



# EVALOCK

WINDOWS & DOORS

## THE EVALOCK DIFFERENCE

Choosing Evalock for your windows and doors provides you with a vast range of architectural and bespoke styles, both in timber and steel, to achieve the highest quality finish and innovative design, in contemporary and traditional styles.

We offer a range of hand picked stable, sustainably resourced hardwoods, revolutionary Accoya and Belgium steel. High quality distinctive and innovative design, through the use of traditional joinery methods, and fine craftsmanship make Evalock the superior choice in the market.

Evalock Windows and Doors are Australian Made and Australian Owned. New builds, renovations and extensions, no job is too big or small for Evalock.

'Lock in the quality at Evalock'



## DESIGN CONSIDERATIONS

It is important to establish your design style, for example Contemporary or Traditional, as this equates to about 50 % of the visible surface of your home and significantly alters the outward appearance of the architecture.

The elegance of timber or modern line of steel provides two aesthetic mediums, which can be applied to either contemporary or traditional styles.

Consideration for the grade of windows and doors (bushfire Attack Level (BAL) ratings, Evalocks Counter Balanced window system, traditional weights and cords, double glazed, single glazed, solar control glazing, eco Glazing, laminated glass and zinc steel coating) need to be accounted for as does its intended purpose and type.





## TIMBER AT EVALOCK

Our timber windows and doors can be manufactured from an extensive choice of hand selected stable sustainably resourced hardwoods and Accoya timbers for their aesthetic and functional elements, for the purpose of painting, staining or varnishing to finish products to meet your design criteria.

Our timber windows and doors meet the highest performance ratings (NATA) and Australian Standard.

Timber has a unique materiality that can be integrated into any design situation; the raw qualities of timber accentuate the natural environment and provide a product that is highly, stable having excellent thermal qualities.

We only use solid kiln dried timbers, in conjunction with traditional joinery methods, to produce the highest quality timber windows and doors on the market.



## EVALOCK BUSHFIRE RATINGS:

We offer a range of bushfire rated timbers for superior quality and function, for areas prone to the harsh climate and effects of bushfire.

BAL rated timbers provide reliable assurance against bushfire threats, eliminating the need for bulky shutters, fire curtains or screens on fixed glazing.

Consider Timber first, for Bushfire prone areas.



## WINDOW CATEGORIES

We manufacture a range of window designs and styles:

- Awning Windows
- Casement Windows
- Fixed Lite Windows
- Sliding Windows
- Pivot Windows
- Bi Fold Windows
- Double Hung Windows
- Weights and Cords Windows
- Evalock's own Counter Balanced Window System
- Circular Windows
- Bulls Eyes
- Gothic Arches
- Bow Windows
- Bay Windows
- Square Bays



# EVALOCK'S INNOVATIVE COUNTER BALANCE SYSTEM

Evalock's patented pulley system allows for perfect counter balancing of window frames, for ease of operation with large sashes. It is the closest thing to box frames without the expense of weights and cords, having been tested to hold 60Kg per sash.

The pulley system comes with a 10 year warranty.

