

Industrial Eliminator Weather Louvre Zefyr I-E-WL

System

Industial

Format

Modular

Blade

Aerodymanic Profile

Application

Acoustic Media, Standtrap and Weather Eliminator

Tested

High performance fully tested louvre system; Structurally, Weatherability and Aerodynamically

Pest Control

None, Bird Guard and Insect Mesh

Finishes

Mill Finished, PPC, Anodised, Pre-coated steel or PVF2

Introduction

Zefyr "Eliminator Louvres" have been specifically designed to allow air flow into buildings and at the same time repel the entry of dust, sand and rain where these elements are natural hazards. Manufactured from most metals, the units are designed and tested to withstand the most arduous conditions over many years. Installed vertically in buildings these units provide a unique feature visually but perform an important element in ventilation design.

Application

Vertical channel louvres are site assembled units manufactured from Zefyr protected metal and are designed for fitting into openings in masonry or mounting into vertical cladding. They are designed for two main applications:

- 1. For separation of sand and water from inlet air, for both natural and mechanical air inlet systems.
- 2. For severe exposed sites where high resistance to weather penetration is required for air inlet.

Installation

Fixing is quick and easy due to the low number of components and non-requirement for special tools. Site installation is simple. The inner louvre blades are screwed to the horizontal rails, the blade spacers riveted in position, and the outer blades and flashings fixed.

Key Parts

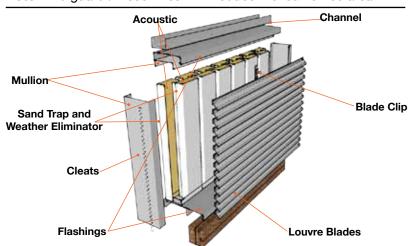
Home Farm, Stockton Road, Abberley, Worcestershire, UK, WR6 6AS. T +44 (0) 870 600 1356. F +44 (0) 870 600 1357. E info@zefyrgroup.com. W zefyrgroup.com

Blades	Protected metal, maximum inner blade length 3m. Other material specifications are available. Embossed coloured finish in standard range.
Frame & Flashings	Protected metal. Other material specifications are available.
Flashings	Head, cill and jamb flashings can be supplied, when required, to suit individual requirements and match external cladding or louvre material.
Fasteners	A comprehensive range of specialist structural fixings are available to suit requirements of each individual application / installation.
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Optional Extras

	Optional Extras
Bird Guards	Available as an optional extra in galvanised, PVC coated galvanised steel or aluminium, or to suit customer's requirements.
Insect Screens	Available as an optional extra in expanded aluminium small mesh type M901 A (to B.S. 1470: 1987) or stainless steel wire mesh.

Note: Bird guard / insect mesh will reduce the louvre free area.



Technical Data

	Dimentions
Standard	
Heights	
	1000mm
	1250mm
	1500mm
	1750mm
	2000mm
	2250mm
	2500mm
	2750mm
	3000mm
Widths	
	1260mm
	1500mm
	1740mm
	1980mm
	2220mm
	2460mm
Custom	

Custom

Height

Any height up to a maximum of 3000mm

Width

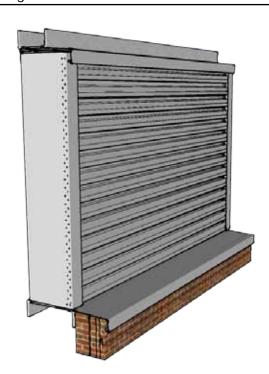
240mm x No. of outer louvre blades + 2 x 150mm

Opening Sizes

Add 20mm to louvre width dimension

Weight

25 kg/m²





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Performance

Blade design has been fully tested to produce optimum spanning, pressure loss and separation characteristics and are certified by independent test certificates. Typical efficiency based on simulated desert sand dust (1 to 89 micron) is 85%, for the base system rising to 99% + when fitted with interstitial filter media.

Rail Spacings

The maximum rail spacings are governed by the wind loadings on the louvre section. Table indicates rail spacings for some typical wind loading values.

	Wind Loading
Rail Spacing	Blades 0.7mm
1.0 KN/m2	2.83m
1.5 KN/m2	2.31m
2.0 KN/m2	2.00m

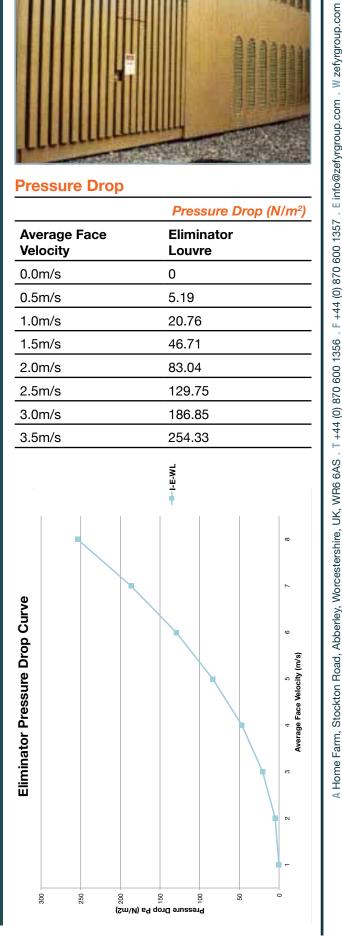
Air Flow

					Measured Fi	Measured Free Areas (M²)
	1260mm	1500mm	1740mm	1980mm	2220mm	2460mm
1000mm	0.41	0.49	0.56	0.64	0.72	08.0
1250mm	0.51	0.61	0.71	0.80	06:0	1.00
1500mm	0.61	0.73	0.85	96.0	1.08	1.20
1750mm	0.72	0.85	0.99	1.13	1.26	1.40
2000mm	0.82	0.97	1.13	1.29	1.44	1.60
2250mm	0.92	1.02	1.27	1.45	1.62	1.80
2500mm	1.02	1.22	1.41	1.61	1.80	2.00
2750mm	1.13	1.34	1.55	1.77	1.98	2.20
3000mm	1.23	1.46	1.69	1.93	2.16	2.40



Pressure Drop

	Pressure Drop (N/m²)
Average Face Velocity	Eliminator Louvre
0.0m/s	0
0.5m/s	5.19
1.0m/s	20.76
1.5m/s	46.71
2.0m/s	83.04
2.5m/s	129.75
3.0m/s	186.85
3.5m/s	254.33



NBS Specifications

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Installation to be carried out by a certified ZEFCON approved installer
Supplied to site in modular form for rapid site assembly and installation
Industrial Sand Trap / Weather Emilinatior Louvre
Modular
Vertical aerodynamic CNC precision formed and profiled interlocking channels - with integrated weathered air flow grid. Manufactured from aluminium or galvanised steel or stainless steel
CNC precision formed and profiled interlocking channels -with weathered cill. Manufactured from aluminium or galvanised steel or stainless steel
CNC precision engineered / formed
* None / Insect Mesh / Bird Guard / Blanking Panel / Insulated Blanking Panel / Acoustic Media
* UV Stabilised, washable filter media
* Optional – Internal / External
* Mill Finished, * Polyester powder coated to Zefyr standard colour / finish - chart available on request, * Anodised (aluminium only) - Natural Silver / Analok / Zefyr Colours, * Pre-coated steel - Zefyr standard colour/finish - chart available on request, PVF2