

paarhammer



The windows of
the future today

Information
for Architects
& Building
Professionals



...windows that bring an extra dimension to architectural expression while achieving extraordinary energy efficiency.

Welcome to Paarhammer Windows & Doors

Our **mission** is to increase energy efficiency in housing, and comfort for occupants, through custom made double and triple glazed windows and doors, made from sustainable resources, in a facility with sustainable features, delivered on-time and to the highest quality.

Founded in 1990 by Tony and Edith Paarhammer, the company now operates with a dedicated workforce from a purpose built manufacturing facility of 4500m², with the latest in CNC machinery and a spray-painting robot.

Our customers can expect a commitment to sustainable building and the highest star rating through customised solutions, experienced technical problem solving, project management, outstanding communication and quality control. A virtual or in-person visit is the ideal opportunity to take a tour and view a large range of products, discuss your project and see how your future windows and doors are created.

Energy efficiency

40% of a home's energy for cooling or heating is being lost (or gained) through windows. Paarhammer products feature up to 7½ Energy Stars, meaning that you can save up to 85% of energy in addition to enjoying a very comfortable indoor climate. The lower the U-value, the better the window. Paarhammer U-values start from a very low 0.8 WERS (Window Energy Rating Scheme).



Sustainability

We are deeply committed to a sustainable future.

Paarhammer windows & doors are made from timber - a renewable resource and stores carbon for life. Using only certified timbers, Paarhammer is FSC® Chain-of-Custody certified, and low-VOC paints. The manufacturing facility is powered by the sun with an almost 100kW photovoltaic system, a light management system, water tanks and waste system which makes sawdust into briquettes to provide heat and reduce landfill. Paarhammer is also a signatory to Take-2 and Australian Builders Declare Climate & Biodiversity Emergency.

Australian made

Paarhammer is proud to manufacture in Australia.

Our philosophy is about sustainability and local jobs, therefore we use local materials where possible. Australian made translates to locally made products providing valuable training and skills sharing, and jobs not simply localised to the Paarhammer factory but extending to suppliers and manufacturers, e.g. Australian glass manufacturers and timber suppliers.

Paarhammer products have received many awards in their own right over the years, and are an integral part of buildings - both residential and commercial - which have received numerous awards for architects, designers and builders.

Paarhammer supplies windows and doors Australia-wide.



Windows

As the leader in high energy-rated timber windows, we understand that our clients are as individual as their projects. As such, we provide customised solutions and superior service regardless of project size or location.

With our knowledge and experience, architects, developers and home owners can be assured of a product that is superior in many ways - one that gives design flexibility and will achieve top energy ratings. With virtually no limitations to size or shape, our windows and doors are adaptable to any wall and suitable to any style of building.

Paarhammer windows achieve excellent energy ratings with U-values from 0.8 (WERS), that's energy savings of up to 85%, and superior noise reduction of up to 45dB. In addition to superior thermal qualities, our frames also have an ultimate strength test of 2300+3300pa (N4), with the wood-Alu Range N6/C4, and water penetration of 200pa N4 (C2), giving our window systems unparalleled strength and security. Multi point metal-to-metal security hardware is standard, with automation also available.

Window styles explained:



Tilt & turn:

The versatile multi-function system operated with the turn of the handle: tilt inwards at the top for child proof ventilation; turn and fully open for easy cleaning. Extremely energy efficient, draft proof, high sound protection, features multi-point locking.



Picture / fixed:

Fixed panes to enjoy a clear view without any obstructions—essentially acting as a picture frame for the scenery outside the window. Often used in combination with openable windows or doors.



Sliding:

For special spaces where only a sliding window suits. Parallel-slide-tilt or lift-slide options available. Both very energy efficient and draft proof with high sound protection. Custom made to size and finish.



Bi-fold:

If you would like to open up a large space. High energy efficiency, no rattling. Operated with a handle on every second window, no need for shoot bolts. Inside folding, also with tilt function, or outside folding.



Clerestory-tilt:

Tilt inwards at the top for ventilation, horizontal or vertical. The handle controls all the mechanics and multi-point locking within the frame. Automation with concealed chain drive available for hard to reach areas.



Heritage:

All the advantages of modern technology with the look of yesteryear. Suitable for inner city terraces where street appearances cannot change. High energy savings, high noise reduction. Create a quiet oasis where noise stays outside and drafts no longer exist.

Continued overleaf



Shaped:

Custom made to size and shape to suit any building. Angled, round, oval or curved, these windows can be made in a fixed pane, sometimes openable, but always highly energy efficient.

Advantages of each of the following ranges:

Wood-Alu Range: internal timber, external aluminium

Architectural Timber Range: strength, performance, versatility

Komfort+ Range: energy efficiencies in domestic sizes

Passive House Range: extreme efficiency, no drafts

Bushfire Safe Range: safety for all Bushfire Attack Levels (BALs) including Flame Zone (BAL-FZ)



Doors

Today's architecture in Australia aims to maximise natural light without the massive loss of thermal qualities and increased air infiltration that can reduce the energy rating for the overall building. Paarhammer have proven that top energy ratings can be achieved with our special frames, seals and unique metal-to-metal locking system.

It's why the award-winning Paarhammer glass doors achieve unmatched energy ratings and the lowest air infiltration, achieving energy savings up to 85%. Custom made in Australia, these doors have an ultimate strength test of 2300pa (N4), with the Wood-Alu Range N5/C3, and water penetration of 150pa, giving our door systems unparalleled strength and security.

The design flexibility of our glass doors has been proven time after time. We manufacture bi-fold doors of up to 10m (30ft) wide and sliding doors over 3m (12ft) high.

Featuring our secure locking system, our doors achieve U-values of 1.0 and reduce noise up to 80-90%. It's not surprising that our solutions are suitable for the most demanding projects including Passive House.

Doors styles explained:



Lift-slide:

One of our most popular products are technically advanced sliding doors which offer highest energy efficiency and no drafts, through multi-layer seals and engineered lift slide action. Available in many configurations.



Giant lift-slide:

For extra-large spaces and industry leading energy efficiencies. Up to 400kg per leaf, the Giants are easy to operate manually but can be fitted with the patented Siegenia HS Lift & Slide Automation.



Stacker sliding:

To open up extra wide spaces, stacker sliding doors feature lift-slide functionality. Very energy efficient and draft proof with high sound protection. Like all products, custom made to size and finish.



Corner lift-slide:

Unique airtight framing design for corners without corner posts. Like all lift-slide doors the lifting function facilitates floor level installations for step-free access.



Bi-fold:

Rebated frames, seals and multi-point locking together with double or triple glazing ensure highest energy efficiency, no rattling. Operated with a handle on every second door, no need for shoot bolts. Inside opening with tilt or outside opening. Up to 8 or 10m wide, depending on range.



French:

In high demand for easy access to verandas and the outdoors, French doors are available custom made with high energy efficiency, high noise protection and no drafts, due to rebated frames, seals and multi-point locking. Suit many styles of buildings.

Continued overleaf



Hinged glass doors:

High security is ensured with multi-point locking, and 3-D-adjustable hinges and seals make for a draft-free fit. Barrier-free threshold available.

Advantages of each of the following ranges:

Wood-Alu Range: internal timber, external aluminium

Architectural Timber Range: strength, performance, versatility

Komfort+ Range: energy efficiencies in domestic sizes

Passive House Range: extreme efficiency, no drafts

Bushfire Safe Range: safety for all Bushfire Attack Levels (BALs) including Flame Zone (BAL-FZ)



The Window Energy Rating Scheme (WERS) enables windows to be rated and labelled for their energy impact.

To participate in WERS, window makers must obtain energy ratings for their products from a rating organisation that is accredited by the Australian Fenestration Rating Council (AFRC) and undergo annual audits to ensure compliance.

