

FLOW TECH

AIR DISTRIBUTION SPECIALIST

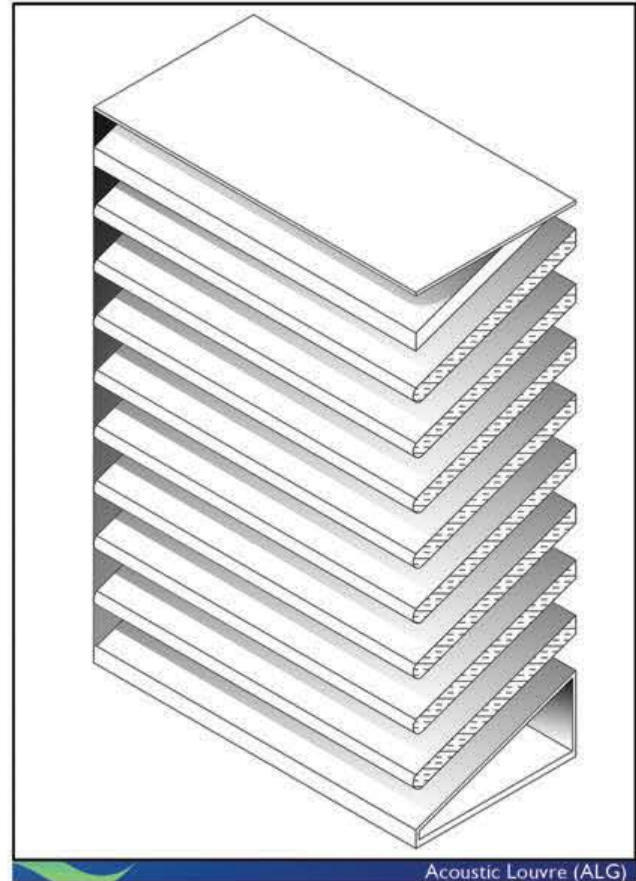


ACOUSTIC LOUVRES



ACOUSTIC LOUVRE

Acoustic Louvres are suitable in HVAC systems as noise barriers during air intake or discharge especially in AHU / generator rooms. Acoustic Louvres are designed to provide an acoustic barrier where ventilation apertures are required in a structure preventing noise from travelling either inside or outside the building. Louvre construction are available in Aluminum, Galvanized Steel, and Stainless Steel. They are suitable for duct or wall mounting installation or any application in various construction gauge to meet the most demanding application. We ensure the best available solution to meet your needs.



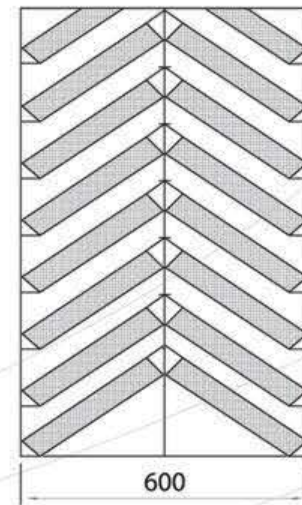
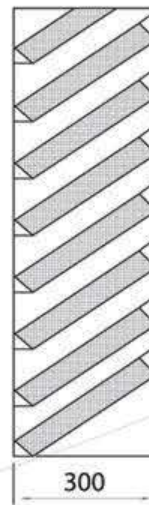
Acoustic Louvre (ALG)

FEATURES

- Used for ventilation openings to minimize the excessive noise in generator rooms, AHU parking spaces
- Minimum pressure drop with maximum insertion losses
- Available in any cross-sectional size to suit specific applications
- Available in 100mm to 600mm depth to meet the specific noise reduction requirement
- Rugged construction yet visually appealing
- Optional wire mesh to keep birds and debris out
- Flanged face or butt joint design to suit the installation requirements

Model FT-ALG 300

Model FT-ALG 600



FLOWTECH STANDARD CONSTRUCTION DETAILS

- Frame
1.2mm roll formed galvanized sheet steel
- Blade
Double skin blade outer face is of 1.0mm roll formed galvanized sheet steel and inner face is of galvanized perforated sheet steel material of 0.8mm.
- Acoustic infill
The acoustic infill material is of fiberglass with 32kg/mtr³ density of thickness 25mm
- Supports
Roll formed GI sheet steel angles
- Finish
Galvanized finish* is Standard supply.
Powder coated color finishes are optional.