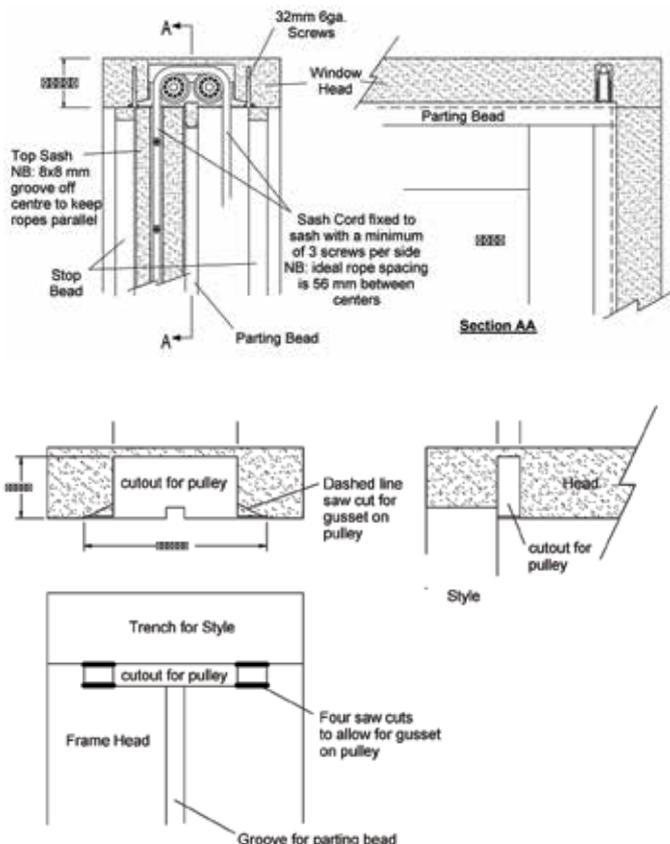
Evalock's Counter Balanced Window system has been on the market 12 years and we have been the leader in innovative window technologies since.

Evalock's Double Hung Counter Balance Window System boasts Evalock's patented double roller component, specifically designed to meet the needs of the heavier weight loads that double glazing may sometimes require. The ease of operation of these windows is similar to that of the box frame window. One sash counter balances the other so the hot air escapes over the top sash and the cool air enters under the bottom sash. Size and therefore weight, are not factors in double glazing.

Evalock's Counter Balance Windows have been tested and are suitable for:

- N4 Housing Rating
- 1500 Pascal Design Rating
- 450 Pascal Water Penetration Rating
- Air-conditioned application

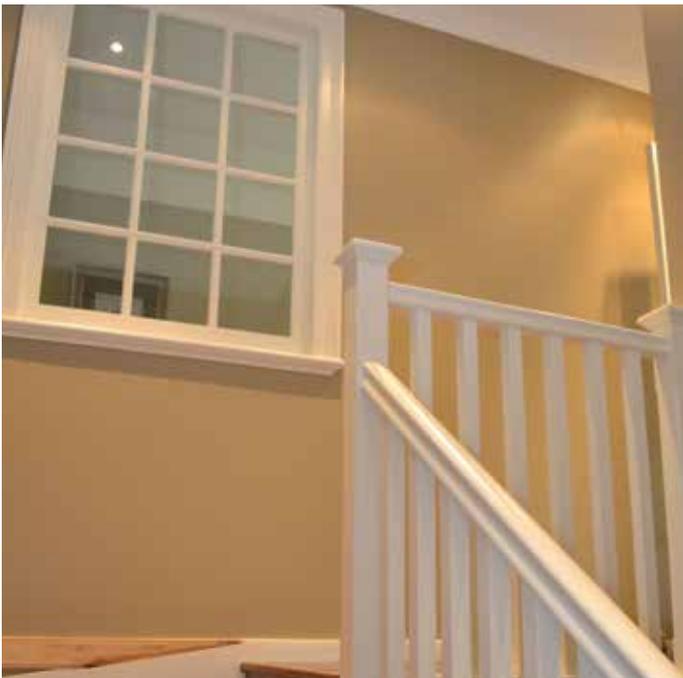
Evalock's double hung windows are manufactured to Australian Standards AS1288 and AS2047.



## WINDOW ASSEMBLY

NB: the top (outside) sash is grooved only 1/2 to 2/3 the length of the sash from the top down. While the bottom (inside) sash is grooved all the way down the sides and across the bottom, so the sash cord can be fixed along the bottom to make the adjustment easy. It is recommended a pre-stretched rope equivalent to "PS-6WSPRE-STRETCH Solid White 6mm" available through Ronstan be used as a sash cord.