| Paarhammer Pty Ltd | | | | | Cool % | Heat % | Total Window - AFRC | | | |
|---|---|---------------|---------------|-----|--------|--------|---------------------|------|------|---------|
| Updated 1-May-2019 | | | | | | | Uw | SHGC | Ttw | Aif Inf |
| Window ID | Glazing | Cooling Stars | Heating Stars | | | | | | | |
| Tilt & Turn Window - Double Glazed | | | | | | | | | | |
| PAR-001-01 | 4/16/4 | ★★★★☆ | ★★★★★☆☆ | 61% | 72% | 2.2 | 0.39 | 0.41 | 0.05 | |
| PAR-001-001-01 | 4Clr(VRD)/16Ar/4Clr(VRD) | | | | | 2.2 | 0.37 | 0.39 | 0.05 | |
| PAR-001-02 | 4/16Ar/4S500 | ★★★★★ | ★★★★★☆☆ | 65% | 75% | 1.8 | 0.37 | 0.39 | 0.05 | |
| PAR-001-002-01 | 4Clr(VRD)/16Ar/4LightBridge(#3) | | | | | 1.6 | 0.29 | 0.38 | 0.05 | |
| PAR-001-03 | 4EG/16Ar/4S500 | ★★★★★☆☆ | ★★★★★☆☆ | 75% | 66% | 1.8 | 0.21 | 0.32 | 0.05 | |
| PAR-001-003-01 | 6SB60Clr/16Ar/4Clr(VRD) | | | | | 1.6 | 0.20 | 0.34 | 0.05 | |
| Tilt & Turn Window - Triple Glazed | | | | | | | | | | |
| PAR-002-01 | 4/12/3/12/4 | ★★★★★ | ★★★★★☆☆ | 66% | 75% | 1.8 | 0.35 | 0.38 | 0.05 | |
| PAR-002-001-01 | 4Clr(VRD)/12Ar/4Clr(VRD)/12Ar/4Clr(VRD) | | | | | 1.7 | 0.33 | 0.35 | 0.05 | |
| PAR-002-02 | 4/12Ar/4S500/12Ar/4S500 | ★★★★★☆☆ | ★★★★★☆☆ | 71% | 76% | 1.4 | 0.31 | 0.33 | 0.05 | |
| PAR-002-002-01 | 4Clr(VRD)/12Ar/4Clr(VRD)/12Ar/4LightBridge(#5) | | | | | 1.5 | 0.26 | 0.34 | 0.05 | |
| PAR-002-03 | 4EG/12Ar/3/12Ar/4S500 | ★★★★★☆☆ | ★★★★★☆☆ | 78% | 67% | 1.5 | 0.19 | 0.29 | 0.05 | |
| PAR-002-003-01 | 4Clr(VRD)/12Ar/4LightBridge(#3)/12Ar/4LightBridge(#5) | | | | | 1.3 | 0.24 | 0.34 | 0.05 | |
| PAR-002-04 | 4SB70XL/12Ar/3/12Ar/4ET | ★★★★★☆☆ | ★★★★★☆☆ | 84% | 65% | 1.3 | 0.13 | 0.28 | 0.05 | |
| PAR-002-05 | 4SB70XL/12Ar/3SB70XL/12Ar/4SB70XL | ★★★★★☆☆ | ★★★★★☆☆ | 85% | 65% | 1.2 | 0.11 | 0.19 | 0.05 | |
| Bi-Fold Doors - Double Glazed | | | | | | | | | | |
| PAR-003-01 | 4/16/4 | ★★★★☆ | ★★★★★☆☆ | 52% | 56% | 2.4 | 0.51 | 0.54 | 0.21 | |
| PAR-003-001-01 | 4Clr(VRD)/16Ar/4Clr(VRD) | | | | | 2.4 | 0.51 | 0.53 | 0.21 | |
| PAR-003-02 | 4Clr/16Ar/4 | ★★★★☆ | ★★★★★☆☆ | 52% | 57% | 2.4 | 0.51 | 0.54 | 0.21 | |
| PAR-003-002-01 | 4Clr(VRD)/16Ar/4LightBridge(#3) | | | | | 1.7 | 0.39 | 0.52 | 0.21 | |
| PAR-003-03 | 4EA/16Ar/4 | ★★★★☆ | ★★★★★☆☆ | 61% | 60% | 1.8 | 0.43 | 0.50 | 0.21 | |
| PAR-003-003-01 | 6SB60Clr/16Ar/4Clr(VRD) | | | | | 1.7 | 0.26 | 0.47 | 0.21 | |

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| Paarhammer Pty Ltd - continued | | | | Cool % | Heat % | Total Window - AFRC | | | |
|--|---|---------------|---------------|--------|--------|---------------------|------|----------------|---------|
| Updated 1-May-2019 | | | | | | Uw | SHGC | T _w | Aif Inf |
| Window ID | Glazing | Cooling Stars | Heating Stars | | | | | | |
| Bi-Fold Doors - Triple Glazed | | | | | | | | | |
| PAR-004-01 | 4/12/3/12/4 | ★★★★ | ★★★★★★ | 59% | 60% | 1.8 | 0.45 | 0.49 | 0.21 |
| PAR-004-001-01 | 4Clr(VRD)/12Ar/4Clr(VRD)/12Ar/4Clr(VRD) | | | | | 1.8 | 0.45 | 0.48 | 0.21 |
| PAR-004-02 | 4EA/12Ar/3Clr/12Ar/4EA | ★★★★★ | ★★★★★★ | 67% | 62% | 1.2 | 0.37 | 0.42 | 0.21 |
| PAR-004-002-01 | 4Clr(VRD)/12Ar/4Clr(VRD)/12Ar/4LightBridge(#5) | | | | | 1.4 | 0.35 | 0.47 | 0.21 |
| PAR-004-03 | 4SB70XL/12Ar/3/12Ar/4ET | ★★★★★★ | ★★★★★ | 82% | 50% | 1.1 | 0.17 | 0.36 | 0.21 |
| PAR-004-003-01 | 4Clr(VRD)/12Ar/4LightBridge(#3)/12Ar/4LightBridge(#5) | | | | | 1.2 | 0.33 | 0.47 | 0.21 |
| PAR-004-04 | 4SB70XL/12Ar/3SB70XL/12Ar/4SB70XL | ★★★★★★☆ | ★★★★★ | 84% | 49% | 1.1 | 0.14 | 0.24 | 0.21 |
| Sliding Door - Double Glazed | | | | | | | | | |
| PAR-005-01 | 5/16/5 | ★★★★☆ | ★★★★★★☆ | 53% | 56% | 2.4 | 0.50 | 0.54 | 0.31 |
| PAR-005-001-01 | 4Clr(VRD)/16Ar/4Clr(VRD) | | | | | 2.3 | 0.52 | 0.55 | 0.31 |
| PAR-005-02 | 5EA/16Ar/5 | ★★★★☆ | ★★★★★★ | 61% | 60% | 1.7 | 0.43 | 0.50 | 0.31 |
| PAR-005-002-01 | 4Clr(VRD)/16Ar/4LightBridge(#3) | | | | | 1.6 | 0.40 | 0.54 | 0.31 |
| PAR-005-003-01 | 6SB60Clr/16Ar/4Clr(VRD) | | | | | 1.6 | 0.27 | 0.49 | 0.31 |
| Sliding Door - Triple Glazed | | | | | | | | | |
| PAR-006-01 | 5/12/3/12/5 | ★★★★ | ★★★★★★ | 60% | 60% | 1.8 | 0.45 | 0.49 | 0.31 |
| PAR-006-001-01 | 4Clr(VRD)/12Ar/4Clr(VRD)/12Ar/4Clr(VRD) | | | | | 1.7 | 0.46 | 0.50 | 0.31 |
| PAR-006-02 | 5EA/12Ar/3Clr/12Ar/5EA | ★★★★★ | ★★★★★★ | 67% | 63% | 1.2 | 0.38 | 0.43 | 0.31 |
| PAR-006-002-01 | 4Clr(VRD)/12Ar/4Clr(VRD)/12Ar/4LightBridge(#5) | | | | | 1.3 | 0.36 | 0.49 | 0.31 |
| PAR-006-03 | 4SB70XL/12Ar/3Clr/12Ar/4ET | ★★★★★★ | ★★★★★ | 82% | 50% | 1.1 | 0.17 | 0.37 | 0.31 |
| PAR-006-003-01 | 4Clr(VRD)/12Ar/4LightBridge(#3)/12Ar/4LightBridge(#5) | | | | | 1.1 | 0.34 | 0.48 | 0.31 |
| PAR-006-04 | 4SB70XL/12Ar/3SB70XL/12Ar/4SB70XL | ★★★★★★ | ★★★★★ | 84% | 49% | 1.0 | 0.15 | 0.25 | 0.31 |
| Scandinavian Fir Sliding Door - Triple Glazed | | | | | | | | | |
| PAR-007-01 | 4SB70XL/12Ar/3SB70XL/12Ar/4SB70XL | ★★★★★★☆ | ★★★★★ | 84% | 50% | 1.0 | 0.14 | 0.25 | 0.31 |
| Scandinavian Fir Bi-Fold Door - Triple Glazed | | | | | | | | | |
| PAR-008-01 | 4SB70XL/12Ar/3SB70XL/12Ar/4SB70XL | ★★★★★★☆ | ★★★★★ | 84% | 49% | 1.0 | 0.14 | 0.24 | 0.21 |
| Scandinavian Fir Fixed Window - Triple Glazed | | | | | | | | | |
| PAR-009-01 | 4/12Ar/3/12Ar/4 | ★★★★☆ | ★★★★★★☆ | 55% | 65% | 1.7 | 0.52 | 0.56 | 0.05 |
| PAR-009-02 | 4PThrm/12Ar/3PThrm/12Ar/4PThrm | ★★★★★★☆ | ★★★★★★☆ | 79% | 58% | 0.8 | 0.23 | 0.40 | 0.05 |
| PAR-009-03 | 4SB70XL/12Ar/3SB70XL/12Ar/4SB70XL | ★★★★★★ | ★★★★★ | 83% | 52% | 0.9 | 0.16 | 0.28 | 0.05 |
| Wood & Aluminium Tilt & Turn Window - Double Glazed | | | | | | | | | |
| PAR-011-001-01 | 4Clr(VRD)/22Ar/4Clr(VRD) | | | | | 2.1 | 0.35 | 0.36 | |
| PAR-011-002-01 | 4Clr(VRD)/22Ar/4LightBridge(#3) | | | | | 1.6 | 0.27 | 0.36 | |
| PAR-011-003-01 | 6SB60Clr/20Ar/4Clr(VRD) | | | | | 1.6 | 0.20 | 0.34 | |
| Wood & Aluminium Tilt & Turn Window - Triple Glazed | | | | | | | | | |
| PAR-012-001-01 | 4Clr(VRD)/16Ar/4Clr(VRD)/16Ar/4Clr(VRD) | | | | | 1.6 | 0.33 | 0.35 | |
| PAR-012-002-01 | 4Clr(VRD)/16Ar/4Clr(VRD)/16Ar/4LightBridge(#5) | | | | | 1.3 | 0.26 | 0.34 | |
| PAR-012-003-01 | 4Clr(VRD)/16Ar/4LightBridge(#3)/16Ar/4LightBridge(#5) | | | | | 1.2 | 0.24 | 0.34 | |
| Wood & Aluminium Fixed Window - Double Glazed | | | | | | | | | |
| PAR-013-001-01 | 4Clr(VRD)/22Ar/4Clr(VRD) | | | | | 2.3 | 0.52 | 0.55 | |
| PAR-013-002-01 | 4Clr(VRD)/22Ar/4LightBridge(#3) | | | | | 1.5 | 0.40 | 0.54 | |
| PAR-013-003-01 | 6SB60Clr/20Ar/4Clr(VRD) | | | | | 1.5 | 0.27 | 0.49 | |
| Wood & Aluminium Fixed Window - Triple Glazed | | | | | | | | | |
| PAR-014-001-01 | 4Clr(VRD)/16Ar/4Clr(VRD)/16Ar/4Clr(VRD) | | | | | 1.6 | 0.47 | 0.50 | |
| PAR-014-002-01 | 4Clr(VRD)/16Ar/4Clr(VRD)/16Ar/4LightBridge(#5) | | | | | 1.2 | 0.36 | 0.49 | |
| PAR-014-003-01 | 4Clr(VRD)/16Ar/4LightBridge(#3)/16Ar/4LightBridge(#5) | | | | | 1.0 | 0.34 | 0.48 | |

