



**Technical Data &
Selection Procedure**

Ravistar **louvres**



External Louvres
Screening Applications

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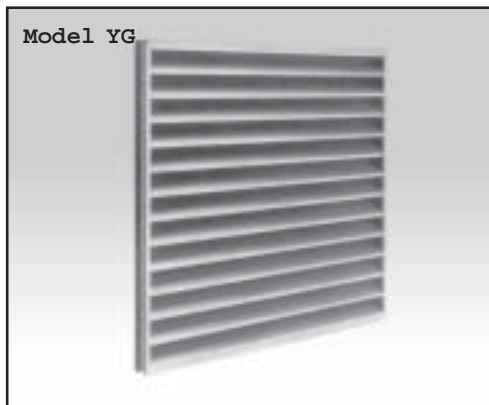
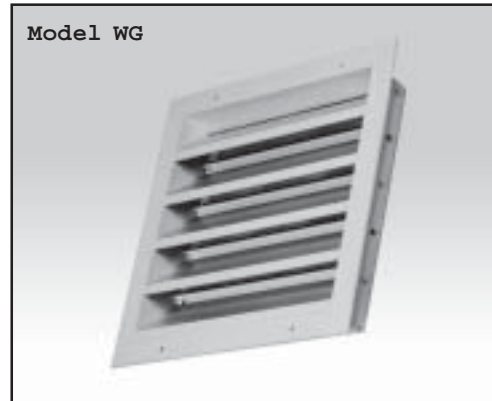
Large Format External Louvres - Model WG

Introduction

Model WG large format high performance louvres are suitable for most external walling/Screening applications and have been proven weatherproof even under the most adverse conditions. Available systems include horizontal and vertical continuous or mullion screens, doors, access panels, penthouse units. The louvres are constructed from high quality aluminium alloy extrusions with welded/mitred frames.

Features

- Continuous effect or mullion style joints.
- Extruded aluminium frame and blade system.
- Suitable for screening with doors etc.
- Optional penthouse louvres.
- Louvres are complete with bird screen.



Small Format External Louvres - Model YG

Introduction

Model YG small format louvres are suitable for intake or exhaust systems where space or cost is at a premium. The design incorporates features of the WG Systems but at half the scale and this makes the YG ideal for small louvre applications, sheltered situations and even internal screening requirements. The louvres are constructed from high quality aluminium alloy extrusions with cleated/mitred frames.

Features

- Small format compact design.
- Lightweight aluminium extrusions.
- Louvres are complete with bird screen.

Sand Trap Louvres - Model SL

Introduction

Model SL sand louvres have been designed as first stage separators of airborne sand and dust, thereby reducing the dust loading on ventilation filtration equipment.

The attractive compact and yet simple design uses 'initial separation' techniques in a two stages baffle arrangement to separate particles and return them to the face via a lower blade chute. The louvres are constructed from high quality aluminium sheet.

Features

- Compact design.
- Heavy duty aluminium frames and blades.
- Attractive vertical blade arrangement.
- Integral collection chute.
- Louvres are complete with bird screen.

