

ATTENUATING LOUVRES

SARRETT'S



**HUNTER
INTERNATIONAL**

INTRODUCTION

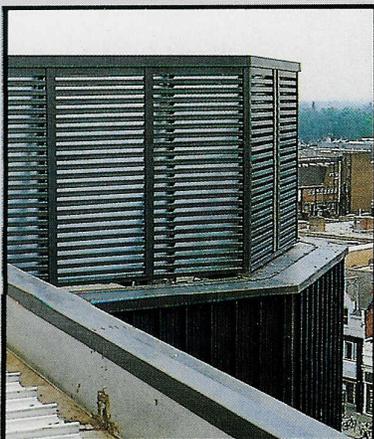
Noise emitted from plant through essential ventilation apertures can be effectively reduced by fitting attenuating louvres. Centrifugal fans handling large quantities of air in industrial applications and refrigeration equipment can be particularly noisy. One effective way of minimising the environmental impact of such machinery is to screen off the plant by means of silencer composed of horizontal acoustic splitters which will attenuate the noise, allow ingress of cooling air and have an aesthetically pleasing louvred appearance.

APPLICATION

Sargents' louvred screens are designed to provide maximum attenuation of plant noise whilst at the same time being robust and aesthetically pleasing. They are ideal for use in screening plant rooms, generator buildings and roof-mounted air conditioning plant. Test certificates can be provided to warrant conformity to specified criteria.

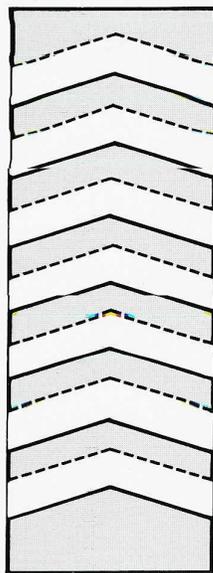


A.C. condenser screen

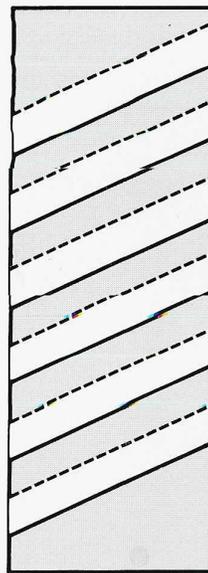


Roof mounted plant screen

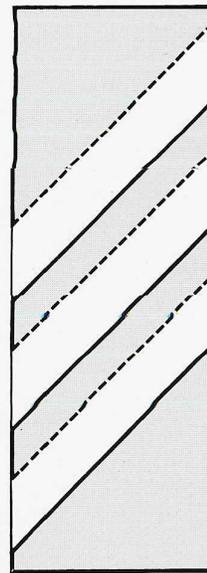
ATTENUATING LOUVRE TYPES



TYPE LV



TYPE SV



TYPE WL

LOUVRE Type LV

Particularly effective high-level plant rooms and screens where 'line-of-sight' through the louvre is undesirable.

LOUVRE Type SV

For use where weather resistance is important. Its low pressure drop characteristics make it ideal for fresh air inlet

and discharge to atmospheric openings.

