Large Format Fixed Blade External Louvres

WG-EF WG-RF

Waterloo

Introduction

WG large format high performance louvres are suitable for most external walling / screening applications and have proven to be weatherproof even under the most adverse conditions. Available systems include horizontal and vertical continuous or mullion 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 and100mm pitches for mansard, standard and sheltered installations
- Vertical blade option with pitches at 75, 100 & 150mm
- Blade alignment strips provided on continuous sections

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

WG 13.0 kg/m^2 panel

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
1500mm wide x 2000mm high.
Maximum height for multiple panel assembly is 4000mm but may be greater if suitable structural support work is available.

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

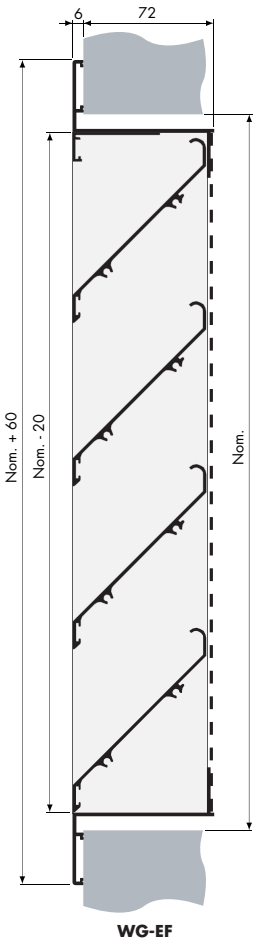
Advantages

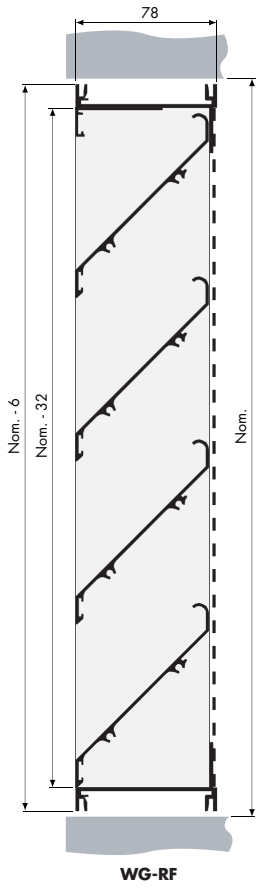
- Lightweight, extruded aluminium frame and blade system
- Weatherproof design
- Rear rain trap profile on each blade

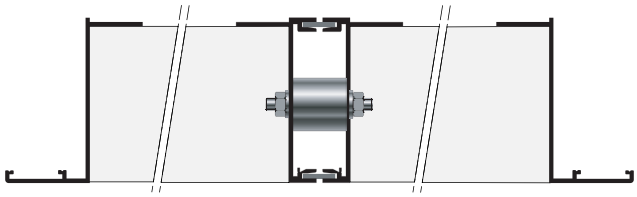
Order Example

WG-EF/800x500/PPM9006/SF/BS

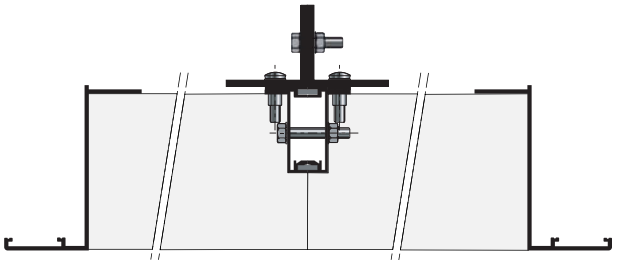
Louvre Type
Nominal Width
Nominal Height
Finish
Fixing
Screen Option



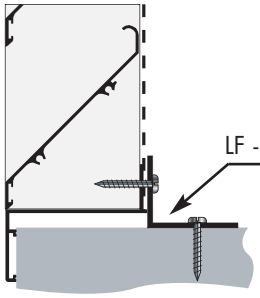




The above drawing shows a multiple WG-EF split along the width - An aluminium strip and rubber buffer allow for expansion and contraction, due to changes in temperature.