10 Year Warranty on Pulley



## DOOR CATEGORIES

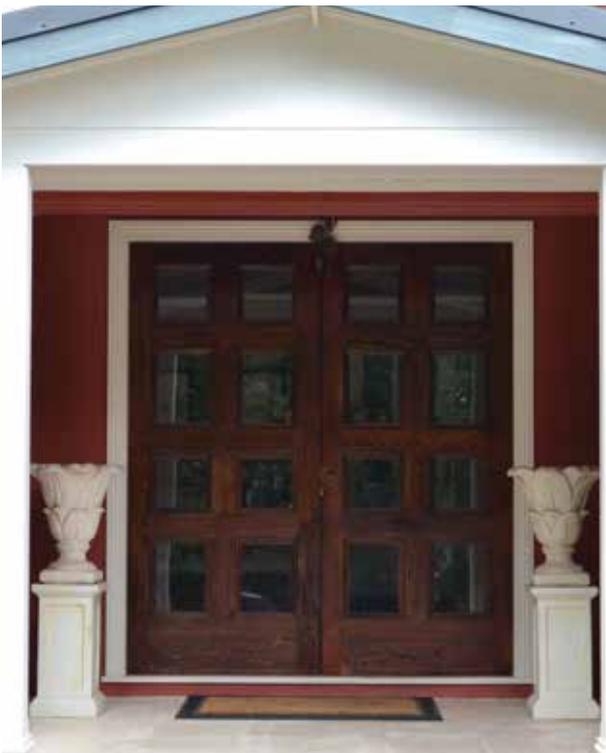
Evalock manufactures custom made doors to the individuals architectural and design specifications. 'If you can dream it, we can build it' in a range of hand picked hardwoods and Accoya timber.

We manufacture a range of door designs and styles:

- Entrance Doors
- Wrought Iron and Timber Doors
- French Doors
- Bi-fold Doors
- Sliding Doors
- Pivot Doors
- Panel Lift Doors
- Barn Doors
- Stable Doors
- Heritage Doors
- Arch Doors
- Church Doors

At Evalock we specialise in manufacturing unique custom built doors to your individual specifications, offering standard and architectural designs. Our own designs include European and American Traditional and Contemporary styles, to name just a few.

At Evalock we pride ourselves on meeting your bespoke design requirements, up holding our sterling reputation.







## ACHIEVING SOLAR PASSIVE DESIGN AT EVALOCK

Passive solar design takes advantage of a building's site, climate, and materials to minimize energy use. In passive solar building design, windows, walls, and floors are made to collect, store, and distribute solar energy in the form of heat in the winter and reject solar heat in the summer. This is called passive solar design because, unlike active solar heating systems, it doesn't involve the use of mechanical and electrical devices.

Evalock offers, double glazing, smart eco glasses, FSC certified timbers and wide blade timber shutters for solar passive energy efficient design, reducing heating and cooling loads on the home, whilst maximising lighting. All our windows rate very highly in NATA Test Performance ratings, complying to:

- N4 / N3 Housing Ratings
- 1500 Pascal Design Rating
- 450 – 1000 Pascal Water Penetration ratings
- Weather Sealing.
- Air Conditioning Application Ratings

Windows provide our homes with light, warmth, and ventilation, but they can also negatively impact a home's energy efficiency, if they do not comply to energy rating.

You can reduce energy costs by installing energy-efficient windows from Evalock in your home, which will eventually pay for themselves through lower heating and cooling costs, and sometimes even lighting costs.

Passive solar design strategies vary by building location and regional climate, but the basic window guidelines remain the same—select, orient, and glass size to maximise solar heat gain in winter and minimise it in summer. Selection of window type is also very important.

