



Large Format Fixed Blade External Louvres

WG-EF / WG-RF

Introduction

WG large format louvres are suitable for most external walling/screening applications. Available systems include horizontal and vertical, continuous or mullion for screens, doors, access panels, penthouse units, mansard roof panels and enclosures.

Product Description

WG-EF External flanged louvre

WG-RF Recessed frame louvre

DC Drip cill

Features

- Continuous effect or mullion style joints
- 65, 75 and 100mm pitches for mansard, standard and sheltered installations
- Blade alignment strips provided on continuous sections

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 - 2000 mm

Nom. H 200 - 2015 mm

For larger sizes please contact head office

Panel Sizes

From 300mm x 300mm to 2000mm wide x 1500mm high or 1500mm wide x 2000mm high (maximum single section dimension).

Maximum panel width for multiple section continuous louvres is 1000mm.

Maximum height for multiple panel assembly is 4000mm but may be greater if suitable structural support work is available.

Fixing

SF Screw fixing

NF No fixing

LF Rear lug fixing

STS Screw through stack fixing

Screen Options

BS Stainless steel bird screen

IS Aluminium insect screen

Other options available on request

Weights

WG 13 kg/m² panel

Advantages

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

Order Example

WG-EF/800/500/75/PPM9006/SF/BS

Louvre Type _____

Nominal Width _____

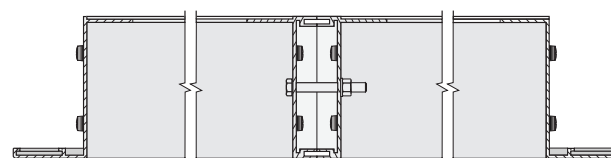
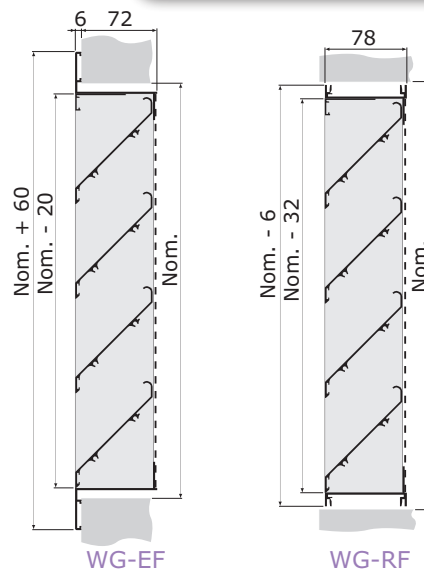
Nominal Height _____

Pitch _____

Finish _____

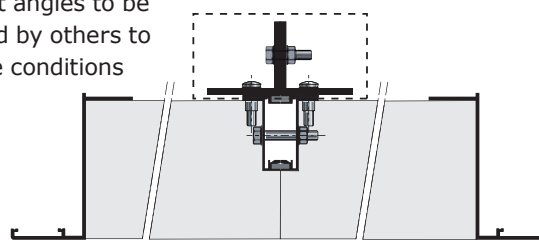
Fixing _____

Screen Option _____



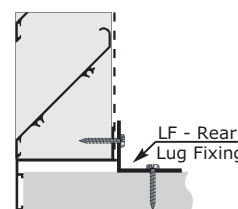
The above drawing shows a multiple WG-EF split along the width - Aluminium strips allow for expansion and contraction, due to changes in temperature.

Support angles to be supplied by others to suit site conditions



Continuous blade effect is also available for joining multiples

Free Area	
65, 75	24% - 55%
100	80%





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Selection Example

2000mm wide x 1500mm high louvre with 75 and 100mm blade pitches handling 4000 l/s

