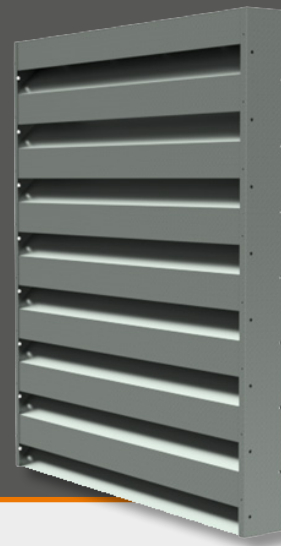




PRODUCT DATASHEET

COLT ACOUSTIC LOUVRE MODULES (CALM)

CALM S18-150



Description of the product

The Colt CALM S18-150 is a high-performance acoustic louvre module designed to provide building ventilation while delivering effective noise attenuation. Featuring a 150mm thick straight blade profile, it offers the highest ventilation capacity within the CALM product range, making it ideal for environments requiring both airflow and sound control such as plant rooms, cooling towers, substations, and other high-noise areas.

Tested to BS EN ISO 10140-2:2021, the S18-150 combines proven acoustic performance with excellent aerodynamic efficiency (C_v 0.200) for an acoustic louvre, enabling effective air movement with minimal pressure loss. Its modular design allows for simple, safe, and flexible installation, whether used as a standalone solution or integrated with Colt's universal louvre systems.

The S18-150 is engineered for long service life, with robust galvanised steel construction and optional finishes to suit a variety of environmental conditions.



Materials Used in Manufacture

- Galvanised steel sheet (panel construction)
- Galvanised expanded mesh (rear face)
- Water-repellent and non-hygroscopic semi-rigid acoustic infill (to EN 13501-1)
- Polyester powder coating available to any RAL colour (optional)
- Marine-grade materials and coatings available for high corrosion environments (on request)

Ancillaries Information

- **Vermin & Insect Screens:** Optional rear-mounted vermin screens are available in three configurations: bird guard, bird guard with insect mesh, or fly guard. Each is riveted to the back face of the module. (Note: the use of any screen option requires applying a C_v correction factor of 0.95.)
- **Integration with COLT Universal Louvre (UL):** Fully compatible with the UL system, offering additional weather protection and a wide range of aesthetic options.
- **Integration with Ventilators:** COLT ventilators can be installed behind the CALM modules to provide active airflow control where required.
- **Panel Joining Kits:** Enable the construction of larger assemblies without excessive support structures, simplifying installation and reducing costs.

Product Features

150mm thick straight blade profile delivering maximum ventilation within the CALM range

Tested to BS EN ISO 10140-2:2021 for certified acoustic attenuation

Modular system allows for walls or runs of virtually any width or height

Easy two-person installation with pre-punched fixing points

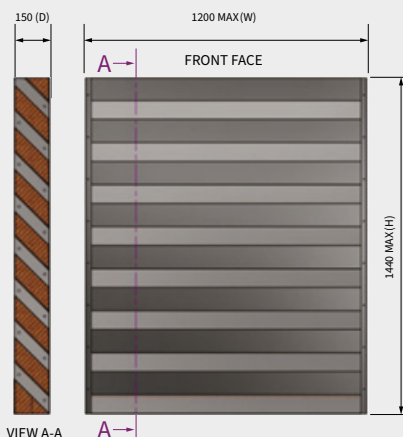
Panel joining kits enable longer spans with reduced need for intermediate supports

Compatible with COLT Universal Louvre (UL) systems for integrated weather protection and visual consistency

Available with optional vermin, bird, insect, or fly screens to suit application needs

Universal Louvre (UL) façade systems or vertical ventilators for complete system flexibility.

The S18-150 is engineered for long service life, with robust galvanised steel construction and optional finishes to suit a variety of environmental conditions.



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COLT ACOUSTIC LOUVRE MODULES (CALM)

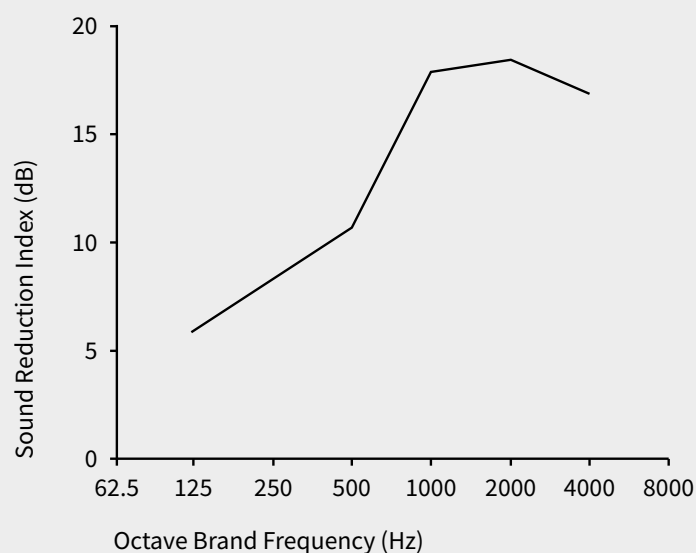
CALM S18-150

PERFORMANCE

Acoustic Performance

OCTAVE BAND FREQUENCY (Hz)	SOUND REDUCTION INDEX (dB)
125	5.9
250	8.4
500	10.7
1000	17.8
2000	18.5
4000	16.9

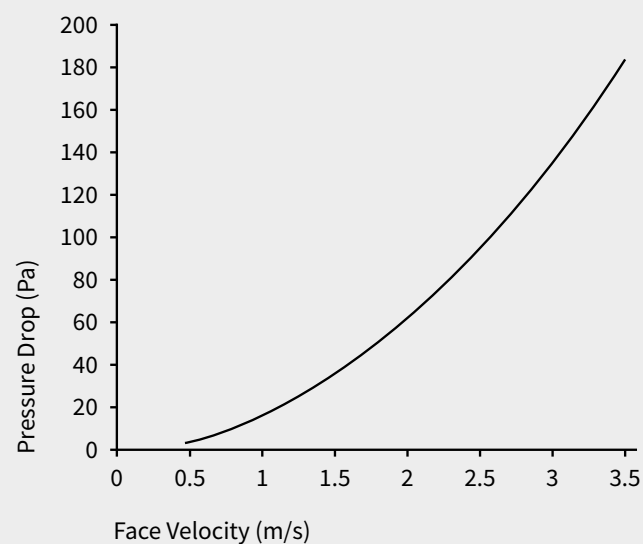
Rw (C, Ctr): 16 (-1, -3)



Aerodynamic Performance

FACE VELOCITY (m/s)	PRESSURE DROP (Pa)
0.0	0
0.5	4
1.0	15
1.5	34
2.0	60
2.5	94
3.0	135
3.5	184

Cv: 0.200 (K=25.00)



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