



WGZD/WGZC

Wand-/deurooster Klankdempend Doorvoer

Available types

WGZ--O

- W** wall diffuser
- G** sound attenuating
- Z** sightproof

- Frame, fixed 29 mm

- D** double-sided
- C** single-sided

- Double-sided thickness: Single-sided thickness:

- | | |
|----------------------|----------------|
| D = 40 - 69 | D = 45 |
| C = 70 - 89 | C = 75 |
| H = 90 - 99 | H = 95 |
| K = 100 - 109 | K = 105 |
| E = 110 - 150 | E = 115 |

- O** not applicable

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 WGZD (WGZC) sound attenuating wall/door diffuser is suitable for air transfer. The diffuser can be fitted in a door or a wall. The diffusers reduce the noise transfer between connected rooms. The diffusers have standard mounting holes in the frame.

Characteristics

free flow: approx. 10 %
(depending on the height)

Version

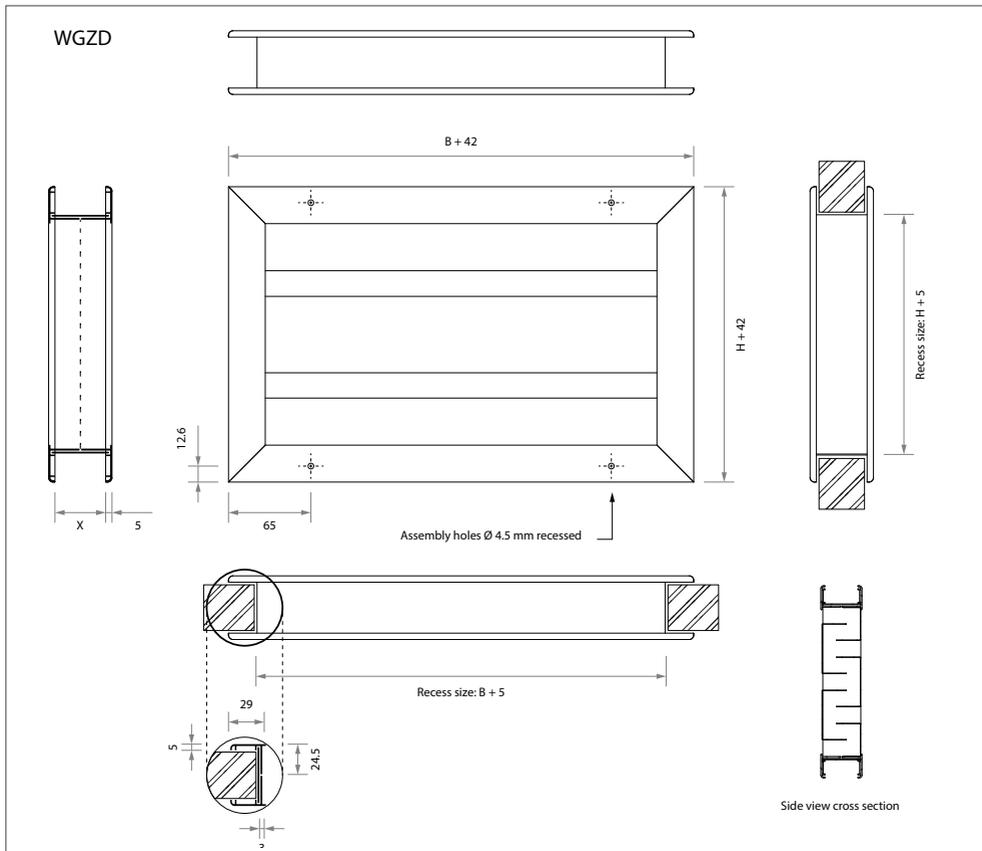
Wall/door diffuser

Frame: anodised aluminium
Vanes: steel
Post-treatment: epoxy
Colour: white RAL 9010, optional RAL colour
of your choice

Optional

Also available without mounting holes (fitted with sealant).

