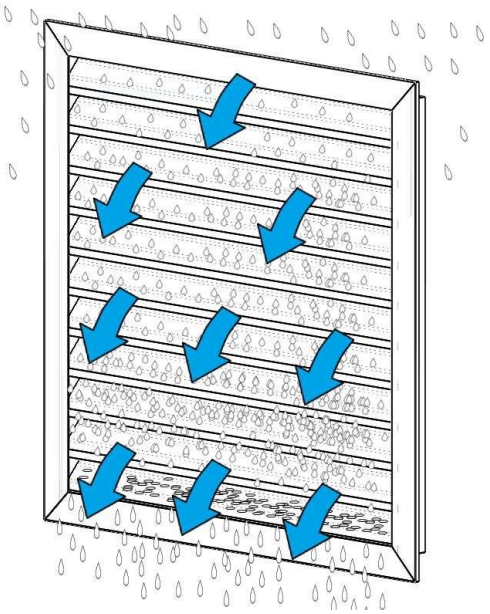
Weather Proof Louvre

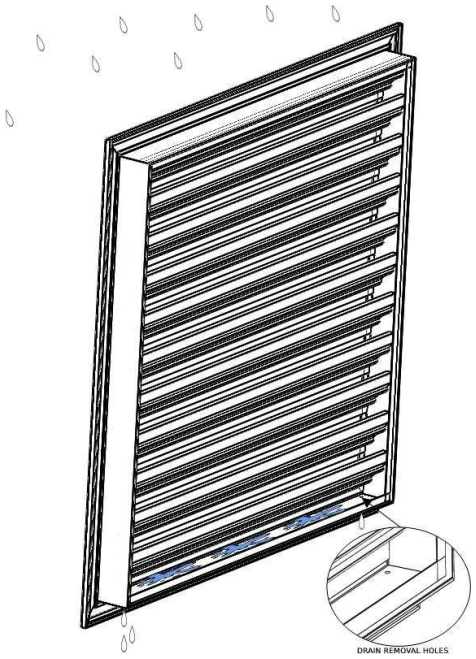
General Information:

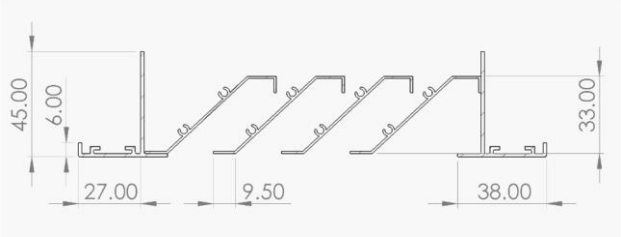
The Weatherproof louvres are designed to allow air to pass through it while keeping out unwanted elements such as water and debris. The basic considerations for selecting louvres are Louvre Free Area, Air Flow and Resistance to Airflow (Pressure Loss). The louvre is manufactured from 6061-T6 grade Aluminum to meet Australian Standards AS1866 and AS3902, powder coated to AS3715

Features:

- Weatherproof blades design
- Wire vermin mesh included
- Standard finish: Natural Anodised
- Size manufactured on request
- Structured in accordance with AS/NZS1664.1:1997 – Aluminum structures Part 1: Limit stage design Building Code of Australia
- Tested & certified AS/NZS 4740:2000 Rain and Wind Loading Resistance







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Quick Selection Table

Flow rate		Dim	200 x 100	200 x 100	300 x 100 / 200 x 150	400 x 100 / 200 x 200	500 x 100 / 350 x 150 / 250 x 200	600 x 100 / 400 x 150 / 300 x 200	500 x 150 / 400 x 200 / 300 x 250	600 x 150 / 450 x 200 / 360 x 250	300 x 300	800 x 150	600 x 200 / 500 x 250 / 400 x 300	800 x 200 / 600 x 250 / 500 x 300	1000x200 / 800 x 250 / 600 x 300	1000x300 / 750 x 400	900 x 400 / 700 x 500 / 600 x 500	1000x400
(m³/h)	(l/s)	A_k	0.0051	0.0025	0.0079	0.0108	0.0133	0.0215	0.0272	0.0321	0.0402	0.0473	0.0479	0.0664	0.0609	0.1366	0.1758	0.01433
50	13.9	V_k	2.7	2.1	1.8	1.3	1.0	0.8										
		P_t	12.0	7.4	5.0	2.7	1.8	1.0										
		NR	25	20	16	9	5	-1										
60	16.7	V_k	3.3	2.6	2.1	1.5	1.3	0.9										
		P_t	17.3	10.7	7.2	3.9	2.5	1.3										
		NR	30	25	21	14	10	3										
70	19.4	V_k	3.8	3.0	2.5	1.8	1.5	1.0										
		P_t	23.5	14.5	9.8	5.3	3.5	1.7										
		NR	34	29	24	18	13	6										
80	22.2	V_k	4.4	3.4	2.8	2.1	1.7	1.2										
		P_t	30.8	18.9	12.8	6.9	4.5	2.2										
		NR	37	32	28	21	17	9										
90	25.0	V_k	4.9	3.8	3.2	2.3	1.9	1.3	0.9									
		P_t	38.9	24.0	16.2	8.7	5.7	2.7	1.4									
		NR	40	36	31	24	20	12	4									
100	27.8	V_k	5.4	4.3	3.5	2.6	2.1	2.1	1.0									
		P_t	48.1	29.6	20.0	10.7	7.1	6.9	1.7									
		NR	43	37	33	27	22	24	7									
160	44.4	V_k		6.8	5.5	4.1	3.3	2.6	1.6	1.4	1.1							
		P_t		75.5	51.3	27.4	18.1	10.8	4.3	3.1	2.0							
		NR		49	45	36	34	29	19	15	10							
200	55.6	V_k			7.0	5.1	4.2	3.2	2.0	1.7	1.4							
		P_t			80.1	42.9	28.3	16.9	6.8	4.9	3.1							
		NR			50	44	39	36	24	21	16							
250	69.4	V_k				6.4	5.2	3.9	2.6	2.2	1.7	1.5	1.4	1.0				
		P_t				67.0	44.2	24.3	10.6	7.6	4.8	3.5	3.4	1.8				
		NR				49	45	39	30	26	21	18	18	11				
300	83.3	V_k					6.3	5.2	3.1	2.6	2.1	1.8	1.7	1.3	1.0			
		P_t					63.5	43.3	15.2	10.9	7.0	5.0	4.9	2.6	1.7			
		NR					49	46	34	31	26	22	22	15	11			
400	111.1	V_k						6.5	4.1	3.5	2.8	2.3	2.3	1.7	1.4	0.8		
		P_t						67.6	27.0	19.4	12.4	8.9	8.7	4.5	3.1	1.1		
		NR						52	41	38	33	30	29	22	18	7		

