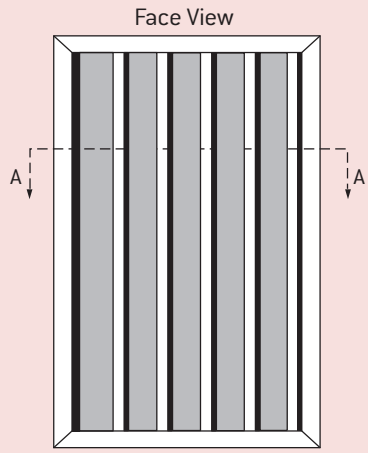
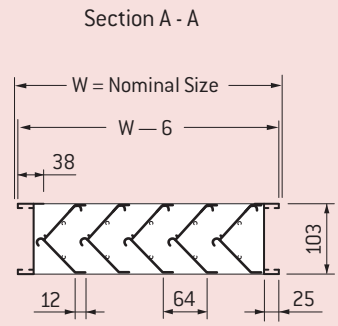
OVL – Outside Vertical Louvers

Model: **OVL-C-99**

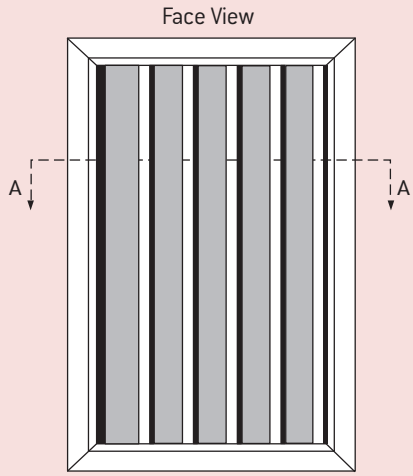
Outside louver with double weather stop vertical blades mounted in a channel surround.

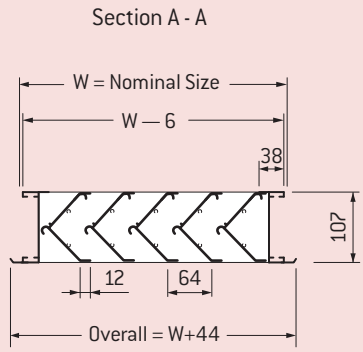




Model: **OVL-F-99**

Outside louver with double weather stop and vertical blades with supplementary frame to provide perimeter flange for weather sealing against outer face of wall.



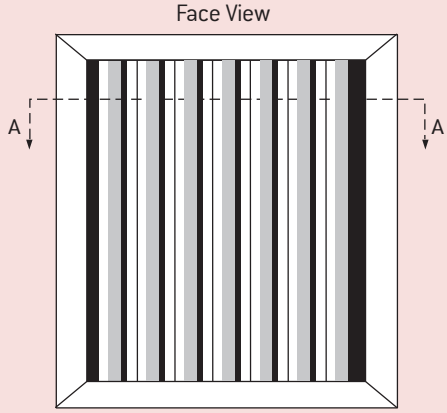


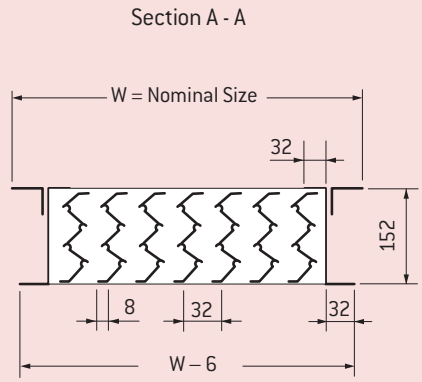
Guide Product Weights				
Approximate Weight in Kg.				
Size	OVL-C-99	OVL-F-99	OVL-C-148	OVL-F-148
300 x 300	3	3	7	7
500 x 500	6	6	17	17
900 x 900	15	15	51	51
1200 x 1200	25	25	88	88
1500 x 1500	37	37	135	135
1800 x 1800	51	51	191	191

Model: **OVL-C-148**

Heavy construction, 6 bend 'eliminator' type vertical louver with 6 drainage channels.

All aluminium construction with supplementary frame component to provide for channel mounting.

