

Description

The type CWL-01 Fixed Blade Weather Louvre has been designed specifically to meet the arduous conditions encountered offshore and is suitable for fitting to duct inlets or exhausts.

Specification

Casing

3.0 mm sheet steel formed into rigid channel sections suitable for duct or surface mounting.

Blades

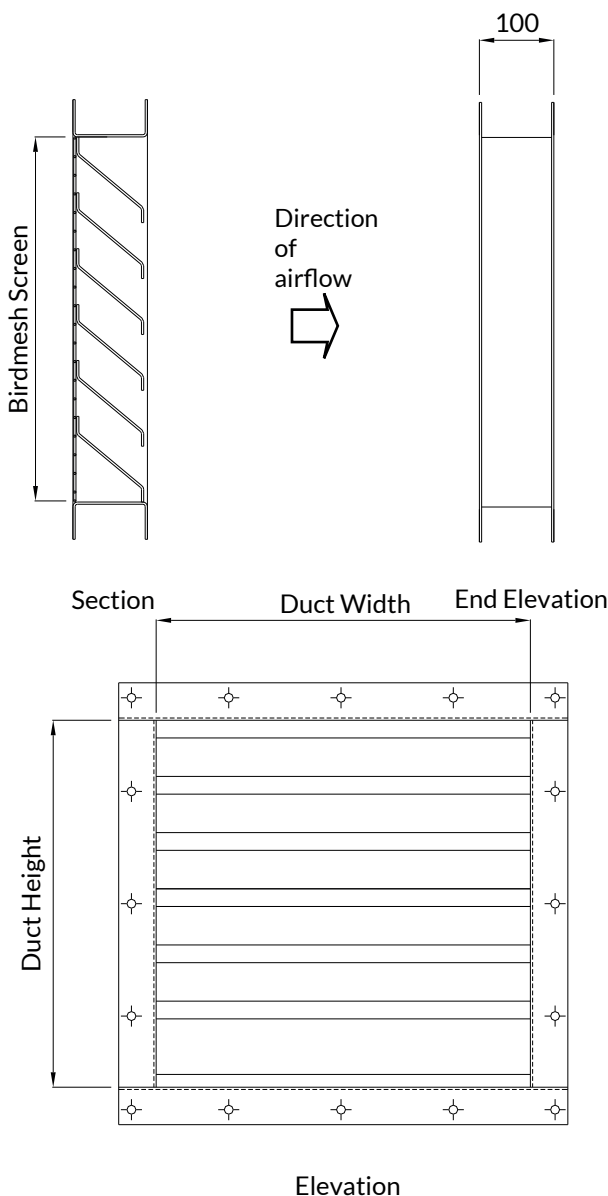
3.0 mm sheet steel formed into a Z-section and welded to the inside of the casing. The blades recline at an angle of $37\frac{1}{2}^\circ$ and are pitched at 75 mm. the maximum unsupported blade length is 1200 mm.

Bird Mesh Screen

A screen can be fitted to either front or rear face of the louvre to prevent the ingress of foreign bodies into the ductwork.

Size Limitations

As louvres reduce in size the free area ratio reduces rapidly which increases the free area velocity, pressure drop and water carry over. It is therefore recommended that the minimum duct size for a louvre be 300 x 300 mm. There is no limitation on the maximum size of a louvre but above a duct width of 1200 mm it would be constructed in multi-banked units.