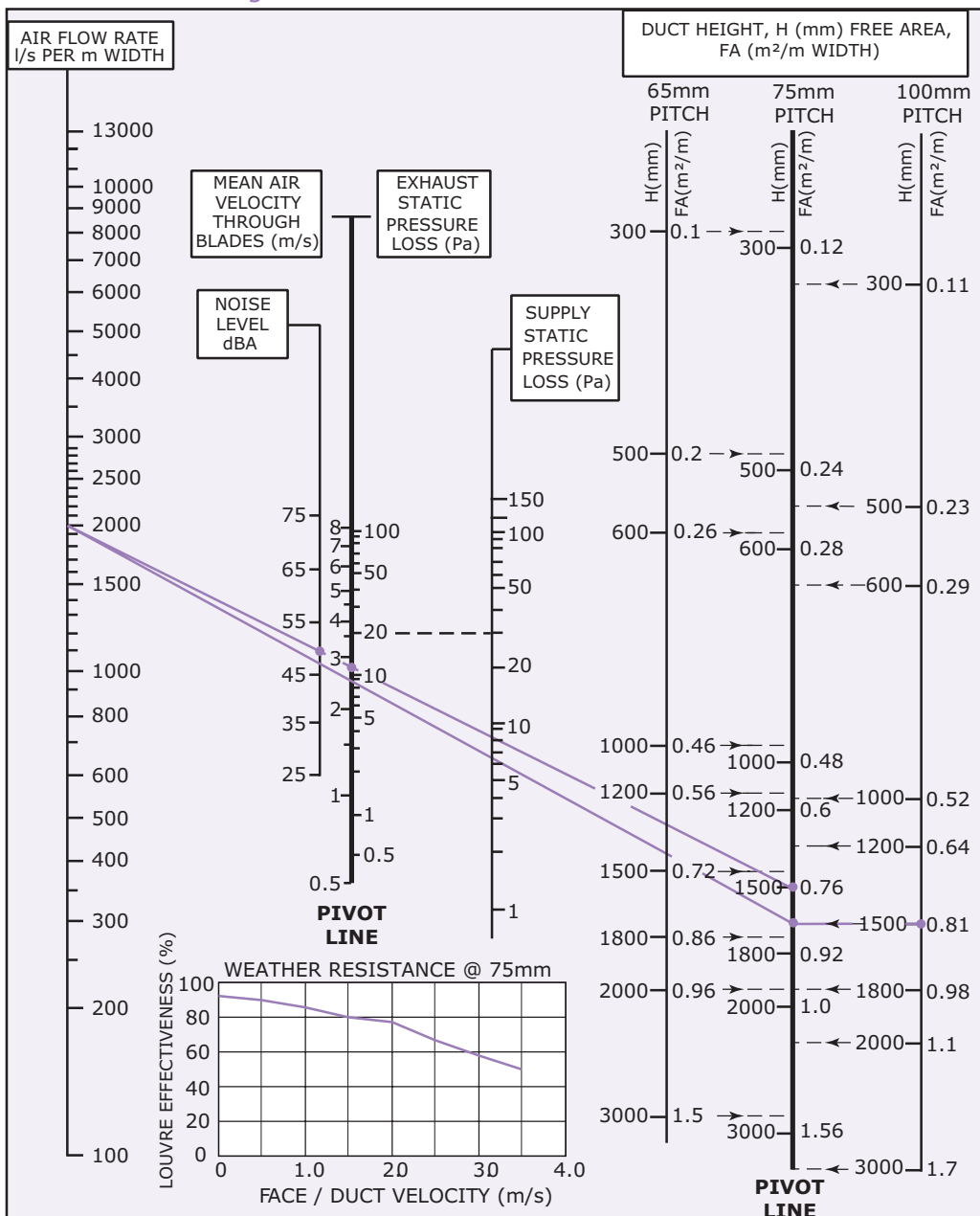
Total air volume/width:	4000/2 = 2000 l/s/m	
From nomogram	75mm pitch	100mm pitch
dBA	50	47
Pa	12	9
Mean Jet Velocity	2.8 m/s	2.6 m/s
Free Area x width	0.76 x 2 = 1.52m ²	0.81 x 2 = 1.62m ²

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



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

Louvre based on tests to HEVAC Technical Specification - 'Laboratory Testing & Rating of Weather Louvres when subjected to simulated rain'.