For further information on the Window Energy Rating Scheme go to <https://www.wers.net/wers-home>



The best of both worlds: energy efficient hardwood windows and doors with low maintenance exterior aluminium cladding. Made in Australia from plantation grown Victorian Ash timber and Australian glass with patented German hardware.



Range inclusions

- Internal IV 68mm Victorian Ash frame, external aluminium cladding
- Custom made to almost any size and shape
- Triple glazed with 2x 16mm argon gas filled gap
- Double glazed with 1x 22mm argon gas filled gap
- German hardware fittings
- Pronounced joints
- Timber spray painted with low VOC paints or stains
- Aluminium powder-coated in large range of colours
- Timber and cladding separated by 3mm clip system to stop condensation and subsequent rot
- Noise reduction up to 43dB
- Standard industry warranties apply and 10 years warranty on glass
- Suitable for Passive House
- U-values from a very low 1.0

Available in the range:

Windows: European style tilt & turn, fixed picture, clerestory/tilt, sliding, shapes

Doors: lift-slide sliding, giant lift-slide, stacker sliders, corner lift-slide, bi-fold, French, single hinged glass doors





High performance windows and doors, made in Australia from plantation grown Victorian Ash timber or FSC® certified timber and Australian glass with patented German hardware.



Range inclusions

- Victorian Ash timber or FSC® certified Manilkara
- Custom made to almost any size and shape
- Frame thickness IV 78mm for triple glazed
- Frame thickness IV 68mm for double glazed
- Double glazed with 14-20mm argon filled airgap, depending on glass thickness
- Triple glazed with 2x 12-16mm argon-filled airgap, depending on glass thickness
- German hardware fittings, recessed mounted
- Flat joints
- Spray painted with low VOC paints or stains
- Timely delivery and installer training
- Industry warranties apply and 10 years warranty on glass
- Noise reduction standard 35dB, can be increased up to 45dB
- U-values from a very low 0.8
- Suitable for Passive House

Available in the range:

Windows: European style tilt & turn, fixed picture, clerestory/tilt, sliding, heritage, shapes

Doors: lift-slide sliding, giant lift-slide, stacker sliders, corner lift-slide, bi-fold, French, single hinged glass doors





Superior energy savings in domestic sized windows and doors, made in Australia from plantation grown Victorian Ash timber and Australian glass with patented German hardware.



Range inclusions

- Victorian Ash timber or FSC® certified Manilkara
- Frame thickness: IV 68mm
- Custom made to 2.4m height
- Double glazed with 14-20mm airgap
- German hardware fittings, partly surface mounted
- Pronounced joints
- Spray painted with low VOC paints or stains
- Timely delivery – Installer training
- Standard industry warranties apply and 10 years warranty on glass
- Noise reduction up to 38dB
- U-values from a very low 1.8

Available in the range:

Windows: European style tilt & turn, fixed picture, clerestory/tilt, sliding

Doors: lift-slide sliding, bi-fold, French, single hinged glass doors

Komfortline

A great way for builders and savvy home owners to add value and achieve superior energy savings with paint-ready windows and doors.

Range inclusions: All inclusions as for Komfort+, however Komfortline is primed only and ready for painting.





Extremely high energy efficiency and very low air infiltration, European style, made in Australia. Choose from Wood-Alu and Architectural Timber windows and doors with triple glazing, soft coat low-E glass and extra seals



Range inclusions

- Custom made to size and shape
- Frame thickness IV 78mm
- Triple glazed Low-E glass with 2x 14mm-16mm argon-filled airgap
- German hardware fittings, extra seals
- Spray painted with low VOC paints or lasur
- Timely delivery – link to installation videos supplied
- Industry warranties apply and 10 years warranty on glass
- Noise reduction up to 43dB
- U-values from a very low 0.8

Available in the range:

Windows: European style tilt & turn, fixed picture, clerestory/tilt, sliding, heritage, shapes

Doors: lift-slide sliding, giant lift-slide, stacker sliders, corner lift-slide, bi-fold, French, single hinged glass doors

Different U-value Certification Calculations

Windows around the world get tested and certified using different criteria. The Australian Fenestration Rating Council (AFRC) uses the North American National Fenestration Rating Council (NFRC) system. Europe uses ISO 10077-2 and ISO 15099, and in addition there is the Passive House Criteria and ift Rosenheim Directive WA15/2.

The important differences between the systems are:

- Boundary conditions
- Calculating solar heat gain (Solar Heat Gain Coefficient (SHGC))
- Methods of accounting for solar glass effects
- Reference sizes
- Installation values

According to the board of the AFRC, the base for a window assessment in Australia is as per ISO-15099. Climate protocol considering local conditions, which are different to the USA, Canada and Europe, must be included. In addition, a much smaller specimen type to that used in Europe is used in Australia as the base of the evaluation.

This gives a different U-value and SHGC to other countries. W/m²-K might be kW, but if other parameters are used the outcome will differ. NATHERS asks for 27 parameters (factors) for input to produce a window rating (this is before the window has been installed).

You can be certain that Australian made Paarhammer products will perform exactly like European imported windows and doors and will reach all Passive House requirements. In addition you will enjoy local backup, service and warranties.