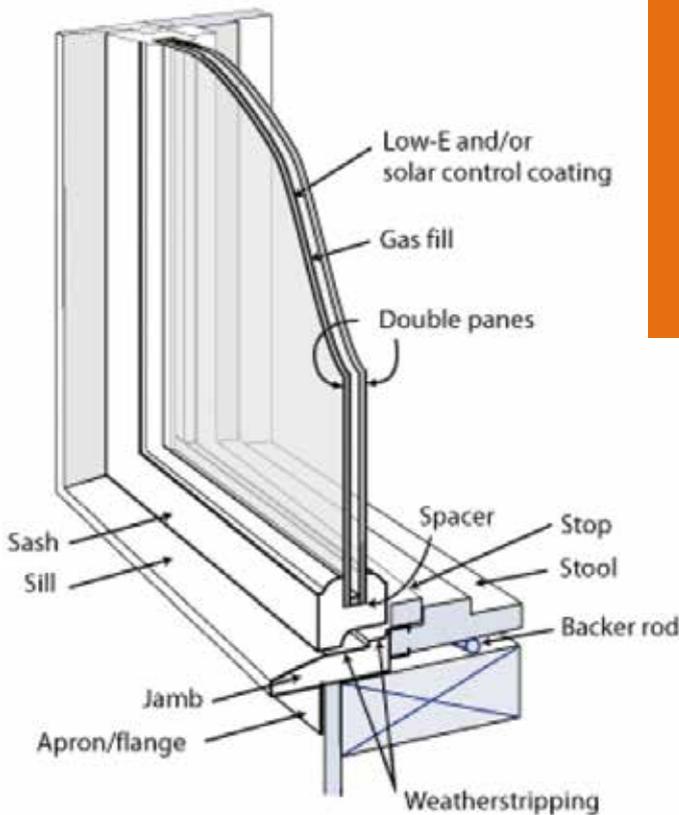


## WINDOW SELECTION FOR SOLAR PASSIVE DESIGN

When selecting windows for energy efficiency, it's important to first consider their Energy Performance Ratings in relation to your climate and your home's design. This will help narrow your selection.

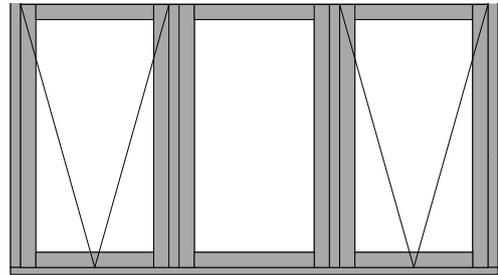
A window's energy efficiency is dependent upon all of its components. Window frames conduct heat, contributing to a window's overall energy efficiency. Glazing or glass technologies have become very sophisticated, and architects often specify different types of glazing or glass for different windows, based on orientation, climate and building design etc.

Another important consideration is how the windows operate, because some operating types have lower air leakage rates than others, which will improve your home's energy efficiency.

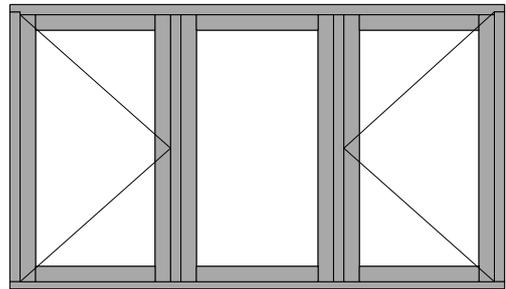


## WINDOW TYPES

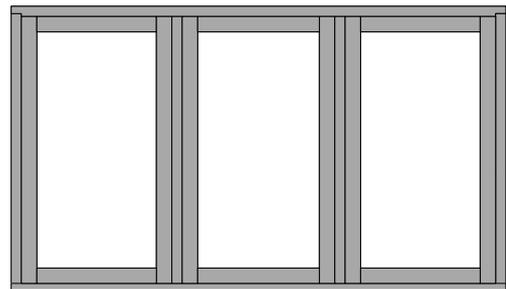
**Awning** Hinged at the top and open outward. Because the sash closes by pressing against the frame, they generally have lower air leakage rates than sliding windows.



