element control systems
commercial louvres & solar shading

EASY FLOW EXTRUDED ARCHITECTURAL LOUVRES

commercial louvres | solar shading | design consultancy | sales and installation | natural ventilation

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APPLICATIONS

The ECS **Easy Flow** System can be supplied as a single, two and three stage louvre system produced from extruded aluminium designed to aesthetically conceal wall-mounted intake and exhaust openings, associated with air conditioning and ventilation systems whilst providing high defence against wind and rain.

Often used as a decorative cladding, the external appearance regardless whether it is used as a façade or as a weather proof inlet .The versatility enables economical use of both configurations where the requirement is for a continuous visual effect across a building façade in which air inlets or exhaust are incorporated.

AESTHETIC AND ARCHITECTURAL APPEARANCE

Manufactured from extruded aluminium with a minimum extrusion thickness of no less than 2mm supported and connected by internal structural cleats and concealed mullions to give a external continuous appearance. The Element Control Systems Easyflow louvre system are installed on site in various configurations with louvre blade width up to 6.5me. When these measurements are exceeded the louvres are supplied in sections for joining together on site complete with cover strips with the same finish.

ECONOMIC

Cost savings result from the ability to meet exact requirements with versatile standard components. The unique design and state of the art engineered machinery enable the louvre system to be manufactured in precise dimensions to suit individual needs. This benefit enable us to provided faster turn around times and cost reductions with on site installation.

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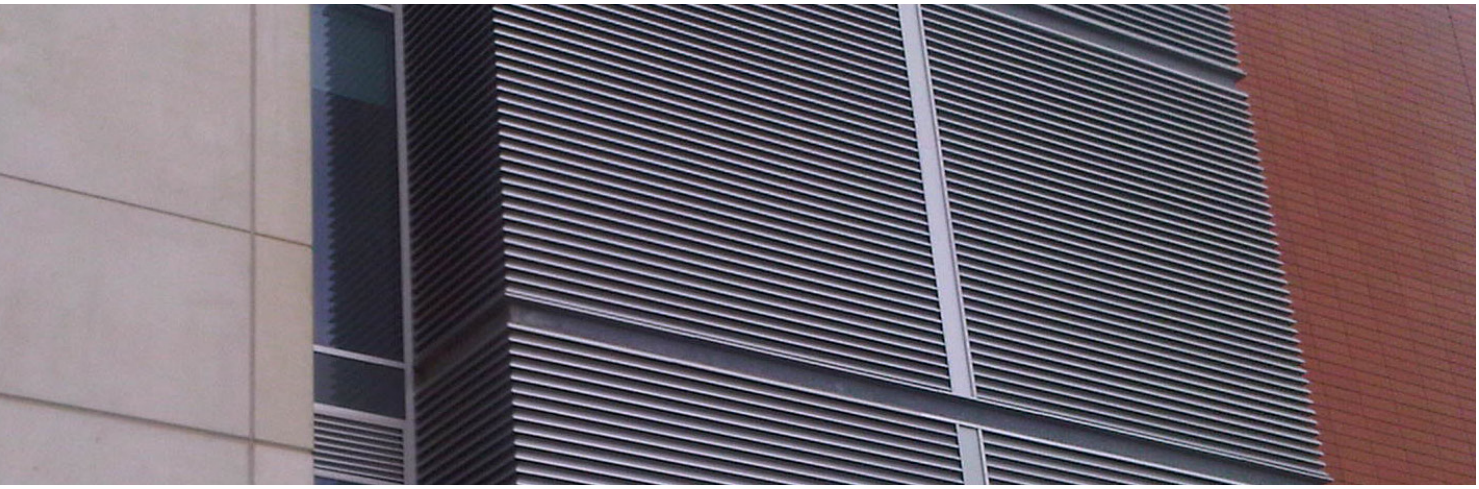

OPTIONAL ACCESSORIES

Bird, vermin guards ,insect mesh, flashings and trims are also available on request.

MATERIAL FINISHES

Powder – coated PVF2 etc / anodizing

GENERAL

Fully compliant system with respect to Structural / weatherability and free area.

BLADES

Extruded aluminium outer blade 100mm vertical pitch.

FLASHINGS

Flashings are constructed from 1.2mm aluminium sheet.

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SELECTION OF REQUIREMENTS

There are three louvres within the range to cater for a large selection of requirements:

Primary stage
Single pass medium performance half chevron louvre.