Optional Fittings

- Screen
Bird screen or fly screen is optional either rear or front
- Filter
12 / 25 mm thick Aluminum Filter is optional
- Damper
Damper Assembly is optional

TRANSMISSION LOSS (SOUND REDUCTION INDEX)

Type HZ	63	125	250	500	1k	2k	4k
ALG300	11	13	17	18	19	20	18
ALG600	12	18	21	27	30	33	31

PRESSURE LOSS PA

Face Velocity m/s	0.5	1.0	1.5	2.0	2.5	3.0	
ALG300		3	11	24	42	65	94
ALG600		2	9	17	38	50	69

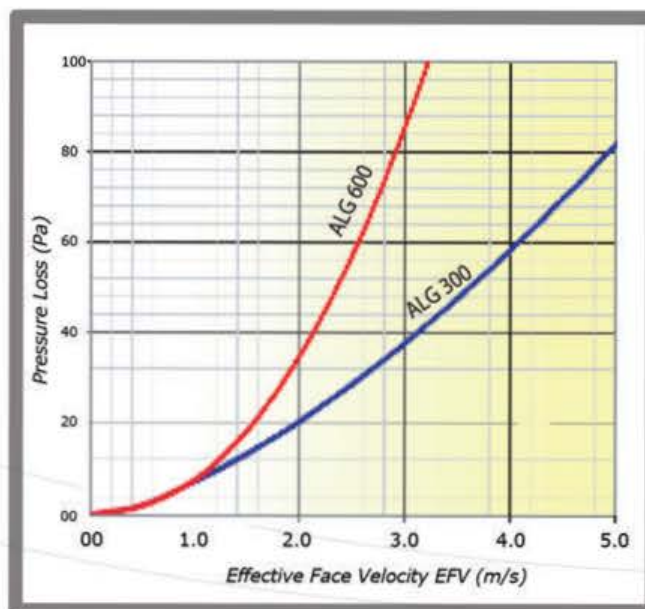
PRESSURE LOSS

The pressure loss through the louvre is based on the Effective Face Velocity (EFV) and is calculated with the following formula:

$$EFV (m/s) = \frac{\text{Airflow (m}^3\text{/s)}}{\text{Width(m)} \times \text{Height (m)} \times 0.3}$$

Use the graph and the EFV to find the pressure loss through the louvre.

The selection of an inlet louvre with face velocity greater than 2m/s may compromise weather protection.



SECTIONALIZED CONSTRUCTION

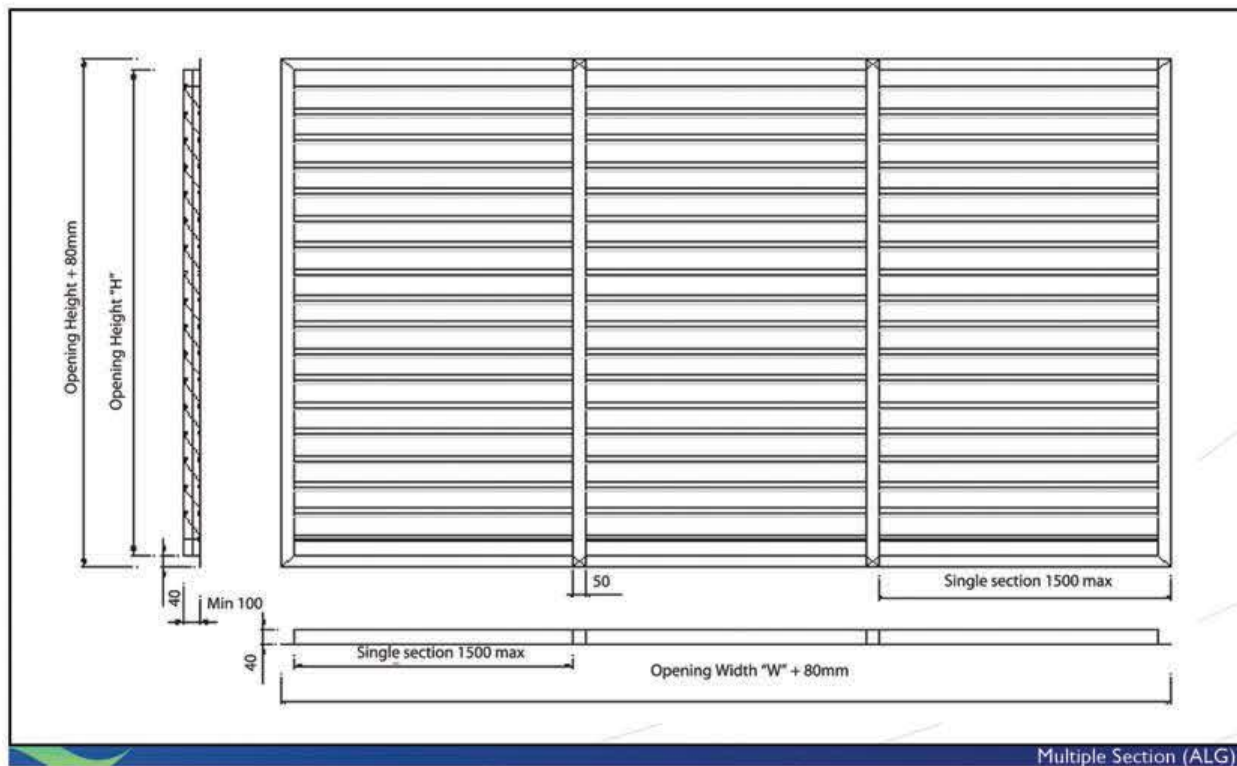
Acoustic louvre is normally supplied in sections when either of the following dimensions is exceeded.

