



TECHNICAL MANUAL



1800 356 980
www.austview.com.au



OUR COMPANY

Austview is a leading designer, manufacturer and installer of sashless window systems.

With over 30 years of experience, Austview has developed one of Australia's most diversified range of sashless window systems for residential, commercial and industrial applications.

Our extensive product range offers architects, builders and fabricators a unique opportunity to provide their clients with a specific solution for their sashless window and framing needs. In addition to the standard systems presented, Austview's engineering and technical staff are readily available to develop a custom solution for you.

We are focused on offering exceptional customer service, superior technical advice, a diverse product range and the highest performing sashless window system.

This technical manual is designed to assist in selecting a sashless window system that best meets your building projects' requirements.

Thankyou for choosing Austview Sashless Windows and we look forward to working with you on your next project.

OUR PRODUCTS

At Austview we are proud of our ability to combine the latest in contemporary design with the best elements of proven sashless window technology.

Austview offers a range of sashless double hung, single slide and horizontal windows in both timber and aluminium frames.

Our extensive and innovative range of sashless window systems for residential, commercial and industrial applications includes 2, 3 and 4 panel double hung sashless windows, 2, 3 and 4 panel single slide or servery sashless windows, 2 and 3 panel double glazed sashless windows, 2, 3 or 4 panel horizontal sliding sashless windows.

In addition we have developed a unique range of motorised sashless window systems.

Austview is committed to providing a superior sashless window system. We have achieved this by using quality components and engaging in an extensive design, development and testing process to produce the highest performing sashless window system. It is this that sets us apart from other sashless window manufacturers.

Our product range is fully NATA tested and certified along with being WERS energy rated.

At request, Austview Sashless Windows can comply with the requirements of air infiltration for air-conditioned buildings. All glazing is carried out to meet stringent wind loading and human impact safety glazing as set out in AS 1288. As well as the performance requirement as set out in AS 2047.

Austview staff are always available to assist in the selection of the correct solution for unique project specifications.





NATIONAL DISTRIBUTION

Austview's operations comprise manufacturing offices in both Melbourne and Sydney and a corporate office in North East Victoria.

Austview works directly with window companies, builders, home-owners and architects to provide a sashless window system that best meets a building projects' requirements. Our focus is to support the window industry through a comprehensive network of fabricators and dealers operating nation wide. For your nearest stockist outside of Victoria or NSW please contact our head office on 1800 356 980 Toll Free

TECHNICAL SUPPORT

Austview is committed to offering a wide range of technical services to support both designers and fabricators. It is this aspect that sets Austview Sashless Windows apart.

Austview's technical support includes product testing to meet or exceed the relevant standards and building codes, providing the latest 2d and 3d CAD documentation for easy input into architectural drawings, providing engineering support to customers for the correct selection of a sashless window system, providing specialised assistance in window design and glass selection and providing customised design solutions to architects, builders and contractors from project beginning to completion.

Our dedicated design and engineering team has developed detailed documentation to assist in the design and assembly of our systems. We strive to work with our customers and clients to develop new ideas and products that are easy to adapt, are cost effective to produce and install and are aesthetically appealing to both designers and building owners.

We work jointly with prominent architects and designers to develop project specifications that combine functionality, energy efficiency and Australian Building Code requirements. This often involves providing detailed section assembly drawings to suit unique requirements and providing documentation including autocad drawings, shop drawings and pdf drawings.

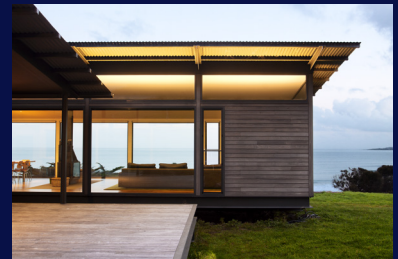
At Austview we are proud of our ability to answer queries and provide documentation quickly and efficiently.

FABRICATOR SUPPORT

Fabricator status and assistance is available for industry members outside Austviews distribution network, particularly window companies outside of New South Wales and Victoria.