Continuous blade effect is also available for joining multiples



Free Area
WG
24% - 55%

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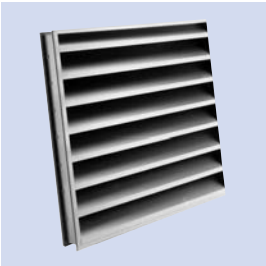
WG-EF WG-RF



Selection Example for a 2000m 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

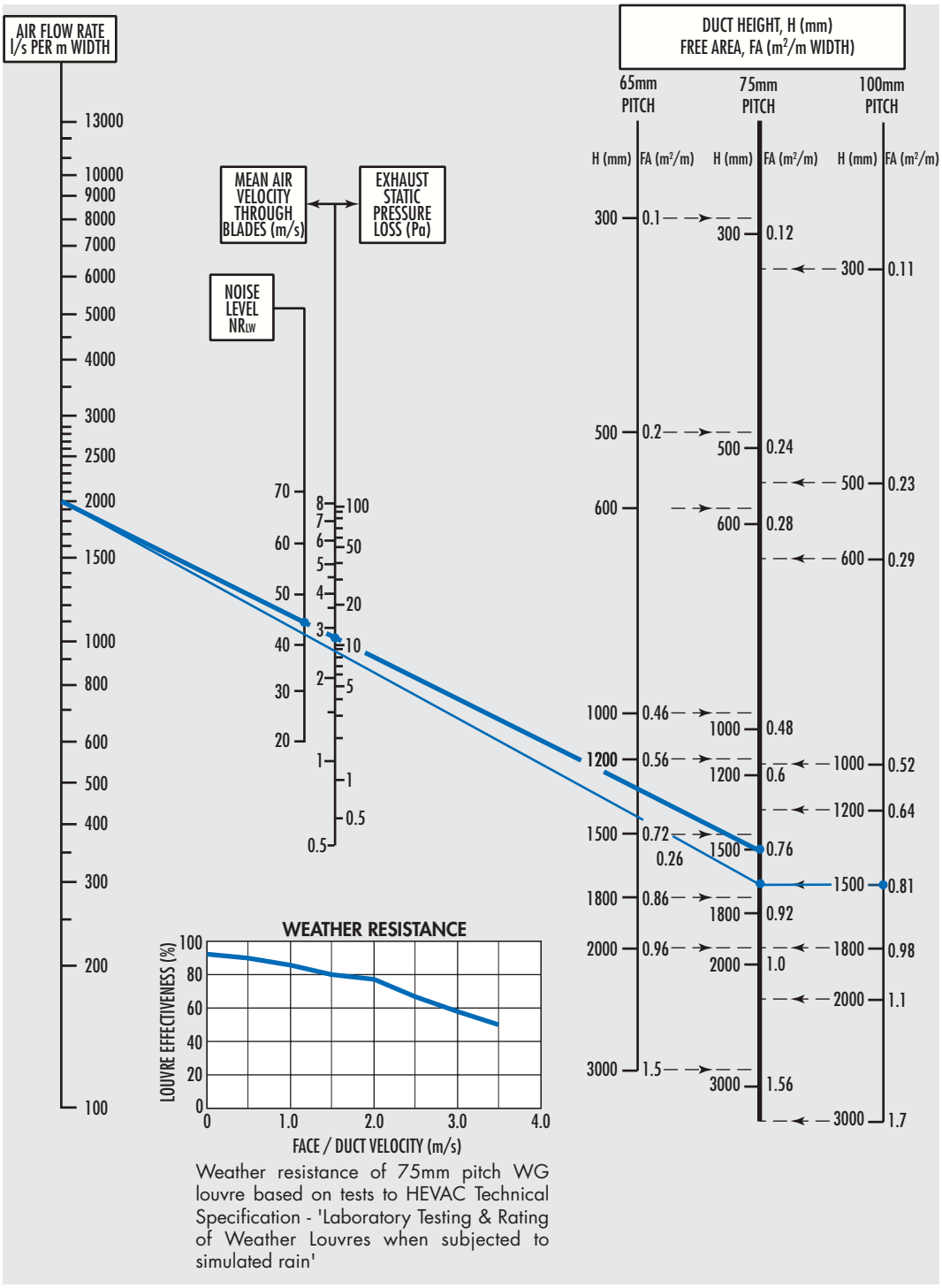
From nomogram	75mm pitch	100mm pitch
NR_{LW}	45	42
Pa	12	9
Mean Jet Velocity	2.8 m/s	2.6 m/s
Free Area x width	0.76 x 2 = 1.52m^2	0.81 x 2 = 1.62m^2

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_{LW} 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_{LW} level.

Frequency Spectrum Corrections (Hz)

125	250	500	1k	2k	4k
+6	+5	+2	0	-6	-12



Weather resistance of 75mm pitch WG louvre based on tests to HEVAC Technical Specification - 'Laboratory Testing & Rating of Weather Louvres when subjected to simulated rain'