DATA SHEET | ACOUSTIC LOUVRE MODULE **CALM S**

CALM S is a multipurpose acoustic louvre which permits the flow of air while shielding the environment from noise. CALM S is available in three models and a complete range of standard modular sizes. This means that it can satisfy a wide range of performance requirements, especially where space is limited and architectural standards of appearance must be met. Where access is required, CALM S can be supplied as door sets, for inclusion in Colt louvre screens or as stand-alone units. Its linear appearance with superior high frequency performance are suitable for use as mechanical equipment screens, noise barriers, process air intakes, cooling towers inlet silencers and many other applications where attenuation is required.

To ensure the most economical solution, noise control must be considered at the earliest possible design stage. Retrofit installation can be significantly more expensive.

and the second second





PRODUCT DATA SHEET | CALM S

FEATURES AND BENEFITS

SIZES

CALM is a modular system with each module having the minimum and maximum sizes given below. The modules can be combined to form larger panels.

CALM S-100

Width - Min 300mm - Max 1800mm Height - Min 400mm - Max 2400mm **Depth** - 102mm **Pitch** - 200mm

CALM S-150

Width - Min 300mm - Max 1800mm Height - Min 305mm - Max 2135mm Depth - 152mm **Pitch** - 305mm

CALM S-300

Width - Min 300mm - Max 1800mm Height - Min 600mm - Max 2400mm **Depth** - 300mm **Pitch** - 200mm

Note:

Width vailable in 1mm increments Height available in 1mm increments

MATERIAL

The outer casing and louvre blades are aluminium alloy type 3000 Series. The infill is either organic mineral wool or glass fibre of 47kg/m³ density and packed under not less than 5% compression to eliminate voids due to settlement. The infill is inert, as well as vermin, rot and moisture proof.

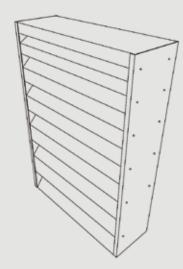
WEIGHT

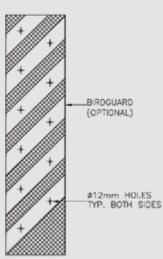
CALM S-100 20kg/m² CALM S-150 30kg/m² CALM S-300 60kg/m²



PERFORMANCE DATA

Aerodynamic Performance





Static pressure drop Pascals (Pa)												
Louvre model	10	20	30	40	50	60	70	80	90	100	150	200
Face velocity metres per second (m/s)												
CALM S-100	0.92	1.30	1.59	1.84	2.05	2.25	2.43	2.61	2.76	2.90	3.56	4.13
CALM S-150	0.53	0.73	0.90	1.04	1.16	1.28	1.37	1.47	2.56	1.64	2.01	2.32
CALM S-300	0.94	1.31	1.61	1.83	2.13	2.27	2.46	2.63	2.84	2.99	3.65	4.21

Transmission Loss (T.L.) - Defined as the ratio, in decibels, of acoustic energy transmitted through the louvre to that incident upon it.

Octave Band Centre	Louvre Depth								
Frequency (Hz)	(mm)	63	125	250	500	IK	2K	4K	8K
CALM S-100	102	5	4	5	6	9	13	14	13
CALM S-150	152	6	6	8	10	14	18	16	15
CALM S-300	300	6	7	10	12	18	18	14	13



Noise Reduction (N.R.) - The free-field noise reduction of a louvre is the difference, in decibels, between the sound pressure level on the noise source of the louvre and that measured outdoors on the side of the louvre away from the noise source.

Octave Band Centre	Louvre Depth									
Frequency (Hz)	(mm)	63	125	250	500	IK	2K	4K	8K	
CALM S-100	102	П	10	П	12	15	19	20	19	
CALM S-150	152	12	12	14	16	20	24	22	21	
CALM S-300	300	12	13	16	18	24	24	20	19	

