

# CROWN WINDOWS SOLUTIONS NSW

WINDOWS & DOORS TECHNICAL INFORMATION






# CROWN

# HISTORY OF CROWN

Crown Windows was first established in August 2015, bringing the perfect combination of quality industry experience and leading innovations to the manufacture and installation of your windows. With over 40 years of combined industry experience and a number of bright young minds in our executive team, Crown Windows are able to offer the future of windows for you today, with the wisdom of the past to ensure that creativity meets functionality.

Our team is comprised of our five divisions including, sales, production, administration, estimating and, transport/installation all with a single goal in mind. This is to make your vision become a reality through the production and deliverability of high quality windows specific to your project.

To ensure that we are delivering excellence in every window, Crown Windows have become members of the Australian Window Association, which undergoes vigorous testing to ensure that all products are sustainably manufactured and perform according to the requirements of the Australian Building Standard codes.

 AUSTRALIAN WINDOW ASSOCIATION	<p>This manufacturer certifies that this product was designed to conform with AS2047. The design performance has been verified by a NATA accredited test laboratory. This manufacturer is a member of the AWA Accreditation Program. ACCREDITED MEMBER No. AWA 1029</p>	<p>CROWN  WINDOWS</p>	<table><tr><th colspan="2">DESIGN PERFORMANCE</th></tr><tr><td>N3 GEN</td><td>N3 CNR</td></tr><tr><td>SLS 0.6 kPa</td><td>SLS 0.8 kPa</td></tr><tr><td>ULS 1.4 kPa</td><td>ULS 2.0 kPa</td></tr><tr><th colspan="2">Water Resistance</th></tr><tr><td>Non Exposed 150 Pa</td><td>Exposed 300 Pa</td></tr></table>	DESIGN PERFORMANCE		N3 GEN	N3 CNR	SLS 0.6 kPa	SLS 0.8 kPa	ULS 1.4 kPa	ULS 2.0 kPa	Water Resistance		Non Exposed 150 Pa	Exposed 300 Pa	<p>ENERGY RATED</p>  WINDOW ENERGY RATING
DESIGN PERFORMANCE																
N3 GEN	N3 CNR															
SLS 0.6 kPa	SLS 0.8 kPa															
ULS 1.4 kPa	ULS 2.0 kPa															
Water Resistance																
Non Exposed 150 Pa	Exposed 300 Pa															

Australian Window Association accreditation label for Crown Windows



Crown Windows's Fixed Window

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## CARE & MAINTENANCE

All elements of Crown's Aluminium windows demonstrate a superior quality which as been proven to withstand all the harsh conditions of the Australian environment. In order to keep your Crown Windows looking and functioning as designed, a few basic care and maintenance recommendations should be implemented.

**All Aluminium Windows & Doors**  
External surfaces should be washed using warm water and mild detergent then polished with a soft dry cloth/sponge. Washing should be carried out at least every 3 months. Polishing aluminium framing should be carried out at least every 6 months to maintain shine. In areas of harsher environmental conditions, i.e. coastal and industrial areas, the above care and maintenance regime should be carried out on a more frequent basis.

The use of abrasive chemical cleaners and cloths/sponges is not recommended as it may result in damage on glass and aluminium surfaces.

Flyscreens can be cleaned using a vacuum or washing thoroughly with warm water and a cloth every 6-12 months.

It is recommended that any opening sashes be operated on a regular basis to ensure its smooth operation.

### Sliding Windows & Doors

Sill recesses should be cleaned on a regular basis with dust and foreign matter kept out at all times to enable full function of sliding windows and doors. A soft bristle brush and vacuum are recommended to keep the track area clean and clear.

Drainage slots must be checked on a regular basis to ensure that they are not blocked by residual dirt or grime. If window or door tracks are in close proximity to soil, checking of drainage slots must be more frequent.

A light silicon spray is recommended to be applied to the track and woolpile seals every 12 months to ensure quiet and smooth operation of doors and windows. The silicon spray must only be applied after cleaning. Door locks should be checked on a yearly basis to ensure its smooth operation.

Adjustments may be required to counteract any building settlement.

Door rollers generally do not need any adjustments as they are set with factory settings. However if adjustment is needed due to building settlement, the door panel must be lifted first to relieve weight from the roller assembly.



Crown Windows Awning Window



Crown Windows Fixed Window and Sliding Door



## «CARE & MAINTENANCE

### Awning Windows

The sash and opening perimeter should be cleaned regularly with dust and foreign matter removed. Cleaning of the sash should only occur with the sashes opened.

Window operating hardware should be cleaned on a regular basis. Operation of hardware regularly also ensures its smooth usage. Lubricants should not be used on casement trays.

### Double Hung Windows

Window jamb tracks should be cleaned on a regular basis. Dust and foreign matter should be kept clear to ensure unobstructed operation. Regular use of window hardware will ensure its smooth operation. Regular cleaning of hardware will also aid in its operation.

### Glass

Prompt removal of all dirt and other contaminants from all glass surfaces is recommended for easy cleaning. Clean warm water should be used for regular cleans. A mild detergent with warm water may be used for removal of stubborn contaminants.

Detergent residue must always be removed by rinsing with clean water. Abrasive cleaners must never be used on glass surfaces to ensure its prolonged high performance. Areas of high industrial activity and coastal locations may require a more frequent cleaning regime. In regular locations, glass is recommended to be cleaned every 3 months.



Crown Windows Fixed Window

# AUSTRALIAN BUILDING STANDARDS

## Glass in Buildings (as 1288-2006)

The following points outline the changes made to the Australian Building Standards as of January 2006, determining the minimum requirements for glass to be used in buildings.

Changes to the ABS are in the 2 areas below:

### 1. Glass Thickness Limitations

- 3mm glass is limited to 0.85 sq in size
- Shape of glass must now be considered in conjunction with square meterage as opposed to previous regulations where only square metres were reviewed.

### 2. Human Impact Requirements

The human impact requirements section of the Building Standards are designed to minimise potential injury to occupants of the building as a result of the glazing.

Location of glazing can play a big role in which requirements are applicable. A plan review by a sales person or estimator is recommended to advise which requirements are mandatory.

Points of consideration are as follows:

- Doors
  - Hinged, folding, sliding and, stacking doors must be glazed in Grade A safety glazing (toughened or laminated glass)

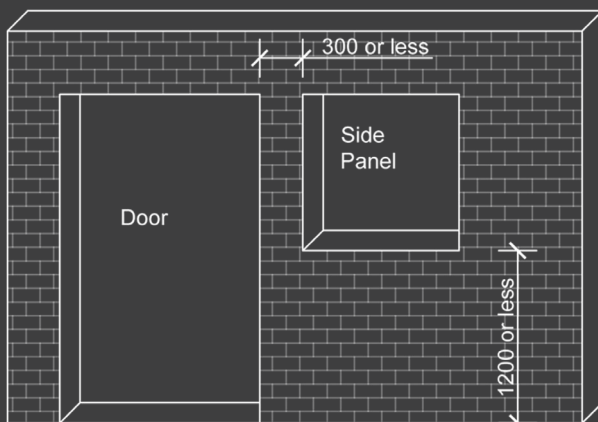


Fig 1. Door side panels

### • Door Side Panels

- Side panels with their vertical sight line less than 300mm away from the door and positioned 1200mm or less above the floor level are to be glazed in Grade A safety glazing except that 5mm ordinary glass can be used up to a maximum of 0.3 square metres.

### Glazing capable of being mistaken for a doorway or opening

If glazed opening in the building has a glass sight line that is 500mm or greater in width, 1000mm or greater in height, or 500mm or less above the floor level it is considered capable of being mistaken as a doorway and is to be glazed in Grade A safety glazing. Further, the glass must be made visible with the application of a motif.

Exceptions to the above are:

- The glazing is opaque or has a decorative finish to make it visible
- The glass is protected with a crash/chair rail handrail or transom
- There is 1000mm or greater difference in floor level either side of the glass

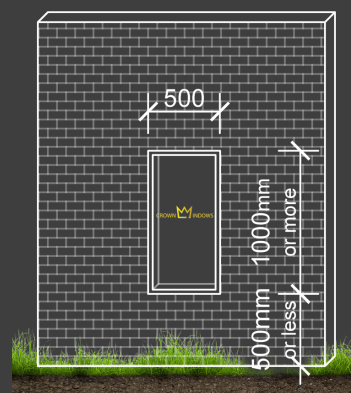


Fig 2. Glazing capable of being mistaken for a doorway

« Glass in Buildings (as 1288-2006)

Low Level Glazing

Where the lowest sight line in the glazing is less than 500mm from the floor, the window must be glazed in Grade A safety glazing except a minimum of 5mm thick ordinary glass may be used up to a maximum area of 1.2 square meters.

Bathrooms

All glazing in a bathroom up to 2000mm above the floor is to be glazed in Grade A safety glazing.

Schools & Child Care Centres

All glazing in schools and child care centres up to 1000mm above the floor must have Grade A safety glazing.

Aged Care Buildings & Nursing Homes

All glazing in aged care buildings and nursing homes up to 1500mm above the floor is to be in Grade A safety glazing.

Stairway Glazing

All glazing surrounding a stairway for a distance of 2000mm away from the bottom of the stairs and a distance of 1000mm either side of the stairs must be in Grade A safety glazing.

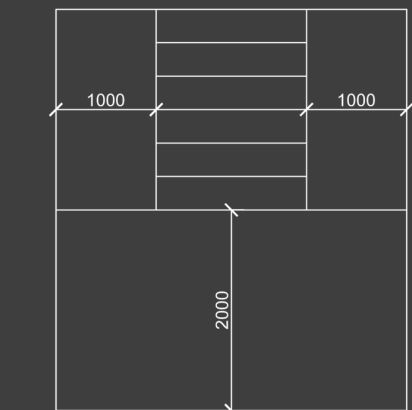


Fig 3. Stairway Glazing

Double Glazing

The human impact requirements for double glazing applies only to the sides of the window accessible by human traffic.

