use of insect mesh reduces the net free flow and this has consequences for the design details. They are available in SA-Select.

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.

Available types

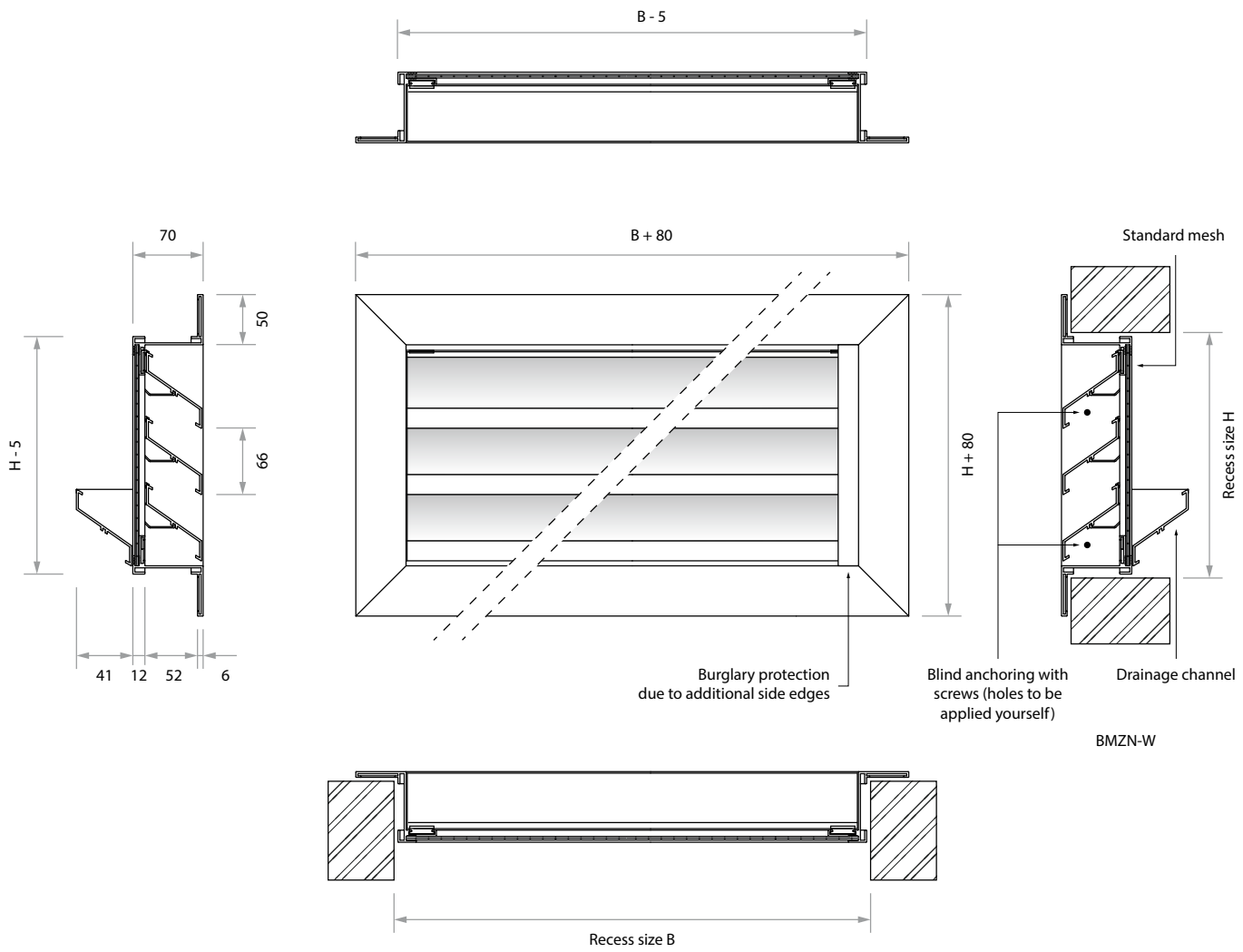
B M Z N - -

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

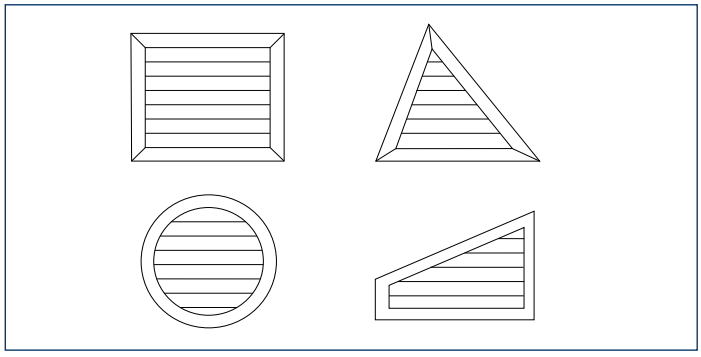
- **Mesh**
  - **G** galvanised mesh (standard)
  - **S** stainless steel insect mesh

- **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

Dimensions



Formats



The maximum width and height may cover the façade.

Note

- The dimensions are in mm.
- W x 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 m²											
		0.05		0.06		0.08		0.1		0.125		0.15	
m³/s	m³/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 m²																					
		0.2		0.25		0.3		0.4		0.5		0.6		0.8		1.0		1.25		1.5		2.0	
m³/s	m³/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:
  Δp_t = table value x 1.2.
  L_{pA} = table value + 5 dB.

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.

Free flow

H	W												
	425	625	825	1025	1225	1425	1625	1825	2025	3025	4025	5025	6000
	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²
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