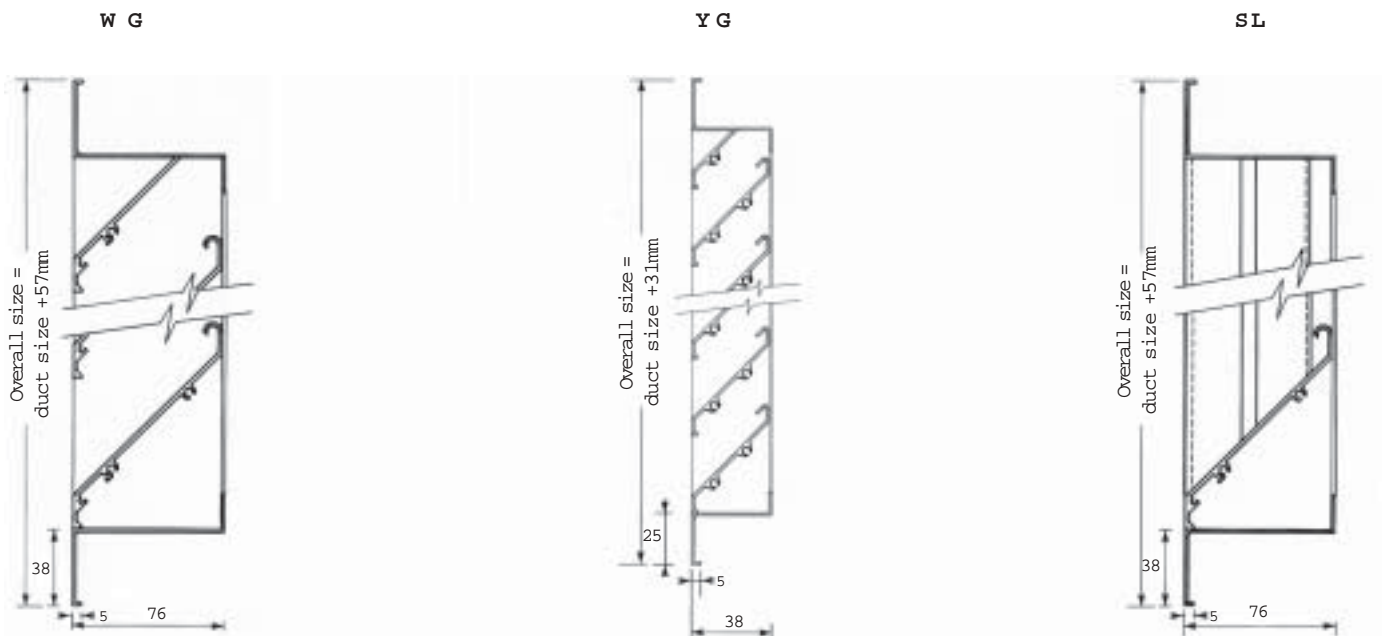


Description

Description Panel Sizes (Min) (Max)	WG 300W x 300H 1500W x 1500H	YG 100W x 100H 1500W x 1500H	SL 300W x 300H 1500W x 1500H
System Options	<ul style="list-style-type: none"> Continuous blade and frame joints or mullions Penthouse louvres Corner mitres Doors Access panels Screen systems Louvre walling 	<ul style="list-style-type: none"> Mullion joints Penthouse louvres 	<ul style="list-style-type: none"> Mullion joints Louvre walling
Construction	<ul style="list-style-type: none"> Aluminium alloy extrusions Screwed blades Welded frames 	<ul style="list-style-type: none"> Light duty aluminium alloy extrusions Screwed blades Cleated frames 	<ul style="list-style-type: none"> Light duty aluminium sheets Riveted blades Welded frames
Blade Format	75mm pitch horizontal blades	38mm pitch horizontal blades	Standard: 80mm pitch ver. blades only
Performance	See page 3		
Frame	EF = External Flanged Frame		
Fixing Options	SF = Flange Screw Fixing LF = Rear Lug Fixing		
Optional Extras	FF = Filter Frame DC = Drip Cill (for WG and YG only)		
Finishes	Standard a) Epoxy Polyester Powder Coated off white/pure white. b) Natural anodised. Other powder coating finishes available on request.		

Note : Recessed frame (in place of flanged frame) is available as an option.

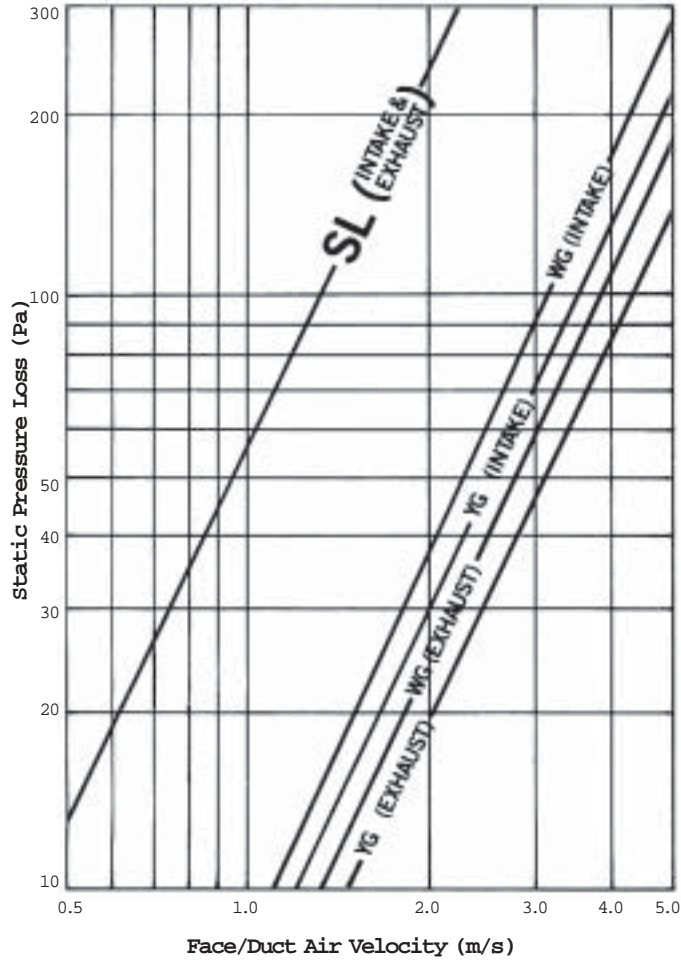
Dimensions



Performance Data

Pressure Loss

The graph below gives static pressure loss across the louvres for intake or exhaust applications (based on 1m² panels).



