



WEATHER PROOF LOUVRE



FEATURES

- ▶ Constructed from extruded aluminum section, mild sheet steel or stainless sheet steel.
- ▶ Suitable for fresh air in-take and air exhaust applications.
- ▶ Louvre blades with return bends at its uppers edge which provides and effective weather proof protection.
- ▶ Easy to install & maintenance.

ASSESSORIES

Steel Bird screen in 12mm X 12mm squire.

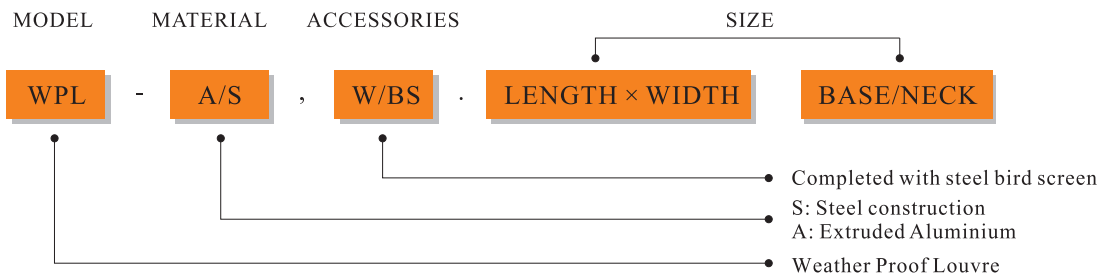
FINISH

- ▶ Extruded Aluminum Construction:
Natural anodized or baked enamel in white as a standard. Special anodize or baked enamel in various color are also available.
- ▶ Steel Construction:
White baked enamel as a standard finish. Special color finishes are also available to match architectural requirement.

DESCRIPTION

The Weather Proof Louvre are designed for installation on external wall providing an excellent weather protection.

ORDERING INFORMATION

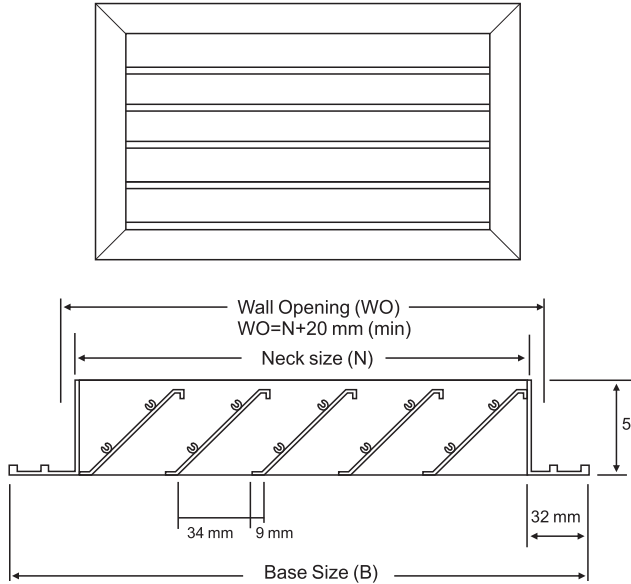


EXAMPLE: Model: **WPL - A, W/BS, 600×600 (Neck)**
Aluminium Weather Proof Louvre completed with steel bird screen
600 length × 600 width neck size.



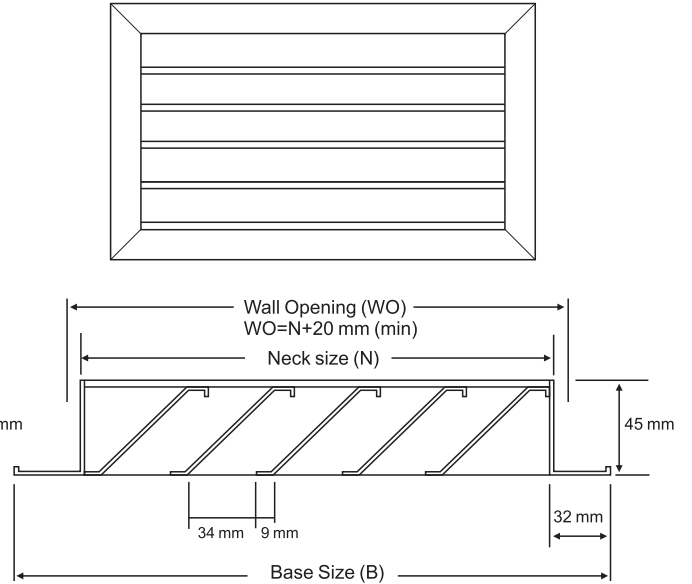
WPL-A

45° Aluminium Fixed Blades



WPL-S

45° Mild Steel/Stainless Steel Fixed Blades



PERFORMANCE DATA

STATIC PRESSURE DROP														
VELOCITY(m/s)	10	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(Pa)	2	4	6	10	14	20	26	32	40	48	58	68	78	90
EXHAUST	1	2	4	7	10	15	17	22	27	32	38	45	52	60