Symbols:

A_k - Effective area

V_k - Effective velocity in m/s

Pressure (P_t) - All pressures are in Pa (N/m^2)

NR - Noise level index in dB based on a room absorption and one diffuser

Quick Selection Table

Flow rate		Dim	200 x 100	200 x 100	300 x 100 / 200 x 150	400 x 100 / 200 x 200	500 x 100 / 350 x 150 / 250 x 200	600 x 100 / 400 x 150 / 300 x 200	500 x 150 / 400 x 200 / 300 x 250	600 x 150 / 450 x 200 / 360 x 250	300 x 300	800 x 150	600 x 200 / 500 x 250 / 400 x 300	800 x 200 / 600 x 250 / 500 x 300	1000x200 / 800 x 250 / 600 x 300	1000x300 / 750 x 400	900 x 400 / 700 x 500 / 600 x 500	1000x400
(m^3/h)	(l/s)	A_k	0.0051	0.0025	0.0079	0.0108	0.0133	0.0215	0.0272	0.0321	0.0402	0.0473	0.0479	0.0664	0.0609	0.1366	0.1758	0.01433
500	138.9	V_k						6.5	5.1	4.3	3.5	29	2.9	2.1	1.7	1.0		
		P_t						67.6	42.2	30.3	19.3	14.0	13.6	7.1	4.8	1.7		
		NR						52	47	43	39	36	36	28	24	13		
600	166.7	V_k							6.1	5.2	4.1	3.5	3.5	2.5	2.1	1.2	0.9	
		P_t							60.8	43.7	27.8	20.1	19.6	10.2	6.9	2.4	1.5	
		NR							51	48	43	40	39	32	28	17	12	
700	194.4	V_k							7.1	6.1	4.8	4.1	4.1	2.9	2.4	1.4	1.1	0.6
		P_t							82.8	59.4	37.9	27.4	26.7	13.9	9.4	3.3	2.0	0.7
		NR							55	52	47	43	43	36	32	21	15	4
800	222.2	V_k								6.9	5.5	4.7	4.6	3.3	2.7	1.6	1.3	0.7
		P_t								77.6	49.5	36.8	34.9	18.1	12.2	4.3	2.6	0.9
		NR								56	50	47	46	39	36	24	19	7
900	250.0	V_k									6.2	5.3	5.2	3.8	3.1	1.8	1.4	0.8
		P_t									62.7	45.3	44.1	23.0	15.5	5.4	3.3	1.1
		NR									53	50	49	42	38	27	22	10
1000	277.8	V_k									6.9	5.9	5.8	4.2	3.4	2.0	1.6	0.9
		P_t									77.3	55.9	54.5	28.4	19.1	6.7	4.0	1.4
		NR									56	52	52	45	41	30	24	13
1600	444.4	V_k												6.7	5.5	3.3	2.5	1.5
		P_t												72.6	48.9	17.2	10.4	3.6
		NR												57	52	41	36	25
2000	566.6	V_k													6.9	4.1	3.2	1.9
		P_t													76.4	26.5	16.2	5.5
		NR													58	47	41	30
3000	833.3	V_k														6.1	4.7	2.8
		P_t														60.4	36.4	12.5
		NR														57	51	40
3600	927.2	V_k															5.5	3.2
		P_t															40.5	17.0
		NR															56	44
4000	1111	V_k															6.3	3.7
		P_t															64.7	22.2
		NR															59	47

Symbols:

A_k - Effective area

V_k - Effective velocity in m/s

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NR - Noise level index in dB based on a room absorption and one diffuser

Installation Instructions for Weatherproof Louvre:

1. Determine the required dimensions for the cut-out by referring to the dimensions of the galvanised steel box. Opt for a smaller opening to ensure a secure fit for the box.

2. Cut an appropriate opening in the wall using the suitable cutting method based on the material (brick, weatherboard, or sheeting).

3. Install the vent by first inserting the galvanised steel box into the cut-out and then securing the louvre to the wall. Once the louver is level and in the proper position, fasten the louvre frame to clip angles with screws (by others). Caulk around the entire perimeter of the louver using a silicone-based adhesive. Ensure a complete seal around the outside of the plate's face to prevent water penetration

4. **WARNING**: If it is multiple-section louvre installation, structural steel or stiffener angle (by others) is required to support the middle join section, caulk the gap between multiple sections to avoid water penetration.