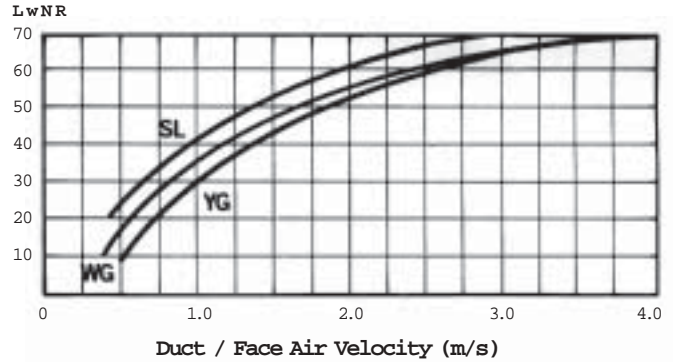
Effective Free Areas

Effective free areas are based on pressure loss tests comparing the resistance of the louvre in relation to its clear aperture one metre square.

Type	Effective Free Area %
WG Exhaust	51
WG Intake	42
YG Exhaust	58
YG Intake	46
SL Exhaust	18
SL Intake	18

Noise Generation

The graph below gives LwNR levels based on peak sound power level plotted on noise rating (NR) curves (based on 1m² louvre). Correct for louvre area and octave band spectrum.

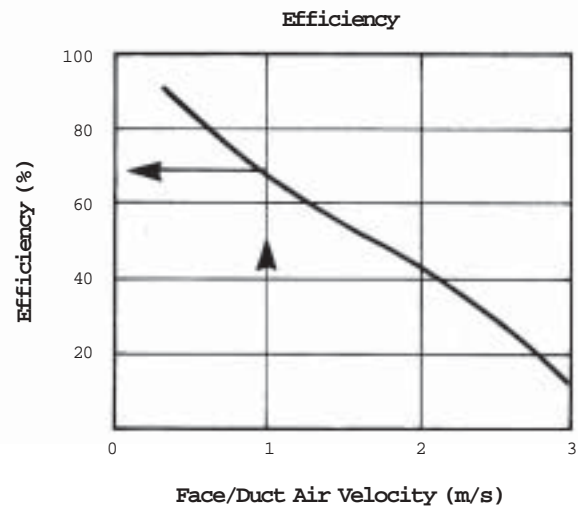


Octave Band Spectrum Corrections for SWL re 10 ⁻¹² Watts						
Type	125	250	500	1K	2K	4K
WG	+6	+5	+2	0	-6	-12
YG	-7	+4	+3	0	-5	-10
SL	+1	+4	+3	0	-10	-16

Efficiency (SL-Sand Louvres)

Sand rejection efficiency using a standard sand having grains sized between 100 and 1000 microns with 90% between 150 and 425 microns. Sand collected by the double channel construction drops to the base of the louvre and a chute directs the sand back to the face. Efficiency defined by:-

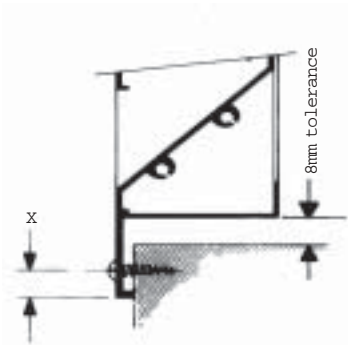
$$\eta = \frac{\text{weight of sand rejected}}{\text{weight of sand injected}} \times 100$$



Installation

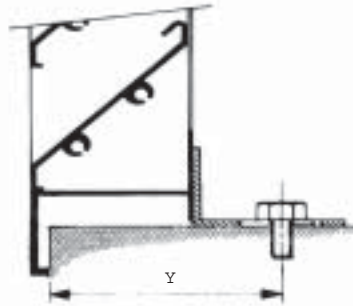
Fixing Options

Flange screw fixing
(SF)



Type	X
W G SL	13 mm
Y G	8 mm

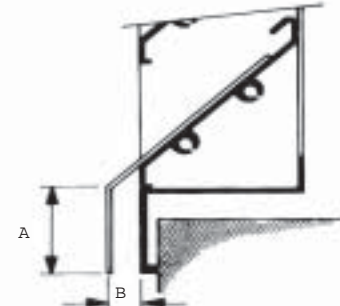
Rear lug fixing
(LF)



Type	Y
W G SL	78 mm
Y G	58 mm

DC Drip Cills

Supplied loose for fixing on site.



Type	A	B
WG / EF	51 mm	11 mm
YG / EF	25 mm	8 mm

Finish

Standard a) Epoxy Polyester Powder Coated off white/pure white.

b) Natural anodised.

Other powder coating finishes available on request.

Ordering

Model	Size (WxH)	Fixing options
W G	300x300	SF

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- Specifications and data are subject to change without prior notice due to continuous product development.
 - Normal tolerances shall be applicable.



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