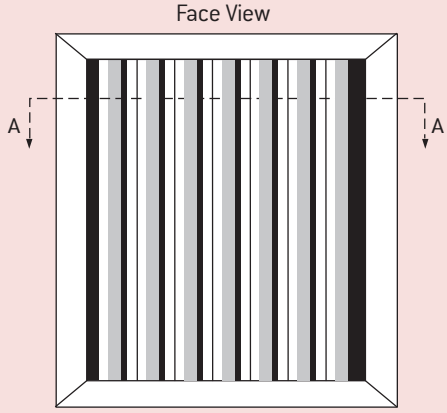


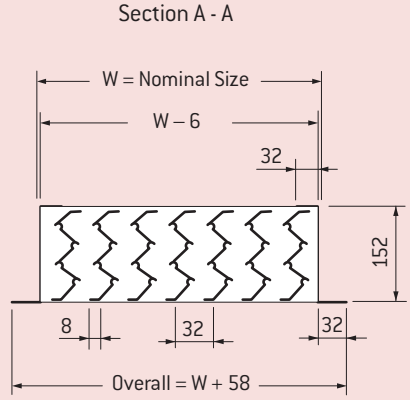


Model: **OVL-F-148**

Heavy construction, 6 bend 'eliminator' type vertical louver with 6 drainage channels.

All aluminium construction flanged frame. Louver suitable for exposed locations.





Notes

1. Maximum single section height for any OVL louver without intermediate drain tray is 1800 mm.
2. OVL louvers are suitable for exposed locations.
3. OVL 99 heights above 900 mm incorporate concealed intermediate blade stabilizing spacer clips.

Models: **OVL-C-99 and OVL-F-99**

Effective pressure area (sq. metres)

Width "W", mm.	275	339	403	467	531	595	659	723	787	851	915	979	1043	1107	
Height "H", mm.							0.05								
300	0.02	0.03	0.03	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.10	0.1
400	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.08	0.09	0.10	0.10	0.11	0.12	0.13	
500	0.04	0.05	0.06	0.07	0.08	0.09	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	
600	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
700	0.06	0.07	0.08	0.09	0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.20	0.21	0.22	0.2
800	0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.17	0.18	0.19	0.21	0.22	0.24	0.25	
900	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.19	0.20	0.22	0.24	0.25	0.27	0.29	
1000	0.08	0.10	0.12	0.13	0.15	0.17	0.19	0.21	0.23	0.24	0.26	0.28	0.30	0.32	0.3
1100	0.09	0.11	0.13	0.15	0.17	0.19	0.21	0.23	0.25	0.27	0.29	0.31	0.33	0.35	
1200	0.09	0.12	0.14	0.16	0.18	0.20	0.23	0.25	0.27	0.29	0.31	0.34	0.36	0.38	
1300	0.10	0.13	0.15	0.17	0.20	0.22	0.25	0.27	0.29	0.32	0.34	0.36	0.39	0.41	0.4
1400	0.11	0.14	0.16	0.19	0.21	0.24	0.26	0.29	0.32	0.34	0.37	0.39	0.42	0.44	
1500	0.12	0.15	0.17	0.20	0.23	0.26	0.28	0.31	0.34	0.37	0.39	0.42	0.45	0.48	
1600	0.13	0.16	0.18	0.21	0.24	0.27	0.30	0.33	0.36	0.39	0.42	0.45	0.48	0.51	0.5
1700	0.13	0.16	0.20	0.23	0.26	0.29	0.32	0.35	0.38	0.41	0.45	0.48	0.51	0.54	
1800	0.14	0.17	0.21	0.24	0.27	0.31	0.34	0.37	0.41	0.44	0.47	0.50	0.54	0.57	

Models: **OVL-C-148 and OVL-F-148**

Effective pressure area (sq. metres)

Width "W", mm.	298	362	426	490	554	618	682	746	810	874	938	1002	1066	1130	
Height "H", mm.					0.05									0.1	
300	0.03	0.04	0.04	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.11	
400	0.05	0.05	0.06	0.06	0.07	0.08	0.09	0.09	0.10	0.11	0.11	0.12	0.13	0.13	
500	0.06	0.07	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.14	0.14	0.15	0.16	
600	0.08	0.08	0.09	0.09	0.11	0.11	0.13	0.13	0.15	0.16	0.16	0.17	0.18	0.20	
700	0.09	0.10	0.10	0.11	0.13	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.2
800	0.09	0.11	0.11	0.13	0.13	0.16	0.16	0.19	0.19	0.20	0.21	0.22	0.24	0.25	
900	0.11	0.13	0.13	0.14	0.16	0.17	0.19	0.21	0.22	0.24	0.25	0.25	0.27	0.29	
1000	0.12	0.14	0.15	0.16	0.17	0.20	0.21	0.23	0.25	0.26	0.27	0.28	0.30	0.31	0.3
1100	0.14	0.16	0.17	0.18	0.20	0.22	0.23	0.25	0.26	0.28	0.29	0.31	0.33	0.35	
1200	0.15	0.17	0.18	0.20	0.21	0.23	0.26	0.27	0.29	0.31	0.32	0.34	0.35	0.38	
1300	0.16	0.18	0.19	0.21	0.23	0.25	0.27	0.29	0.31	0.34	0.35	0.35	0.38	0.40	
1400	0.17	0.20	0.21	0.22	0.25	0.27	0.28	0.32	0.34	0.35	0.37	0.39	0.42	0.43	0.4
1500	0.19	0.21	0.22	0.24	0.27	0.29	0.31	0.34	0.36	0.38	0.39	0.42	0.45	0.47	
1600	0.20	0.22	0.23	0.25	0.28	0.31	0.33	0.35	0.38	0.41	0.42	0.45	0.47	0.49	0.5
1700	0.21	0.23	0.25	0.28	0.30	0.33	0.35	0.37	0.40	0.43	0.46	0.47	0.50	0.53	
1800	0.22	0.24	0.26	0.29	0.31	0.34	0.38	0.40	0.43	0.46	0.47	0.50	0.53	0.56	

