

SLL

# **External Louvres / Sand Louvre Local**

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## Sand Louvres Local

SLL-EF / SLL-RF

#### Introduction

The SLL series 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 'inertia separation' techniques in a two stage baffle arrangement to separate particles and return them to the face via a lower blade chute.

#### **Product Description**

SLL-EF External Flanged Sand Louvre

SLL-RF Recessed Frame Sand Louvre

#### Features

- Compact design
- Heavy duty extruded aluminium frame and blades
- Attractive vertical blade arrangement
- Integral collection chute
- Flanged or recessed frame options

#### **Finishes**

PPG9010 (RAL 9010 Gloss - 80% Gloss White) PPM9010 (RAL 9010 Matt - 20% Gloss White) PPM9006 (RAL 9006 Matt - 30% Gloss Silver) Other colours available on request

#### Weights

SLL 14 kg/m<sup>2</sup> panel

#### Screen Options

BS Bird Screen

IS Insect Screen

#### **Advantages**

- Lightweight, extruded aluminium frame and blade system
- Sand and weather proof

#### Panel Sizes

SLL-EF - 320mm x 300mm up to 4570mm wide x 1500mm high.

SLL-RF - 333mm x 300mm up to 4583mm wide x 1500mm high.

Refer to table for full details.

#### Fixing

SF	Screw Fixing			
LF	Rear Lug Fixing			
NF	No Fixing			

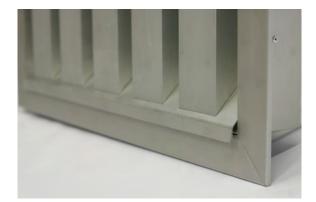
Free Area	
SLL	
30 - 35%	

### ORDER EXAMPLE

SLL-EF/1520/1500/SF/PPM9006/B	S
Frame	
Nominal Width	
Nominal Height	
Fixing	
Finish	
Screen	

	Permissible Sizes							
Min & Max Nominal Opening Width								D M
	Single	Panel	2 Pa	2 Panel 3 Panel			Min & Max Opening	
	EF	RF	EF	RF	EF	RF		ight
	Frame	Frame	Frame	Frame	Frame	Frame	Theight	
Min	320	333	1605	1618	3130	3143	Min	300
Max	1520	1533	3045	3058	4570	4583	Max	1500





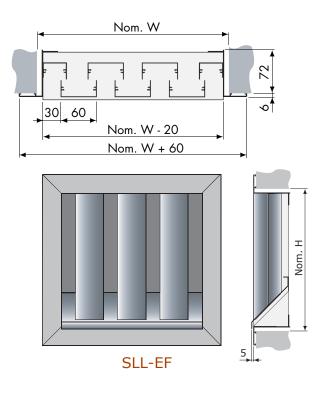


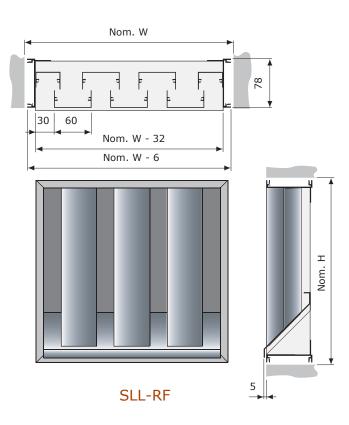


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#### PRESSURE LOSS

The graph below gives static pressure loss across the louvre for intake or exhaust applications.

The filtration performation and the velocity of the		ant on the dust ty	Filtration pe		
Particle Size Range		Filtration Efficiency in % at 1.0 m/s at 2.0 m/s			
350-800 75-800	88 62	67 30			
			Example		
For normal operation conditions the sand trap louvres should be rated for a face velocity of approx 1.0 m/s.					
Volume flow With a face velocity of 1.0 m/s		3.000 l/s (10.80	0) m³/h		
Area of louvre required	1	approx. 3 m <sup>2</sup>			
Dimensions selected – Assembly width – Assembly height		2000 mm 2700 mm			
Total pressure drop		approx. 27 Pa			