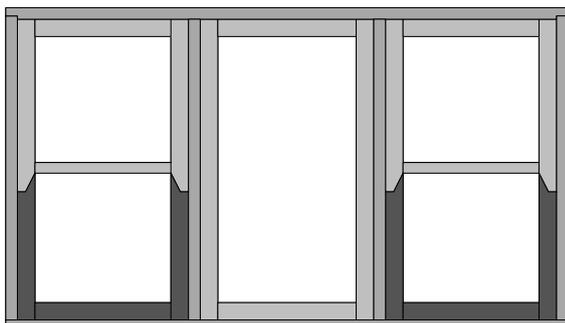
**Casement** Hinged at the sides. Like awning windows, they generally have lower air leakage rates than sliding windows because the sash closes by pressing against the frame.



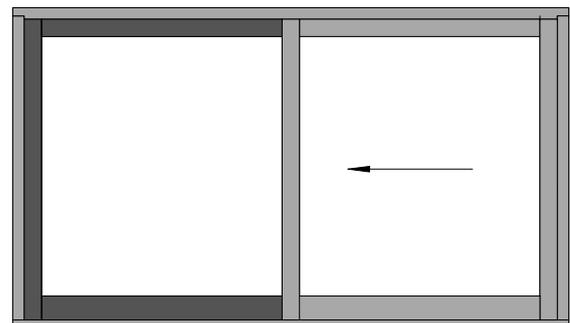
**Fixed** panes that don't open. When installed properly they're airtight, but are not suitable in places where window ventilation is desired.



**Double Hung Bold** Counter Balance / Box Frame/ Spiral Both sashes slide vertically in a double-hung window. Evalock have put a lot of technology and testing into making there Double hung windows extremely energy efficient, with effective weather sealing and tight timber manufacturing, achieving air conditioning ratings.

