



Technologies for a Sustainable Future

AUSTRALIAN MADE TURBINE VENTILATOR

HURRICANE™
TURBINE VENTILATORS



CSR

VENTILATION FOR A BETTER ENVIRONMENT



A well designed building ventilation system will contribute to improved productivity and a safer work environment. Adequate ventilation means stale, polluted or uncomfortably hot air is exchanged with fresh, external air, improving the quality and comfort of the internal environment for building occupants. It can also help reduce energy usage and greenhouse gas emissions.

With more than 70 years experience in ventilation systems, Edmonds is the market leader in natural, wind driven vent technology. Hurricane™ ventilation systems have been installed in almost every building environment, from the extreme heat of the Middle East, the gales of southern USA, to the cold of Canada and the rain of New Zealand.

Why Ventilate commercial and Industrial buildings?

Reduce internal temperatures in summer

A well ventilated building can reduce the build up of trapped heat, making for more efficient temperature control and a more comfortable workplace. Hot air built up during the day is removed and replaced with the cooler evening air which, in turn, is stored in high thermal structures like concrete slabs. The next morning, warm air entering a building is cooled by impact with the cold structures.

Reduce humidity and potential corrosion

Reducing moisture levels inside a building not only improves the environment for the occupants, but also reduces the potential for corrosion of building structures.

Reduce energy consumption

A ventilated building can have temperatures up to 4 degrees lower than a non-ventilated building at midday. You won't need to rely so much on air conditioners, which means lower ongoing energy bills.

Remove pollutants

Some workplaces can produce atmospheric pollutants which cause distress at critical levels.

Natural ventilation continuously removes pollutants, replacing them with clean, fresh air.

Release smoke

Many buildings today are required to install smoke release vents which are often pneumatically controlled hatches with fusible links, which spring open in the event of high temperatures or smoke build up.

They are costly, but rarely used. Specifically designed natural wind ventilators can replace smoke release vents and perform both the function of smoke release and constant ventilation – a dual purpose, with assured return on investment.

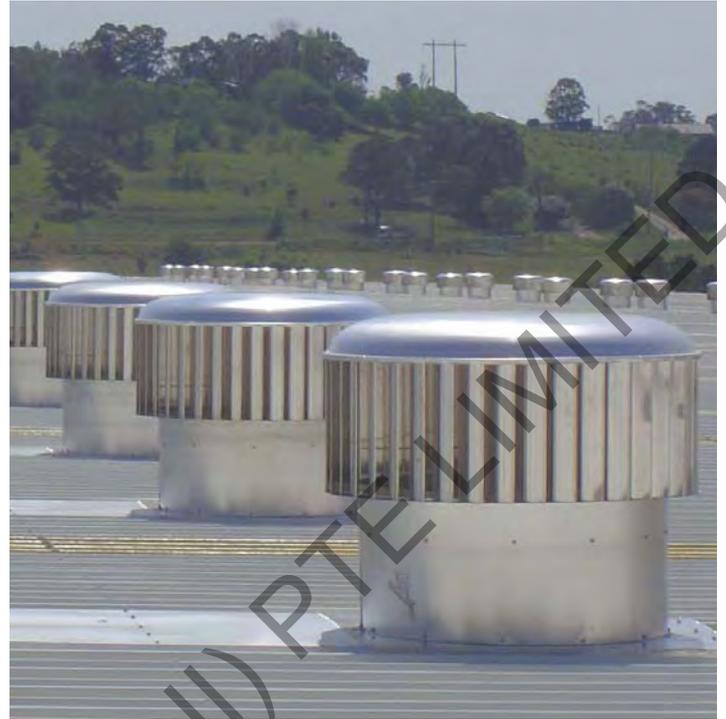
HURRICANE™ VENTILATION BY EDMONDS

Edmonds Hurricane™ ventilators are constructed from corrosion resistant aluminium and feature a Tandaco pre-packaged double row bearing system, for optimum performance under a wide range of conditions.

Hurricane™ ventilation systems are designed to ensure your building will have the best ventilation performance, with the right air exchange rates. For your peace of mind, all our standard products have a 15 year warranty.