Dual Stage
Double Pass and High performance full chevron louvre.

Triple stage
Double Pass and High performance One and half chevron louvre.

PERFORMANCE DATA

The Easy Flow Cover Louvre system is manufactured to meet the requirements of Australian Standards AS 4740. With respect to: Rain Penetration Classification Aerodynamic area / Pressure dropWind loading.

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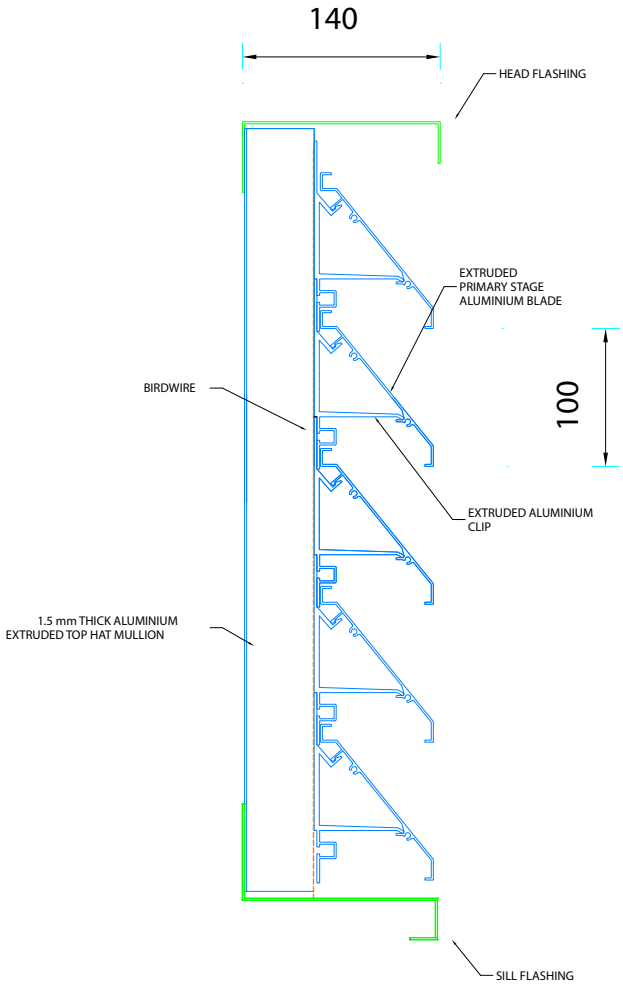
PRIMARY STAGE



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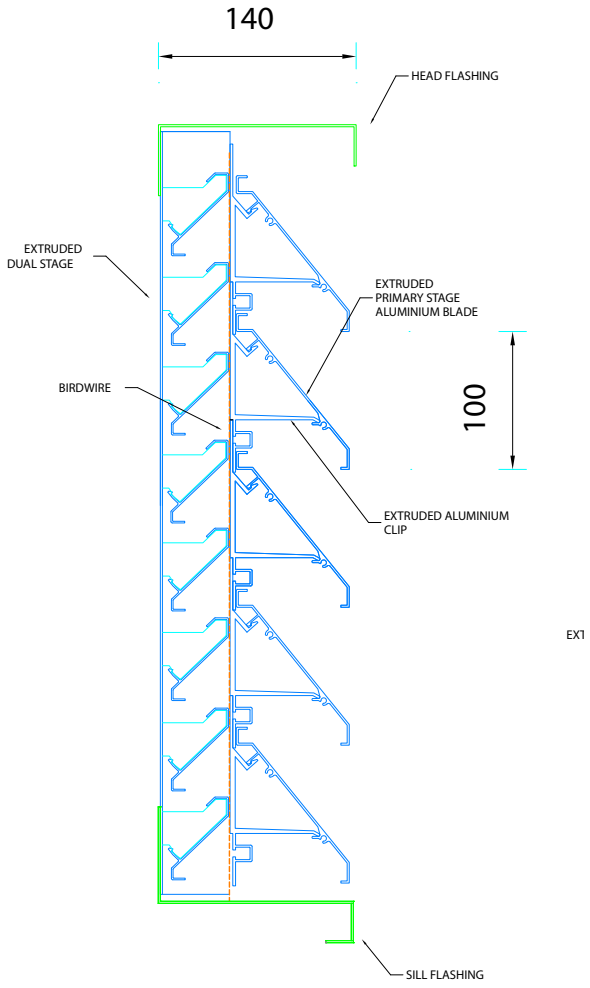
DUAL STAGE



