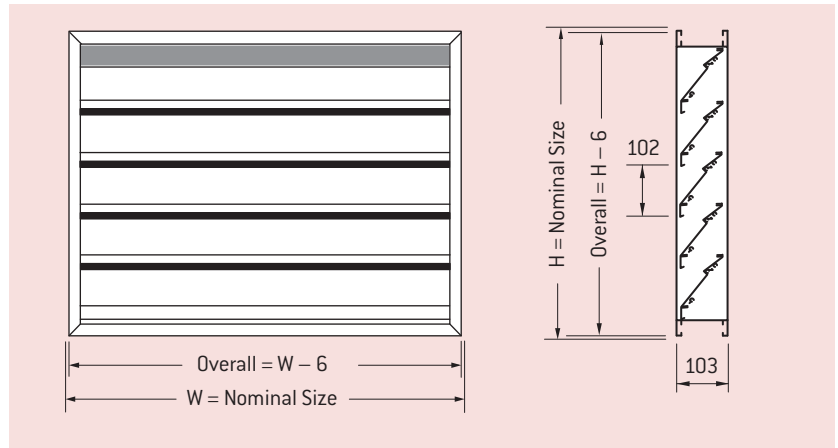


# OHL – Outside Horizontal Louvers

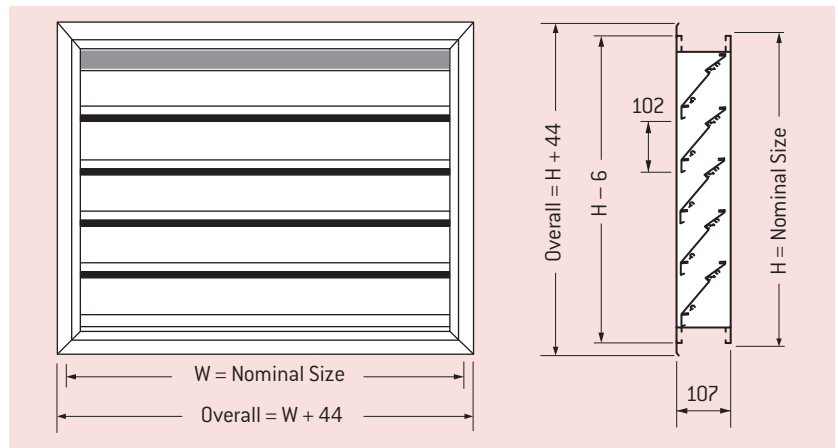
## Model: OHL-C-102

102mm horizontal curved profile louvers in a channel surround. Blade features double weather stop.



## Model: OHL-F-102

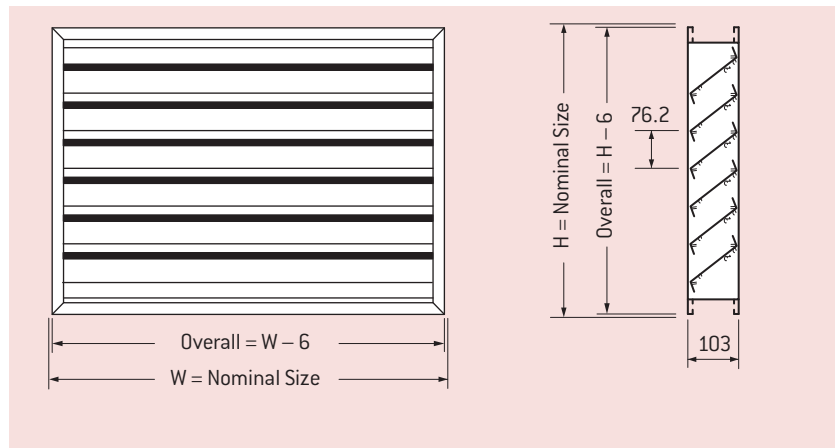
102mm horizontal curved profile louvers in a flanged surround. Blade features double weather stop.