Hurricane™ ventilators have been performance tested to Australian Standard 4740 (Performance of Natural Ventilators) to determine flow rate capacities. They have also been wind load tested to 195km/h and tested for rain penetration to Australian Standard 2428.1.

The Australian designed and manufactured Hurricane™ Turbine Ventilator has received global recognition as the leader in wind-driven ventilator technology.



Exported to over 40 countries, it has been used by some of the world's largest corporations including:

- General Electric (Canada, USA, Brazil, Chile, Vietnam)
- Honda (India)
- Toyota (Oman)
- Umicore (Bulgaria)
- Daewoo (Romania)
- Alcan (USA)
- Harvey Norman (Australia)
- Over 300 colleges and schools in Australia.



Hurricane™ ventilators incorporate the following advanced features:

Feature of Hurricane™	Benefit
Specifically designed for commercial / industrial applications	<ul style="list-style-type: none"> • Delivers a better working environment • Reduces temperatures in buildings • Reduces humidity in buildings • Reduces pollutant levels
Made from light weight, corrosion resistant marine grade equivalent aluminium	<ul style="list-style-type: none"> • Responds well to low wind speeds • Built for long life and resistance to corrosion • Easy to install • No special structural strengthening of roof required
Higher flow coefficients than comparable size spherical vents	<ul style="list-style-type: none"> • Less ventilators required for your building • More cost effective solutions • Better performance at all wind speeds
Extensive range of products	<ul style="list-style-type: none"> • Ability to develop tailored solutions for the majority of ventilation requirements and environmental conditions
Available in high corrosion resistance version	<ul style="list-style-type: none"> • Longer life of product in highly corrosive environments • No ongoing maintenance costs and reduced replacement frequency
Available in product suited for smoke release applications	<ul style="list-style-type: none"> • Dual system - Smoke release in case of fire, as well as continual natural building ventilation • Better value for money
Tested to Australian Standards	<ul style="list-style-type: none"> • Vents will perform as specified (test reports available on request)
Matching accessories	<ul style="list-style-type: none"> • Ensures the aesthetics of the overall building are maintained • The system performs to your requirements
Manual and Electric dampers	<ul style="list-style-type: none"> • Retains building warmth in winter
Short lead times on standard products	<ul style="list-style-type: none"> • Availability of varipitch throat which is adjustable to a wide range of roof angles, ensures standard stock is readily available
15 year warranty	<ul style="list-style-type: none"> • Peace of mind that standard product will have long service life, without problems or ongoing maintenance
Edmonds offers a design service to help ensure the right size/number/type of vents is specified according to AS4740	<ul style="list-style-type: none"> • Peace of mind • Knowledge that system will achieve desired air exchange rates to ensure required performance

CHOOSING THE RIGHT HURRICANE™ VENTILATION SYSTEM

When choosing a ventilation system the Edmonds AS4740 design program takes many factors into consideration and calculates the optimal ventilation scheme for a building to achieve desired air exchange rates. Following a site visit, or on receipt of your building plans, Edmonds can help architects, engineers or building owners to make the right selection, in line with AS4740.



Specification of Edmonds Hurricane™ Ventilators

The performance of natural wind ventilators, as measured under AS4740, varies markedly due to differences in design, weight of head, quality of bearing system and internal blockages. It is critical that, if design calculations have been carried out on Edmonds ventilators, that the Hurricane™ product is not substituted with an alternate product, otherwise the performance of the overall system is unlikely to achieve stated performance.

Sample specification

The roof ventilators shall be Edmonds Hurricane™ Turbine Ventilators as indicated in the drawing. They shall be manufactured from aluminium, with vertical turbine vanes and incorporate the Tandaco bearing system.

The bases shall be varipitch/ridge mounting and dampers shall/shall not be provided.