Dimensions



Standard dimensions

H	B							
	225	325	425	525	625	825	1025	1225
110	■	■	■	■	■	■	■	■
190	■	■	■	■	■	■	■	■
270	■	■	■	■	■	■	■	■
350	■	■	■	■	■	■	■	■
430	■	■	■	■	■	■	■	■
510	■	■	■	■	■	■	■	■
590			■	■	■	■	■	■
670			■	■	■	■	■	■
750				■	■	■	■	■
830					■	■	■	■
910						■	■	■
990							■	■

Available dimensions

- Width min. 225, max. 1225.
- Height min. 110, max. 990.
- Interim widths available in increments of 5 mm.

Note

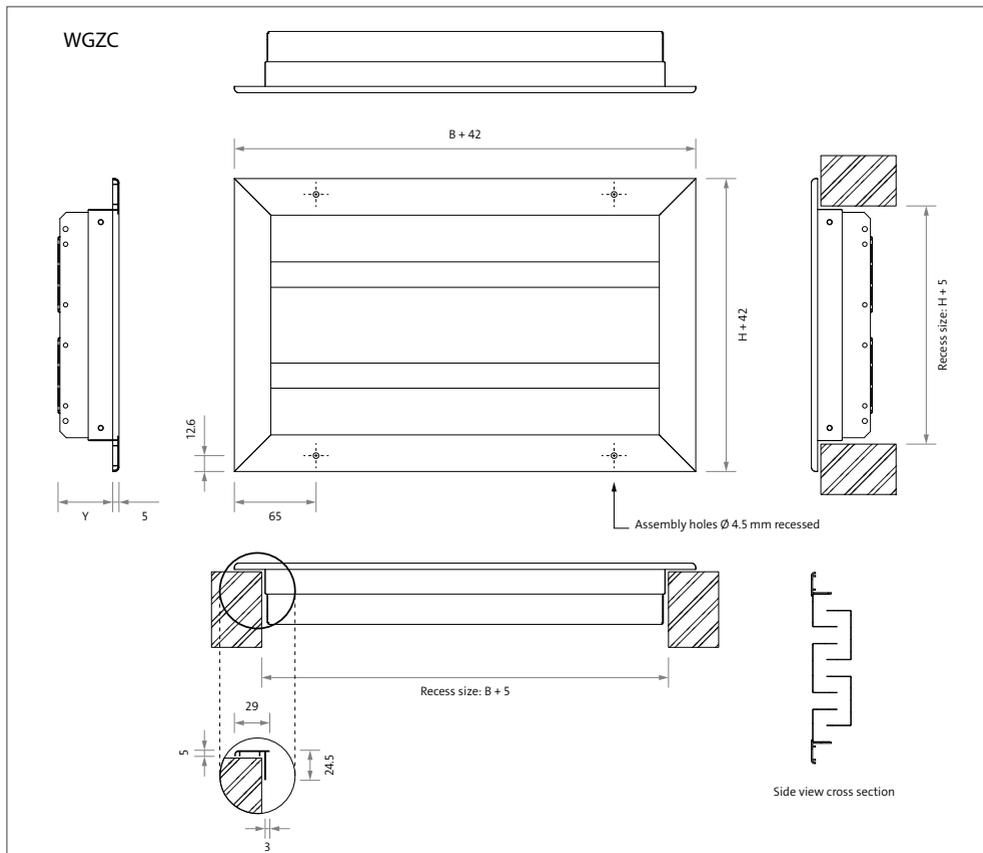
- The listed dimensions are in mm.
- Recess size: $B + 5 \times H + 5$.

Wall/door thickness

- WGZDDO: $x = 40 - 69$
- WGZDCO: $x = 70 - 89$
- WGZDHO: $x = 90 - 99$
- WGZDKO: $x = 100 - 110$
- WGZDEO: $x = 110 - 150$

For a wall thickness greater than 110 mm, we recommend using a WGZC-O diffuser in combination with a 1/2 WGZDDO. Take into account a built-in depth of 30 mm for the 1/2 WGZDDO.

