



Universal Louvre—Proteus PR75 Extruded Aluminium Louvre System



The PR75 system is the latest addition to the Colt Universal Louvre range. It is an extruded aluminium, single bank louvre system available in a discrete 75mm pitch configuration for screening and performance applications.

Each blade incorporates its own drain channel eliminating cascading.

The PR75 louvre blade profiles offer the crisp lines typical of extruded aluminium sections, whilst it also offers industry leading effectiveness under normal weather conditions. The PR75 System can be tailored and coated to suit all commercial and industrial applications.

All PR75 components are constructed from corrosion resistant aluminium for maximum

- ⇒ **Performance tested and classified in accordance with Australian/ New Zealand Standard AS/NZS 4740:2000**
- ⇒ *Extruded aluminium louvre blades mounted at 75mm pitch*
- ⇒ *Unique modular design allows for construction of large panels, pent house units and irregular shapes*
- ⇒ *The PR75 louvre offers a competitive solution for screening and cladding and also offers excellent performance for normal weathered applications*
- ⇒ *Available as mill finish aluminium or with a total coverage or partial coverage polyester powder paint finish*
- ⇒ *Full range of accessories available to suit particular project requirements*
- ⇒ *Durable and reliable*
- ⇒ *Virtually maintenance free*

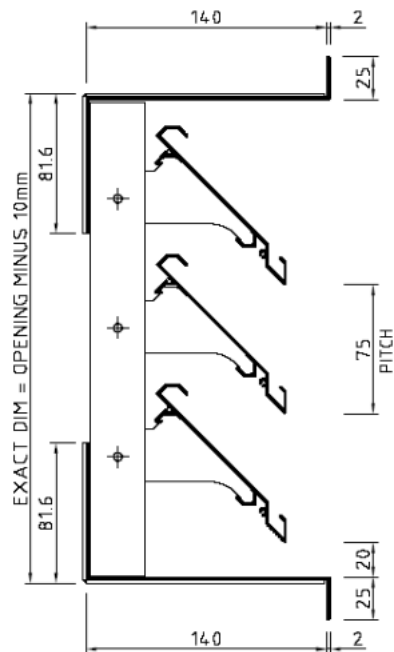
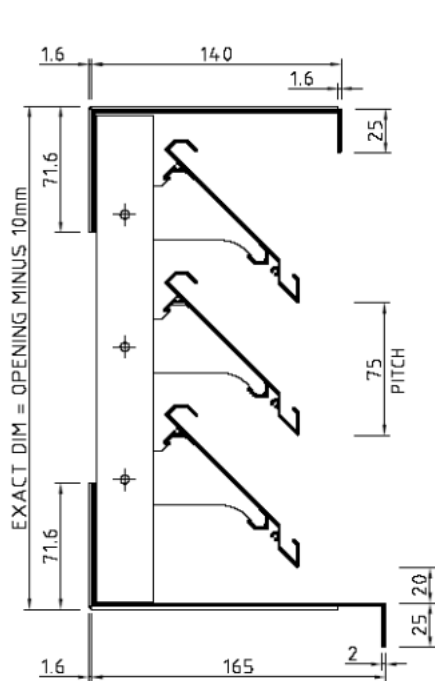
- Smoke Control** ◀
- Solar Shading** ◀
- Daylighting** ◀
- Screening and Ventilation Louvre** ◀
- Car Park Ventilation** ◀
- Climate Control** ◀

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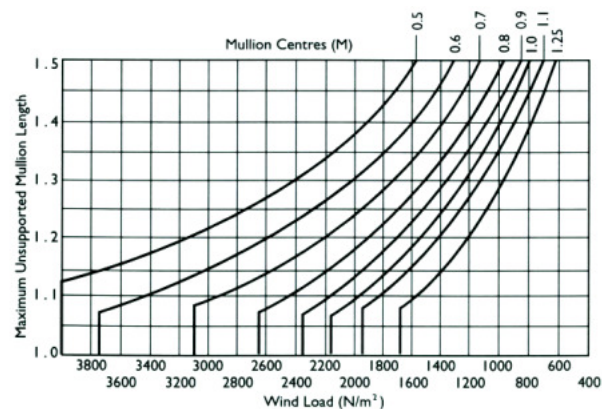
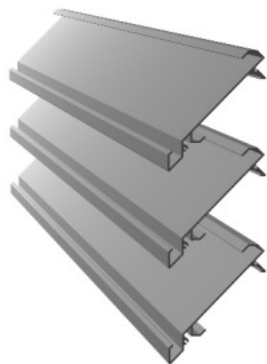
Dimensions