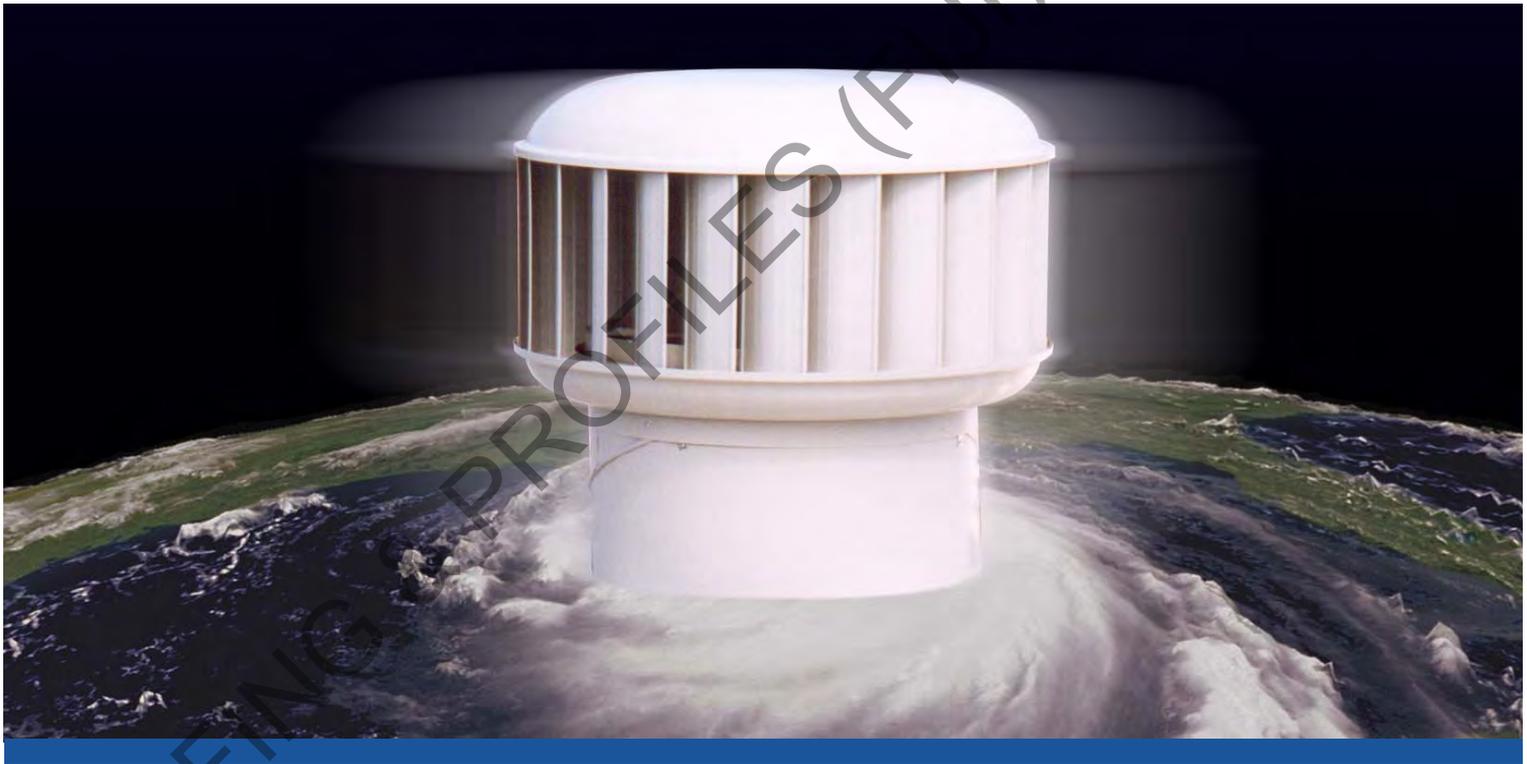


THE HURRICANE™ RANGE

Ventilator Type	Sizes	Application	Colours	Accessories
Standard Hurricane™ Turbine Ventilator	100-900mm	Heat, humidity and pollutant reduction in commercial buildings, warehouses, standard factories.	Mill 24 Colours*	<ul style="list-style-type: none"> • Special Bases • Manual and Electric Dampers • Ceiling Grilles
Hurricane™ S2	100-600mm	Heat and high humidity reduction in hostile environments.	Mill 25 Colours**	<ul style="list-style-type: none"> • Special Bases • Manual Dampers
Hurricane™ H900 HI	900mm	Heat, humidity and high pollutant reduction in very hostile or corrosive environments.	Mill 25 Colours**	<ul style="list-style-type: none"> • Special Bases • Manual Dampers
Hurricane™ H900 FR	900mm	Heat, humidity and pollutant reduction and Smoke Release.	Mill 24 Colours*	<ul style="list-style-type: none"> • Special Bases • Manual and Electric Dampers

* Colours to match the popular Bluescope Colorbond® range.