| Paarhammer Pty Ltd - continued | | | | | Cool % | Heat % | Total Window - AFRC | | | |
|--|---|---------------|---------------|-----|--------|--------|---------------------|------|------|---------|
| Updated 1-May-2019 | | | | | | | Uw | SHGC | Tvw | Aif Inf |
| Window ID | Glazing | Cooling Stars | Heating Stars | | | | | | | |
| Tilt & Turn Window - Triple Glazed | | | | | | | | | | |
| PAR-002-01 | 4/12/3/12/4 | ★★★★★ | ★★★★★★★ | 66% | 75% | 1.8 | 0.35 | 0.38 | 0.05 | |
| PAR-002-02 | 4/12Ar/4S500/12Ar/4S500 | ★★★★★☆ | ★★★★★★★ | 71% | 76% | 1.4 | 0.31 | 0.33 | 0.05 | |
| PAR-002-03 | 4EG/12Ar/3/12Ar/4S500 | ★★★★★☆☆ | ★★★★★★★☆☆ | 78% | 67% | 1.5 | 0.19 | 0.29 | 0.05 | |
| PAR-002-04 | 4SB70XL/12Ar/3/12Ar/4ET | ★★★★★★★ | ★★★★★★★ | 84% | 65% | 1.3 | 0.13 | 0.28 | 0.05 | |
| PAR-002-05 | 4SB70XL/12Ar/3SB70XL/12Ar/4SB70XL | ★★★★★★★☆☆ | ★★★★★★★ | 85% | 65% | 1.2 | 0.11 | 0.19 | 0.05 | |
| Scandinavian Fir Fixed Window - Triple Glazed | | | | | | | | | | |
| PAR-009-01 | 4/12Ar/3/12Ar/4 | ★★★☆☆ | ★★★★★★☆☆ | 55% | 65% | 1.7 | 0.52 | 0.56 | 0.05 | |
| PAR-009-02 | 4PThrm/12Ar/3PThrm/12Ar/4PThrm | ★★★★★★☆☆ | ★★★★★★☆☆ | 79% | 58% | 0.8 | 0.23 | 0.40 | 0.05 | |
| PAR-009-03 | 4SB70XL/12Ar/3SB70XL/12Ar/4SB70XL | ★★★★★★★ | ★★★★★★ | 83% | 52% | 0.9 | 0.16 | 0.28 | 0.05 | |
| Bi-Fold Doors - Triple Glazed | | | | | | | | | | |
| PAR-004-01 | 4/12/3/12/4 | ★★★★ | ★★★★★★ | 59% | 60% | 1.8 | 0.45 | 0.49 | 0.21 | |
| PAR-004-02 | 4EA/12Ar/3Clr/12Ar/4EA | ★★★★★ | ★★★★★★ | 67% | 62% | 1.2 | 0.37 | 0.42 | 0.21 | |
| PAR-004-03 | 4SB70XL/12Ar/3/12Ar/4ET | ★★★★★★★ | ★★★★★★ | 82% | 50% | 1.1 | 0.17 | 0.36 | 0.21 | |
| PAR-004-04 | 4SB70XL/12Ar/3SB70XL/12Ar/4SB70XL | ★★★★★★★☆☆ | ★★★★★★ | 84% | 49% | 1.1 | 0.14 | 0.24 | 0.21 | |
| Scandinavian Fir Bi-Fold Door - Triple Glazed | | | | | | | | | | |
| PAR-008-01 | 4SB70XL/12Ar/3SB70XL/12Ar/4SB70XL | ★★★★★★☆☆ | ★★★★★★ | 84% | 49% | 1.0 | 0.14 | 0.24 | 0.21 | |
| Sliding Door - Triple Glazed | | | | | | | | | | |
| PAR-006-01 | 5/12/3/12/5 | ★★★★ | ★★★★★★ | 60% | 60% | 1.8 | 0.45 | 0.49 | 0.31 | |
| PAR-006-02 | 5EA/12Ar/3Clr/12Ar/5EA | ★★★★★ | ★★★★★★ | 67% | 63% | 1.2 | 0.38 | 0.43 | 0.31 | |
| PAR-006-03 | 4SB70XL/12Ar/3Clr/12Ar/4ET | ★★★★★★★ | ★★★★★★ | 82% | 50% | 1.1 | 0.17 | 0.37 | 0.31 | |
| PAR-006-04 | 4SB70XL/12Ar/3SB70XL/12Ar/4SB70XL | ★★★★★★★ | ★★★★★★ | 84% | 49% | 1.0 | 0.15 | 0.25 | 0.31 | |
| Scandinavian Fir Sliding Door - Triple Glazed | | | | | | | | | | |
| PAR-007-01 | 4SB70XL/12Ar/3SB70XL/12Ar/4SB70XL | ★★★★★★☆☆ | ★★★★★★ | 84% | 50% | 1.0 | 0.14 | 0.25 | 0.31 | |
| Wood & Aluminium Tilt & Turn Window - Triple Glazed | | | | | | | | | | |
| PAR-012-001-01 | 4Clr(VRD)/16Ar/4Clr(VRD)/16Ar/4Clr(VRD) | | | | | 1.6 | 0.33 | 0.35 | | |
| PAR-012-002-01 | 4Clr(VRD)/16Ar/4Clr(VRD)/16Ar/4LightBridge(#5) | | | | | 1.3 | 0.26 | 0.34 | | |
| PAR-012-003-01 | 4Clr(VRD)/16Ar/4LightBridge(#3)/16Ar/4LightBridge(#5) | | | | | 1.2 | 0.24 | 0.34 | | |
| Wood & Aluminium Fixed Window - Triple Glazed | | | | | | | | | | |
| PAR-014-001-01 | 4Clr(VRD)/16Ar/4Clr(VRD)/16Ar/4Clr(VRD) | | | | | 1.6 | 0.47 | 0.50 | | |
| PAR-014-002-01 | 4Clr(VRD)/16Ar/4Clr(VRD)/16Ar/4LightBridge(#5) | | | | | 1.2 | 0.36 | 0.49 | | |
| PAR-014-003-01 | 4Clr(VRD)/16Ar/4LightBridge(#3)/16Ar/4LightBridge(#5) | | | | | 1.0 | 0.34 | 0.48 | | |

Please note: Star ratings for Wood-Alu products are not yet available from WERS.





Safety for all Bushfire Attack Levels (BAL's), including BAL-FZ, without the need for shutters. Tested, approved, compliant.



Range inclusions

- Custom made, size limitations apply
- Frame made from self-extinguishing, FSC® certified, Manilkara Bidentata
- Double glazed with special fire protection glazing
- German hardware fittings
- Finished with Adler Lignovit Lasur wood preservative, or low VOC spray-painted or stained in the colour of your choice by request
- U-values from a very low 1.4
- Ember / flyscreens for all windows as per Australian Standard
- Suitable for Passive House
- Tested, approved and compliant to all relevant Australian Standards
- Compliance certification supplied with windows and doors

Available in the range:

BAL-40 Windows: European style tilt & turn, fixed picture, clerestory/tilt, sliding, shapes

BAL-40 Doors: French, bi-fold and lift-slide doors, single hinged glass doors

BAL-FZ Windows: European style tilt & turn, fixed picture, clerestory/tilt, sliding, shapes

BAL-FZ Doors: French doors, lift-slide doors, single hinged glass doors





Easily operated with the turn of the handle: tilt inwards at the top for child proof ventilation; turn and fully open for easy cleaning. Energy efficient and draft proof, with high sound protection, and secure locking.



Specifications

- Internal IV 68mm Victorian Ash frame, low VOC spray-painted or stained in the colour of your choice
- External aluminium cladding powder-coated in wide range of colours
- Timber and cladding separated by 3mm clip system to stop condensation and subsequent rot
- Triple glazed 2x up to 16mm or double glazed 1x up to 22mm argon filled gap
- Choice of glass combinations
- Custom made
- German tilt & turn hardware fittings
- Seals and multi-point locking
- Childproof available
- Suited for bushfire areas up to and including BAL-29, and for Passive House

Size:

- Minimum 600mm height x 420mm width
- Width up to 1400mm at min height of 1500mm, max 2100mm
- Height up to 2700mm at max width of 1000mm

WERS energy rating: from a very low 1.0





Fixed panes enable you to enjoy a clear view without obstruction, acting as a picture frame for the scenery outside of the window. Often used in combination with openable windows or doors.



Specifications

- Internal IV 68mm timber frame, low VOC spray-painted or stained in the colour of your choice
- External aluminium cladding powder-coated in a wide range of colours
- Timber and cladding separated by 3mm clip system to stop condensation and subsequent rot
- Triple glazed 2x up to 16mm or double glazed 1x up to 22mm argon filled gap
- Choice of glass combinations
- Custom made
- Suited for bushfire areas up to and including BAL-29, and for Passive House

Size:

- Width up to 4000mm
- Height up to 4000mm
- Maximum overall 11m²

WERS energy rating: from a very low 0.8





For special spaces where only a sliding window is suitable. Parallel-slide-tilt or lift-slide options are available. Highly energy efficient and draft proof with high sound protection. Custom made to size and finish.



Specifications

- Internal IV 68mm timber frame, low VOC spray-painted or stained in the colour of your choice
- External aluminium cladding powder-coated in a wide range of colours
- Timber and cladding separated by 3mm clip system to stop condensation and subsequent rot
- Triple glazed 2x up to 16mm or double glazed 1x up to 22mm argon filled gap
- Choice of glass combinations
- Custom made
- German sliding hardware (parallel-slide-tilt or lift-slide)
- Seals and multi-point locking
- Suited for bushfire areas up to and including BAL-29, and for Passive House

Size:

- Width up to 6000mm
- Height up to 2400mm

WERS energy rating: from a very low 1.0



Perfect for opening up a large space. High energy efficiency and operated with a handle on every second window. No rattling and no need for shoot bolts. Inside folding only, also with tilt function.



Specifications

- Internal IV 68mm timber frame, low VOC spray-painted or stained in the colour of your choice
- External aluminium cladding powder-coated in a wide range of colours
- Timber and cladding separated by 3mm clip system to stop condensation and subsequent rot
- Triple glazed 2x up to 16mm or double glazed 1x up to 22mm argon filled gap
- Choice of glass combinations
- Custom made, inside folding only, also available with tilt function
- German bi-fold hardware fittings
- Seals and multi-point locking
- Suited for bushfire areas up to and including BAL-29, and for Passive House

Size:

- Width up to 6000mm
- Height up to 2400mm

WERS energy rating: U-value from a very low 1.0



Tilting inwards at the top for ventilation, windows can be horizontal or vertical. The handle controls the mechanics and multi-point locking within the frame. Can be automated for hard to reach areas.



Specifications

- Internal IV 68mm timber frame, low VOC spray-painted or stained in the colour of your choice
- External aluminium cladding powder-coated in a wide range of colours
- Timber and cladding separated by 3mm clip system to stop condensation and subsequent rot
- Triple glazed 2x up to 16mm or double glazed 1x up to 22mm argon filled gap
- Choice of glass combinations
- Custom made
- German tilt hardware, multi-point locking
- Seals to eliminate drafts
- Can be automated with concealed chain drive
- Suited for bushfire areas up to and including BAL-29, and for Passive House

Size:

- Maximum width 3000mm at maximum height of 700mm
- Height up to 2700mm at maximum width of 1500mm
- Height minimum 450mm

WERS energy rating: from a very low 1.0





Custom made to size and shape to suit any building. Angled, round, oval or curved, these windows can be made in a fixed pane or can be openable, and are highly energy efficient.



Specifications

- Internal IV 68mm timber frame, low VOC spray-painted or stained in the colour of your choice
- External aluminium cladding powder-coated in a wide range of colours
- Timber and cladding separated by 3mm clip system to stop condensation and subsequent rot
- Triple glazed 2x up to 16mm or double glazed 1x up to 22mm argon filled gap
- Choice of glass combinations
- Custom made
- German tilt and turn fittings, multi-point locking
- Seals to eliminate drafts
- Childproof available
- Also fixed shapes/picture windows available
- Suited for bushfire areas up to and including BAL-29, and for Passive House

Size:

- Minimum 600mm height x 600mm width
- Width up to 1400mm at min height of 1500mm, max 2100mm
- Height up to 2700mm at max width of 1000mm
- Angled shapes only, for rounded shapes please see **Architectural Timber Windows - Shaped**

WERS energy rating: from a very low 1.0





Technologically advanced sliding doors offer the highest energy efficiency and no drafts through multi-layer seals and engineered lift-slide action. Available in many configurations.