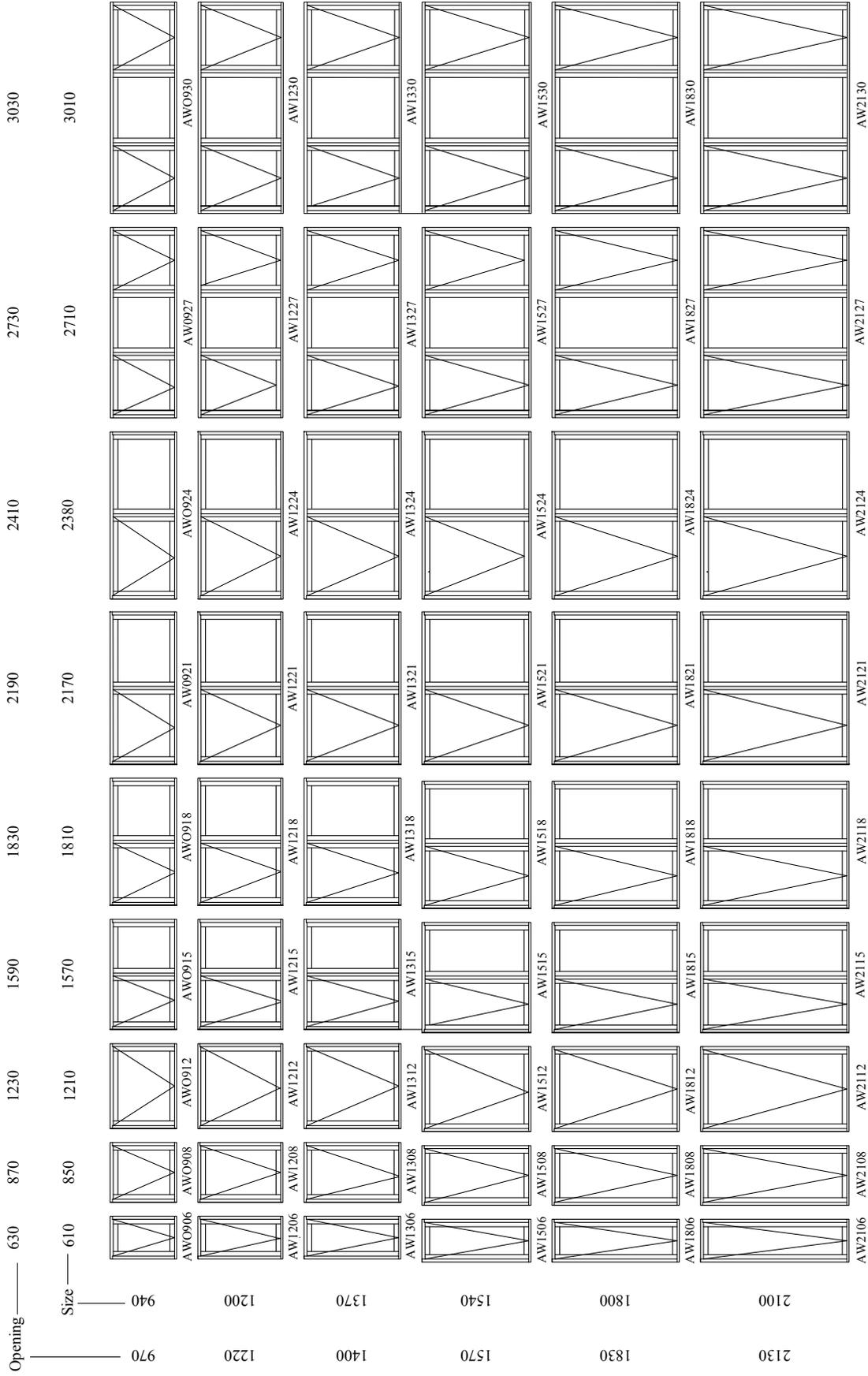


**Single- and double-sliding** Both sashes slide horizontally in a double-sliding window. Only one sash slides in a single-sliding window. Like double-hung windows, they generally have higher air leakage rates than projecting or hinged windows. However Evalock has put a lot of technology into air tightening and weather sealing our windows reaching some of the highest NATA Performanc test rating available in Australia.



# SIZING CHARTS

## Awnings



Awning windows available in standard and custom sizes, single or double glazed, Colonial, Federation, Heritage or Contemporary bar patterns  
 Bay Windows are also available in standard or custom sizes

# SIZING CHARTS

## Colonial Awnings

Opening	630	870	1230	1590	1830	2190	2410	2730	3030
Size	610	850	1210	1570	1810	2170	2380	2710	3010
970	AW0906	AW0908	AW0912	AW0915	AW0918	AW0921	AW0924	AW0927	AW0930
1220	AW1206	AW1208	AW1212	AW1215	AW1218	AW1221	AW1224	AW1227	AW1230
1400	AW1306	AW1308	AW1312	AW1315	AW1318	AW1321	AW1324	AW1327	AW1330
1570	AW1506	AW1508	AW1512	AW1515	AW1518	AW1521	AW1524	AW1527	AW1530
1830	AW1806	AW1808	AW1812	AW1815	AW1818	AW1821	AW1824	AW1827	AW1830
2100	AW2106	AW2108	AW2112	AW2115	AW2118	AW2121	AW2124	AW2127	DH2130

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# SIZING CHARTS

## Casements

Opening	630	870	1230	1590	1830	2190	2410	2730	3030
970	CAO906	CAO908	CAO912	CAO915	CAO918	CAO921	CAO924	CAO927	CAO930
1220	CAI206	CAI208	CAI212	CAI215	CAI218	CAI221	CAI224	CAI227	CAI230
1400	CAI306	CAI308	CAI312	CAI315	CAI318	CAI321	CAI324	CAI327	CAI330
1570	CAI506	CAI508	CAI512	CAI515	CAI518	CAI521	CAI524	CAI527	CAI530
1830	CAI806	CAI808	CAI812	CAI815	CAI818	CAI821	CAI824	CAI827	CAI830
2130	CAI206	CAI208	CAI212	CAI215	CAI218	CAI221	CAI224	CAI227	CAI230
Size	610	850	1210	1570	1810	2170	2380	2710	3010