† The Hurricane™ S2 range and the H900 HI are available with a White Polyolefin coating designed to withstand extremely harsh atmospheric environments.



 **EDMONDS**
Technologies for a Sustainable Future

To find out more, call your local Edmonds Ventilation Specialist
on **1300 852 647** or visit **www.edmonds.com.au**

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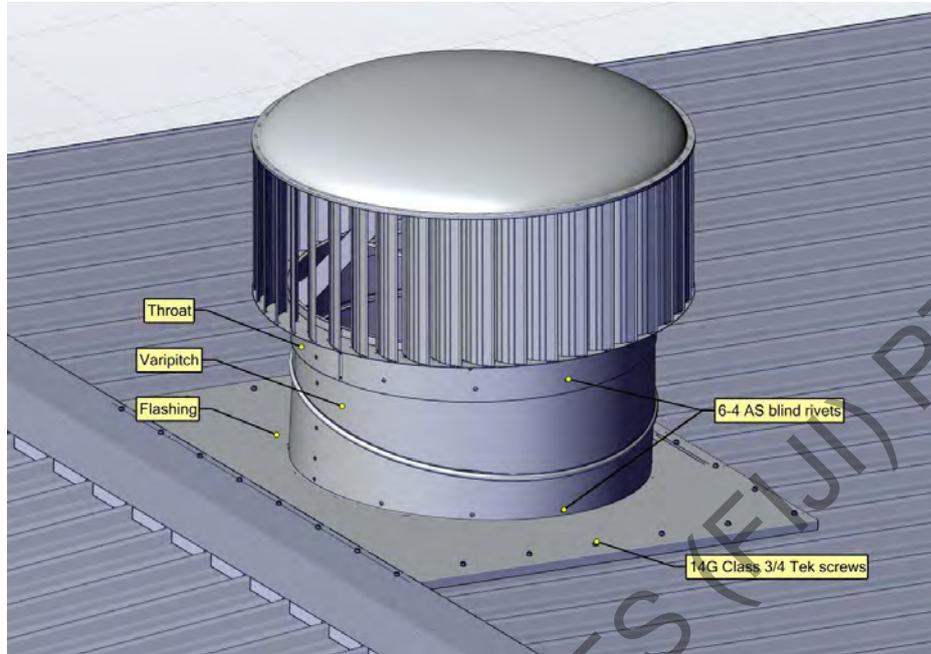
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INSTALLATION INSTRUCTION

EP900/H900 Cyclone Strap Fixing Details

These installation instructions are to be used as a supplement to the relevant *ecopower* or Hurricane standard installation instructions. Specific fixing details provided in this installation instruction should be used in lieu of those in the standard installation instruction.