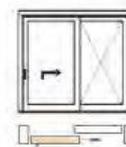
Specifications

- IV 68mm timber frame, low VOC spray-painted or stained in the colour of your choice
- External aluminium cladding powder-coated in a wide range of colours
- Timber and cladding separated by 3mm clip system to stop condensation and subsequent rot
- Triple glazed 2x up to 16mm or double glazed 1x up to 22mm argon filled gap
- Choice of glass combinations
- Custom made
- German lift and slide hardware, multi-point locking
- Seals to eliminate drafts, night vent
- Available also as giant sliders or corner sliders
- Suited for bushfire areas up to and including BAL-29, and for Passive House

Size:

- Weight up to 400kg per slider
- Slider width up to 2.4m at a maximum of 6m² per leaf
- Height up to 2.7m at a maximum of 6m² per leaf
- Overall width by request

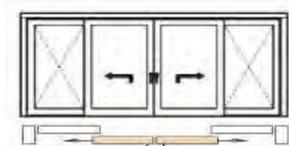
WERS energy rating: from a very low 1.0
Ultimate strength N5/C3



Scheme A



Scheme G



Scheme C



Rebated frames, seals, multi-point locking and double or triple glazing ensure the highest energy efficiency with no rattling. Operated with a handle on every second door, there is no need for shoot bolts.



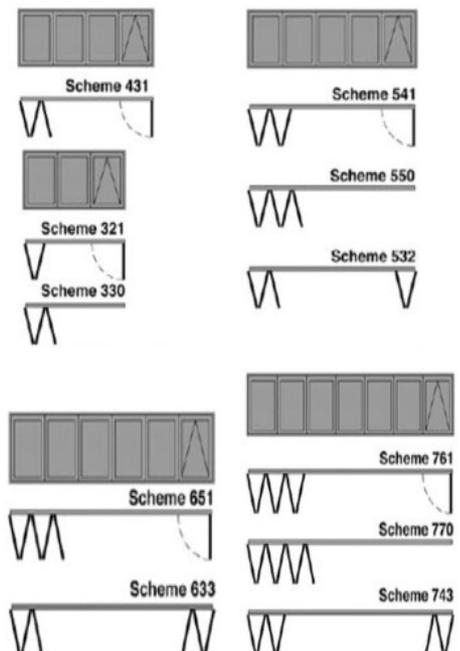
Specifications

- IV 68mm timber frame, double glazed with 1x 14-20mm argon filled gap
- External aluminium cladding powder-coated in a wide range of colours
- Timber and cladding separated by 3mm clip system to stop condensation and subsequent rot
- Triple glazed 2x up to 16mm or double glazed 1x up to 22mm argon filled gap
- Choice of glass combinations
- Custom made, inside opening only, tilt option depending on configuration
- German hardware, multi-point locking
- Seals to eliminate drafts
- High energy efficiency and sound protection
- Suited for bushfire areas up to and including BAL-29, and for Passive House

Size:

- Width up to 10m (depending on height) or
- Height up to 2.8m (depending on width)

WERS energy rating: U-value from a very low 1.1





Enabling easy access to verandahs and outdoor spaces, French doors are custom made with high energy efficiency, high noise protection and no drafts, due to rebated frames, seals and multi-point locking.



Specifications

- Internal IV 68mm timber frame, low VOC spray-painted or stained in the colour of your choice
- External aluminium cladding powder-coated in a wide range of colours
- Timber and cladding separated by 3mm clip system to stop condensation and subsequent rot
- Triple glazed 2x up to 16mm or double glazed 1x up to 22mm argon filled gap
- Choice of glass combinations
- Custom made
- German hardware, multi-point locking
- Manual or automatic operation available
- Seals to eliminate drafts
- High energy efficiency and sound protection
- Suited for bushfire areas up to and including BAL-29, and for Passive House

Size:

- Width up to 2400mm
- Height up to 3000mm

WERS energy rating: U-value from a very low 1.0





High security is ensured with multi-point locking, and 3-D-adjustable hinges and seals work together to ensure a draft-free fit. Barrier-free threshold available.



Specifications

- Internal IV 68mm timber frame, low VOC spray-painted or stained in the colour of your choice
- External aluminium cladding powder-coated in a wide range of colours
- Timber and cladding separated by 3mm clip system to stop condensation and subsequent rot
- Triple glazed 2x up to 16mm or double glazed 1x up to 22mm argon filled gap
- Choice of glass combinations
- Custom made
- German hardware, multi-point locking
- Manual or automatic operation available
- Seals to eliminate drafts
- High energy efficiency and sound protection
- Suited for bushfire areas up to and including BAL-29, and Passive House

Size:

- Width up to 1400mm
- Height up to 3000mm

WERS energy rating: U-value from a very low 1.0





Easily operated with the turn of the handle: tilt inwards at the top for child proof ventilation; turn and fully open for easy cleaning. Energy efficient and draft proof, with high sound protection, and secure locking.



Specifications

- IV 78mm timber frame, triple glazed with 2x 12-16mm argon filled gap
- IV 68mm timber frame, double glazed with 1x 14-20mm argon filled gap
- Choice of glass combinations
- Custom made
- Low VOC spray-painted or stained in the colour of your choice
- German tilt & turn hardware, multi-point locking
- Seals
- Childproof available
- Suited for low bushfire areas

Size:

- Minimum 600mm height x 420mm width
- Width up to 1400mm at min height of 1500mm, max 2100mm
- Height up to 2700mm at max width of 1000mm

WERS energy rating: from a very low 1.0





Fixed panes enable you to enjoy a clear view without obstruction, acting as a picture frame for the scenery outside of the window. Often used in combination with openable windows or doors.



Specifications

- IV 78mm timber frame, triple glazed with 2x 12-16mm argon filled gap
- IV 68mm timber frame, double glazed with 1x 14-20mm argon filled gap
- Choice of glass combinations
- Custom made
- Low VOC spray-painted or stained in the colour of your choice
- Suited for low bushfire areas and Passive House

Size:

- Width up to 4000mm
- Height up to 4000mm
- Maximum overall 11m²

WERS energy rating: from a very low 0.8





For special spaces where only a sliding window is suitable. Parallel-slide-tilt or lift-slide options are available. Highly energy efficient and draft proof with high sound protection. Custom made to size and finish.



Specifications

- IV 78mm timber frame, triple glazed with 2x 12-16mm argon filled gap
- IV 68mm timber frame, double glazed with 1x 14-20mm argon filled gap
- Choice of glass combinations
- Custom made
- Low VOC spray-painted or stained in the colour of your choice
- German sliding hardware fittings (parallel-slide-tilt or lift-slide)
- Seals and multi-point locks
- Suited for low bushfire areas and Passive House

Size:

- Minimum height 750mm

WERS energy rating: from a very low 1.0





Perfect for opening up a large space. High energy efficiency and operated with a handle on every second window. No rattling and no need for shoot bolts. Inside folding, also with tilt function, or outside folding.



Specifications

- IV 78mm timber frame, triple glazed with 2x 12-16mm argon filled gap
- IV 68mm timber frame, double glazed with 1x 14-20mm argon filled gap
- Choice of glass combinations
- Custom made
- Low VOC spray-painted or stained in the colour of your choice
- German bi-fold hardware, operated with a handle on every second leaf, no shoot bolts
- Seals and multi-point locking
- Internal stacking with possible tilt function or external stacking
- Retractable fly-screens available
- Suited for bushfire areas up to and including BAL-29, and for Passive House

Size:

- Width up to 6000mm
- Height up to 2400mm

WERS energy rating: U-value from a very low 1.1



Tilting inwards at the top for ventilation, windows can be horizontal or vertical. The handle controls the mechanics and multi-point locking within the frame. Can be automated for hard to reach areas.



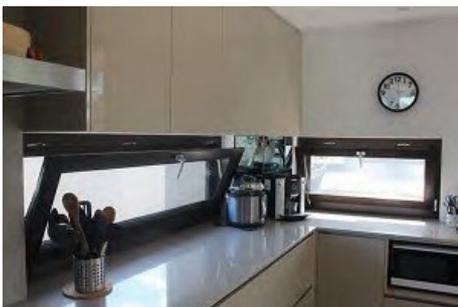
Specifications

- IV 78mm timber frame, triple glazed with 2x 12-16mm argon filled gap
- IV 68mm timber frame, double glazed with 1x 14-20mm argon filled gap
- Choice of glass combinations
- Custom made
- Low VOC spray-painted or stained in the colour of your choice
- German tilt hardware fittings
- Seals and multi-point locking
- Can be automated with concealed chain drive
- Suited for low bushfire areas and Passive House

Size:

- Maximum width 3000mm at maximum height of 700mm
- Height up to 2700mm at maximum width of 1500mm
- Height minimum 450mm

WERS energy rating: from a very low 1.0





All the advantages of modern technology with the look of yesteryear. Suitable for inner city terraces where street appearances cannot change. High energy savings and high noise reduction.



Specifications

- IV 68mm double glazed with 1x 14-20mm argon filled gap
- Timber frame
- Choice of glass combinations
- Custom made
- Low VOC spray-painted or stained in colour of your choice
- German tilt & turn hardware, multi-point locking
- Seals to eliminate drafts
- Childproof available

Size:

- Minimum 600mm height x 420mm width

WERS energy rating: from a very low 1.4





Custom made to size and shape to suit any building. Angled, round, oval or curved, these windows can be made in a fixed pane or can be openable, and are highly energy efficient.