Windows can be supplied in kit form allowing customers to use their own glass.

Austview fabricator support includes Austview field staff providing in factory training, fabrication manuals, technical manuals and assembly dvds as well as regular training and support in order to allow approved fabricators to have a supply only option when ordering Austview Sashless Windows.



WHAT IS A SASHLESS WINDOW?

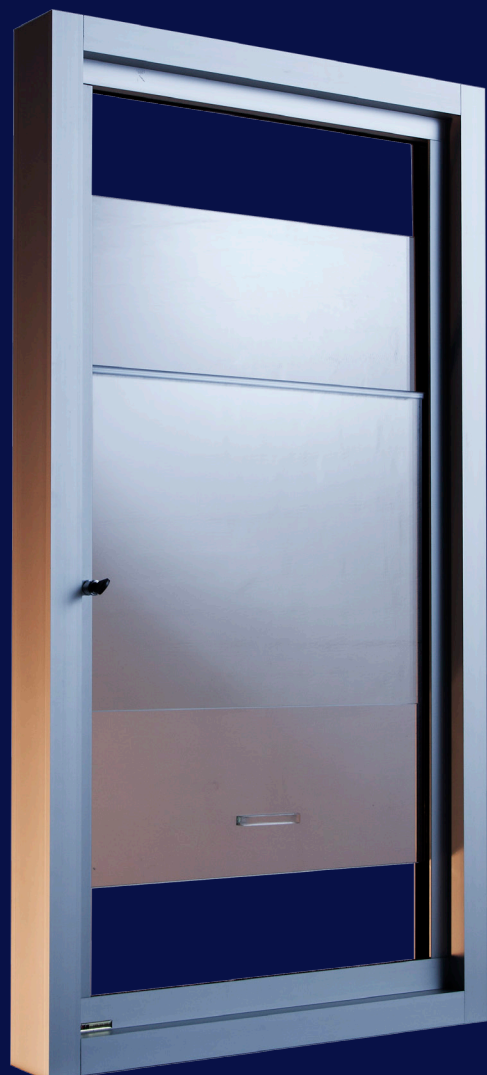
This unique window has frameless glass sashes that operate similarly to the traditional double hung windows minus the frame surrounding each glass panel. The panels or glass sashes are counter balanced with each other to slide up and down or horizontally with ease.

In the case of a single glazed system, rather than the frame obstructing your view, the sashless glass panels overlap 100mm at the centre, giving a clear, uninterrupted view while restricting airflow with a clear draft seal at the overlap.

The window is operated by a clear acrylic lift block that is bonded to the glass.

In the double glazed system, the edges of the insulated glass panel is covered by a slimline interlocking rail with a small aluminium lift tab to operate the window with ease.

Both systems can be locked in the closed or vented (100mm) position by a keyed lock.



KEY FEATURES

Performance

- Uses double seals for high air infiltration rating
- Draft seals to entire frame perimeter for improved acoustic and weather performance
- Bal40 Fire Rating capabilities
- Rigorous design, development and testing process for high performance

Appearance

- Slimline and architectural appearance
- Concealed fixings, including lock fixings
- Consistent appearance throughout the entire range
- Clear acrylic handles for uninterrupted views

Security

- Improved security with optional fly or security screen and sliding panels cannot be lifted out of frame
- Lockable in closed and partially open position
- Keyed or pin locks

Durability

- Austview Sashless Windows use aluminium glass guides for greater strength and durability
- Non-stretch spectra cord to sashes
- Stainless steel fixings
- 10 year manufacturers warranty ensuring high performance and greater durability

Versatile

- Ability to be fitted to existing or new aluminium or timber windows
- Use with 6mm, 8mm or 18mm glass thicknesses
- Using 10mm toughened glass Austview Sashless Windows can be fitted into door panels
- Available in a variety of configurations with optional head, sill and jamb details for full customisation, helping you achieve your required architectural appearance
- Adaptable to most commercial framing systems