Guide Product Weights				
Approximate Weight in Kg.				
Size	OHL-C-102	OHL-F-102	OHL-C-124	OHL-F-124
300 x 300	3	3	3	3
500 x 500	6	6	6	6
900 x 900	16	16	16	16
1200 x 1200	27	27	27	27
1500 x 1800	46	46	46	46
2500 x 2000	81	81	81	81

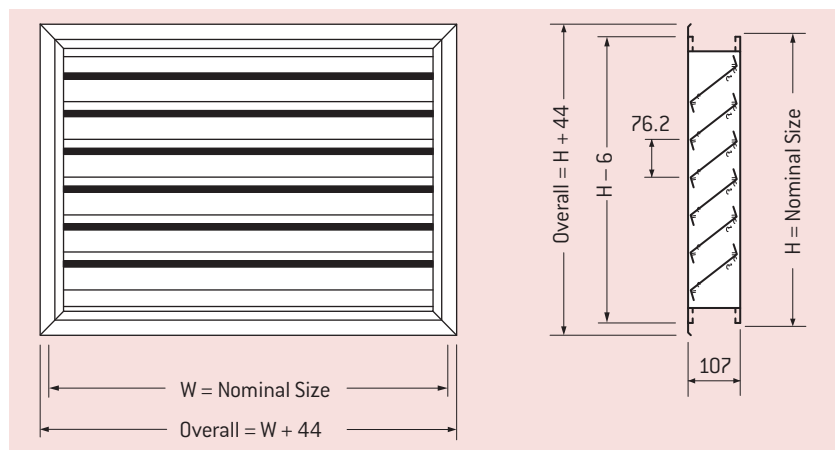
## Model: OHL-C-124

76mm horizontal straight profile louvers in a channel surround. (For continuous appearance with concealed mullion specify OHL-C-124-A)



## Model: OHL-F-124

76mm horizontal straight profile louvers in a flanged surround. (For continuous appearance with concealed mullion specify OHL-F-124-A)



Model: OHL 102 and OHL 124 are available in conventional unit construction, with a maximum blade length of 2.8 metres, or for greater lengths an architectural style is available to give continuous line, uninterrupted by mullions or surrounds. Louvers can be either pre-fabricated or pre-cut and supplied in sections for field erection on sites with more difficult access. Blades snap into concealed mullion clips.

### Notes

1. On sections greater than 900mm wide a 40 x 40 mullion will be used to support the blades. This increases the depth of the louver by 40mm.

2. Installation of outside louvers in exterior walls must comply with the New Zealand or Australian Building Code.
3. Some outside louvers are available in other flange widths.

Models: **OHL-C-102 and OHL-F-102**  
**OHCL-C-102 and OHCL-F-102**

### Effective pressure area (sq. metres)

Width "W", mm.	300	450	600	750	900	1050	1250	1500	1750	2000	2250	2500	
Height "H", mm.													0.1
300	0.01	0.02	0.03	0.04	0.05	0.05	0.06	0.08	0.09	0.10	0.12	0.13	0.2
400	0.03	0.04	0.06	0.07	0.09	0.10	0.12	0.15	0.18	0.20	0.23	0.26	0.3
500	0.04	0.06	0.08	0.11	0.13	0.15	0.18	0.22	0.26	0.30	0.34	0.38	0.5
600	0.05	0.08	0.11	0.14	0.17	0.19	0.25	0.30	0.35	0.40	0.45	0.50	0.75
700	0.06	0.10	0.14	0.18	0.22	0.24	0.31	0.37	0.43	0.50	0.56	0.63	1.0
800	0.07	0.12	0.17	0.21	0.26	0.29	0.37	0.44	0.52	0.60	0.67	0.75	1.5
900	0.09	0.14	0.19	0.25	0.30	0.34	0.43	0.52	0.60	0.69	0.78	0.87	2.0
1000	0.10	0.16	0.22	0.28	0.34	0.38	0.49	0.59	0.69	0.79	0.89	1.00	2.5
1100	0.11	0.18	0.25	0.32	0.39	0.43	0.55	0.66	0.78	0.89	1.00	1.12	3.0
1200	0.12	0.20	0.28	0.35	0.43	0.48	0.61	0.73	0.86	0.99	1.12	1.24	3.5
1300	0.14	0.22	0.30	0.39	0.47	0.53	0.67	0.81	0.95	1.09	1.23	1.37	4.0
1400	0.15	0.24	0.33	0.42	0.51	0.57	0.73	0.88	1.03	1.18	1.34	1.49	4.5
1500	0.16	0.26	0.36	0.46	0.56	0.62	0.79	0.95	1.12	1.28	1.45	1.61	5.0
1600	0.17	0.28	0.39	0.49	0.60	0.67	0.85	1.03	1.20	1.38	1.56	1.74	5.5
1700	0.18	0.30	0.41	0.53	0.64	0.72	0.91	1.10	1.29	1.48	1.67	1.86	6.0
1800	0.20	0.32	0.44	0.56	0.68	0.77	0.97	1.17	1.37	1.58	1.78	1.98	6.5
1900	0.21	0.34	0.47	0.60	0.73	0.81	1.03	1.24	1.46	1.67	1.89	2.11	7.0
2000	0.22	0.36	0.50	0.63	0.77	0.86	1.09	1.32	1.54	1.77	2.00	2.23	7.5