Areas Subject to High Risk of Breakage

In all those parts of a building where the planned activity can generate a high risk of breakage from human impact, such as gymnasiums, halls, public viewing galleries, stagiums and the like, Grade A safety glazing is to be used.

Table 1: Maximum Areas for Safety Glass for Human Impact Considerations

Grade of Glazing	Type of Glazing	Normal Thickness (mm)	Maximum Area (m²)
Grade A Safety Glass *	Toughened & toughened laminated glass	3	1.0
		4	2.2
		5	3.0
		6	4.0
		8	6.0
		10	8.0
		12	10.0 ‡
		>12	Extrapolate
	Laminated glass †	6	3.0
		8	5.0
		10	7.0
		12	9.0 ‡
		>12	Extrapolate

\* = Safety glazing material Grade A or Grade B to AS/NZS 2208  
‡ = This area may not be readily available  
† = Based on total glass thickness only (interlayer thickness not included and should be added)



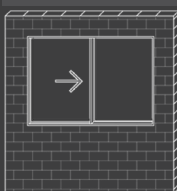
# ALUMINIUM WINDOWS & DOORS

## Crown Windows Standard Product Range

Crown Windows are able to manufacture a range of products with alterations to suit your specific needs. However, noted below are our standard product range to give a guideline as to what industry standards are.

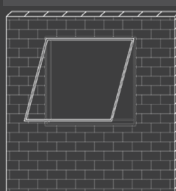
### Residential Window & Door Range (53mm window frame depth & 101.6mm door frame depth)

Sliding Window



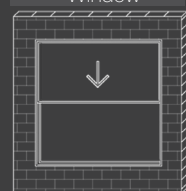
Crown Windows' sliding windows offer superior air ventilation and functionality without compromising on elegance. Best suited for areas in need of increased ventilation. (Min width 800mm).

Awning Window



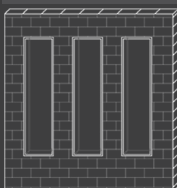
Crown Windows' awning windows offer an excellent balance of visual access and air ventilation. Best suited for areas needing balanced ventilation and uninterrupted views. (Min width 400mm, height 450mm).

Double Hung Window



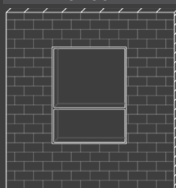
Crown Windows' double hung windows offer superior air ventilation and functionality without compromising on elegance. Best suited for areas in need of increased ventilation.

Fixed Window



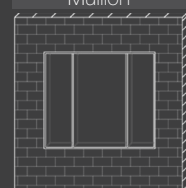
Crown Windows' fixed windows are the most customisable window for areas in which the design, composition and visual appeal of the window and wall are the priority.

Fixed Window + Transom



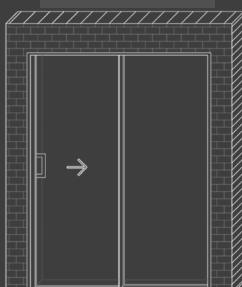
Crown windows' fixed window with transom offer exceptional elegance in wide range of framing options without compromising on its visual accessibility.

Fixed Window + Mullion



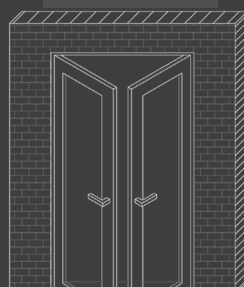
Crown windows' fixed window with mullion offer exceptional elegance in wide range of framing options without compromising on its visual accessibility.

Sliding Door



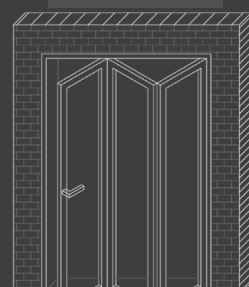
Crown Windows' sliding and stacking doors provide the best balance of visual and physical accessibility. Sliding and stacking doors are best suited for openings in which visual accessibility is the main priority. (NOTE: 165mm frame for stacking door)

French Door



Crown Windows' French door offers an elegant solution where physical accessibility is the priority. The large range in framing thickness present options for higher or lower visual accessibility.

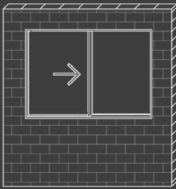
Bi-Fold Door



Crown Windows' bi-fold doors offer the best solution for physical accessibility in an elegant customisable frame. Bi-fold doors are the most suitable for wall openings which limited door opening space.

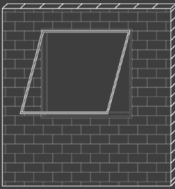
Semi-Commercial Window & Door Range  
(76mm frame depth)

Sliding Window



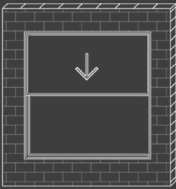
Crown Windows' sliding windows offer superior air ventilation and functionality without compromising on elegance. Best suited for areas in need of increased ventilation. (Min width 800mm).

Awning Window



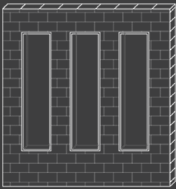
Crown Windows' awning windows offer an excellent balance of visual access and air ventilation. Best suited for areas needing balanced ventilation and uninterrupted views. (Min width 400mm, height 450mm).

Double Hung Window



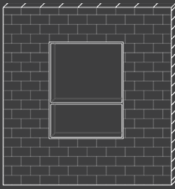
Crown Windows' double hung windows offer superior air ventilation and functionality without compromising on elegance. Best suited for areas in need of increased ventilation.

Fixed Window



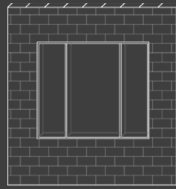
Crown Windows' fixed windows are the most customisable window for areas in which the design, composition and, visual appeal of the window and wall are the priority.

Fixed Window + Transom



Crown windows' fixed window with transom offer exceptional elegance in wide range of framing options without compromising on its visual accessibility.

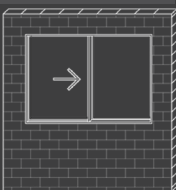
Fixed Window + Mullion



Crown windows' fixed window with mullion offer exceptional elegance in wide range of framing options without compromising on its visual accessibility.

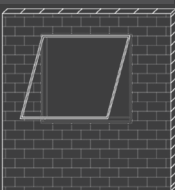
Commercial Window & Door Range  
(100mm window frame depth & 150mm door frame depth)

Sliding Window



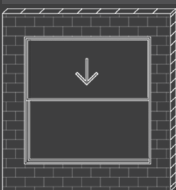
Crown Windows' sliding windows offer superior air ventilation and functionality without compromising on elegance. Best suited for areas in need of increased ventilation. (Min width 800mm).

Awning Window



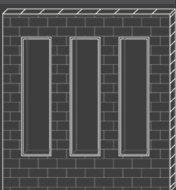
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Double Hung Window



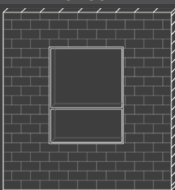
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Fixed Window



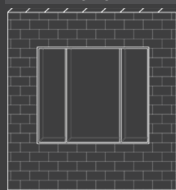
Crown Windows' fixed windows are the most customisable window for areas in which the design, composition and, visual appeal of the window and wall are the priority.

Fixed Window + Transom



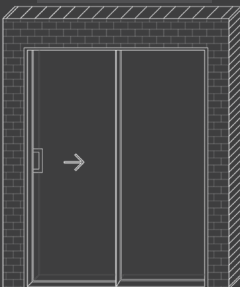
Crown windows' fixed window with transom offer exceptional elegance in wide range of framing options without compromising on its visual accessibility.

Fixed Window + Mullion



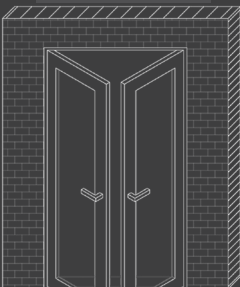
Crown windows' fixed window with mullion offer exceptional elegance in wide range of framing options without compromising on its visual accessibility.

Sliding Door



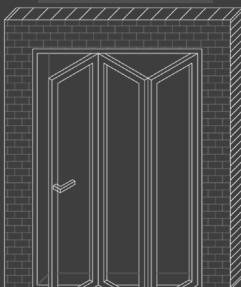
Crown Windows' sliding and stacking doors provide the best balance of visual and physical accessibility. Sliding and stacking doors are best suited for openings in which visual accessibility is the main priority. (NOTE: 165mm frame for stacking door)

French Door



Crown Windows' french door offers an elegant solution where physical accessibility is the priority. The large range in framing thickness present options for higher or lower visual accessibility.

Bi-Fold Door



Crown Windows' bi-fold doors offer the best solution for physical accessibility in an elegant customisable frame. Bi-fold doors are the most suitable for wall openings which limited door opening space.





# Residential Windows & Doors

## Technical Details

# SLIDING WINDOWS

## Technical Details

Crown Window's aluminium sliding windows offer superior air ventilation and functionality without compromising on elegance. Best suited for areas in need of increased ventilation.

