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/m²) ** Velocity corresponding to Effective Pressure Area m³/s = Velocity Times Effective Pressure Area.

Example of selection for outside louvers

Select an outside louver for exhausting 0.581 m³/s with a pressure requirement of 11 Pa (N/m²).

1. From pressure requirement table a velocity of 3.0 m/s is indicated as acceptable for an exhaust pressure of 11 Pa (N/m²).
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 OVL-C-99 louver an effective pressure area of 0.19 m² is approximately satisfied by a 851 mm wide x 800 mm high; 659 mm wide x 1000 mm high, etc.

OHCL, OHL, OHL-D, OHL-DRC, & OHL-LAOGS

Louver Description Code Examples and Suggested Specifications

OHCL – [F / C] – [102 / 124] – W x H – OPTIONS – FINISH

- OHCL: Model - Closable Outside Horizontal Louver
- F / C: Frame Style (F = Flange, C = Channel)
- 102 / 124: Blade size & configuration
- W x H: Opening
- OPTIONS: 24 V AC/DC Motor, 230 V AC Motor
- FINISH: Powder Coat, Anodised, Mill Aluminium

Closable Horizontal Outside Louvers shall be of extruded aluminium construction with black anodised blades with integral flange and extruded vinyl edge seal. Fixed blades incorporate expanded aluminium bird screen.
Blade closure is via Gang Linkage bars either manually, or by a factory fitted linear motor.
Closable Louvers shall be Series OHCL.
All shall be as manufactured by Holyoake.

OHL – [F / C] – [34 / 45 / 102 / 124] – W x H – [BM/IS] – FINISH

- OHL: Model - Outside Horizontal Louver
- F / C: Frame Style (F = Flange, C = Channel)
- 34 / 45 / 102 / 124: Blade size & configuration
- W x H: Opening
- BM/IS: Bird Mesh or Insect Screen
- FINISH: Powder Coat, Anodised, Mill Aluminium

Horizontal Outside Louvers shall be of extruded aluminium construction with 100 mm blades fixed at their ends with stainless steel screws into a welded aluminium frame. The bottom louver shall overlap the frame and the structure shall be designed to withstand a wind load of 95 Kg/m².
Louvers shall be type OHL - F - 102.
All shall be as manufactured by Holyoake. [Example specification shown is for a flanged OHL-F-102).

OHL – [F / C] – D – W x H – [BM/IS] – FINISH

- OHL: Model - Outside Horizontal Louver
- F / C: Frame Style (F = Flange, C = Channel)
- D: Drainable Blade
- W x H: Opening
- BM/IS: Bird Mesh or Insect Screen
- FINISH: Powder Coat, Anodised, Mill Aluminium

Drainable Horizontal Outside Louvers shall be of extruded aluminium construction with blades which drain through vertical down pipes to discharge water at the bottom of the louver.
Louvers shall be type OHL - D.
All shall be as manufactured by Holyoake.

OHL – [F / C] – DRC – W x H – SECURITY MESH – OPTIONS – FINISH

- OHL: Model - Outside Horizontal Louver
- F / C: Frame Style (F = Flange, C = Channel)
- DRC: Drainable Closable Blade
- W x H: Opening
- SECURITY MESH: Gym Mesh
- OPTIONS: 24 V AC/DC Motor, 230 V AC Motor
- FINISH: Powder Coat, Anodised

Drainable Closable Horizontal Outside Louvers, shall be of extruded aluminium construction, with special overlapping drainable closable blades and complete with extruded aluminium security mesh on the rear.
Blade closure is via Linkage bars in a concealed cavity, either manually, or by a suitable factory fitted motor.
Drainable Closable Louvers shall be Series OHL - DRC.
All shall be as manufactured by Holyoake.

OHL – LAOGS – W x H – [BM/IS] – FINISH

- OHL: Model - Outside Horizontal Louver
- LAOGS: Type
- W x H: Opening
- BM/IS: Bird Mesh or Insect Screen
- FINISH: Powder Coat, Anodised, Mill Aluminium

OHL - LAOGS Horizontal Outside Louvers shall be constructed from welded aluminium construction. Bird Mesh is fitted to the rear as standard.
Louvers shall be type OHL-LAOGS.
All shall be as manufactured by Holyoake.