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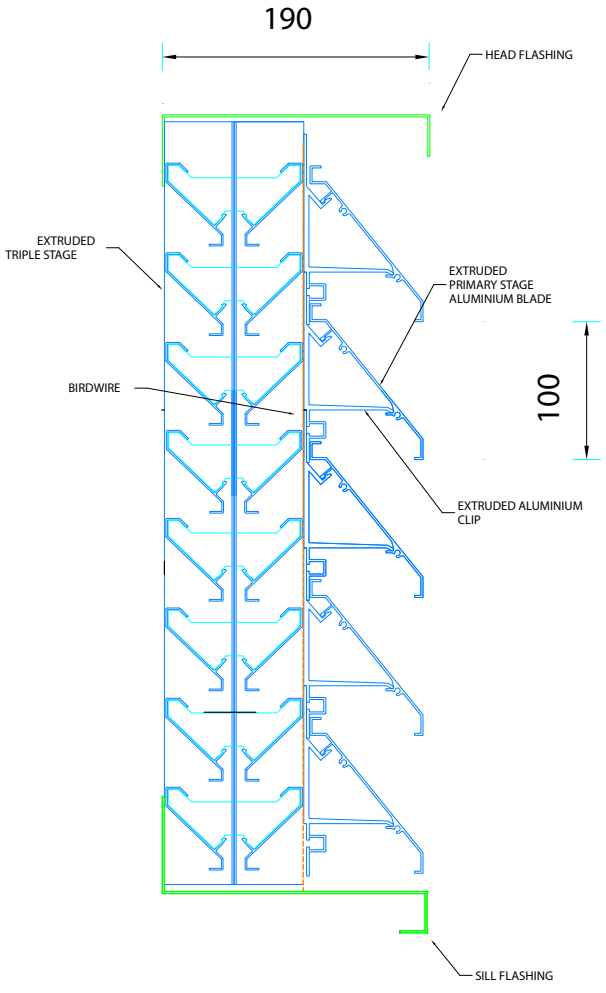
TRIPLE STAGE



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PRINCIPLE OF OPERATION

The Easy Flow louvre is a vertcal positioned louvre ventilation system designed to meet harsh Australian conditions with respect of wind and rain defence. The louvre utilizes its special shape and interlocking feature to achieve optimum airflow, and rain elimination whilst providing a very robust structural configuration to meet all wind load and external challenges.

WEATHER ABILITY - WEATHER TEST PROCEDURE

Test Procedure – EPTC / HEVAC

Element Control Systems Standard Test Criteria:

Method of test for water rejection and louvres subject to simulated rainfall

Test to extreme conditions:

No wind ..... No ventilation
No wind ..... Ventilation 5 m/s
Wind speed and ventilation combined .....8 m/s
Wind speed 13m/s
Constant rainfall at ..... 75 mm/hr

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WEATHER EFFECTIVENESS 100 LOUVRE

The attached graph summarises the results under the extreme weather conditions for each of the louvre options.

Effectiveness %

	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
100 PS	77.5	68.6	63.0	61.4	60.8	59.1	56.4	51.9			
100 DS	99.6	99.5	99.1	98.7	95 .7	90.8	81.2	72.5	61.9	53.1	
100 TS	100.0	99.9	99.8	99.7	99.6	99.6	99.5	99.4	99.3	92.3	80.6

