SERIES 15, 27 & 30

Acoustic Weather Louvres

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GILBERTS

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Introduction

Gilberts acoustic weather louvre ranges interface directly with the exterior fabric of a building in either steelwork frames and cladding or brickwork.
Primarily utilised where a combination of good weathering protection and accurate noise emission control are required, the louvre can be manufactured to accommodate the various dimensional and aesthetic requirements a project may demand. With size ranges from 300 x 300 to 1500-2000 in single assemblies, larger formats can be accommodated by the use of a modular approach to assist on site handling and installation. The louvre is available with a channel frame housing for side or rear fixing and 50mm flange for front face fixing.

Construction

Standard construction comprises of outer casings of not less than 1.2mm galvanised mild steel with outer faces at the top and bottom support sections not less than 0.7mm. Inner absorptive faces will not be less than 0.7mm galvanised perforated mild steel sheet.
Materials and finishes available include stainless steel, anodised aluminium and aluminium with a polyester powder or synthapulvin paint finish to the BS/RAL colour range. The mineral wool acoustic infill is organic, flame, moisture and vermin proof with a minimum density of 48 Kg/m3. It is packed under compression to prevent voids due to settlement. Bird guards or insect screens can be fitted if required.

Performance Data

	Octave bands								
	63	125	250	500	1k	2k	4k	8k	Hz
Series 15 Transmission Loss	4	4	6	9	12	17	11	10	dB
Series 27 Transmission Loss	6	7	10	13	17	19	13	11	dB
Series 30 Transmission Loss	6	6	9	14	21	29	27	27	dB

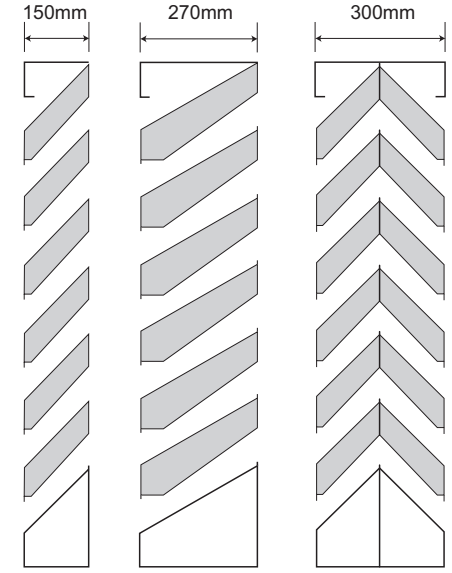
Performance test in accordance with BS 2750:1980

Transmission Loss

This is the acoustic performance (dB) of an acoustic louvre to BS 2750:1980 and is defined as the ratio, in decibels, of acoustic energy transmitted through the louvre sample to that which is incident upon it. Also expressed as Sound Reduction Index SRI.

The aerodynamic performance of single acoustic louvres is as follows:-

Face Velocity (m/s)	Series 15 (N/m^2)(Pa)	Series 27 (N/m^2)(Pa)	Series 30 (N/m^2)(Pa)
1.0	10	10	20
1.5	15	17	27
2.0	20	24	34
2.5	28	35	45
3.0	40	50	56
Weight per m^2(kg)	30	55	60



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