Standard

External Flanged Frame



Profile

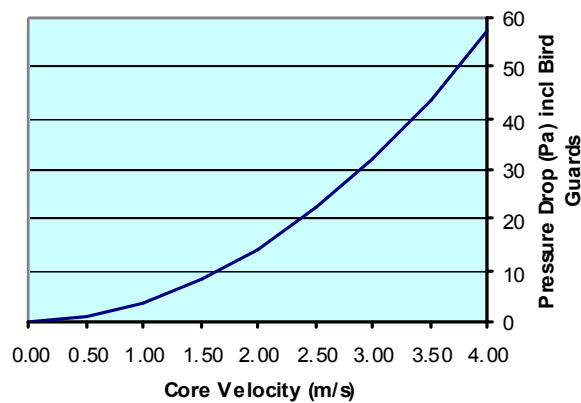


Pressure Drops

This chart is intended to provide designers with a quick reference for selecting louvre panels. The face velocity indicated here is based on the active working area of the louvre core which excludes the area taken up by the panel frame, internal mullions, and any support steelwork behind the louvre panel.

We are able to provide printout based on your design data either to select a suitable size of panel to suit your design requirement or to calculate the performance of a selected panel.

PROTEUS PR75 PRESSURE DROP



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Performance Data

The HEVAC* test standard ‘Laboratory Testing And Rating Of Weather Louvres When Subjected To Simulated Rain’ includes a simple classification system for performance louvre.

Use of the classification system enables easy comparison of manufacturers’ louvre systems.

The performance data for the Colt Universal PR75 system is taken from independent tests carried out by BSRIA[±] in accordance with the HEVAC test standard and complies with **AS/NZS 4740:2000 – Natural Ventilators – Classification and performance**.

Weather Effectiveness

Louvre Type	Core Velocity (m/s)						Effective-ness and HEVAC
	0.0	0.5	1.0	1.5	2.0	2.5	3.0
PR75	0.989%	0.922%	0.888%	0.835%	0.789%	0.708%	0.627%
	B	C	C	C	D	D	D

Tests carried out under 13m/s wind speed conditions

Aerodynamic Performance

Louvre Type	HEVAC Class	Inlet (Cv)	Inlet Press. Loss Factor (k)
PR75	2	0.35 0.44 extract	9.95

Louvre Type	HEVAC Class	Core Velocity	Weather Performance Tests at 13m/s (Beaufort scale force 6) wind speed together with 75mm/hr simulated rainfall as per AS/NZS 4740: 2000.
PR75	B2	No Core Velocity	No appreciable water entry from wind driven rain—Up to 98% effective
PR75	C2	Up to 1.5 m/s	Up to 94% effective
PR75	D2	1.5 to 2.0 m/s	Up to 80% effective
PR75	D2	2.0 to 3.5 m/s	Up to 80% effective

* Heating Ventilation and Air Conditioning Manufacturers’ Association

± Building Services Research and Information Association

The Product

The PR75 louvre system supplements the long-established benefits of the Colt Universal Louvre System by offering specifiers the choice of an extruded aluminium louvre blade mounted at 75mm pitch.

The Proteus louvre incorporates the usual Colt feature of utilising a “Hidden Mullion” structural design, which enables the designer to provide continuous louvre lines, of any length and any height, in an unbroken visual line. This feature where the louvre clips onto the mullion, not only saves time (particularly on large site assembled banks) but also allows for expansion and contraction in the building itself.

Please note that where rain defence is important, or vital, particularly at high suction velocities, we strongly recommend using our Double or Triple Bank (2UL or 3UL) Universal louvre Range. If in doubt please enquire.

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Product Specification

Colt Single Bank universal Louvre type PR75 with extruded louvre blades clipped horizontally at 75mm pitch onto structural support mullions to give a continuous external appearance and to allow longitudinal expansion and contraction of the louvres

Principal components to be manufactured from aluminium Type 5005 and 6060 (blades) with a MILL / POLYESTER POWDER finish – TOTAL / PARTIAL coverage

HEVAC Class: -- at --- m/s core velocity

CAD files & BIM content please visit:



www.productspec.net 'Colt Proteus'