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# SIZING CHARTS

## Colonial Awnings

Opening	630	870	1230	1590	1830	2190	2410	2730	3030
Size	610	850	1210	1570	1810	2170	2380	2710	3010
940	CAO906	CAO908	CAO912	CAO915	CAO918	CAO921	CAO924	CAO927	CAO930
1200	CAI206	CAI208	CAI212	CAI215	CAI218	CAI221	CAI224	CAI227	CAI230
1370	CAI306	CAI308	CAI312	CAI315	CAI318	CAI321	CAI324	CAI327	CAI330
1540	CAI506	CAI508	CAI512	CAI515	CAI518	CAI521	CAI524	CAI527	CAI530
1800	CAI806	CAI808	CAI812	CAI815	CAI818	CAI821	CAI824	CAI827	CAI830
2100	CAI1006	CAI1008	CAI1012	CAI1015	CAI1018	CAI1021	CAI1024	CAI1027	CAI1030
2130	CAI1206	CAI1208	CAI1212	CAI1215	CAI1218	CAI1221	CAI1224	CAI1227	CAI1230

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# SIZING CHARTS

## Double Hungs

Opening	630	870	1230	1590	1830	2190	2410	2730	3030
Size	610	850	1210	1570	1810	2170	2380	2710	3010
940	DHO906	DHO908	DHO912	DHO915	DHO918	DHO921	DHO924	DHO927	DHO930
1200	DHI206	DHI208	DHI212	DHI215	DHI218	DHI221	DHI224	DHI227	DHI230
1370	DHI306	DHI308	DHI312	DHI315	DHI318	DHI321	DHI324	DHI327	DHI330
1540	DHI506	DHI508	DHI512	DHI515	DHI518	DHI521	DHI524	DHI527	DHI530
1800	DHI806	DHI808	DHI812	DHI815	DHI818	DHI821	DHI824	DHI827	DHI830
2100	DHI1006	DHI1008	DHI1012	DHI1015	DHI1018	DHI1021	DHI1024	DHI1027	DHI1030
2130	DH2106	DH2108	DH2112	DH2115	DH2118	DH2121	DH2124	DH2127	DH2130

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# SIZING CHARTS

## Colonial Double Hungs

Opening	630	870	1230	1590	1830	2190	2410	2730	3030
970	DH0906	DH0908	DH0912	DH0915	DH0918	DH0921	DH0924	DH0927	DH0930
1220	DH1206	DH1208	DH1212	DH1215	DH1218	DH1221	DH1224	DH1227	DH1230
1400	DH1306	DH1308	DH1312	DH1315	DH1318	DH1321	DH1324	DH1327	DH1330
1570	DH1506	DH1508	DH1512	DH1515	DH1518	DH1521	DH1524	DH1527	DH1530
1800	DH1806	DH1808	DH1812	DH1815	DH1818	DH1821	DH1824	DH1827	DH1830
2130	DH2106	DH2108	DH2112	DH2115	DH2118	DH2121	DH2124	DH2127	DH2130
Size	610	850	1210	1570	1810	2170	2380	2710	3010

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This information is offered as a general guide only. Specific advice on the cleaning of glass should always be sought from a reputable glazier or professional window cleaner before any glass cleaning is undertaken.

### **Professional Cleaners:**

Professional glass cleaners have significant experience and access to equipment, materials and methods which the general public may not. As professional glass cleaners are acknowledged experts in the cleaning of glass, Highland Glass offers the information as general advice only for the professional glass cleaner to consider as part of the development of their own cleaning processes.

