

Small Format Fixed Blade External Louvres

YG-EF / YG-RF

Introduction

Series 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 system but at half the scale and this makes the YG ideal for small louver applications, sheltered situations and even internal screening requirements.

Product Description

YGA-EF External flanged louver 38mm pitch

YGA-RF Recessed frame louver 38mm pitch

YGB-EF External flanged louver 45mm pitch

YGB-RF Recessed frame louver 45mm pitch

YGC-EF External flanged louver 50mm pitch

YGC-RF Recessed frame louver 50mm pitch

Note: The YGB/YGC are for sheltered locations only

Features

- Small format compact design
- Weather resistant design
- Lightweight aluminium extrusions
- Flanged and recessed frame options
- Provision for blade alignment on continuous installations

Finishes

PPG9010 (RAL 9010 Gloss - 80% Gloss White)

PPM9010 (RAL 9010 Matt - 20% Gloss White)

PPM9006 (RAL 9006 Matt - 30% Gloss Silver)

Other colours or anodised finish available on request

Sizes

Nom. W 125 - 1200 mm

Nom. H 115 - 1985 mm

For larger sizes please contact head office

Fixing

SF Screw fixing

LF Rear lug fixing

STS Screw through stack fixing

NF No Fixing

Screen Options

BS Stainless steel bird screen

IS Aluminium insect screen

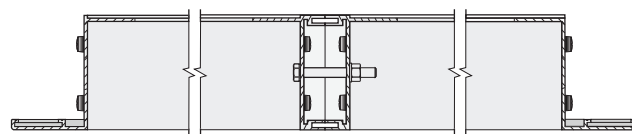
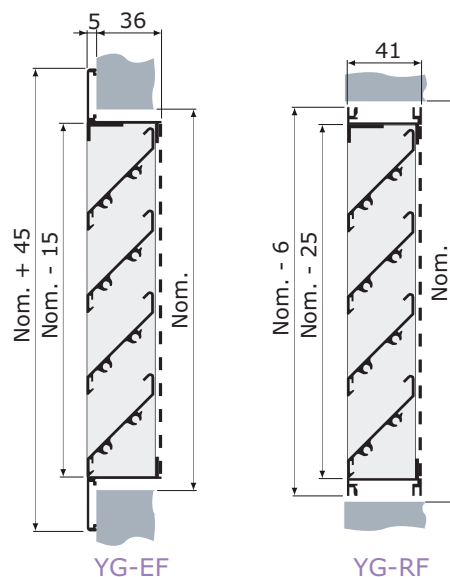
Other options available on request

Weights

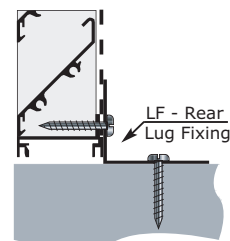
YG 10 kg/m² panel

Advantages

- Lightweight, extruded aluminium frame and blade system
- Rear rain trap profile on each blade



The above drawing shows a multiple YG-EF split along the width - Aluminium strips allow for expansion and contraction, due to changes in temperature.



Free Area
YG
19%- 47%

Bird mesh

- Aperture size 13 x 13mm
- Wire diameter 1.6mm
- Free area 80%
- Material Stainless steel

Insect mesh

- Aperture size 1.31mm x 1.13mm
- Wire diameter 0.28 mm
- Free area 66%
- Material Aluminium

ORDER EXAMPLE

YGA-EF/1500/600/PPM9006/SF/BS

Louvre Type
 Nominal Width
 Nominal Height
 Finish
 Fixing
 Screen Option

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YG-EF / YG-RF

Selection Example

1500mm wide x 600mm high YG louvre handling 1200 l/s

Total air volume/width: $1200/1.5 = 800 \text{ l/s/m}$

From nomogram YGA (38mm pitch) YGB (45mm pitch)

dBA 45 44

Pa 11 9

Mean Jet Velocity 3.3 m/s 3.0 m/s

Free Area x width $0.21 \times 1.5 = 0.32\text{m}^2$ $0.22 \times 1.5 = 0.33\text{m}^2$