### Features

- Durable, low maintenance and easy to clean aluminium profiles
- Sill drainage system designed for optimum performance
- Full perimeter reveal flashing fin for superior reveal lining protection
- Full perimeter sash weather seals for optimum performance
- Moulded end gaskets at all frame joints
- Height adjustable mullion latch

- Full length under-sill flap for neat finish and allowance for building settlement
- Easy coupling to the Crown Windows' range of windows and doors
- Customisation of these standard sizes is available upon consultation with our friendly staff
- 400mm flashing

### Hardware

- Mullion Lock fitted as standard with key

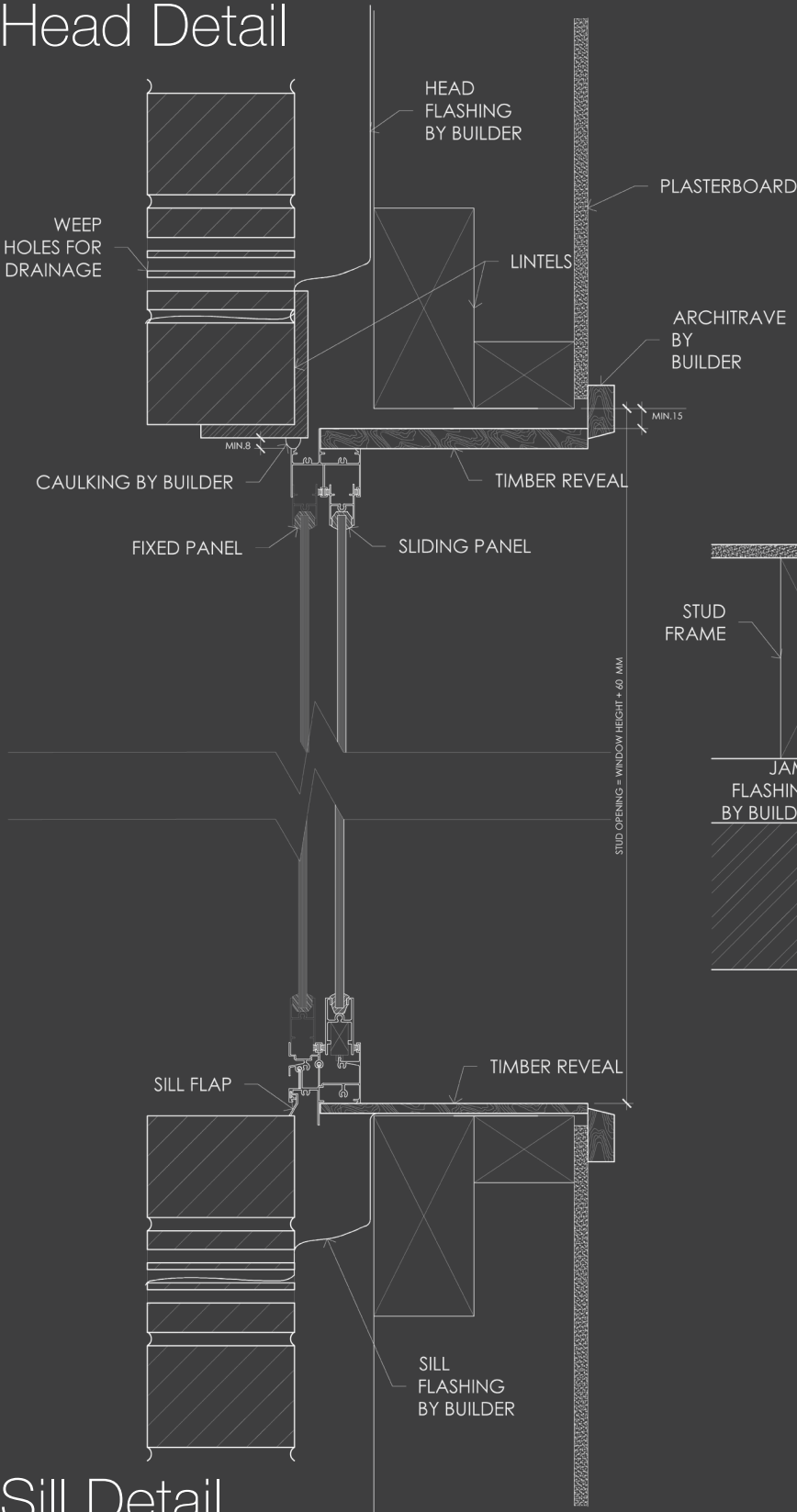
Stud Opening		670	910	1270	1630	1870	2230	2230	2470	2470	2710	3070		
Brick		2½	3½	5	6	7½	8½	8½	10	10	11	12½		
Window		610	850	1210	1570	1810	2170	2170	2410	2410	2650	3010		
660	7	600	          	CSW 0606	CSW 0609	CSW 0612	CSW 0615	CSW 0618	CSW 0621a	CSW 0621	CSW 0624a	CSW 0624	CSW 0627	CSW 0630
	10	857	          	CSW 0906	CSW 0909	CSW 0912	CSW 0915	CSW 0918	CSW 0921a	CSW 0921	CSW 0924a	CSW 0924	CSW 0927	CSW 0930
	12	1029	          	CSW 1006	CSW 1009	CSW 1012	CSW 1015	CSW 1018	CSW 1021a	CSW 1021	CSW 1024a	CSW 1024	CSW 1027	CSW 1030
	14	1200	          	CSW 1206	CSW 1209	CSW 1212	CSW 1215	CSW 1218	CSW 1221a	CSW 1221	CSW 1224a	CSW 1224	CSW 1227	CSW 1230
1435	16	1372	          	CSW 1406	CSW 1409	CSW 1412	CSW 1415	CSW 1418	CSW 1421a	CSW 1421	CSW 1424a	CSW 1424	CSW 1427	CSW 1430
1520	17	1457	          	CSW 1506	CSW 1509	CSW 1512	CSW 1515	CSW 1518	CSW 1521a	CSW 1521	CSW 1524a	CSW 1524	CSW 1527	CSW 1530
1860	21	1800	          	CSW 1806	CSW 1809	CSW 1812	CSW 1815	CSW 1818	CSW 1821a	CSW 1821	CSW 1824a	CSW 1824	CSW 1827	CSW 1830
2120	24	2057	          	CSW 2106	CSW 2109	CSW 2112	CSW 2115	CSW 2118	CSW 2121a	CSW 2121	CSW 2124a	CSW 2124	CSW 2127	CSW 2130

Note : For higher wind ratings, wind load graphs must be consulted

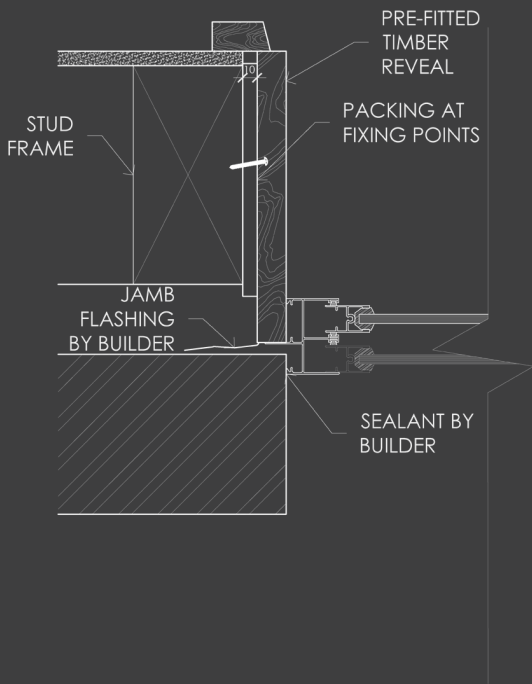
Key      ♦ = not for NS      # = not for N4 and N5  
             4 = 4mm thick glass      5 = 5mm thick glass

« Sliding Windows

Head Detail



Jamb Detail










































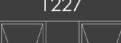





















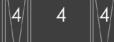
















Sill Detail



# AWNING WINDOWS

## Technical Details

Crown Windows' awning window offer an excellent balance of visual access and air ventilation. Best suited for areas needing balanced ventilation and uninterrupted views. Chain-winder hardware for awning windows in high grade stainless steel to increase durability.

Stud Opening		670	910	1270	1630	1870	2230	2470	2710	
Brick		2½	3½	5	6	7½	8½	10	12	
Window		610	850	1210	1570	1810	2170	2410	2650	
660	7	600	 CAW 0606	 CAW 0609	 CAW 0612	 CAW 0615	 CAW 0618	 CAW 0621	 CAW 0624	 CAW 0627
920	10	857	 CAW 0906	 CAW 0909	 CAW 0912	 CAW 0915	 CAW 0918	 CAW 0921	 CAW 0924	 CAW 0927
1090	12	1029	 CAW 1006	 CAW 1009	 CAW 1012	 CAW 1015	 CAW 1018	 CAW 1021	 CAW 1024	 CAW 1027
1260	14	1200	 CAW 1206	 CAW 1209	 CAW 1212	 CAW 1215	 CAW 1218	 CAW 1221	 CAW 1224	 CAW 1227
1435	16	1372	 CAW 1406	 CAW 1409	 CAW 1412	 CAW 1415	 CAW 1418	 CAW 1421	 CAW 1424	 CAW 1427
1520	17	1457	 CAW 1506	 CAW 1509	 CAW 1512	 CAW 1515	 CAW 1518	 CAW 1521	 CAW 1524	 CAW 1527
1860	21	1800	 CAW 1806FH	 CAW 1809FH	 CAW 1812FH	 CAW 1815FH	 CAW 1818FH	 CAW 1821FH	 CAW 1824FH	
1860	21	1800	 CAW 1806	 CAW 1809	 CAW 1812	 CAW 1815	 CAW 1818	 CAW 1821	 CAW 1824	 CAW 1827
2120	24	2057	 CAW 2106FH	 CAW 2109FH	 CAW 2112FH	 CAW 2115FH	 CAW 2118FH	 CAW 2121FH	 CAW 2124FH	
2120	24	2057	 CAW 2106	 CAW 2109	 CAW 2112	 CAW 2115	 CAW 2118	 CAW 2121	 CAW 2124	 CAW 2127