Specifications

- IV 78mm timber frame, triple glazed with 2x 12-16mm argon filled gap
- IV 68mm timber frame, double glazed with 1x 14-20mm argon filled gap
- Choice of glass combinations
- Custom made
- Low VOC spray-painted or stained in the colour of your choice
- German tilt & turn hardware fittings, multipoint-locking
- Seals to eliminate drafts
- Childproof available
- Also fixed shapes/picture windows available
- Suited for low bushfire areas and Passive House

Size:

- Minimum 600mm height x 600mm width
- Width up to 1400mm at min height of 1500mm, max 2100mm
- Height up to 2700mm at max width of 1000mm
- Variety of shapes available, openable or fixed

WERS energy rating: from a very low 1.0





Technologically advanced sliding doors offer the highest energy efficiency and no drafts through multi-layer seals and engineered lift-slide action. Available in many configurations.



Specifications

- IV 78mm timber frame, triple glazed with 2x 12-16mm argon filled gap
- IV 68mm timber frame, double glazed with 1x 14-20mm argon filled gap
- Choice of glass combinations
- German lift and slide hardware fittings
- Custom made to many configurations
- Scheme A and Scheme C can be automated
- Low VOC spray-painted or stained in the colour of your choice
- Multi-layer seals to eliminate drafts, night vent
- Suited for bushfire areas up to and including BAL-29, and for Passive House

Size:

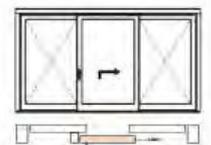
- Weight up to 300kg per slider
- Slider width up to 2.4m at a maximum of 6m² per leaf
- Height up to 2.7m at a maximum of 6m² per leaf
- Overall width by request

WERS energy rating: U-value from a very low 1.0

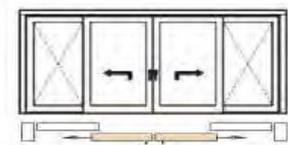
Ultimate strength 2300pa (N4), water penetration 150pa



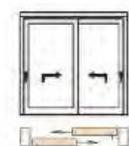
Scheme A



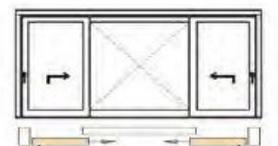
Scheme G



Scheme C



Scheme D



Scheme K



For extra-large spaces and industry leading energy efficiencies. Up to 400kg per leaf, the Giants are easy to operate manually but can be fitted with the patented Siegenia HS Lift & Slide Automation.



Specifications

- IV 78mm timber frame, triple glazed with 2x 12-16mm argon filled gap
- IV 68mm timber frame, double glazed with 1x 14-20mm argon filled gap
- Choice of glass combinations
- German lift and slide hardware fittings
- Custom made to many configurations
- Scheme A and Scheme C can be fitted with the patented Siegenia HS Lift & Slide Automation
- Low VOC spray-painted or stained in the colour of your choice
- Multi-layer seals and night vent
- High energy efficiency and sound protection, draft free
- Suited for bushfire areas up to and including BAL-29, and for Passive House

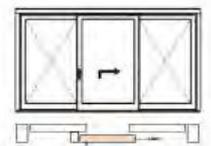
Size:

- Weight up to 400kg per slider
- Slider width up to 3.6m at a maximum of 8.8m² per leaf
- Height up to 3.4m at a maximum of 8.8m² per leaf
- Overall width by request

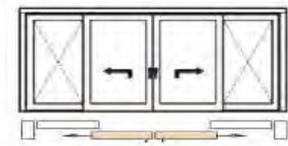
WERS energy rating: U-value from a very low 1.0



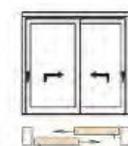
Scheme A



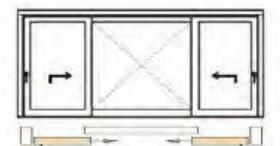
Scheme G



Scheme C



Scheme D



Scheme K



To open up extra wide spaces, stacker sliding doors feature lift-slide functionality. Very energy efficient and draft proof with high sound protection. Like all products, custom made to size and finish.



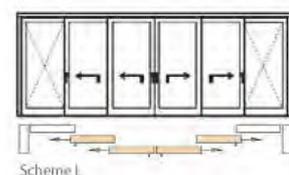
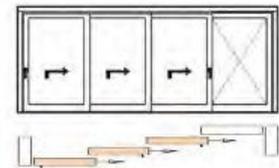
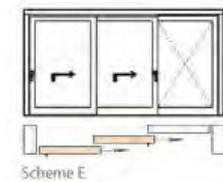
Specifications

- IV 78mm timber frame, triple glazed with 2x 12-16mm argon filled gap
- IV 68mm timber frame, double glazed with 1x 14-20mm argon filled gap
- Choice of glass combinations
- German lift and slide hardware fittings
- Custom made to Scheme E and Scheme L configurations
- Low VOC spray-painted or stained in the colour of your choice
- Multi-layer seals and night vent
- High energy efficiency and sound protection, draft free
- Suited for bushfire areas up to and including BAL-29, and for Passive House

Size:

- Weight up to 300kg per slider
- Width up to 14m

WERS energy rating: U-value from a very low 1.0





Unique airtight framing design for corners without corner posts. Like all lift-slide doors, the lifting function facilitates floor level installations for step-free access.



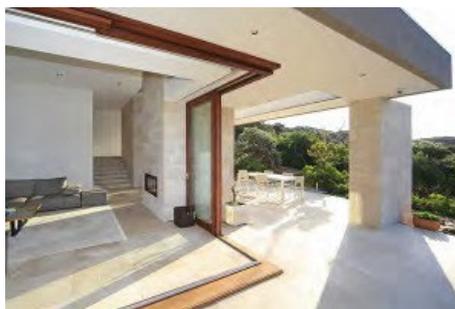
Specifications

- IV 78mm timber frame, triple glazed with 2x 12-16mm argon filled gap
- IV 68mm timber frame, double glazed with 1x 14-20mm argon filled gap
- Choice of glass combinations
- German lift and slide hardware fittings
- Low VOC spray-painted or stained in the colour of your choice
- Multi-layer seals and night vent
- Suited for bushfire areas up to and including BAL-29, and for Passive House

Size:

- Weight up to 250kg per slider
- Maximum width and height on request

WERS energy rating: U-value from a very low 1.0





Rebated frames, seals, multi-point locking and double or triple glazing ensure the highest energy efficiency with no rattling. Operated with a handle on every second door, there is no need for shoot bolts.



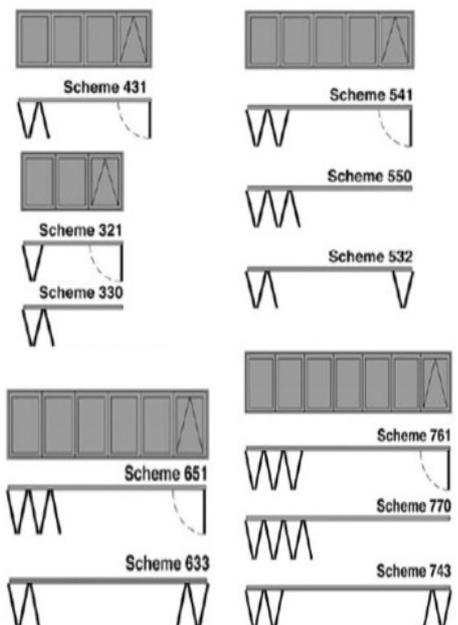
Specifications

- IV 78mm timber frame, triple glazed with 2x 12-16mm argon filled gap
- IV 68mm timber frame, double glazed with 1x 14-20mm argon filled gap
- Choice of glass combinations
- German bi-fold hardware fittings, multi-point locking
- Inward opening with tilt function (depending on configuration), or outward opening on request
- Custom made to many configurations
- Low VOC spray-painted or stained in the colour of your choice
- Seals for high energy efficiency and sound protection
- Operated with a handle on every second door, no shoot bolts
- Suited for low bushfire areas and Passive House

Size:

- Width up to 10m (depending on height) or
- Height up to 2.8m (depending on width)

WERS energy rating: U-value from a very low 1.1





Enabling easy access to verandahs and outdoor spaces, French doors are custom made with high energy efficiency, high noise protection and no drafts, due to rebated frames, seals and multi-point locking.



Specifications

- IV 78mm timber frame, triple glazed with 2x 12-16mm argon filled gap
- IV 68mm timber frame, double glazed with 1x 14-20mm argon filled gap
- Choice of glass combinations
- German hardware fittings, multi-point locking
- Manual or automatic operation available
- Inward opening, or outward opening on request
- Low VOC spray-painted or stained in the colour of your choice
- Seals for very high energy efficiency and sound protection
- Suited for bushfire areas up to and including BAL-29 and Passive House

Size:

- Width up to 2400mm
- Height up to 3000mm

WERS energy rating: U-value from a very low 1.0





High security is ensured with multi-point locking, and 3-D-adjustable hinges and seals work together to ensure a draft-free fit. Barrier-free threshold available.