Dimensions



Standard dimensions

H	B							
	225	325	425	525	625	825	1025	1225
110	■	■	■	■	■	■	■	■
190	■	■	■	■	■	■	■	■
270	■	■	■	■	■	■	■	■
350	■	■	■	■	■	■	■	■
430	■	■	■	■	■	■	■	■
510	■	■	■	■	■	■	■	■
590			■	■	■	■	■	■
670			■	■	■	■	■	■
750				■	■	■	■	■
830					■	■	■	■
910						■	■	■
990							■	■

Available dimensions

- Width min. 225, max. 1225.
- Height min. 110, max. 990.
- Interim widths available in increments of 5 mm.

Note

- The listed dimensions are in mm.
- Recess size: $B + 5 \times H + 5$.

Wall/door thickness

- WGZCDO: $y = 45$
- WGZCCO: $y = 75$
- WGZCHO: $y = 95$
- WGZCKO: $y = 105$
- WGZCEO: $y = 115$

For a wall thickness greater than 115 mm, we recommend using a WGZC-O diffuser in combination with a 1/2 WGZDDO. Take into account a built-in depth of 30 mm for the 1/2 WGZDDO.

Selection details

WGZD and WGZC

Pressure loss sound attenuating transfer diffuser

WGZDDO and WGZCDO in Pa.

air volume		required free flow in m ²																		
m ³ /s	m ³ /h	0.002	0.003	0.004	0.005	0.006	0.008	0.01	0.0125	0.015	0.02	0.025	0.03	0.04	0.05	0.06	0.08	0.10	0.125	0.15
0.005	18	6																		
0.006	22	9	4																	
0.008	29	16	7	4																
0.010	36	25	11	6	4	3	2													
0.013	45		17	10	6	4	2	2												
0.015	54		25	14	9	6	4	2												
0.020	72			25	16	11	6	4	3	2										
0.025	90				25	17	10	6	4	3	2									
0.030	108					25	14	9	6	4	2									
0.040	144						25	16	10	7	4	3	2							
0.050	180							25	16	11	6	4	3	2						
0.060	216								23	16	9	6	4	2						
0.080	288									28	16	10	7	4	3	2				
0.100	360										25	16	11	6	4	3	2			
0.125	450											25	17	10	6	4	2			
0.150	540												25	14	9	6	4	2		
0.200	720													25	16	11	6	4	3	2
0.250	900														25	17	10	6	4	3
0.300	1080															25	14	9	6	4
0.400	1440																25	16	10	7
0.500	1800																	25	16	11

preferred range when used in doors: 8 - 10 Pa.

Free flow sound attenuating transfer diffuser

WGZD and WGZC in m²

H	B							
	225	325	425	525	625	825	1025	1225
110	0.0017	0.0025	0.0033	0.0041	0.0049	0.0065	0.0081	0.0097
190	0.0034	0.0050	0.0066	0.0083	0.0099	0.0131	0.0164	0.0188
270	0.0052	0.0076	0.0101	0.0125	0.0150	0.0199	0.0248	0.0298
350	0.0070	0.0103	0.0136	0.0169	0.0203	0.0269	0.0335	0.0402
430	0.0088	0.0130	0.0172	0.0214	0.0256	0.0340	0.0424	0.0508
510	0.0108	0.0160	0.0212	0.0263	0.0315	0.0418	0.0521	0.0624
590			0.0253	0.0314	0.0376	0.0499	0.0622	0.0745
670			0.0295	0.0367	0.0439	0.0583	0.0727	0.0871
750					0.0505	0.0671	0.0836	0.1002
830						0.0761	0.0949	0.1137
910						0.0855	0.1067	0.1278
990							0.1188	0.1423

Attenuation values

WGZD and WGZC in dB measured on the diffuser

		attenuation values								
		63	125	250	500	1k	2k	4k	8k	Hz
build-in depth	40 mm	8	9	6	6	12	22	23	21	dB
	110 mm	8	10	7	11	15	26	24	22	dB

General

- The attenuation data is based on a comparable measurement between a recess of 525 x 510 mm and a diffuser of the same size.
- In all critical situations, such as acoustically hard rooms and/or a smaller distance between the source of noise, diffuser and receiver, please consult an acoustic adviser.
- It is permitted to interpolate the interim values.