Width - 1500 Height - 2400

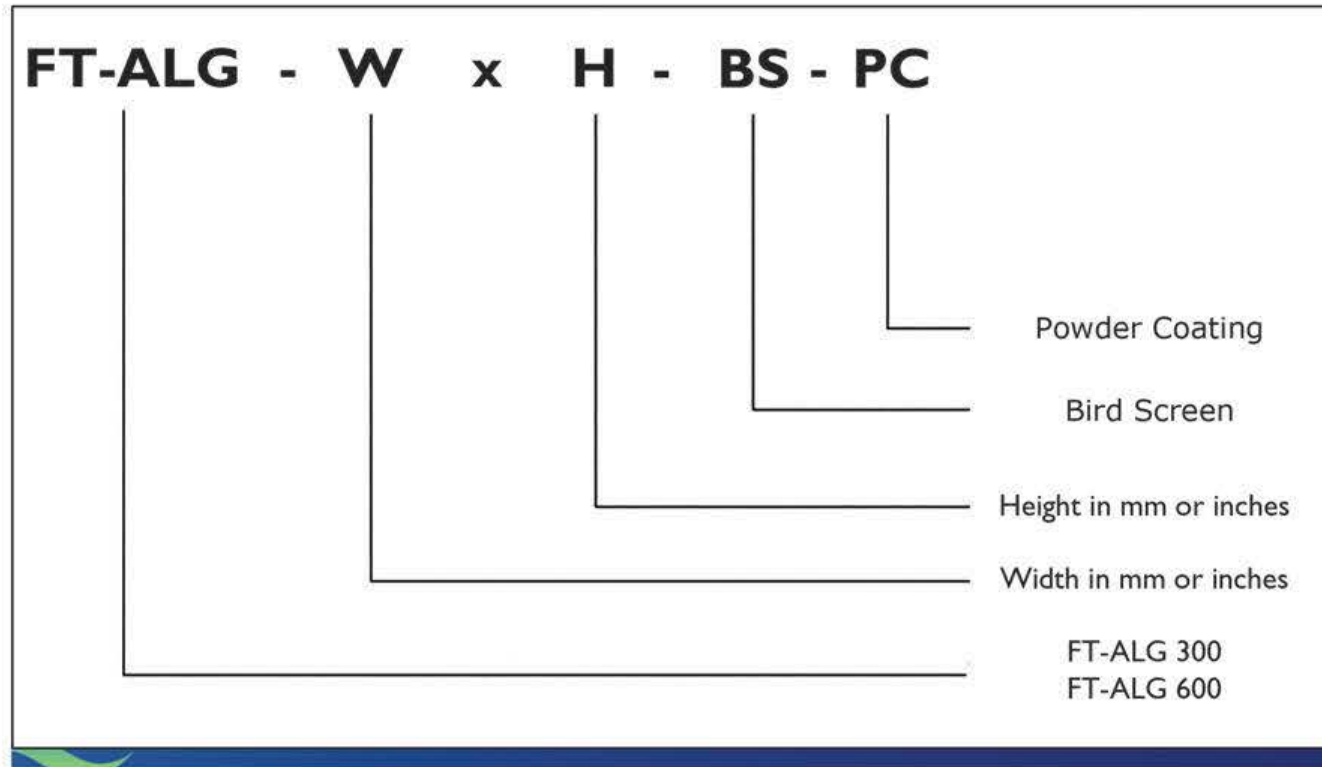
Where louvres are in sections in both width and height, either provision for assembly at the site with mullion partition is provided or optional 40x40x3 galvanized vertical box section frame is supplied to couple together adjacent sections. Mounting frames are concealed behind a cover plate of material and finish to complement the louvre.

The assembly of sectionalized louvre is in scope of Contractor. We will provide details of configuration and assembly.

MULTIPLE SECTION ACOUSTIC LOUVRES



ORDERING SYSTEM



ORDERING EXAMPLE

FT-ALG 300 - 36" x 20" - BS

Refers to Flowtech Acoustic Louvre FT-ALG 300 of size 36" (width) x 20" (height) with Bird Screen