OVL, OHL-KD, PHL, ST2/4 & LOUVER DOOR

Louver Description Code Examples and Suggested Specifications

OVL – [F / C] – [99 / 148] – W x H – [BM/IS] – FINISH

- OVL — Model - Outside Vertical Louver
- [F / C] — Frame Style (F = Flange, C = Channel)
- [99 / 148] — Blade Size and Configuration
- W x H — Opening
- [BM/IS] — Bird Mesh or Insect Screen
- FINISH — Powder Coat Anodised Mill Aluminium

Vertical Outside Louvers shall be of extruded aluminium construction with blades fixed at ends with stainless steel screws into a mitred and mechanically locked extruded aluminium frame. Intermediate blade stabilizing spacer clips shall be fitted where blade length exceeds 900mm and the structure shall be designed to withstand a wind load of 95kg/m^2.

Louvers shall be type OVL-C-99.

All shall be as manufactured by Holyoake.

(Example specification shown is for OVL-C-99).

OHL-KD – 100 – W x H – [BM/IS] – FINISH

- OHL-KD — Model - Outside Horizontal Louver - Knock Down
- 100 — Blade Style
- W x H — Opening
- [BM/IS] — Bird Mesh or Insect Screen
- FINISH — Powder Coat Anodised Mill Aluminium

OHL-KD (Knock Down) Outside Horizontal Louvers shall be manufactured from aluminium extrusion and are supplied in Kit Form for on site assembly, by others. The louver blades shall be sight proof, complete with two water stops and may be provided in a powder coat finish, with Bird Mesh, or Insect Screen.

Louvers shall be type OHL - KD - 100.

All shall be as manufactured by Holyoake.

PHL – [102 / 124] – W x L x H – [BM/IS] – FINISH

- PHL — Model - Penthouse Louver
- [102 / 124] — Blade Style
- W x L x H — Opening x Height
- [BM/IS] — Bird Mesh or Insect Screen
- FINISH — Powder Coat Mill Aluminium

PHL Penthouse Louvers shall be constructed from welded aluminium extrusion with mitred corners. Heavy, extruded aluminium blades and heavy gauge aluminium roof, with bird mesh, or insect screen.

Penthouse Louvers shall be Series PHL-102, or PHL-124.

All shall be as manufactured by Holyoake.

[OHL – ST2 / ST4] – W x H – FINISH

- OHL – ST2 / ST4 — Model - ST2 (2 Row) ST4 (4 Row) Sound Trap
- W x H — Opening
- FINISH — Mill Aluminium

OHL-ST Sound Trap attachments shall be constructed of a number of cylindrical sound absorbing elements, all housed in a sheet aluminium surround which matches the selected OHL louver.

Sound Traps shall be Series OHL - ST2, or OHL - ST4.

All shall be as manufactured by Holyoake.

OHL-LOUVER DOOR – [F / C] – [34 / 45 / 102 / 124 / D] – W x H – [BM/IS] – FINISH

- OHL-LOUVER DOOR — Model - Outside Horizontal Louver Door
- [F / C] — Frame Style (F = Flange, C = Channel)
- [34 / 45 / 102 / 124 / D] — Blade Size and Configuration
- W x H — Opening
- [BM/IS] — Bird Mesh or Insect Screen
- FINISH — Powder Coat Anodised Mill Aluminium

OHL-LOUVER DOORS are robustly constructed with Aluminium box section frames and extruded aluminium blades of the size and configuration required. High quality stainless steel hinges shall be used to support the relevant door loads. A 'High Quality' lock set and handle shall be provided as standard, as well as rubber seals to eliminate door rattle.

Louver Doors shall be Series OHL-Louver Doors.

All shall be as manufactured by Holyoake.

OHL – [F / C] – 100WT – W x H – [BM/IS] – FINISH

- OHL — Model - Two stage weather trap louver
- [F / C] — Frame Style (F = Flange, C = Channel)
- 100WT — Blade Size and Configuration
- W x H — Opening
- [BM/IS] — Bird Mesh or Insect Screen
- FINISH — Powder Coat Anodised Mill Aluminium

Horizontal Outside weather trap louvers shall be of extruded aluminium construction with 100mm front blades fixed at their ends and complete with second stage blades at the rear. The bottom louver shall overlap the frame and the structure shall be designed to withstand a wind load of 95 kg/m2.

Louvers shall be type OHL-F-100WT.

All shall be as manufactured by Holyoake.

Visit www.productspec.net/holyoake for product drawings in REVIT.