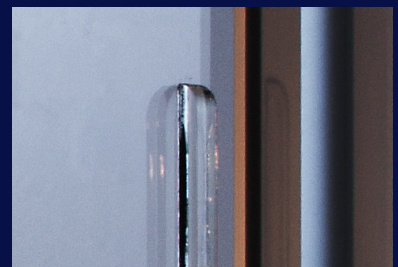
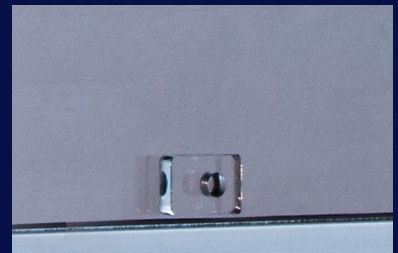
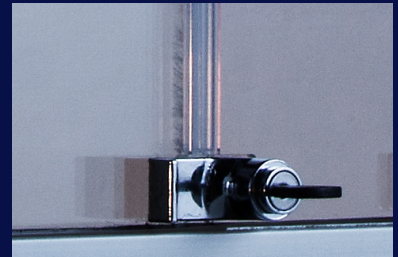
Flexible

- Optional continuous lift section to sill
- Optional fly or security screens
- Greater options for double glazed unit makeup of 18mm
- Anodised or powdercoated to any colour
- Your choice of timber covers in either Western Red Cedar or KDHW, inside and out, aluminium or a combination of both

Additional and new benefits include:

- Ability to be fixed to the Capral Genesis Frame series
- Ability to be fixed to the Capral 580 Domestic Frame series
- New acoustic and climate technology
- Improved horizontal sliders
- New ActionSashless™, a motorised sashless window perfect for higher levels
- New Thermal Break window system, for exceptional performance

Austview Sashless Windows are tested, certified, inspected and guaranteed in accordance with AWA's (Australian Window Association) window and door performance accreditation system.





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STANDARD DOUBLE HUNG SASHLESS WINDOW - SUITS 6MM, 8MM OR 10MM GLASS

2.1 Features and Specifying Text

ALUMINIUM

2.3	Austview Sashless Double Hung, Fixed to Capral 300 Series Frame	Head, Sill and Jamb
2.4	Austview Sashless Double Hung, Fixed to Capral 400 Series Frame	Head, Sill and Jamb
2.5	Austview Sashless Double Hung, Fixed to Capral 600 Series Frame	Head, Sill and Jamb
2.6	Austview Sashless Double Hung, Fixed to Capral 300/400/600 Frame	Mullion with Double Sashes
2.7	Austview Sashless Double Hung, Fixed to Capral 309 Series Frame	Head, Sill and Jamb
2.8	Austview Sashless Double Hung, Fixed to Capral 409 Series Frame	Head, Sill and Jamb
2.9	Austview Sashless Double Hung, Fixed to Capral 609 Series Frame	Head, Sill and Jamb
2.10	Austview Sashless Double Hung, Fixed to Capral 309/409/609 Frame	Mullion with Double Sashes
2.11	Austview Sashless Double Hung, Fixed to Olympic & Alspec 400 Series Frame	Head, Sill and Jamb
2.12	Austview Sashless Double Hung, Fixed to Vantage Magnum Series Frame	Head, Sill and Jamb
2.13	Austview Sashless Double Hung, Fixed to Capral Genesis 80mm Frame	Head, Sill and Jamb
2.14	Austview Sashless Double Hung, Fixed to Capral St. Lucia 406 Series Frame	Head, Sill and Jamb
2.15	Austview Sashless Double Hung, Fixed to Capral 50 Series Frame	Head, Sill and Jamb
2.16	Austview Sashless Acoustic Double Hung, Fixed to Capral 419 Flushline Frame	Head, Sill and Jamb
2.17	Austview Sashless Domestic Double Hung, Fixed to Capral 580 Domestic Series	Head, Sill and Jamb