### **Instruction to All Trades and Individuals:**

- Always follow manufacturer's installation and cleaning instructions.
- While cleaning ensure jewellery and watches are removed and gloves should be worn.
- It is recommended that glass be protected from contamination caused by building materials and methods during construction as this will greatly simplify the glass cleaning task at the end of the project. If the glass is not protected during construction then the glass and frames should be cleaned frequently during construction.
- Construction dust, leachate from concrete and rusting from steel can contribute to the formation of mild chemicals, which may stain or otherwise damage the glass.
- Glass should be cleaned using only cleaning materials which are free of grit and debris (to avoid scratching and marking of the glass surface)

- Only detergents and cleaning solutions which are recommended for cleaning glass should be used. Mild detergents are preferable.
- Extra care is necessary where high performance reflective glass is installed. The coated surface can be susceptible to stains and scratches and therefore requires vigilance during the full construction process.
- Temporary screens should be installed if welding, sandblasting, floor sanding, cuffing or other potentially damaging construction practices takes place near the glass.
- Glass installations which are adjacent to concrete (e.g. concrete slab floors) require extra care and cleaning due to the abrasive nature of concrete dust.
- All tradesmen should be advised to be aware of damaging glass and windows and to leave in place any materials protecting the window or glass.

### **Toughened Glass:**

The cleaning of toughened glass required special care. The glass surface opposite the standard compliance stamp may, as a consequence of the manufacturing process, have 'pickup' on the surface. 'Pickup' is a deposit of very small particles of glass which are fused to the glass surface. A cleaning method which does not dislodge these particles should be employed otherwise scratching of the glass surface may result. Blades or scrapers have been known to dislodge 'pickup' from the glass surface. A soft cloth, which will not dislodge 'pickup' should be used. It is suggested that professional cleaners consult with their suppliers as to the suitability of available cleaning equipment, materials and methods.

**Special Products:**

ComfortPlus™, ComfortSave™, Silver, Vinyl Back Silver, Entergy Tech™, EVantage™, Low E and Sunergy require specific cleaning procedures. These can be found on the Highland Glass web site.

**What Not To Do:**

- Do not use cleaners which contain Hydrofluoric or Phosphoric acid as they are corrosive to the glass surface.
- Do not clean the glass when the glass is hot or in direct sunlight
- Do not allow cleaning solutions to contact the edges of Laminated glass, Insulating Glass Units or Mirrors
- Do not store or place other material in contact with the glass. (This can damage the glass or create a heat trap leading to thermal breakage).
- Abrasive cleaners, powder based cleaners, scouring pads or other harsh materials should not be used to clean windows or other glass products.
- Avoid causing extreme temperature changes to the glass as this may lead to thermal fracture of the glass i.e. do not splash hot water on cold glass or freezing water on hot glass.
- Some tapes or adhesive can stain or damage glass surfaces. Avoid using such materials unless they are known to be easily removed.

**If Damage Occurs:**

If glass is damaged or broken on-site ensure that experienced glaziers are engaged to rectify the situation. Glass can be a safety hazard if not handled properly.

**Paint:**

Paint spots have been traditionally removed using a sharp razor blade. The use of a blade can in some cases cause damage to the glass. As an alternative, investigate solvents or graffiti removal materials, ensuring that they will not damage the glass.

If a blade or scraper is used then the risk of damage can be reduced by using a scraper which has a clean edge and is held at an angle of 30 degrees to the glass. Consult the supplier of the blade or scraper as to how it is best used to clean glass. However, surface coated, modified or tinted glass requires special case. Seek cleaning advice from your local glass merchant.

**About this Clean Advice:**

This information is offered as a general guide only and specific advice should always be sought from a reputable glazier or professional window cleaner before undertaking any cleaning. This guidance does not preclude the use of other methods, materials or equipment, however the user should undertake careful evaluation and make suitable enquiries of the suitability of alternative methods, materials or equipment, before using them.

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