PRESSURE AREA (m²)

NECK WIDTH(mm) \ NECK HEIGHT(mm)	300	350	400	450	500	600	750	900	1050	1200	1350	1500	1800
300	0.035	0.040	0.046	0.052	0.057	0.069	0.086	0.103	0.120	0.138	0.155	0.172	0.207
350	0.041	0.048	0.055	0.062	0.069	0.082	0.103	0.124	0.144	0.165	0.185	0.206	0.247
400	0.048	0.056	0.064	0.072	0.080	0.096	0.120	0.144	0.168	0.192	0.216	0.240	0.288
450	0.055	0.064	0.073	0.082	0.091	0.109	0.137	0.164	0.191	0.219	0.246	0.273	0.328
500	0.061	0.071	0.082	0.092	0.102	0.123	0.154	0.184	0.215	0.246	0.276	0.307	0.369
600	0.075	0.087	0.100	0.112	0.125	0.150	0.187	0.225	0.262	0.300	0.337	0.375	0.450
750	0.095	0.111	0.127	0.143	0.159	0.190	0.238	0.286	0.333	0.381	0.428	0.476	0.571
900	0.115	0.135	0.154	0.173	0.192	0.230	0.289	0.346	0.404	0.462	0.519	0.577	0.693
1050	0.136	0.158	0.181	0.204	0.226	0.271	0.339	0.407	0.475	0.543	0.610	0.678	0.814
1200	0.156	0.182	0.206	0.234	0.260	0.312	0.390	0.468	0.546	0.624	0.702	0.780	0.936
1350	0.176	0.206	0.235	0.264	0.294	0.352	0.457	0.529	0.617	0.705	0.793	0.881	1.057
1500	0.196	0.228	0.262	0.295	0.327	0.393	0.491	0.589	0.687	0.786	0.884	0.982	1.179
1800	0.237	0.276	0.316	0.355	0.395	0.474	0.592	0.710	0.829	0.948	1.066	1.185	1.422

Notes:

1. Velocity corresponding to effective pressure area.
2. Air flow (m³/s) = Velocity (m/s) × Pressure Area (m²)

Water Penetration:

- 6.0 L/min max with incident at 45° to louvres
- 1.5 m/s for 15 min = 1.40%
- 0.7 m/s for 15 min = 1.02%
- 1.0 m/s for 15 min = 1.08%
- 1% = Rain penetration independent of louvre area



FREE AREA

MODEL: **WPL-A** Free Area of Aluminum Weather-Proof Louvre (sq.m)

Height of Neck (mm)	Width of Neck(mm)											
	300	350	400	450	500	600	750	900	1050	1200	1350	1500
300	0.047	0.054	0.061	0.070	0.077	0.093	0.116	0.14	0.163	0.186	0.209	0.233
400	0.065	0.075	0.086	0.098	0.108	0.130	0.163	0.195	0.228	0.260	0.293	0.326
500	0.084	0.098	0.112	0.126	0.140	0.167	0.209	0.251	0.293	0.335	0.377	0.419
600	0.102	0.119	0.136	0.153	0.170	0.205	0.256	0.307	0.358	0.409	0.46	0.512
700	0.121	0.140	0.161	0.181	0.201	0.242	0.302	0.363	0.423	0.484	0.544	0.605
800	0.140	0.163	0.186	0.209	0.233	0.279	0.349	0.419	0.488	0.558	0.628	0.698
900	0.158	0.184	0.210	0.237	0.263	0.316	0.395	0.474	0.553	0.632	0.711	0.791
1000	0.177	0.206	0.235	0.265	0.294	0.353	0.442	0.530	0.618	0.707	0.795	0.884

MODEL: **WPL-S** Free Area of Steel Weather-Proof Louvre (sq.m)

Height of Neck (mm)	Width of Neck(mm)											
	300	350	400	450	500	600	750	900	1050	1200	1350	1500
300	0.041	0.047	0.055	0.061	0.068	0.082	0.102	0.123	0.143	0.164	0.184	0.206
400	0.058	0.067	0.076	0.086	0.096	0.114	0.143	0.172	0.201	0.230	0.259	0.287
500	0.073	0.086	0.099	0.111	0.123	0.148	0.185	0.221	0.259	0.296	0.333	0.369
600	0.09	0.105	0.120	0.136	0.151	0.180	0.226	0.271	0.271	0.361	0.406	0.452
700	0.107	0.125	0.142	0.160	0.178	0.213	0.267	0.320	0.374	0.427	0.481	0.534
800	0.123	0.143	0.164	0.185	0.206	0.246	0.308	0.369	0.431	0.493	0.554	0.616
900	0.140	0.163	0.186	0.209	0.233	0.279	0.349	0.419	0.488	0.558	0.629	0.698
1000	0.156	0.182	0.208	0.234	0.260	0.312	0.390	0.468	0.546	0.624	0.702	0.780