Frequency Spectrum Corrections (Hz)					
125	250	500	1k	2k	4k
+6	+5	+2	0	-6	-12

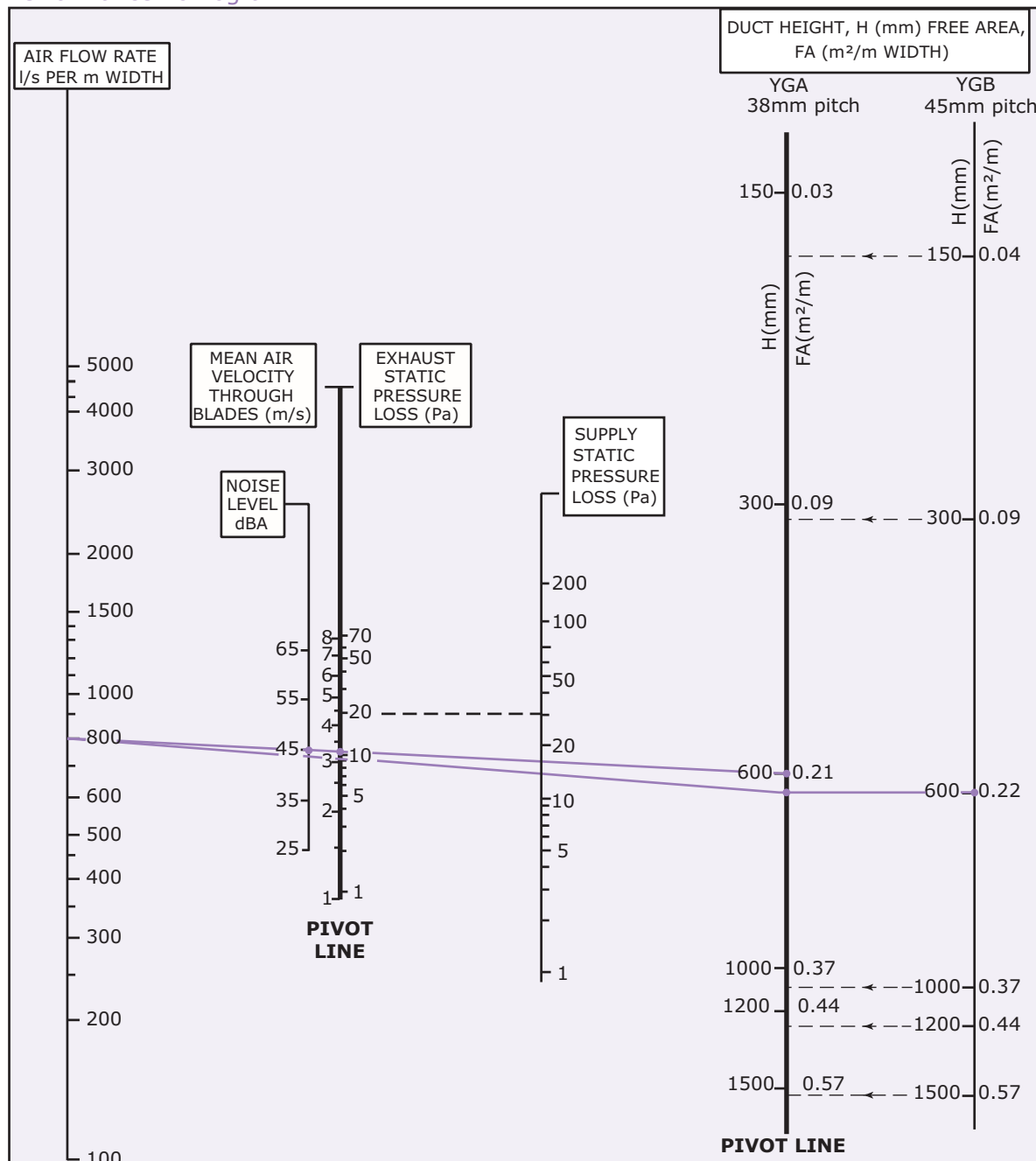
Static pressure scale is for exhaust applications with or without birdscreen.

A factor of 1.5 should be applied for intake louvres and a factor of 1.1 should be applied for Insect Screen.

dBA is the noise rating of the louvre based on sound power level.