External fixing detail

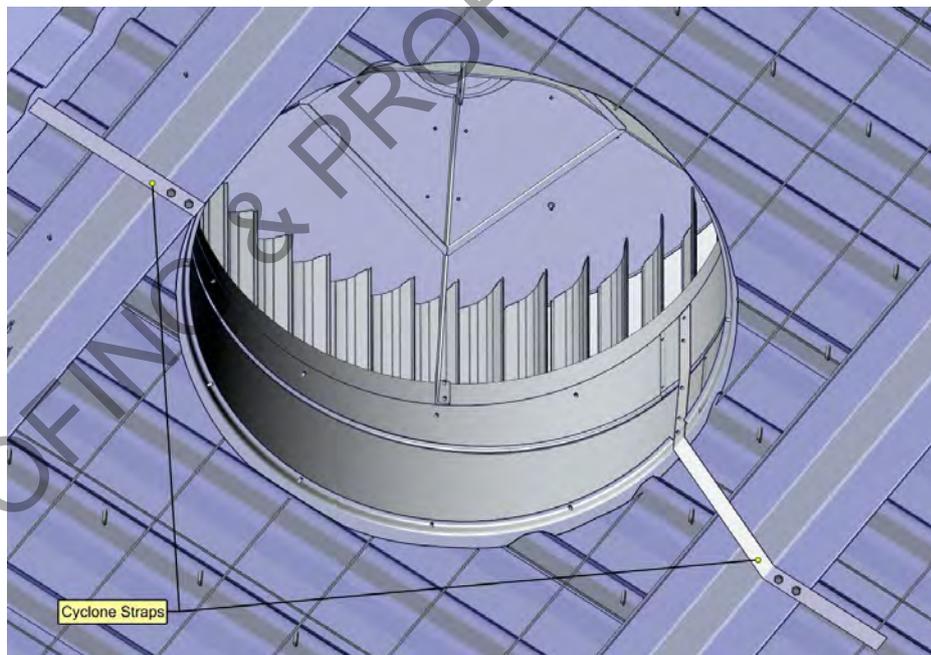


Fix Flashing to roof with 14G Class 3 or 4 Tek screws. Locate 4 close to varipitch and 26 around the 4 sides of the flashing

Fix Varipitch to Flashing with 12 x 6-4 AS blind rivets. Seal with silicone if unsealed rivets are used.

Fix Throat to Varipitch with 12 x 6-4 AS blind rivets. Seal with silicone if unsealed rivets are used.

Cyclone Strap fixing detail

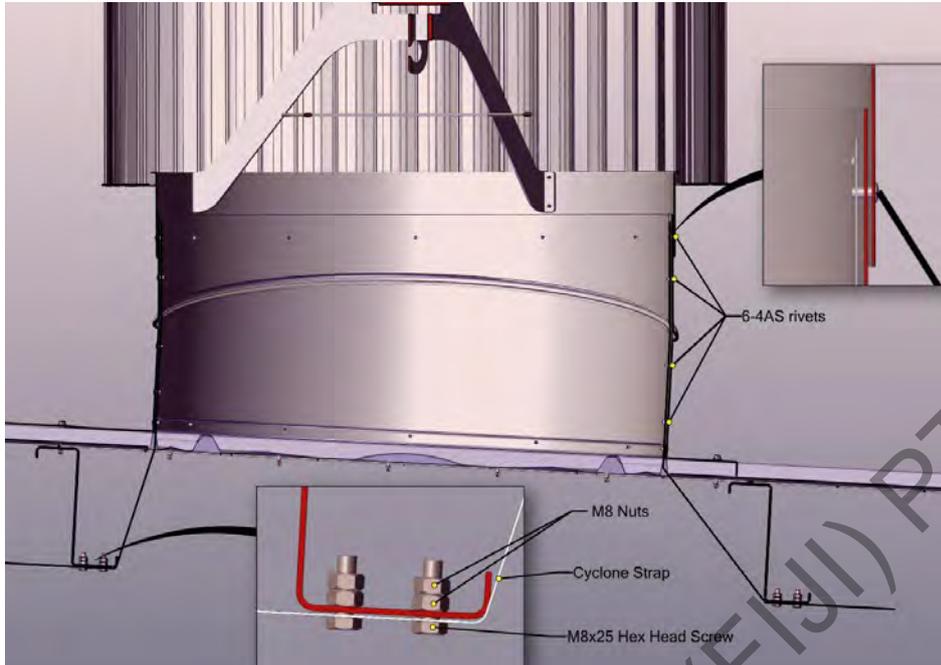


Bend the 30x0.8x950mm long Cyclone Straps to reach from inside the top edge of the varipitch, down to the underside of a roof purlin as shown.

INSTALLATION INSTRUCTION

EP900/H900 Cyclone Strap Fixing Details

Cyclone Strap fixing detail (section view)



Fix each cyclone fixing strap to the inside of the varipitch with at least 4 x 6-4 AS rivets. Two rivets must be located above the varipitch seam with one through the throat, varipitch and strap.

Fix the lower end of the strap to the purlin with M8 hex head screws (minimum class 4.6) and two M8 nuts per screw to securely lock.

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