Outside Louvers

Models: **OHL-C-124 and OHL-F-124**

### Effective pressure area (sq. metres)

Width "W", mm.	300	450	600	750	900	1050	1250	1500	1750	2000	2250	2500	
Height "H", mm.													0.1
300	0.02	0.03	0.05	0.06	0.07	0.08	0.11	0.13	0.15	0.17	0.19	0.22	0.2
400	0.04	0.06	0.08	0.10	0.12	0.14	0.18	0.21	0.25	0.29	0.32	0.36	0.5
500	0.05	0.08	0.11	0.14	0.17	0.19	0.25	0.30	0.35	0.40	0.45	0.50	1.0
600	0.06	0.10	0.14	0.18	0.22	0.25	0.32	0.38	0.45	0.51	0.58	0.65	1.5
700	0.08	0.13	0.18	0.22	0.27	0.30	0.39	0.47	0.55	0.63	0.71	0.79	2.0
800	0.09	0.15	0.21	0.26	0.32	0.36	0.46	0.55	0.65	0.74	0.84	0.93	2.5
900	0.11	0.17	0.24	0.31	0.37	0.42	0.53	0.64	0.75	0.86	0.97	1.08	3.0
1000	0.12	0.20	0.27	0.35	0.42	0.47	0.60	0.72	0.85	0.97	1.10	1.22	3.5
1100	0.14	0.22	0.30	0.39	0.47	0.53	0.67	0.81	0.95	1.09	1.23	1.36	4.0
1200	0.15	0.24	0.34	0.43	0.52	0.58	0.74	0.89	1.05	1.20	1.35	1.51	4.5
1300	0.16	0.27	0.37	0.47	0.57	0.64	0.81	0.98	1.14	1.31	1.48	1.65	5.0
1400	0.18	0.29	0.40	0.51	0.62	0.69	0.88	1.06	1.24	1.43	1.61	1.80	5.5
1500	0.19	0.31	0.43	0.55	0.67	0.75	0.95	1.15	1.34	1.54	1.74	1.94	6.0
1600	0.21	0.34	0.46	0.59	0.72	0.80	1.02	1.23	1.44	1.66	1.87	2.08	6.5
1700	0.22	0.36	0.49	0.63	0.77	0.86	1.09	1.32	1.54	1.77	2.00	2.23	7.0
1800	0.24	0.38	0.53	0.67	0.82	0.91	1.16	1.40	1.64	1.89	2.13	2.37	7.5
1900	0.25	0.40	0.56	0.71	0.87	0.97	1.23	1.48	1.74	2.00	2.26	2.51	8.0
2000	0.26	0.43	0.59	0.75	0.92	1.03	1.30	1.57	1.84	2.11	2.39	2.66	8.5

#### Pressure requirement for outside louvers

Velocity, m/s **	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
Intake*	2	4	7	11	16	22	29	37	45	55	65	77	89	102
Exhaust*	1	3	5	8	11	15	19	24	30	37	43	51	59	68

\*Total Pressure Pa (N/m<sup>2</sup>) \*\*Velocity corresponding to Effective Pressure Area m<sup>3</sup>/s = Velocity Times Effective Pressure Area.

### Example of selection for outside louvers

Select an outside louver for exhausting 0.581 m<sup>3</sup>/s with a pressure requirement of 11 Pa (N/m<sup>2</sup>).

1. From pressure requirement table a velocity of 3.0 m/s is indicated as acceptable for an exhaust pressure of 11 Pa (N/m<sup>2</sup>).
2. The effective pressure area corresponding to this velocity and air quantity is  

$$\text{Area} = \frac{\text{m}^3/\text{s}}{\text{velocity}} = \frac{0.581}{3} = 0.19\text{m}^2$$

3. For a model OHL-C-124 louver an effective pressure area of 0.19 m<sup>2</sup> is approximately satisfied by a 1050 mm wide x 500 mm high; 450 mm wide x 1000 mm high, etc.