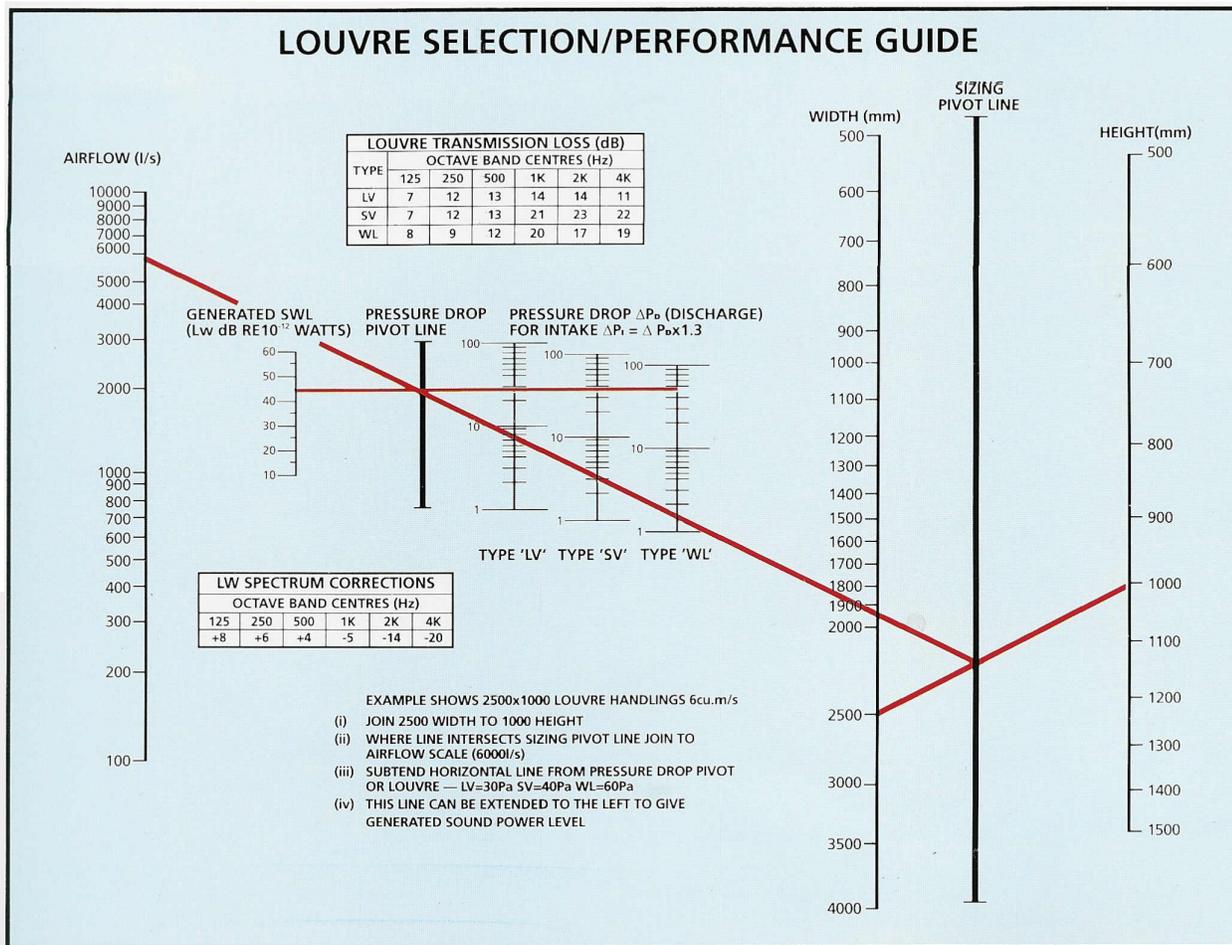
LOUVRE Type WL

A slightly larger blade format and steeper slope gives excellent attenuation characteristics coupled with good weather resistance. Not suitable for louvre heights of less than 600mm.



Louvred screen corner section

LOUVRE SELECTION/PERFORMANCE GUIDE



TESTING

The above performance data has been prepared from tests carried out in accordance with BS 2750 Part 3-1980

(ISO 140 Part III-1978) in our own laboratories and in an independent NAMAS accredited laboratory.



Circular plant room discharge louvre



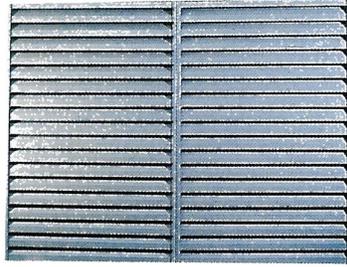
Triangular make-up section

Non-standard Items

Our manufacturing procedures allow for the construction of unusual shapes and materials to suit most requirements.



CONSTRUCTION



Attenuating louvres are constructed from pre-galvanised mild steel in one of three profiles to suit a range of applications. Each hollow section has a perforated under-face and is filled with highly-absorbent mineral wool to provide maximum acoustic attenuation. The infill which is inert, vermin proof, non-combustible and non-hygroscopic is retained behind the perforations with a glass tissue interface to prevent entrainment of the absorbent medium.

Surface finish can be galvanised or painted to any industrial specification. Where required sections can be constructed from stainless steel sheet or aluminium. The louvres can also be fitted with additional screens to prevent ingress by birds, insects or sand.



Louvred screen with steel work supports

Each of the three louvre profiles is 300mm deep. For additional attenuation, sections can be mounted back-to-back. Panels can be constructed to a maximum width of 2400mm and to any height by adding additional louvres as necessary. Head and cill sections can be engineered to match any required shape. Where access is a problem, units can be delivered in kit form for site assembly.

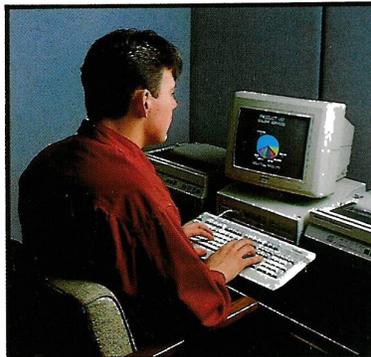
Design Service

Sargents offer a design service to ensure that louvres of the most suitable type and performance are specified for each application to meet the architect's aesthetic and noise reduction criteria. A range of individual datasheets is also available for reference.



Drawing office

Each project is individually designed to the highest engineering standards covering acoustical performance, airflow characteristics, construction, manufacturing and structural aspects. Certificates of Conformity to specified criteria can be provided.



Computer aided design

Installation service

Sargents have their own installation department and can undertake erection of Attenuating Louvres anywhere in the UK or Europe.

SARGENTS IS A B.S.I.
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REGISTERED COMPANY



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*SARGENTS' EXPERTISE IN THE FIELD OF
NOISE CONTROL HAS HELPED*

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Rolls-Royce

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Shell UK

BBC

London Weekend TV

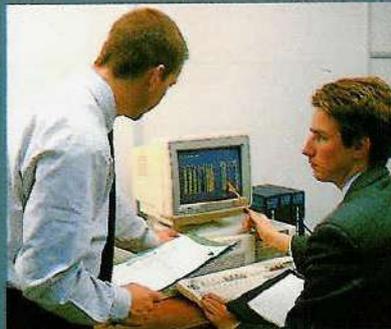
Thames TV

Nationwide Anglia BS

Marks & Spencer

Tesco

and many other household names



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