Core Velocity m/s

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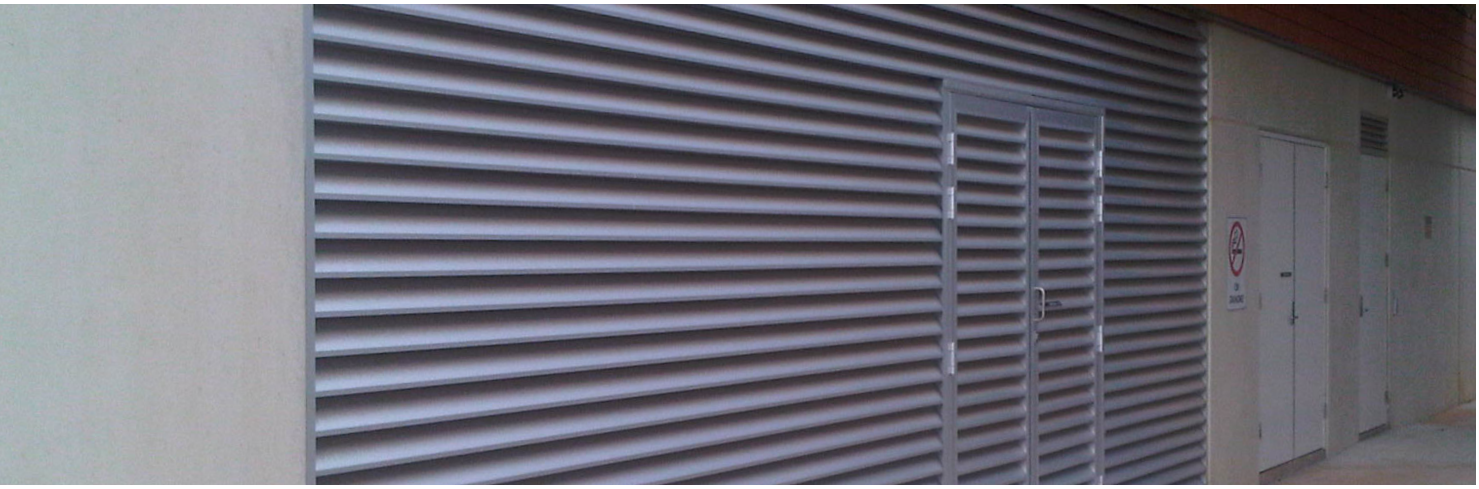
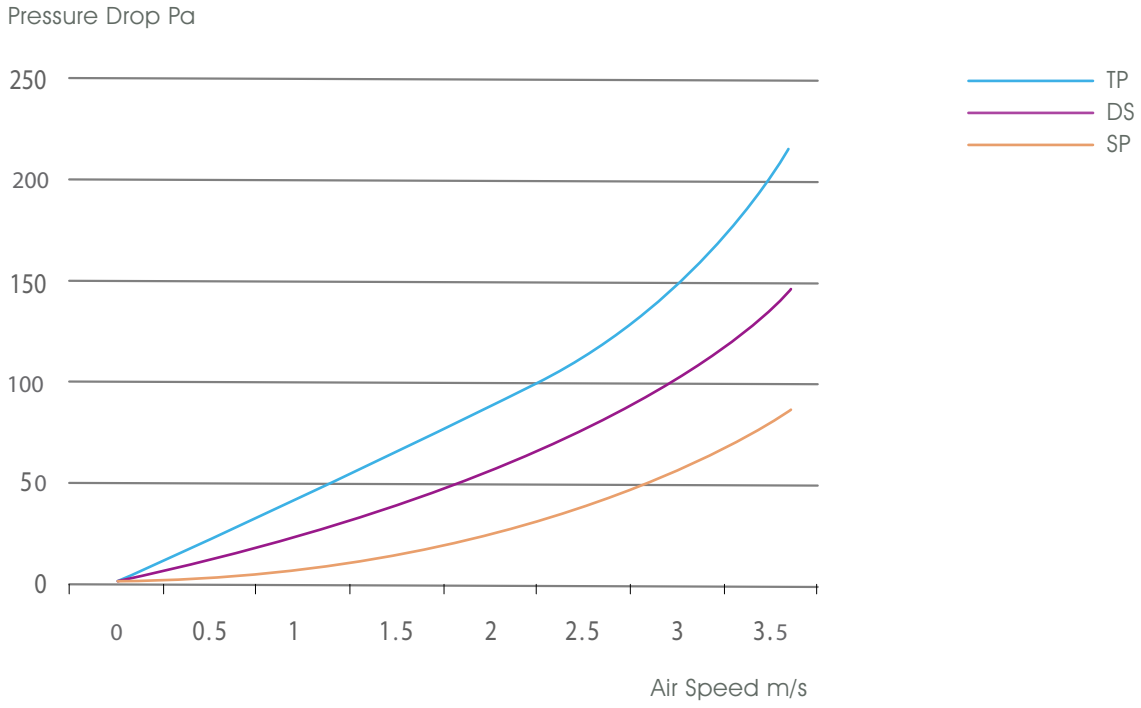


100 PRESSURE DROP CURVES

Pressure drop graphs
PS: Primary stage
DS: Double stage
TS: Triple stage



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