

### Description

The type CWL-01C Chevron Weather Louvre is of a high performance design suitable for the arduous conditions encountered in marine environments. The louvre has been independently performance tested by BSRIA in accordance with the HEVAC standard weather louvre tests.

### Specification

#### Casing

3.0 mm sheet steel formed into rigid channel sections suitable for duct or surface mounting with side drainage channels and integrated manometric trap.

#### Blades

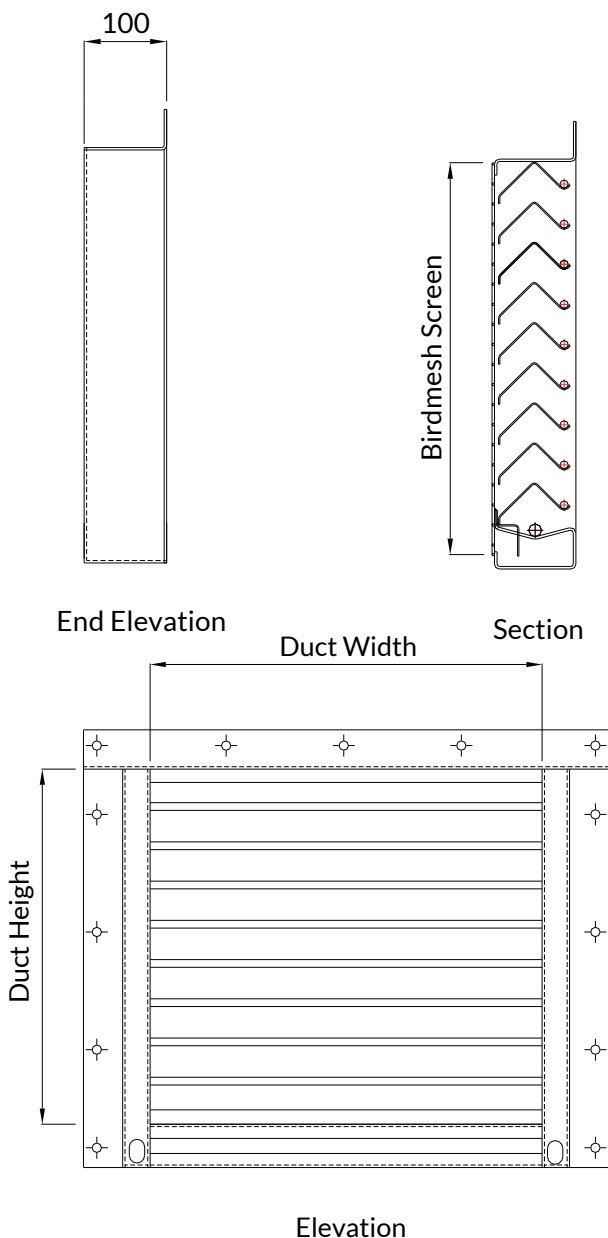
1.5 mm sheet steel formed into a chevron section and welded to the inside of the casing. The blades have a water retaining lip and are pitched at 50 mm. The maximum unsupported blade length is 1000 mm.

#### 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 1000 mm it would be constructed in multi-banked units.



#### Options

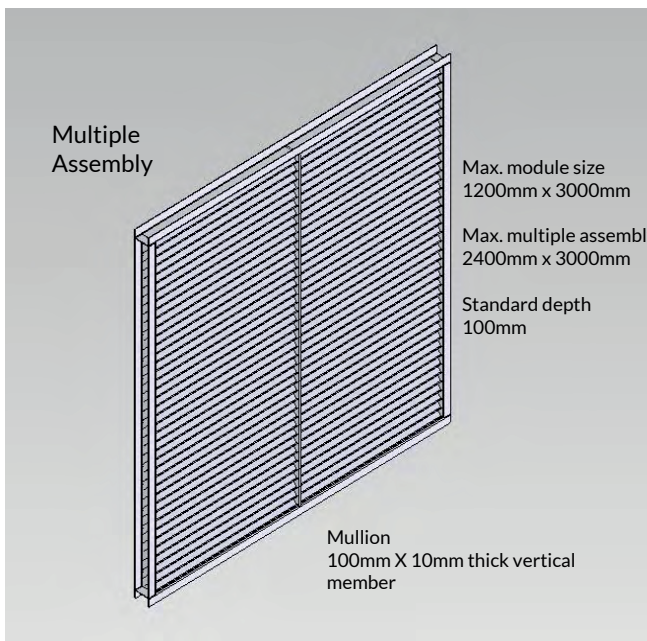
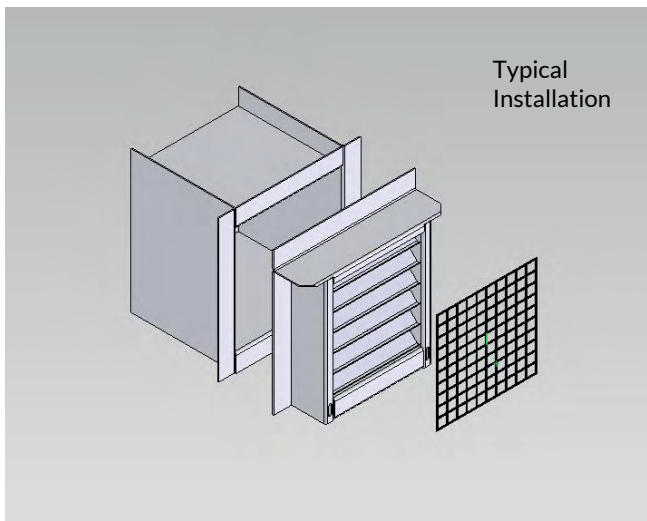
- Materials can be stainless steel, galvanized mild steel or other materials to suit the clients' specific requirements.
- Earth continuity bosses.
- Lifting lugs.
- Other variations to suit clients' specific requirements are also available.

# Chevron Weather Louvre

## CWL-01C

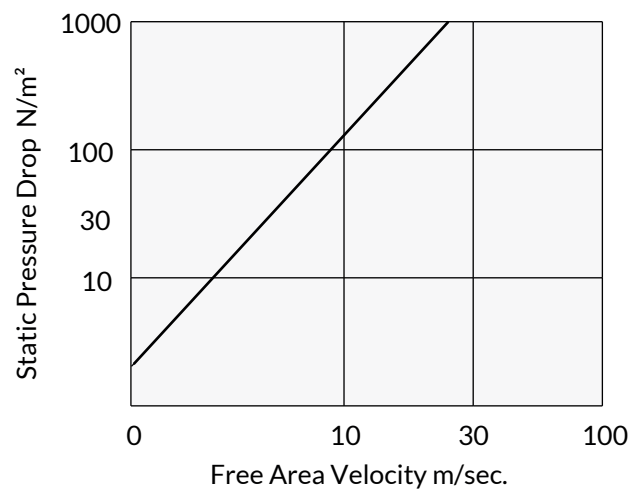
### Installation & Assembly

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



### Performance Characteristics

The type CWL-01C louvre performance curve illustrates the relationship between the velocity of the standard density airflow through louvre free area and the static pressure drop. The louvre efficiency when measured 0.5 metres downstream of the louvre face is 99% at an induced free area velocity of 4.3 m/sec. The efficiency drops to 79% when also subjected to a wind speed of 27 m/sec. Full test results of performance tests conducted by BSRIA are available upon request.



Free Area Guide m<sup>2</sup>  
Louvre Width (mm)

	300	600	900	1200	1500	1800	2100
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