Specifications

- IV 78mm timber frame, triple glazed with 2x 12-16mm argon filled gap
- IV 68mm timber frame, double glazed with 1x 14-20mm argon filled gap
- Choice of glass combinations
- German hardware fittings, multi-point locking
- Manual or automatic operation available
- Inward opening, or outward opening on request
- Low VOC spray-painted or stained in the colour of your choice
- Seals for very high energy efficiency and sound protection
- Suited for bushfire areas up to and including BAL-29 and Passive House

Size:

- Width up to 1400mm
- Height up to 3000mm

WERS energy rating: U-value from a very low 1.0





Easily operated with the turn of the handle: tilt inwards at the top for child proof ventilation; turn and fully open for easy cleaning. Energy efficient and draft proof, with high sound protection, and secure locking.



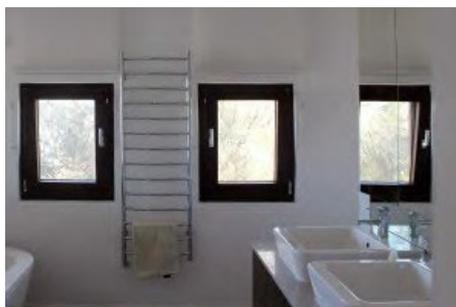
Specifications

- Timber frame thickness IV 68mm
- Pronounced joints
- Double glazed with 1x 14-20mm airgap, depending on glass thickness
- Choice of glass combinations
- Komfort+: low VOC spray-painted or stained in the colour of your choice
- Komfortline: primed and paint ready
- German tilt & turn hardware, multi-point locking, partly surface mounted
- Childproof available
- Seals to eliminate drafts
- Suited for bushfire areas up to and including BAL-29

Size:

- Minimum 600mm height x 420mm width
- Width up to 1200mm at min height of 1500mm, max 2100mm
- Height up to 2400mm at max width of 1000mm

WERS energy rating: from a very low 1.8
Ultimate strength N6/C4





Fixed panes enable you to enjoy a clear view without obstruction, acting as a picture frame for the scenery outside of the window. Often used in combination with openable windows or doors.



Specifications

- Timber frame thickness IV 68mm
- Pronounced joints
- Custom made to 2400mm height
- Double glazed with 1x 14-20mm airgap, depending on glass thickness
- Choice of glass combinations
- Komfort+: low VOC spray-painted or stained in the colour of your choice
- Komfortline: primed and paint ready
- Suited for bushfire areas up to and including BAL-29

Size:

- Width up to 4000mm
- Height up to 4000mm
- Maximum overall 11m²

WERS energy rating: from a very low 1.8





For special spaces where only a sliding window is suitable. Parallel-slide-tilt or lift-slide options are available. Highly energy efficient and draft proof with high sound protection. Custom made to size and finish.



Specifications

- Victorian Ash or FSC® certified Manilkara Bidentata timber frame
- Frame thickness IV 68mm, pronounced joints
- Double glazed with 1x 14-20mm airgap, depending on glass thickness
- Choice of glass combinations
- Komfort+: low VOC spray-painted or stained in the colour of your choice
- Komfortline: primed and paint ready
- German lift-slide hardware, multi-point locking
- Seals to eliminate drafts
- Suited for bushfire areas up to and including BAL-29

Size:

- Minimum height 750mm

WERS energy rating: from a very low 1.8





Tilting inwards at the top for ventilation, windows can be horizontal or vertical. The handle controls the mechanics and multi-point locking within the frame. Can be automated for hard to reach areas.



Specifications

- Timber frame thickness IV 68mm
- Pronounced joints
- Double glazed with 1x 14-20mm airgap, depending on glass thickness
- Choice of glass combinations
- Komfort+: low VOC spray-painted or stained in the colour of your choice
- Komfortline: primed and paint ready
- German tilt hardware fittings
- Seals and multi-point locking
- Can be automated with concealed chain drive
- Suited for bushfire areas up to and including BAL-29

Size:

- Maximum width 2400mm at maximum height of 700mm
- Height up to 2400mm at maximum width of 1500mm
- Height minimum 450mm

WERS energy rating: from a very low 1.8



Technologically advanced sliding doors offer the highest energy efficiency and no drafts through multi-layer seals and engineered lift-slide action. Available in many configurations.



Specifications

- Timber frame thickness IV 68mm
- Pronounced joints
- Double glazed with 1x 14-20mm airgap, depending on glass thickness
- Choice of glass combinations
- Komfort+: low VOC spray-painted or stained in the colour of your choice
- Komfortline: primed and paint ready
- German lift-slide hardware, multi-point locking
- Multi-layer seals to eliminate drafts, night vent
- Suited for bushfire areas up to and including BAL-29

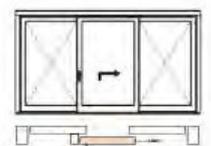
Size:

- Weight up to 300kg per slider
- Width up to 2400mm per slider
- Height up to 2400mm

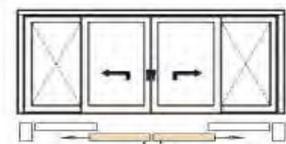
WERS energy rating: from a very low 1.8



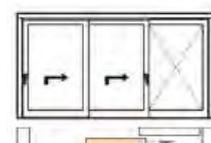
Scheme A



Scheme G



Scheme C



Scheme E



Rebated frames, seals, multi-point locking and double or triple glazing ensure the highest energy efficiency with no rattling. Operated with a handle on every second door, there is no need for shoot bolts.



Specifications

- Timber frame thickness IV 68mm
- Pronounced joints
- Double glazed with 1x 14-20mm airgap, depending on glass thickness
- Choice of glass combinations
- Komfort+: low VOC spray-painted or stained in the colour of your choice
- Komfortline: primed and paint ready
- German hardware, multi-point locking
- Seals to eliminate drafts
- Inward opening with tilt function, depending on configuration
- Operated with a handle on every second door, no shoot bolts
- Suited for bushfire areas up to and including BAL-29

Size:

- Width up to 8m (depending on height)
- Height up to 2.4m (depending on width)

WERS energy rating: from a very low 1.8



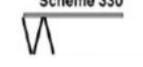
Scheme 431



Scheme 541



Scheme 321



Scheme 330



Scheme 550



Scheme 532



Scheme 651



Scheme 761



Scheme 633



Scheme 770



Scheme 743





Enabling easy access to verandahs and outdoor spaces, French doors are custom made with high energy efficiency, high noise protection and no drafts, due to rebated frames, seals and multi-point locking.



Specifications

- Timber frame thickness IV 68mm
- Pronounced joints
- Double glazed with 1x 14-20mm airgap, depending on glass thickness
- Choice of glass combinations
- Komfort+: low VOC spray-painted or stained in the colour of your choice
- Komfortline: primed and paint ready
- German multi-point locking hardware
- Seals to eliminate drafts
- Suited for bushfire areas up to and including BAL-29

Size:

- Width up to 2400mm
- Height up to 2400mm

WERS energy rating: from a very low 1.8





High security is ensured with multi-point locking, and 3-D-adjustable hinges and seals work together to ensure a draft-free fit. Barrier-free threshold available.



Specifications

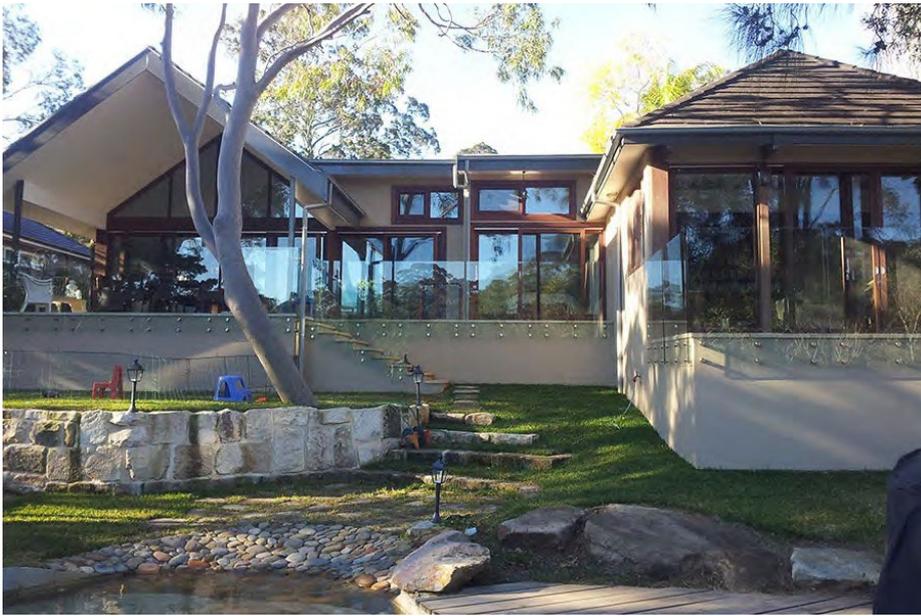
- Timber frame thickness IV 68mm
- Pronounced joints
- Double glazed with 1x 14-20mm airgap, depending on glass thickness
- Choice of glass combinations
- Komfort+: low VOC spray-painted or stained in the colour of your choice
- Komfortline: primed and paint ready
- German multi-point locking hardware
- Seals to eliminate drafts
- Suited for bushfire areas up to and including BAL-29

Size:

- Width up to 1300mm
- Height up to 2400mm

WERS energy rating: from a very low 1.8





Energy efficient bushfire safe windows & doors have been tested and are approved for Bushfire Attack Level-Flame Zone (BAL-FZ) without the need for shutters. Products are supplied with compliance certification.