660

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CAW 0606

CAW 0609

CAW 0612

CAW 0615

CAW 0618

CAW 0621

CAW 0624

CAW 0627

CAW 0906

CAW 0909

CAW 0912

CAW 0915

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CAW 0924

CAW 0927

CAW 1006

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CAW 1012

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CAW 1821FH

CAW 1824FH

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CAW 2106FH

CAW 2109FH

CAW 2112FH

CAW 2115FH

CAW 2118FH

CAW 2121FH

CAW 2124FH

CAW 2106

CAW 2109

CAW 2112

CAW 2115

CAW 2118

CAW 2121

CAW 2124

CAW 2127

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CAW 0606</

Note : For higher wind ratings, wind load graphs must be consulted

Key

◆ = not for NS

# = not for N4 and N5

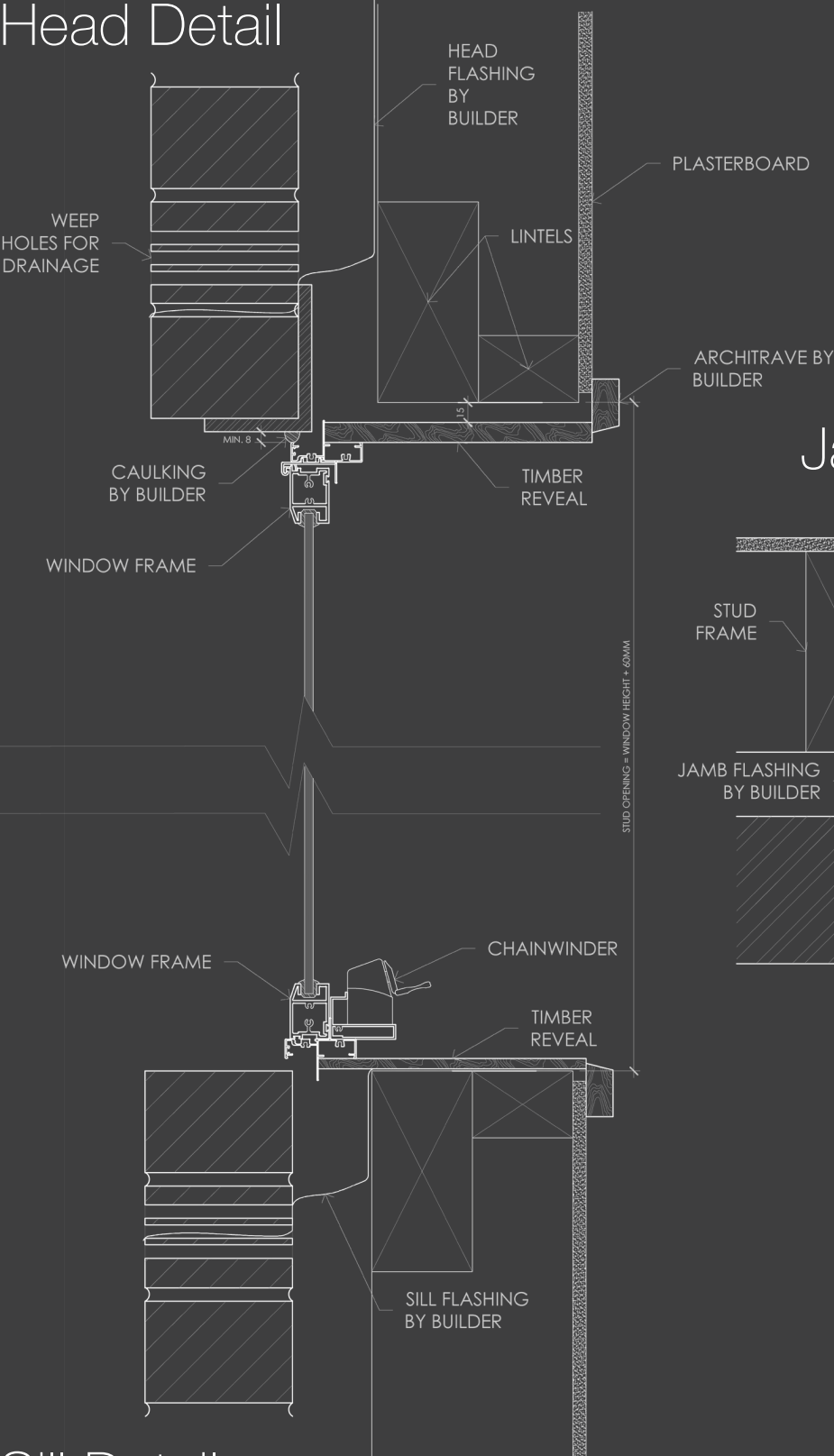
4 = 4mm thick glass

5 = 5mm thick glass

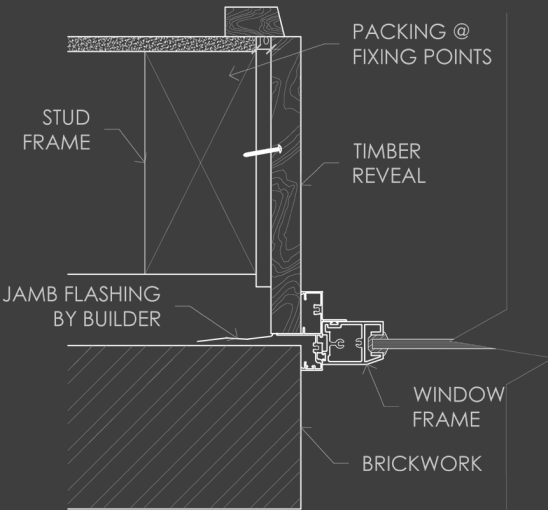
† = not available in double glazing

« Awning Windows

Head Detail



Jamb Detail



Sill Detail

# DOUBLE HUNG WINDOWS

## Technical Details

Crown Window' double hung windows offer superior air ventilation and functionality without compromising on elegance. Best suited for areas in need of increased ventilation.

























































### Features

- Durable, low maintenance and easy to clean aluminium profiles
- High quality sash suspension systems for smooth operation

- Frame corner gaskets for superior sealing
- Full length under-sill flap for neat finish and allowance for building settlement

### Hardware

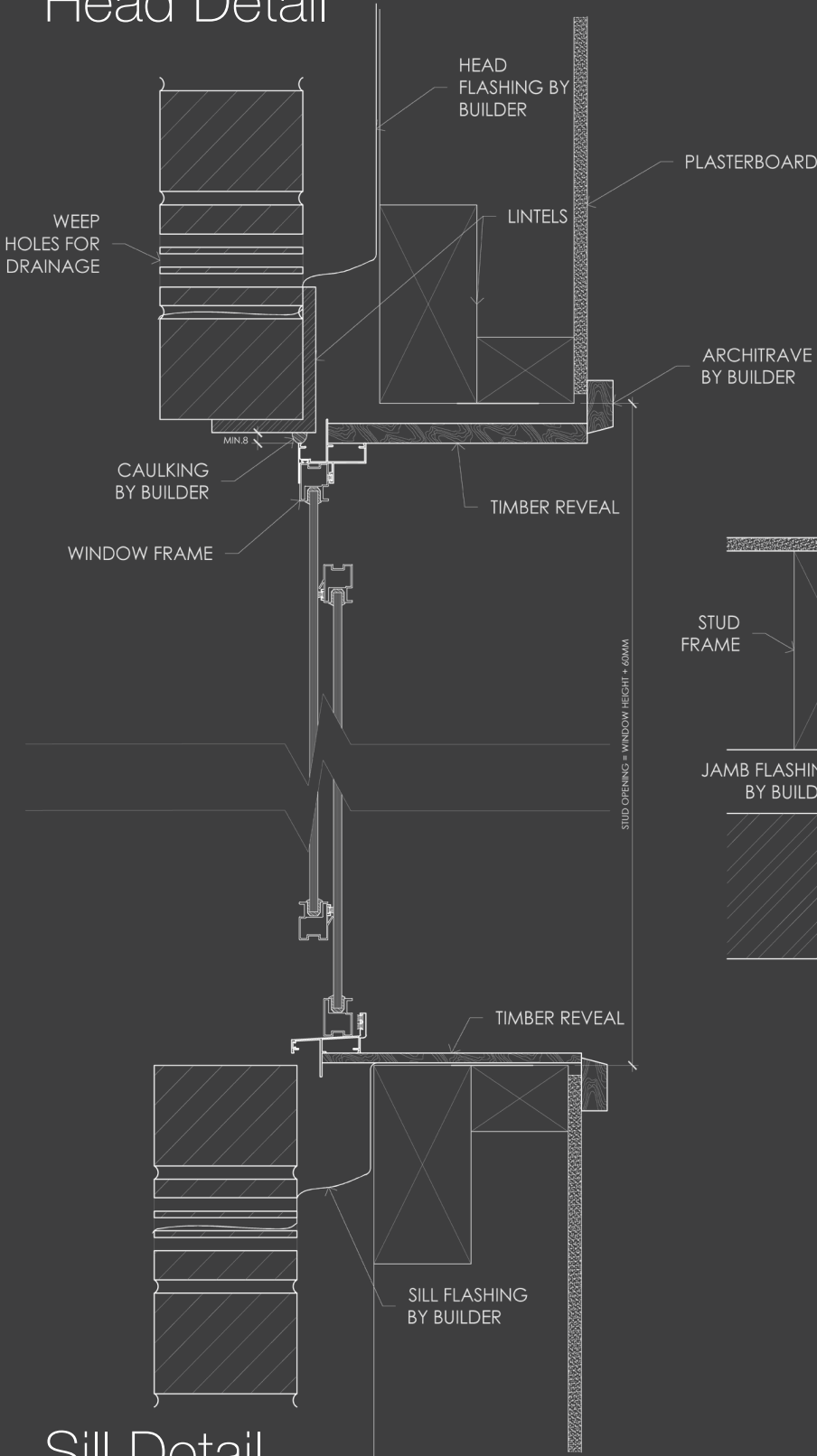
- Optional keyed cam locks available

Stud Opening		670	910	1110	1630	1870	2230	2470	2710	
Brick		2½	3½	4½	6	7½	8½	10	11	
Window		610	850	1090	1570	1810	2170	2410	2650	
660 920 1260 1435 1520 1860 2120	7	600	 CDHW 0606	 CDHW 0909	 CDHW 0911	 CDHW 0915	 CDHW 0918	 CDHW 0921	 CDHW 0924	 CDHW 0927
	10	857	 CDHW 1006	 CDHW 1009	 CDHW 1011	 CDHW 1015	 CDHW 1018	 CDHW 1021	 CDHW 1024	 CDHW 1027
	12	1200	 CDHW 1206	 CDHW 1209	 CDHW 1211	 CDHW 1215	 CDHW 1218	 CDHW 1221	 CDHW 1224	 CDHW 1227
	16	1372	 CDHW 1406	 CDHW 1409	 CDHW 1411	 CDHW 1415	 CDHW 1418	 CDHW 1421	 CDHW 1424	 CDHW 1427
	17	1457	 CDHW 1506	 CDHW 1509	 CDHW 1511	 CDHW 1515	 CDHW 1518	 CDHW 1521	 CDHW 1524	 CDHW 1527
	21	1800	 CDHW 1806	 CDHW 1809	 CDHW 1811	 CDHW 1815	 CDHW 1818	 CDHW 1821	 CDHW 1824	 CDHW 1827
	24	2057	 CDHW 2106	 CDHW 2109	 CDHW 2111	 CDHW 2115	 CDHW 2118	 CDHW 2121	 CDHW 2124	 CDHW 2127

