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## Welcome

Welcome to the first edition of our e-Newsletter, all about window control systems..

In each edition we will be including information on passive ventilation (and associated concepts) and why it is so important in our current physical and economic climate. From time to time keep your eye out for other special interest items.

Also featured will be a recent project that we have installed or been involved in and one of our quality products that could be of interest in your future projects.

At Unique Window Services we pride ourselves on providing expert advice. So, following on from that, we would love to hear from you about what features you would like in forth coming editions; after all we are here to help you. Of course feel free to call at anytime with questions you might have.

Please have a read through our first edition, I hope you find it informative and just a little bit educational.

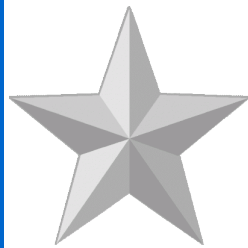
Kind regards,

### Shane Grice

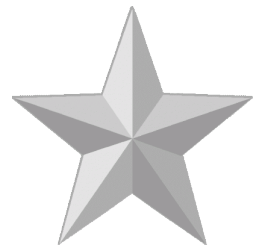
Owner/Managing Director



## Gold Class Movie Tickets



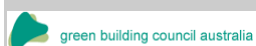
In recognition and celebration of our first edition we would like to offer all those who sign up to receive this quarterly newsletter, through our website, the chance to win a pair of Gold Class movie tickets. We will randomly draw three winners per month over the next three months, good luck.



Please follow [this link](#) to sign up and go into the draw to win the tickets. Of course while you are there browse the website to see our portfolio and available products.



Interesting and useful links:



## Feature Article - Passive Ventilation

Fortunately, there has been a greater interest in passive ventilation in recent years. Unfortunately, much of the information that has been circulated has been very complicated, incomplete or just wrong. What we would like to do through this medium is start to explain what passive ventilation is and how it works.

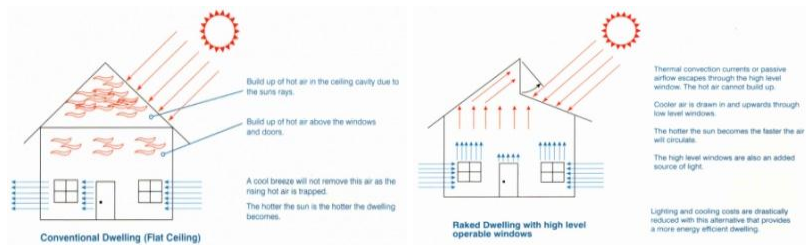
In its most basic form, passive ventilation is the promotion of air movement through a space

using naturally occurring thermal convection currents.

As we all know hot air rises, how many of us have lived in a two storey home and not ever wanted to go upstairs in the peak of summer! What passive ventilation does is that it uses this natural law to create a flow of air through a space.

To take advantage of this, high level operable windows need to be incorporated into the design to give the hot air somewhere to escape through. With the hot air escaping through the high level windows cooler and fresher air would be drawn in through low level windows and doors.

### Passive Ventilation Diagrams



Unless the hot air escapes, the space in which it is trapped it will not cool down. This is the limiting factor with ceiling fans, as all they do is move hot air around. For instance, should there be a breeze available to flow through the space (via low level windows) there will be some cooling effect with the use of a fan. However what if it is a very still day?

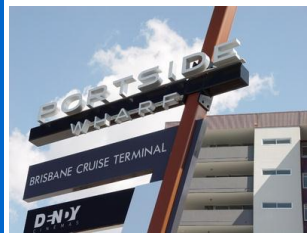
The beauty of passive ventilation is that it creates its own air flow and is not reliant on any other natural process. Even if it is a still day outside hot air inside will still rise and passive ventilation will create a cooling air flow inside your home, as long as you have high level operable windows to allow the heat to escape.

With our assistance, this concept has also been incorporated in the Orion Springfield Town Centre. The designers used a 'Night Purge' system to expel the hot air that builds up overnight. Early in the morning operable high level windows are opened to allow the hot air to escape prior to the mechanical air-conditioning starting. This 'Flush' reduces the internal air temperature so that additional strain is not placed on the air-conditioning to cool already over heated air, therefore saving on costs and helping the environment.

**Passive Ventilation Brochure:** [Printable Brochure](#)

**Passive Ventilation Diagram:** [Printable Brochure](#)

## Feature Project - Portside Wharf



Our role in this development was to automate the high level windows in common areas to create a smoke vent.

Within seconds of smoke being detected our motors are engaged through the Building Management System. The opening of these windows allows the immediate escape of any built up smoke and other harmful gases whilst providing the continued means of diversion for these dangerous elements.



The purging of these gases increases visibility for patrons and the time that they have to escape in the case of a fire emergency. The increased visibility also allows emergency personnel a greater chance of identifying and dealing with the issue and bringing the situation under control in a timely manner.

To ensure the ongoing functionality of the motors, should the mains power fail, also installed at Portside Wharf is a battery back-up system.

## Feature Product - Linco L4RF



Linco's newest and fastest electric chainwinder is the L4RF. Installation is made simple due to the fitted three pin plug and multi fit mounting brackets. When installing the chainwinder the chain will need to be extended to connect to the sash. Until now this has been very difficult to achieve as previous units needed to be hardwired before they could be operated. The three pin plug allows the units to be operated by means of any 240v supply with the appropriate outlet or lead. Once the chainwinder is installed to the sash the electrician can either supply a GPO for each motor or remove the plugs and hardwire them to conceal the wiring in a wall cavity.

Being 240v with an inbuilt Radio Frequency remote control eliminates the need for cumbersome transformers and complex wiring, adding the option of mounting in the factory before delivery to site. With a range of thirty (30) metres the RF control will allow the windows to be operated from almost any position in a room or hall.

Suitable for awning windows with an area approaching one square metre the slimline design of the casing will not detract from any environment it is installed in. Based on the other ever reliable Linco chainwinders this new edition is sure to give years of simple and easy operation.



Product Brochure: [Printable Brochure](#)

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