Specifications

- Frame in IV 78mm FSC® certified Manilkara Bidentata hardwood
- Schott Pyranova® glass 14mm with invisible intumescent layers
- Double glazed for energy efficiency
- Custom made to size and shape
- Finished with Adler Lignovit Lasur wood preservative, or low VOC spray-painted or stained in the colour of your choice by request
- German hardware
- Seals and multi-point locking
- Tested and approved to AS 1530.8.2-2007, complies with AS 3959-2009 and AS 3959-2018
- Test reports available on request
- Compliance certification supplied

Size:

- Maximum pane size including frame 2.8m², for larger areas dividing mullions or rails can be used
- Maximum height or width 2.4m
- Minimum rail height at floor level 80mm

Energy rating: from a very low 1.6





Energy efficient bushfire safe windows & doors have been tested and are approved for Bushfire Attack Level-40 (BAL-40) without the need for shutters. Products are supplied with compliance certification.



Specifications

- Frame in IV 68mm FSC® certified Manilkara Bidentata hardwood
- Viridian PyroGuard 40™ glass
- Double glazed with up to 16mm argon filled gap for energy efficiency
- Custom made to size and shape
- Finished with Adler Lignovit Lasur wood preservative, or low VOC spray-painted or stained in the colour of your choice by request
- German hardware
- Seals and multi-point locking
- Tested to AS 1530.8.1-2007, complies with AS 3959-2009 and AS 3959-2018
- Test reports available on request
- Compliance certification supplied

Size:

- Maximum pane size including frame 4m², for larger areas dividing mullions or rails can be used
- Maximum height or width 2.7m
- Minimum rail height at floor level 80mm

Energy rating: from a very low 1.4





Express your individual style with custom made timber entrance combinations for your home or business



Specifications

- Victorian Ash frame or FSC® certified Manilkara Bidentata
- IV 78mm for triple glazing and Passive House
- IV 68mm for double glazing
- Choice of glass combinations
- Low VOC spray-painted or stained in the colour of your choice
- Increased security with multi-point locking
- Automation can be integrated
- Suitable for Passive House and some designs can be made for all bushfire areas
- Timber or aluminium threshold
- Custom made to your design or ours
- German hardware fittings
- Seals to reduce drafts and noise
- Very energy efficient

Energy rating from a very low 1.4

Entrance doors are available only as a full package including door jamb, threshold, multi-point locking system and door furniture.





Aluminium clad entrance doors combine high architectural value with low maintenance



Specifications

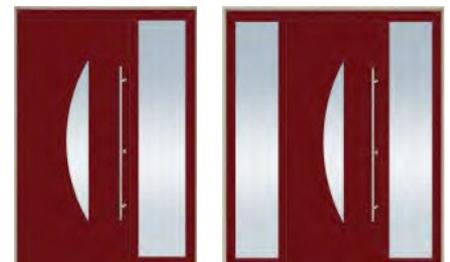
- Interior timber, exterior aluminium cladding
- Choice of glass combinations
- Timber interior low VOC spray-painted or stained in the colour of your choice
- Exterior aluminium powder-coated in a wide range of colours
- Increased security with multi-point locking
- Automation can be integrated
- Suitable for Passive House

- Aluminium threshold
- German hardware fittings
- Seals to reduce drafts and noise
- Very energy efficient
- Made in Australia

Energy rating from a very low 1.4

Configurations available: single door, double doors, one sidelight, two sidelights, sidelight/s and highlight

Entrance doors are available only as a full package including door jamb, threshold, multi-point locking system and door furniture.





Curtain walls with the strength and warmth of timber inside and low maintenance aluminium on the outside. Energy efficient, load bearing and custom made.



Specifications

- Pre-fabricated in factory
- Simple site assembly system
- Load bearing
- Victorian Ash frame or FSC® certified Manilkara Bidentata
- Low VOC spray-painted or stained in the colour of your choice
- External aluminium cladding powder-coated in a wide range of colours
- Choice of glass combinations, double or triple glazed
- Custom made
- Inserts of doors and windows, operated manually or automated
- Very high energy efficiency
- Suited for bushfire areas up to and including BAL-29

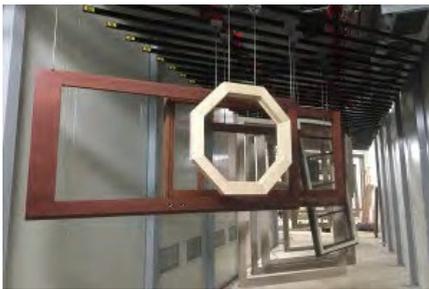




Timber:

At Paarhammer, we are deeply committed to a sustainable future and we only use timbers from sustainable sources and certified to AFS, PEFC or FSC® in the manufacture of our windows and doors.

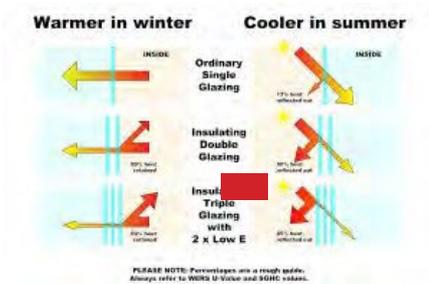
Paarhammer is also FSC® Chain-of-Custody certified and these products comply with the highest social and environmental standards on the market.



Low VOC Finishes:

In a state-of-the-art spray booth, windows and doors are spray painted or stained in the colour of your choice before all the seals, hardware and glass are installed.

All paint used is water based and does not contain harmful substances. The paint is non-toxic with low Volatile Organic Compounds (low VOC's). Paarhammer also offers the Komfortline Range which is primed only and ready for your own painting.



Glazing Matters:

Paarhammer double glazed products have 2 panes of glass (various glass combinations can be used) with a sealed space 14-20mm in between - usually filled with argon gas to provide even better insulation properties.

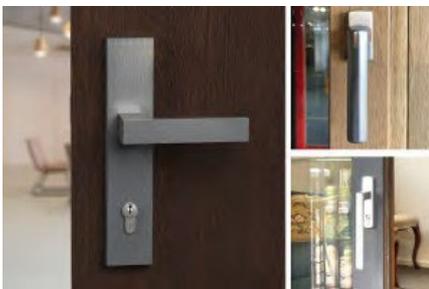
Triple glazed products have 3 panes of glass (various glass combination can be used) with sealed spaces of twice 12-16mm, argon gas filled. Whole window U-values start from a very low 0.8 (WERS - Window Energy Rating Scheme).



Superior Hardware:

Paarhammer windows and doors use an exclusive range of premium European hardware.

Paarhammer's affiliated company Siegware is the exclusive Australian agent for the world leading German made Siegenia tilt and turn hardware and supplies a range of window and door fittings to the trade. This ensures that Paarhammer has access to the latest technology.



Handles:

Choose from a variety of premium handles for our range of windows, doors, sliding doors and entrance doors.

In fact, every order of windows and/or doors is accompanied by a specification document with colour photographs of the handles you have chosen for your reference. Special handles to suit your decor can be ordered on request. A comprehensive flyer is available in *Downloads*.



More Security:

Quality doors and windows by Paarhammer provide a strong impediment and put up resistance. In addition to providing excellent thermal and draft reduction properties, Paarhammer's unique framing and hardware lock tight with the secure multi-point locking system for peace of mind. The patented metal-to-metal locking is spaced around the frame and securely fastens the sash into the frame. Entry doors have extra security features like hooks on multi-point locks. Also, additional hardware components are available for a multitude of security and comfort needs.



Ready for Automation:

High-quality technology makes houses more intelligent. Automation options give you the opportunity to control your windows and doors from wherever you are.

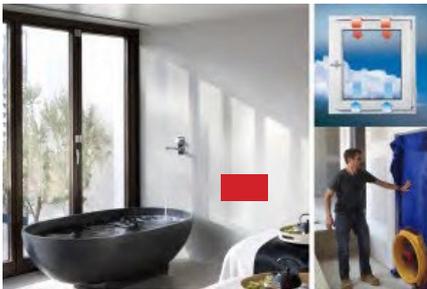
Smart locks, motordrives and many other smart fittings can be incorporated into Paarhammer doors and windows. Some of the operating and monitoring systems are also wireless and can be retrofitted. All are designed to be stand alone or incorporated into a home security system, operated via keypad, fingerprint, remote control or mobile phone.



Unique Framing and Seals:

Paarhammer windows and doors achieve their outstanding energy efficiency through the unique European style double rebate framing system that can incorporate multi-level seals and multi-point locking hardware for an airtight fit.

Laminated hardwood with mortise and tennon joints provides stability and strength.



No Drafts:

Draft is the enemy of achieving energy savings. We understand that achieving excellent energy ratings goes beyond double or triple glazing - it's also in the framing and sealing, and installation.

Windows and doors provide views, natural light and fresh air, but they can also allow heat to enter in summer, and the cold in winter. Paarhammer window and door systems have extremely low air infiltration, from 0.05, and can save up to 84% of your energy costs. See WERS in *Downloads*.



No Noise:

While we are prepared to tolerate a level of noise during our daily activities, we all value a peaceful and relatively quiet home life. Noisy neighbours, loud radios or constant street or aeroplane noise can be very distressing and can even lead to ill health.

Paarhammer windows and doors have been tested by CSIRO with excellent results. Our standard double-glazed products feature a noise protection of 35dB, those made for sound protection are 40-42dB. Can be increased to 45dB if required.



Flyscreens:

With Paarhammer windows and doors you can order flyscreens which will keep flies outside where they belong.

Fix mounted screens, sliding and hinged screens, retractable screens and screens for heritage timber windows can be custom made for your Paarhammer windows and doors with a variety of mesh options.