To determine octave band sound power levels, apply the correction factors shown to the dBA level.

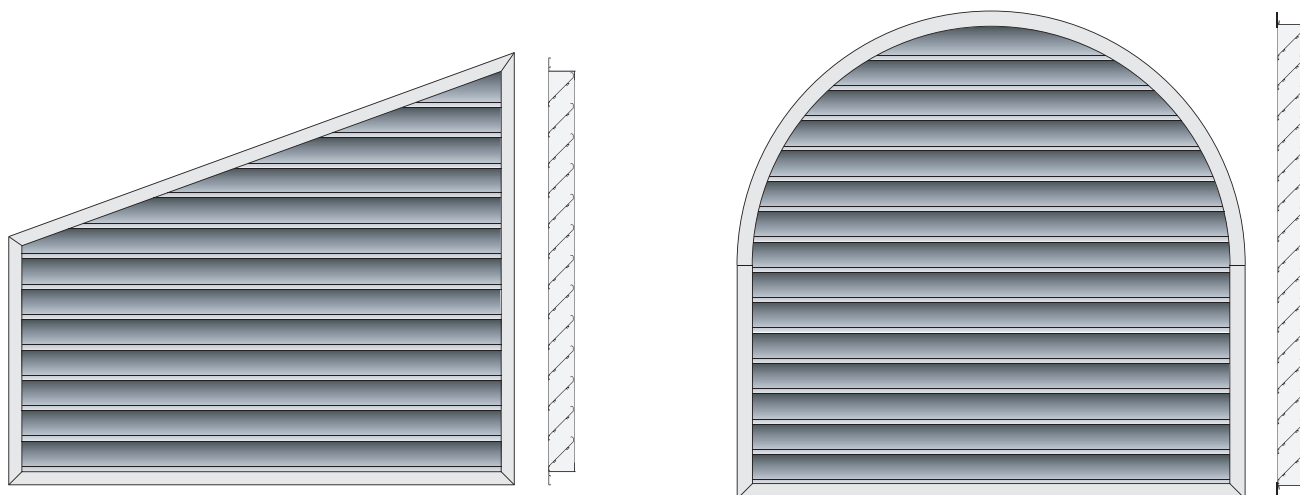
Performance Nomogram



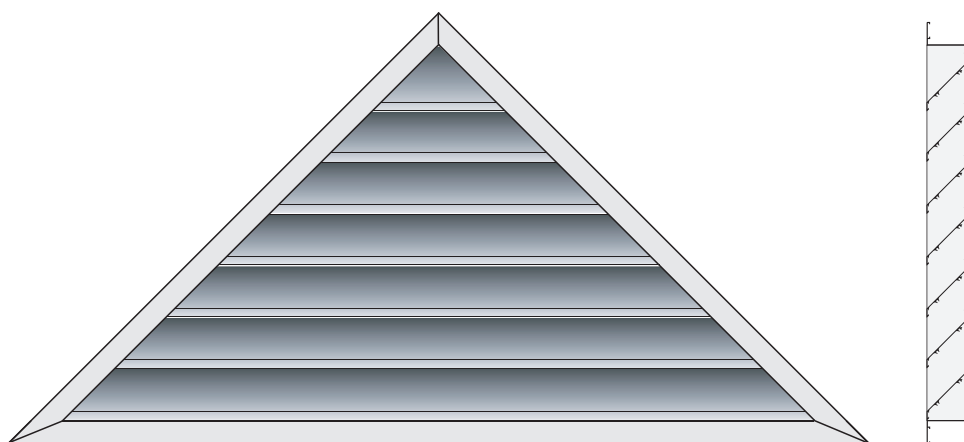
Bespoke Designs

Introduction

We at Waterloo pride ourselves in our ability to meet customer requests - no matter how far from the normal that request may be! A common request is for a reverse border, so that the flange is on the inside of the fixing wall. This is useful for situations where the product can be more easily installed from the inside of the building.



These are some examples of louvres designed and manufactured for customers in the past.



Bespoke Designs

As with all of our products, if you do not see what you are looking for please contact head office.