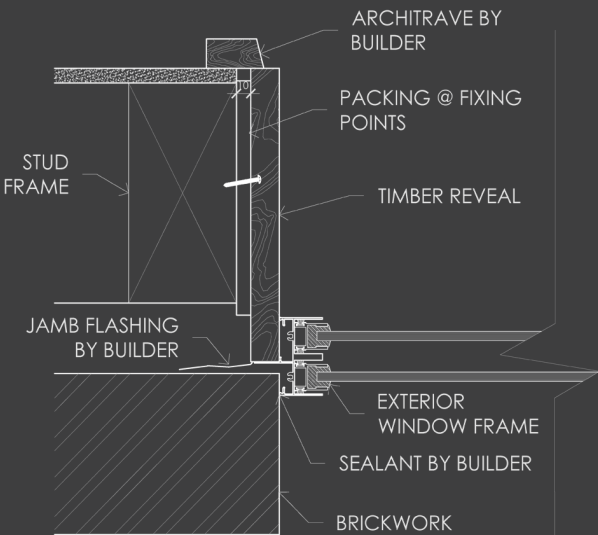
Note : For higher wind ratings, wind load graphs must be consulted  
Key 4 = 4mm thick glass 5 = 5mm thick glass



« Double Hung Windows  
Head Detail



Jamb Detail



Sill Detail

# SLIDING DOORS

## Technical Details

Crown Window' sliding doors provide the best balance of visual and physical accessibility. Sliding windows are best suited for openings in which visual accessibility is the main priority.

### Features

- Durable, low maintenance and easy to clean aluminium profiles
- Reveal flashing fins on jambs and head for weather protection
- Sill valve draining system for superior performance
- Optional Sump Sill for demanding exposure conditions



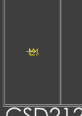
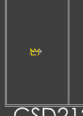
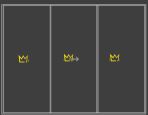
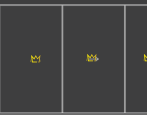
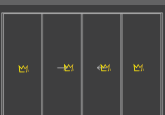
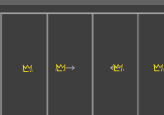
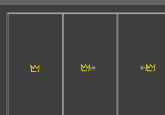
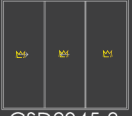

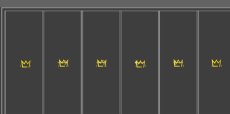
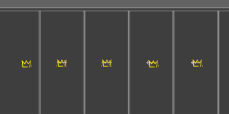
- Fully adjustable, non corrosive ball bearing roller system for smooth panel operation

- High quality corner gaskets at frame joints for superior sealing

- Optional fly doors and safety grilles available

### Hardware

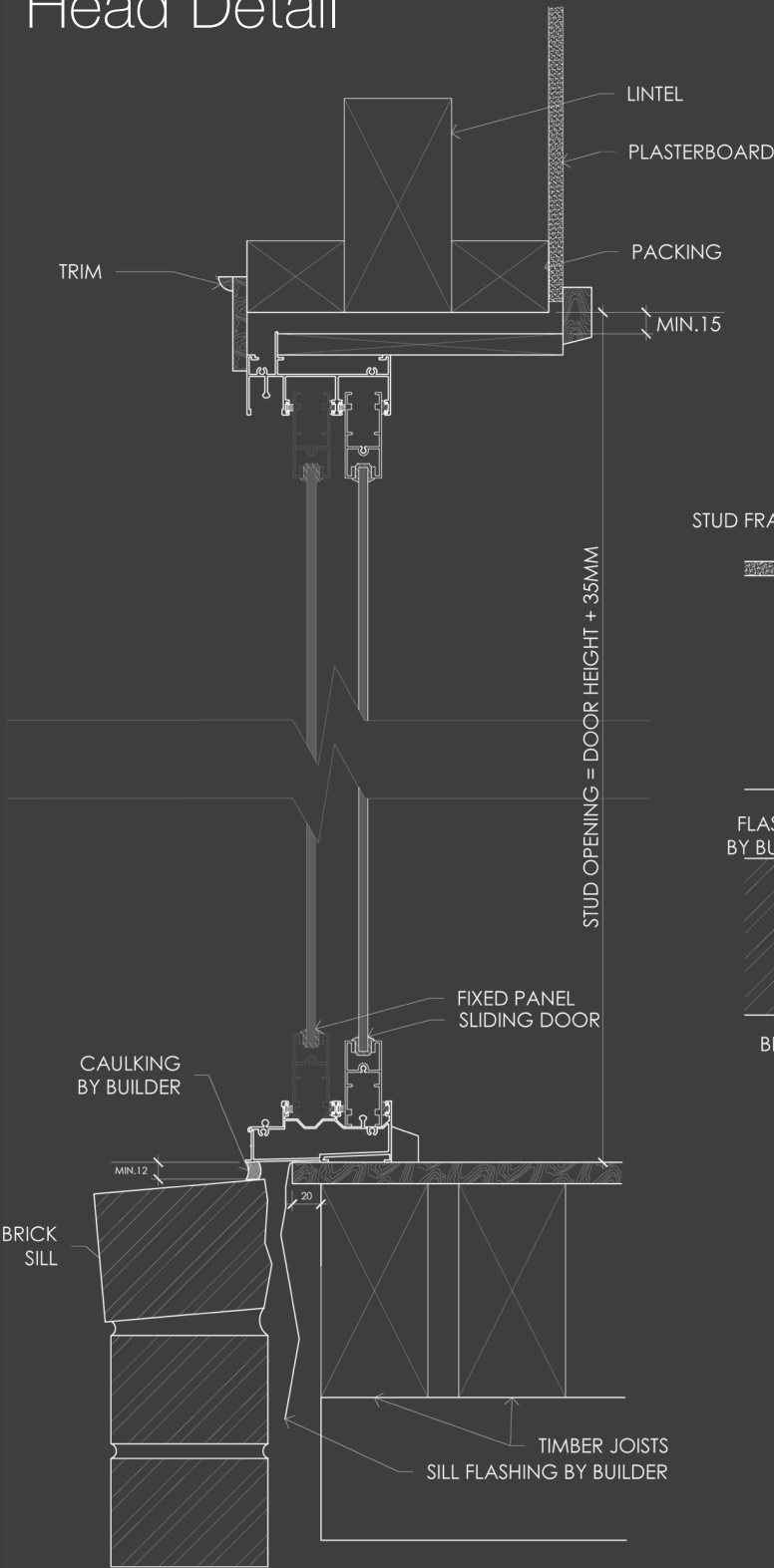
- Optional keyed latch available
- Standard key deadlock handle available

Stud Opening		1630	1870	2230	2470
Window		1570	1810	2170	2410
2140 (N1-N4)	2100 (N1-N4)				
		CSD2116	CSD2118-2	CSD2121-2	CSD2124-2
Stud Opening		2810	3157	3710	
Window		2750	3097	3650	
2140 (N1-N4)	2100 (N1-N4)				
		CSD2127-3	CSD2132-3	CSD2136-3	
Stud Opening		3135	3615	4332	4815
Window		3075	3555	4272	4755
2140 (N1-N4)	2100 (N1-N4)				
		CSD2131-4	CSD2136-4	CSD2143-4	CSD2148-4
Stud Opening		2470	2712	3252	3612
Window		2410	2652	3192	3552
2130 (N1-N4)	2090 (N1-N4)				
		CSD2045-3	CSD2026-3	CSD2031-3	CSD2035-3
Stud Opening		4575	5300		
Window		4515	5240		
2130 (N1-N4)	2090 (N1-N4)				
		CSD2045-6	CSD2052-6		

Note : For higher wind ratings, wind load graphs must be consulted  
Key 4 = 4mm thick glass 5 = 5mm thick glass

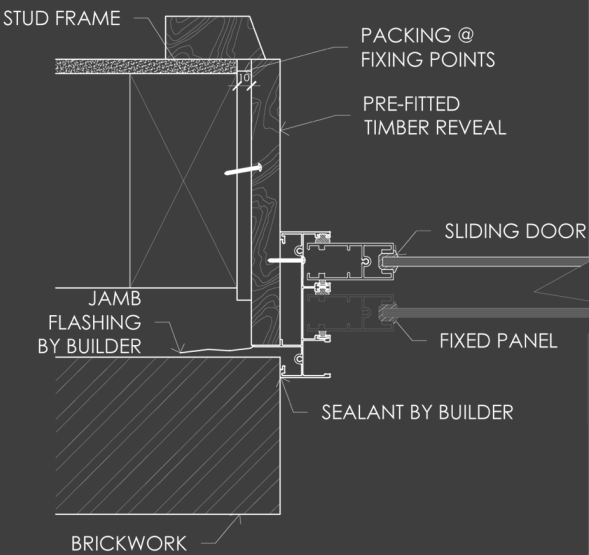
« Sliding Doors

Head Detail



Sill Detail

Jamb Detail



# STACKING DOORS

## Technical Details

Crown Window’ stacking doors prioritise physical accessibility within an elegant and thin framing as to not compromise on visual interaction between the outside and inside. Best suited for areas where transition between inside and out is needed to be minimal.



