

# Small Format Fixed Blade External Louvres

## YG-EF YG-RF

Waterloo

### 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 louvre applications, sheltered situations and even internal screening requirements.

### Product Description

- YGA-EF** External flanged louvre with 38mm pitch
- YGA-RF** Recessed frame louvre with 38mm pitch
- YGB-EF** External flanged louvre with 45mm pitch
- YGB-RF** Recessed frame louvre with 45mm pitch
- YGC-EF** External flanged louvre with 50mm pitch
- YGC-RF** Recessed frame louvre with 50mm pitch

Note: The YGB/YGC are for sheltered locations only

### Features

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

### Finishes

- PPM9006 (RAL 9006 Matt Silver)
- PPM9010 (RAL 9010 20% Gloss White)
- PPG9010 (RAL 9010 Gloss White)

Other colours or anodised finish available on request

### Weight

10.0 kg/m<sup>2</sup> panel

### Panel Sizes

- Nom. W 125 - 1200 mm
- Nom. H 115 - 1985 mm

For larger sizes please contact head office

### Fixing

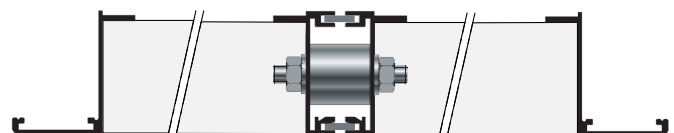
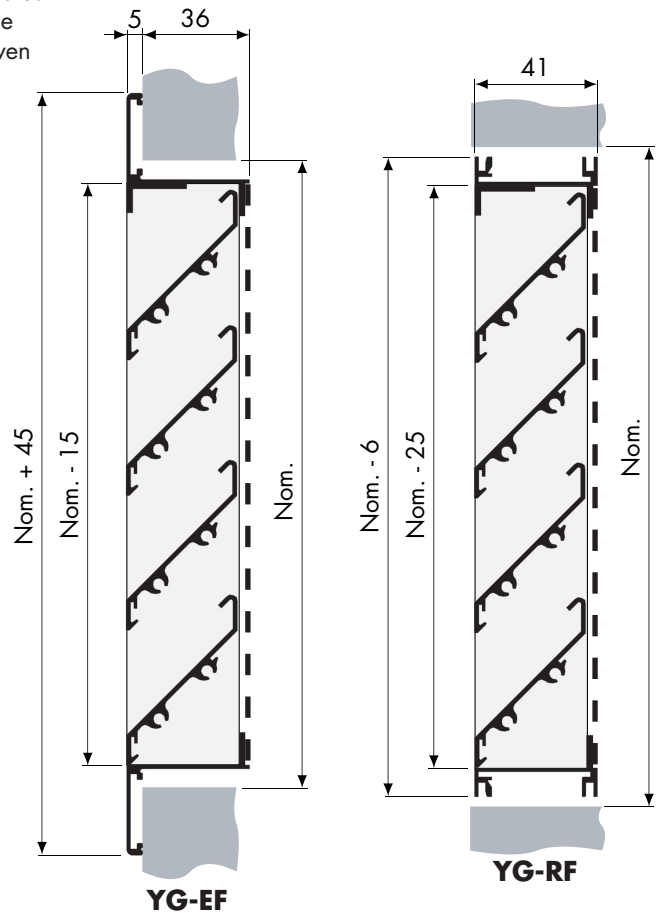
- SF Screw fixing
- LF Rear lug fixing
- STS Screw through stack fixing
- NF No fixing

### Screen Options

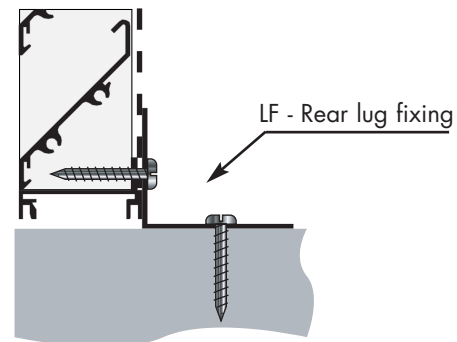
- BS Galvanised steel bird screen
  - IS Aluminium insect screen
- Other options available on request

### 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 - An aluminium strip and rubber buffer allow for expansion and contraction, due to changes in temperature.



Free Area

YG

19% - 47%

### Order Example

YG-EF/1500x600/PPM9006/SF/BS

Louvre Type \_\_\_\_\_

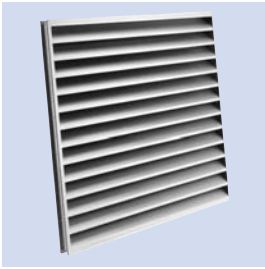
Nominal Width \_\_\_\_\_

Nominal Height \_\_\_\_\_

Finish \_\_\_\_\_

Fixing \_\_\_\_\_

Screen Option \_\_\_\_\_



### Selection Example for a 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)
NR <sub>lw</sub>	40	39
Pa	11	9
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.

NR<sub>lw</sub> 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 NR<sub>lw</sub> level.

