



Designers and makers of individually crafted kitchens, furniture, and specialty items

## PAARHAMMER window systems

### Info Pack

(TYROL windows)

PAARHAMMER window systems are **double-glazed** and feature **double-rebated timber frames** in the dimensions 80 x 65mm for windows and 115 x 65mm for doors, joined with mortise and tenon joints. **Different timbers** are available including Laminated KD Hardwood, Queensland Maple, plantation timbers such as Hoop Pine and Scandinavian Fir.

**The tilt & turn fittings** are precision made by Siegenia in **Germany** and give you the flexibility of two opening positions (side opening casement or top opening hopper) operated with one handle. These fittings have several locking pins all around the window, which lock the sash into the frame to provide **multi point metal to metal security locking**. This means that the energy saved through double-glazing is not lost through the frame.

A special **rubber seal** creates an airtight fit between the frame and sash which guarantees extra insulation, eliminates drafts and also the need for heavy drapes. An **aluminium strip** on the outside drains rainwater away from the window and protects the timber frame.

You can **save around 40% on your energy cost**, depending on the type of glass and size of airspace used to make up the sealed glass units. The most energy efficient airspaces are between 12 and 20mm. By using thick laminated glass on the outside and a larger airspace, we can also achieve a **sound protection of up to 45dB** (equalling 80-90% noise reduction).

Our glass supplier specialises in quality **dual seal, double glazed units** and gives a 10-year warranty on all their products. The completed double glazed units are **factory installed** into the windows prior to delivery. All glazing is in accordance with the Australian Standard.

We can give you **professional practical advice** on different window systems to use in your special circumstances. The right solution is vital for the best possible insulating barrier against temperature exchange between the inside and outside of your home.

**Our product range** includes: Tilt & turn windows and doors, french doors, sliding-byfold-tilt doors, parallel-sliding-tilt doors and solid timber double-rebated entrance doors. Timber and aluminium fly-screens are available.

Each PAARHAMMER window and conservatory is **custom-made** and there is virtually **no limit to size and shape**. Conservatories are fabricated of modular units made up with tilt & turn windows, doors and fixed units. The roof construction consists of timber rafters with exterior 'St. Kilda Suite' aluminium capping.

**Colonial bars** are available in either timber on both sides of the glass panes or in powder coated aluminium sandwiched inside the sealed glass pane.

PAARHAMMER windows are generally **supplied spraypainted**. Hardware and rubber seals could be damaged when painted on site therefore we spray-paint the frames prior to hardware and seals being installed.

After being primed with DWD Dimension III, our windows are spraypainted with **Intergrain**, a water based (environmentally friendly) **semitransparent coating** which makes them maintenance free for many years. Alternatively, windows can be painted with **Haymes** trim paint in a **colour of your choice**. These coatings expand and contract with the timber without peeling. In bush fire areas regulations specify a fire retardant primer to reduce fire danger. We use **Firefree Ff88** – a non toxic, water based, latex fire retardant paint – in such cases.

PAARHAMMER windows can be installed in **any kind of building** - new or old - brick, brick veneer, mudbrick, aerated concrete, rammed earth, timber etc. We also offer **professional installation**, as we want to ensure an airtight fit into the wall, achieving this with expandable polyurethane foam and caulking where necessary.

These window systems have been in use **in Europe for more than 40 years**, and when we started our business here in Victoria in 1990, manufacturing quality kitchens and fine furniture, we also found a niche market for double glazed product.

The demand for energy efficient windows has increased dramatically in recent times and **HERS** (house energy) ratings together with **WERS** (window energy) ratings become an important aspect in the building industry.

PAARHAMMER windows and conservatories are on display at the **Building Display Centre, 332 Albert Street, East Melbourne** (Ph: 9419 7488) and our factory showroom here at Ballan. [Delivery can be arranged Australia wide.](#)

Please contact us if you would like any further information or a free quote - we are happy to assist. Freecall: 1800 676 797 or [mail@paarhammer.com.au](mailto:mail@paarhammer.com.au) or visit our website [www.paarhammer.com.au](http://www.paarhammer.com.au) to view our window range and other products.