- Features
- Highly functional, Crown Windows’ stacking doors are designed to withstand the typical Australian climate and weather
  - Maintenance is kept to a minimum through its durable design
  - Modern technology is evidenced in the smooth and effortless operation of the stacking door system.
  - 165mm frame incorporates sliding glass doors + flydoors
  - 400mm flashing

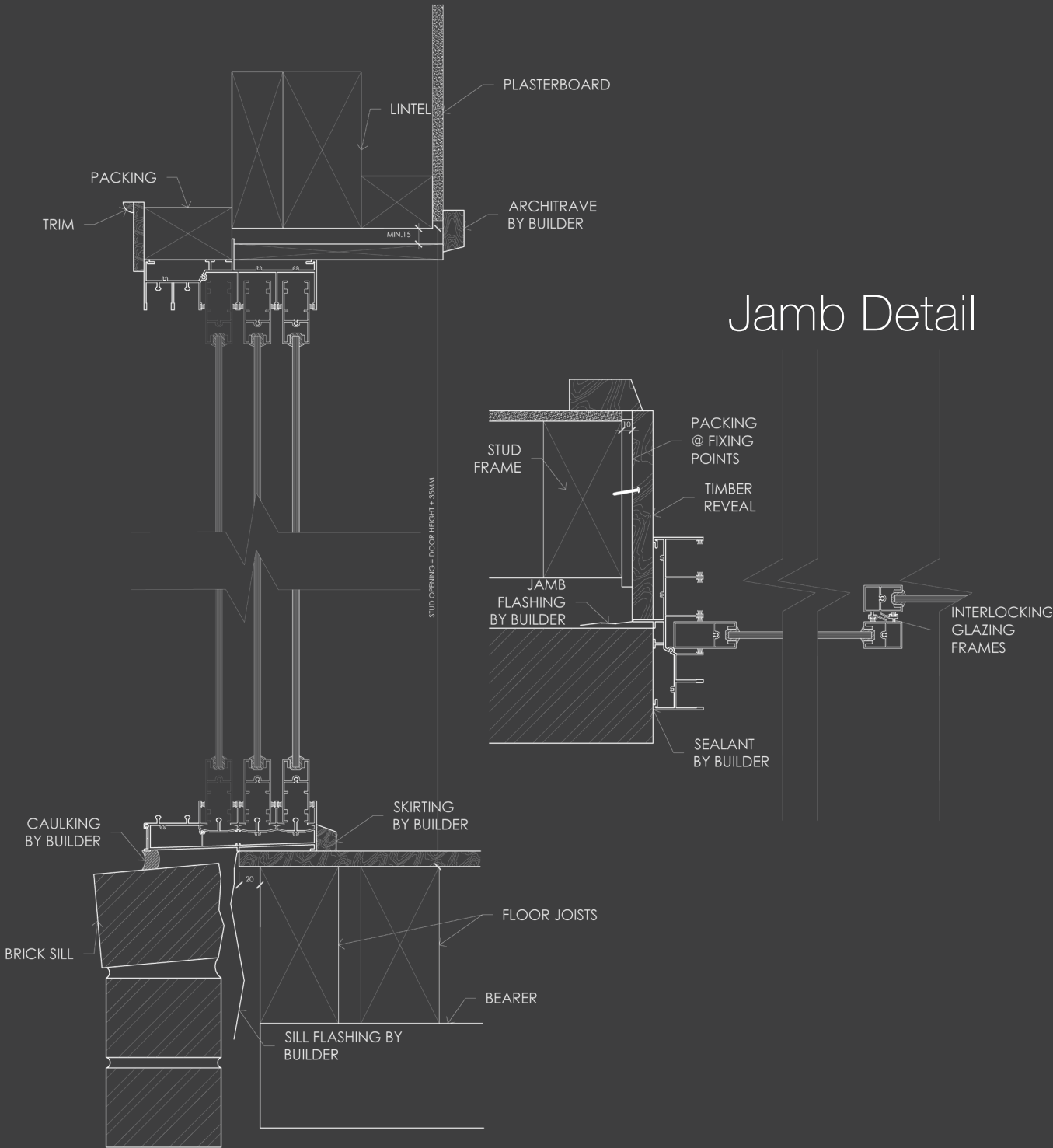
Stud Opening		2460	2702	3242	3602
Window		2410	2652	3192	3552
2130 (N1-N4)	2090 (N1-N4)				
		CSS2024	CSS2027	CSS2032	CSS2036

Stud Opening		4575	5300
Window		4515	5240
2130 (N1-N4)	2090 (N1-N4)		
		CSS2046-6	CSS2053-6





« Stacking Doors  
Head Detail



Sill Detail

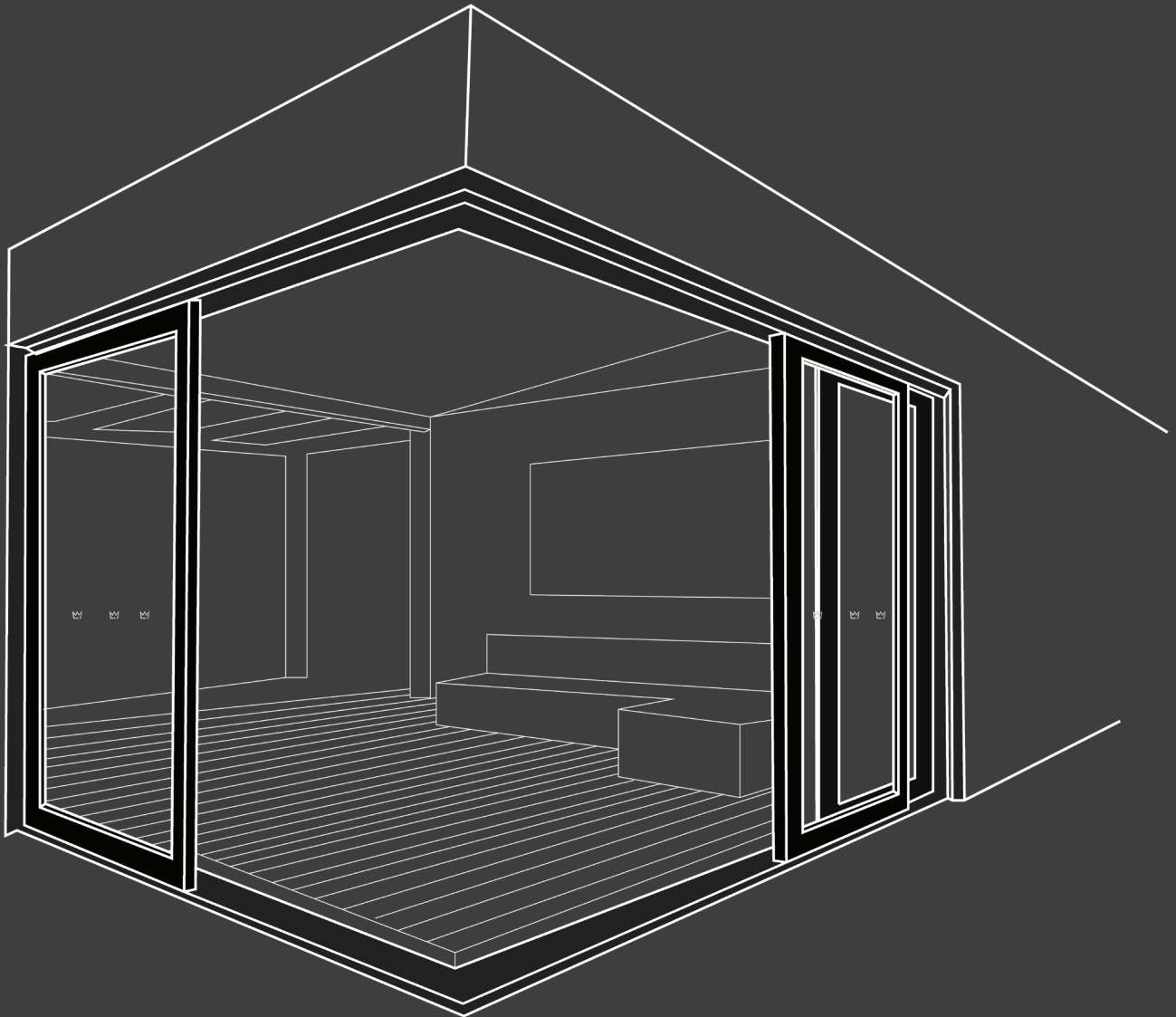
# CORNER STACKING DOORS

## Technical Details

Crown Window' stacking doors prioritise physical accessibility within an elegant and thin framing as to not compromise on visual interaction between the outside and inside. The corner stacking door system is a particularly ideal solution for spaces which feel small as the seamless interior/exterior interaction provides a larger spatial experience. Best suited for areas where transition between inside and out is needed to be minimal. Refer to stacking door pages (20-21) for installation and detail drawings.

### Features

- Highly functional, Crown Windows' stacking doors are designed to withstand the typical Australian climate and weather
- Maintenance is kept to a minimum through its durable design
- Modern technology is evidenced in the smooth and effortless operation of the stacking door system.
- 165mm aluminium frame



# FRENCH DOORS

## Technical Details

Crown Windows’ french door offers an elegant solution where physical accessibility is the priority. This large range in framing thickness present options for higher or lower visual accessibility. Best suited for areas with smaller openings whilst still prioritising an elegant design.