Options

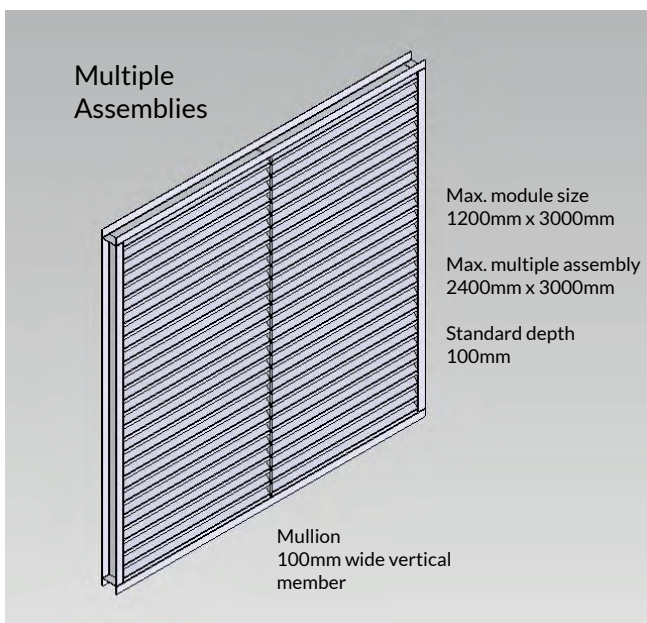
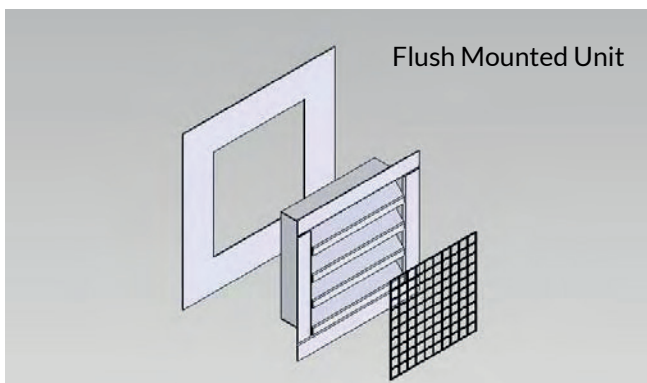
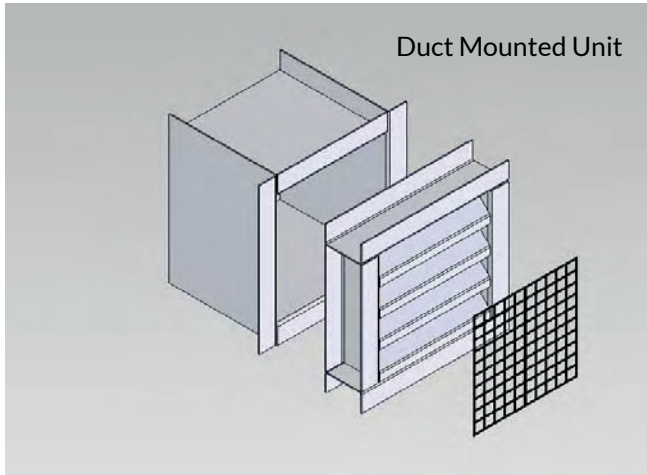
- Materials can be stainless steel, galvanized mild steel or other materials to suit the clients' specific requirements.
- Earth continuity bosses.
- Lifting lugs.
- Other variations to suit clients' specific requirements are also available.

Fixed Blade Weather Louvre

CWL-01

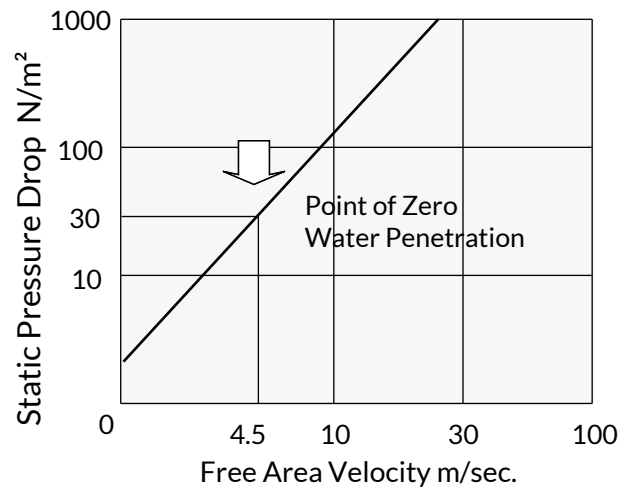
Installation & Assembly

An approved sealant should be inserted between the damper and duct flange to ensure a good seal.



Performance Characteristics

The type CWL-01 louvre performance curve illustrates the relationship between the velocity of the standard density airflow through louvre free area and the static pressure drop upon that airflow. Ratings include the effect of a bird screen. The point of zero water penetration is that point on the curve where water penetration begins, under the standard AMCA water test. Intake louvres may be selected at this point or at lower velocities with reasonable assurance that normal rainfall conditions will not result in water penetration. Water penetration is not a consideration when selecting exhaust louvres and the performance curve and free area guide may be used over their entire range.



Free Area Guide m²
Louvre Width (mm)

	300	600	900	1200	1500	1800	2100
Louvre Height (mm)	0.023	0.053	0.083	0.112	0.142	0.172	0.201
300	0.023	0.053	0.083	0.112	0.142	0.172	0.201
600	0.070	0.159	0.248	0.337	0.426	0.515	0.604
900	0.116	0.264	0.413	0.561	0.710	0.858	1.01
1200	0.162	0.370	0.578	0.786	0.994	1.20	1.41
1500	0.210	0.476	0.743	1.01	1.28	1.54	1.81
1800	0.255	0.582	0.908	1.23	1.56	1.89	2.21
2100	0.302	0.688	1.07	1.46	1.85	2.23	2.62



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