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## **RAIA AWARD**

A two-storey building at Fairhaven won the **Energy Efficiency Award** (of the Royal Australian Institute of Architecture) due to the lay out, insulation and the superior double glazing system by Paarhammer Pty Ltd. Now Paarhammer windows and doors have been recognised for their **Award Winning Quality** and ability to provide substantial **Energy Savings**.

## **WHAT DOES “R” VALUE MEAN?**

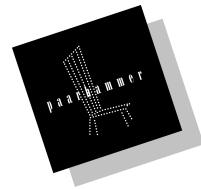
“R Value” measures how heat and cold transfers through your windows.

The higher the “R Value” the better the insulation.

So when you buy double glazed windows, it’s vital you compare the “R Values” otherwise you may buy an inefficient window system and simply waste your money!

## **Sensitivity of R Values to Frame Properties and Glass Infills**

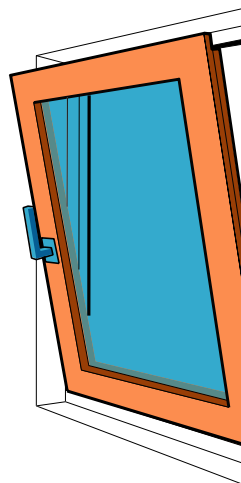
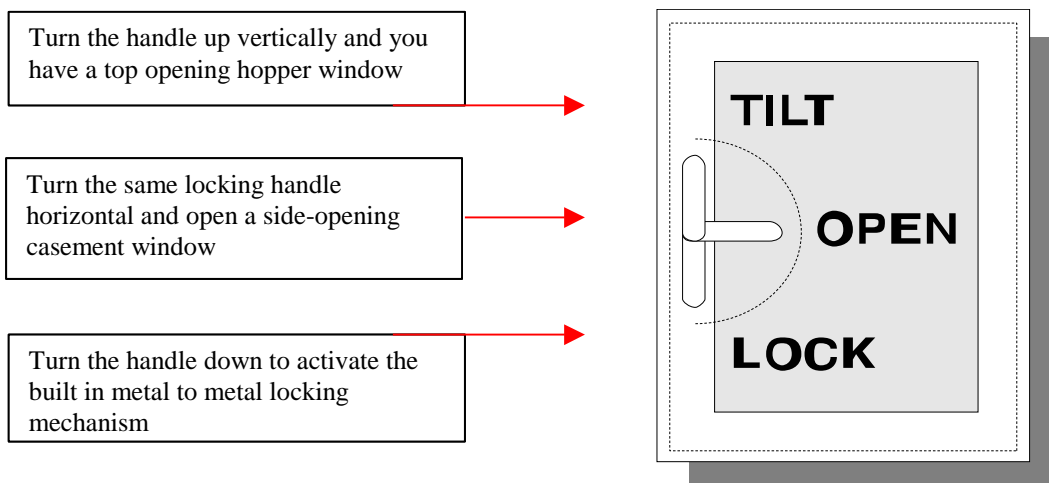
4mm Glass	PAARHAMMER windows Timber Double Glazed 16mm airspace frame dimensions 80 x 65mm with rubber seals	.48
3mm Glass	P.V.C. Double Glazed	.45
3mm Glass	Standard Wood Double Glazed	.33
	Standard Wood Single Glazed	.20
3mm Glass	Aluminium Double Glazed	.19
	Aluminium Single Glazed	.14



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## Paarhammer Tilt & Turn window operation

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Tilted, our windows allow for excellent ventilation and are much more secure than conventional windows

Turned, (opened sideways to the inside) the windows can be cleaned from inside which makes sense especially in multistorey buildings