Features

- Durability and minimal maintenance is provided with these high grade aluminium profiles
- Door sag can be prevented with door jacking screws
- Concealed door bolts improve security while being aesthetically pleasing

- Customisation and coupling with Crown Windows’ window range is can be seamlessly arranged with one of our friendly staff

Hardware

- Keyed handle set fitted as standard
- Optional powder coated and stainless steel finishes available

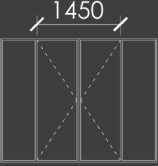
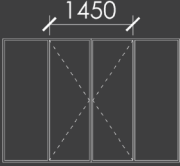
### 136 Double Rebate

Stud Opening		940	940	1362	1562	1762
Window		880	880	1302	1502	1702
2163	2123					
		CFD	CFD	CFD	CFD	CFD

### Full Commercial

Stud Opening		1547	1897	2566	3046
Window		1497	1837	2506	2986
2154	2114				
		CFD	CFD	CFD	CFD

### Full Commercial

Stud Opening		2766	3246
Window		2706	3186
2154	2114		
		CFD	CFD

# Bi-Fold Doors

## Technical Details

Crown Windows' bi-fold doors offer the best solution for physical accessibility in an elegant customisable frame. Bi-fold doors are the most suitable for wall openings with limited door opening space.

### Features

- Robust 100mm perimeter frame
- Centor eclipse hardware provides durability with ease of operation
- High performance seals for exposed location
- Jamb Pivots designed for easy adjustment of doors without having to remove the door panels

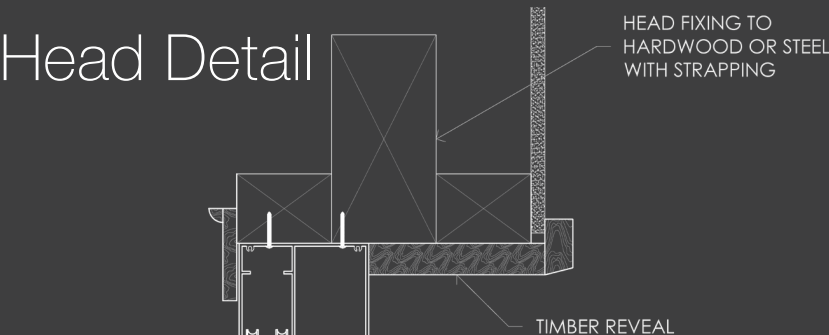
- A wide variety of panel configurations to suit most floor plan layouts
- Options available subject to weather exposure limitations
- Optional powder coated stainless steel and brass finishes available

Stud Opening		1870	2470	3070	3670	3670	4560
Window		1810	2410	3010	3610	3610	4500
2140 (N1-N4)	2100 (N1-N4)	CBF3L 	CBF3L1R-24 	CBF3L1R-30 	CBF3L1R-36 	CBF5L-36 	CBF5L-45 
	2140 (N1-N4)	CBF2L1R 				CBF4L1R-36 	CBF4L1R-45 
2140 (N1-N4)	2100 (N1-N4)	CBF1L2R 	CBF1L3R-24 	CBF1L3R-30 	CBF1L3R-36 	CBF3L2R-36 	CBF3L2R-45 
	2140 (N1-N4)	CBF3R 				CBF2L3R-36 	CBF2L3R-45 
2140 (N1-N4)	2100 (N1-N4)					CBF1L4R-36 	CBF1L4F-45 
	2140 (N1-N4)						

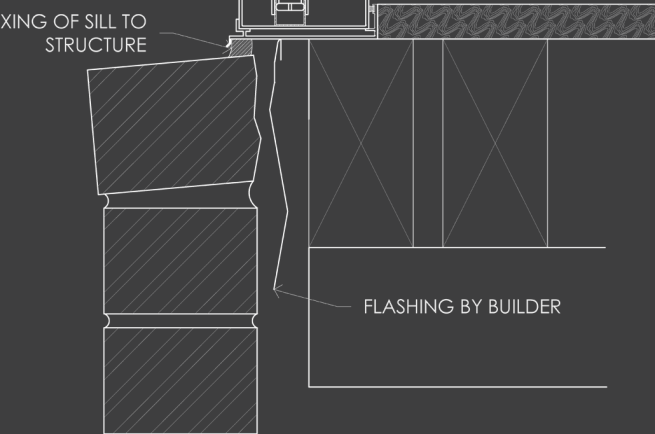
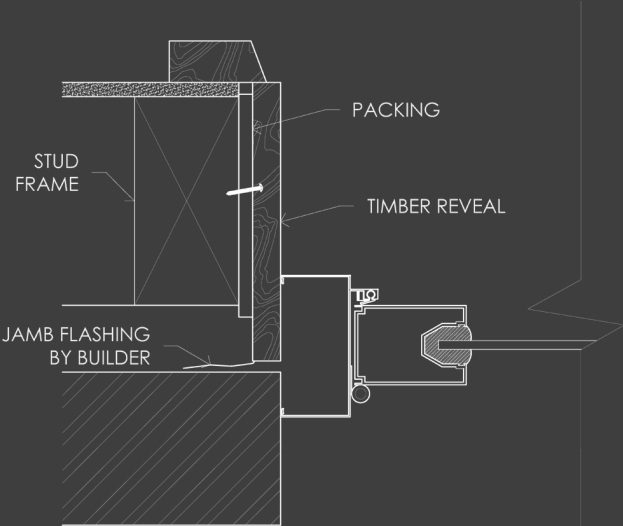


« Bi-Fold Doors

Head Detail



Jamb Detail



Sill Detail

# INSTALLATION RECOMMENDATIONS

## Before Installation

- Window must have a the appropriate "N rating" label (strength/water resistance) for the installation location
- Upmost care must be taken when lifting from trucks. Slings must not be used
- During any transportation or handling, window or door must be in the vertical position (with sill at the bottom). Sashes must be closed and in locked position.
- Knocks and abrasions will damage the aluminium and glass. As these damages are not covered under warranty, it is recommended to avoid these at all cost.
- When storing (long or short term) product must be stacked carefully on edge to avoid damage to finish
- Storing in dry locations with a cover is highly recommended to prevent any dust or weather damage to paint or material

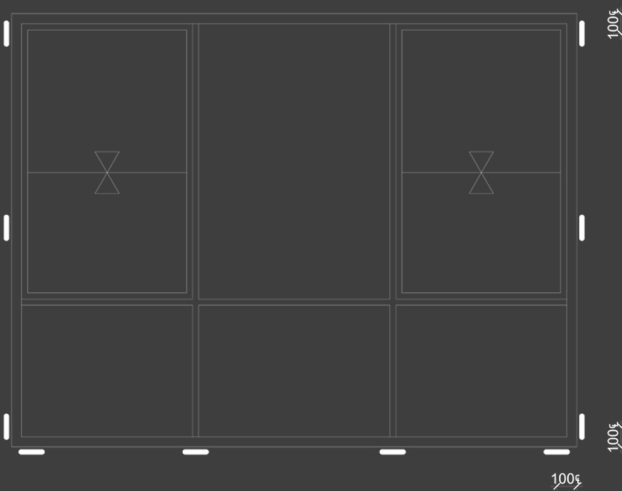


Figure 4. Packing Points

## During Installation

1. Diagonal dimensions on frame and opening should be checked to ensure an easy fit.
2. Sufficient clearance around perimeter of the frame must be checked before attempting to install the window.
3. Aluminium frame should be insulated from contact with other metals to ensure no potential corrosion of the aluminium in the future. Could be done by:
  - Bitumen coating of any steelwork around the window
  - Application of flashing membranes
4. Distortion of frames must be prevented by not forcing into an opening.
5. Sashes must be kept closed during frame installation.
6. Adequate clearance above head of window must be ensured as aluminium windows and doors are non-loadbearing.
  - Allow 12mm clearance from underside of sill to top of sill brick or tile to allow for building settlement.
  - NOTE: when green timber or large floor members are used, this allowance should be increased. Alternatively, sill bricks or tiles can be installed after initial timber shrinkage has taken place.
7. Sill must be straight and level.
  - Plumb jambs in both directions then pack frame at sill and jambs only
  - Frame must be square and out of twist to ensure smooth operation of sashes
  - Check that diagonal measurements are equal.
  - Clearance must be maintained between sill brick or tiles and the window frame as detailed
8. Fixings must be appropriate size, length and spacing for the windloading for the installation site.
9. Flashings must be correctly fitted
10. Contact between aluminium framing and surrounding materials (brick, concrete, concrete blockwork or cement rendered surfaces) must be prevented as severe corrosion can result.
11. Standing or placing any loads on framing is not permitted under any circumstance. Must not be used as support for scaffolding. Do not slide material through frames.
12. Tracks must be cleaned with a soft bristled brush to remove any material or debris/dirt prior to operation of panels.

## « Installation Recommendations

### After Installation

- Windows and doors must be protected from damage
- Do not remove plastic wrap (if provided) until brickwork is complete
- Where adhesive wrap is provided, ensure its complete removal within 120 days to avoid glue residue adhering to glass or frame.
- Wet cement, mortar, paint, acids and other chemicals must be washed off IMMEDIATELY as they occur
- Soft cloths can be used to clean glass and frames to avoid scratching the surface. Do not scrape any hard or abrasive objects against frame or glass.
- A thorough clean up after installation and job is complete must be undertaken. Warm soapy water or a mild detergent can be used followed by a rinse with clean water.
- A check that drainage slots in aluminium frames are free of blockage should be undertaken after the clean up

### Window Maintenance Requirements

- A regular cleaning schedule is recommended with a minimum of once every quarterly. See 'Care & Maintenance' pages (4-5) for a detailed cleaning schedule for specific products.
- In industrial or marine environments (and locations close to these environments) it is recommended that a more frequent and strict cleaning schedule be implemented to avoid deterioration of surface finish.

### Anodised Aluminium

- All aluminium surfaces must be cleaned promptly after any soils. Use of mild detergent and warm water should effectively remove any dirt, grime or foreign matter. A rinse with warm clean water is required.
- Abrasive cleaners (such as Ajax) or abrasive cleaning material (such as steel wool) MUST NOT BE USED under any circumstance

### Powder Coated Aluminium

- Cleaning of powder coated aluminium surfaces is required to maintain its finish.
- Coastal or industrial locations may need to establish a more frequent cleaning schedule due to chlorides and sulphur compounds in the air. Deterioration of coating usually occurs as a result of grime deposits and high moisture content (typically occurring in coastal locations).
- Deposited grime absorbs contaminated moisture and holds it against the powder coated surface where it eats away at the coating, resulting in irreversible damage to the surface.
- Restoration of surface to original coating can only occur through the removal and recoating of the surface.

### Glass

- Prompt removal of any dirt with clean water and a small amount of mild detergent is highly recommended to protect and prolong the life of the glass.
- Warm water is to be used to rinse off any residual detergent. A soft sponge and warm water can be used for stubborn soils.
- Cleaning method and frequency of glass should be carried out on a similar schedule to aluminium surfaces.

### Regular Maintenance Procedures

- Removal of dirt and foreign matter in track area can be done with a soft bristled brush and soft cloth.
- All drainage slots should be unblocked and clean for water to pass through.
- A silicone spray on the track area and the woolpile seals will ensure smooth operation and prolonged longevity.
- Door locks should be checked for effective operation and for their proper adjustment to mitigate any settlement that may have occurred in the door installation.
- Any loosened screws must be tightened.

# BRICK CHART

1 metric standard brick measures:  
230mm x 110mm x 76mm  
See sketch on right.

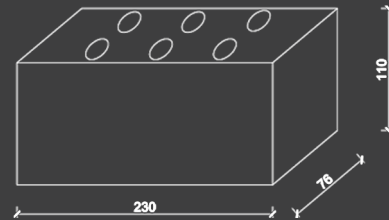


Table 2: BRICK COURSES CHART

Heights (mm)		Widths (mm)	
Number of Courses	Height of Brickwork	Number of Bricks	Opening Width
1	86	1	250
2	172	1½	370
3	257	2	490
4	343	2½	610
5	429	3	730
6	514	3½	850
7	600	4	970
8	686	4½	1090
9	772	5	1210
10	857	5½	1330
11	943	6	1450
12	1029	6½	1570
13	1114	7	1690
14	1200	7½	1810
15	1286	8	1930
16	1372	8½	2050
17	1457	9	2170
18	1543	9½	2290
19	1629	10	2410
20	1714	10½	2530
21	1800	11	2650
22	1886	11½	2770
23	1972	12	2890
24	2057	12½	3010
25	2143	13	3130
26	2229	13½	3250
27	2314	14	3370
28	2400	14½	3490
29	2486	15	3610
30	2572	15½	3730
31	2657	16	3850
32	2743	16½	3970
33	2829	17	4090
34	2914	17½	4210
35	3000	18	4330



# INDUSTRY TERMINOLOGY DEFINITIONS

## Air Infiltration

Used to describe a test required by AS 2047-1996 (the window shall not exceed air leakage requirements as specified for either air-conditioned buildings or non-air-conditioned buildings).

## Annealed Glass

Glass which is cooled gradually during manufacture in an annealing operation to reduce residual stresses and strains which can be produced during cooling.

## ABCB

Standing for Australian Building Code Board and based in Canberra, this body is charged with the responsibility of managing the Building Code of Australia.

## BCA

Building Code of Australia, document outlining building requirements in Australia, specifically concerning the health and safety of the occupants and passerbyers of buildings.

## Brick Opening

Opening size measured between the outside brick faces.

## Brick Veneer

Construction where the outside skin of the wall is brickwork and the internal wall is in a timber stud frame/structure.

## Cavity Brick

Construction where exterior and interior walls are both brickwork with a space between the walls.

## Cavity Closure

An applied section usually fitted to the inside of the jamb section that extends the frame depth so that the window section spans the cavity.

## Chair Rail

A horizontal rail fitted to windows or doors (@ aprox. 750-1000mm above floor level).

## CKD

Complete Knock Down, used to describe a window or door supplied in components only.

## Deflection Ratio

AS 2047-1996 has a max. deflection limit of span/150 for window structural members.

## Double Glazing

Where 2 panels are incorporated within the same frame, separated by an air gap and usually for the purpose of sound or thermal insulation.

## Drain Valve

A component that uses a hinged flap at the drain slot to allow water to drain out and close under wind pressure to prevent blow back of water through the drainage slots.

## Extrusion

Refers to the aluminium profiles that are used in a window.

An extrusion is produced from aluminium billet that is heated until soft and then pushed out through a die with an aperture of the shape of the section. Section is stretched for straightness and tempered before finishing.

## Flashing

A waterproof membrane which is attached to the perimeter of the window frame to prevent water from penetrating across the frame to the inside wall of the building.

## Frame

The main components that make up the window and are fixed to the building wall. These include head, sill, jamb, mullion and, transom.

## Glazing Leg

The portion of the window section which is used to retain the glass in conjunction with the bead.

## Laminated Glass

Glass which has been subjected to a special process of bonding 2 or more sheets together with 1 or more sheets of a special plastics interlayer.

## Lowlight

The portion of the window that is below the transom.

## Pipe Staunchion

A load bearing pipe support used between 2 windows.

## Rail

Horizontal sash member.

## Rating

The window pressure in Pascals that the window has to perform to. Figure is obtained by reference to the Wind code for region and site exposure. AS 2074-1996 defines rating levels from N1-N6.

## Reveals

The timber surround that is factory fitted to aluminium windows.

## Sash

The opening portion of the window.

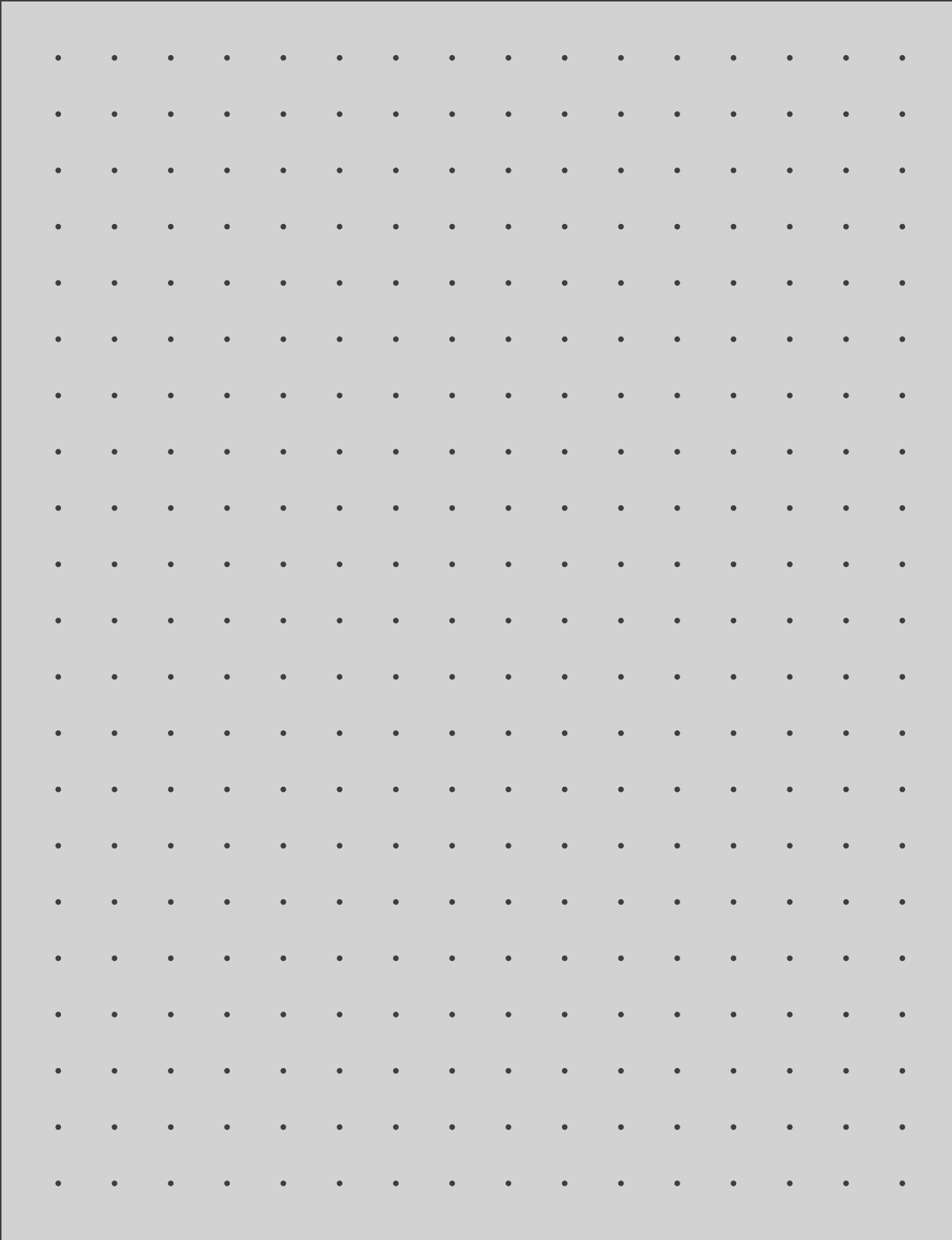
## Stile

A vertical sash member.

NOTES :

[illegible]

SKETCHES :



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