ALUMINIUM DOOR

2.18	Austview Sashless Double Hung, Fixed to Capral 200 Series Door	Top Rail, Bottom Rail and Stile
2.19	Austview Sashless Double Hung, Fixed to Artisan Door Suite	Head, Sill and Jamb

TIMBER

2.20	Austview Sashless Timber Double Hung, Fixed to Timber Series Frame	Head, Sill and Jamb
2.21	Austview Sashless Timber Double Hung, Fixed to Timber Series Frame	Kick Rail, Head, Sill and Jamb
2.22	Austview Sashless Double Hung, Fixed to Timber Series Frame	Head, Sill and Jamb
2.23	Austview Sashless Double Hung, Fixed to Timber Series Frame	Kick Rail, Head, Sill and Jamb
2.24	Austview Sashless Double Hung, Fixed to Timber Door	Top Rail, Bottom Rail and Stile

(For double glazed configurations, refer to Double Glazed section)
 (For ActionSashless™ (motorised), refer to ActionSashless™ section)

STANDARD DOUBLE HUNG DOUBLE GLAZED SASHLESS WINDOW - SUITS 18MM IGU GLASS

3.1 Features and Specifying Text

ALUMINIUM

3.3	Austview Sashless Double Glazed Double Hung, Fixed to Capral 400 Series Frame	Head, Sill and Jamb
3.4	Austview Sashless Double Glazed Double Hung, Fixed to Capral 425 Series Frame	Head, Sill and Jamb
3.5	Austview Sashless Double Glazed Double Hung, Fixed to Capral 419 Flushline Frame	Head, Sill and Jamb
3.6	Austview Sashless Double Glazed Double Hung, Fixed to Genesis 80mm Frame	Head, Sill and Jamb

ALUMINIUM DOOR

3.7	Austview Sashless Double Glazed Double Hung, Fixed to Capral 200 Series Door	Top Rail, Bottom Rail and Stile
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TIMBER

3.8	Austview Sashless Timber (Inside Only) Double Glazed Double Hung, Fixed to Timber Frame	Head, Sill and Jamb
3.9	Austview Sashless Timber Double Glazed Double Hung, Fixed to Timber Frame	Head, Sill and Jamb
3.10	Austview Sashless Double Glazed Double Hung, Fixed to Timber Door	Top Rail, Bottom Rail and Stile

(For double glazed configurations other than double hung, refer to relevant section. e.g Horizontal Slider)

SINGLE SLIDE & SERVERY SASHLESS WINDOW - SUITS 6MM, 8MM, 10MM OR 18MM IGU GLASS

4.1 Features and Specifying Text

ALUMINIUM

4.3	Austview Sashless Single Slide Window, Fixed to Capral 400 Series Frame	Head, Sill and Jamb
4.4		Optional Jamb and Mullion
4.5	Austview Sashless Servery Window, Fixed to Capral 400 Series or Timber Frame	Head, Sill and Jamb
4.6	Austview Sashless Double Glazed Single Slide Window, Fixed to Capral 400 Series Frame	Head, Sill and Jamb
4.7		Optional Jamb and Mullion
4.8	Austview Sashless Double Glazed Servery Window, Fixed to Capral 400 Series or Timber Frame	Head, Sill and Jamb

3 PANEL SASHLESS WINDOW - SUITS 6MM, 8MM, 10MM OR 18MM IGU GLASS

5.1 Features and Specifying Text

ALUMINIUM

5.3	3 Panel Austview Sashless Window Bottom Fixed, Fixed to Capral 400 Series Frame	Head, Sill and Jamb
5.4	3 Panel Austview Sashless Window Top Fixed, Fixed to Capral 400 Series Frame	Head, Sill and Jamb
5.5	3 Panel Austview Sashless Windows, Centre Fixed, Fixed to Capral 400 Series Frame	Head, Sill and Jamb
5.6	3 Panel Austview Sashless Double Glazed Bottom Fixed, Fixed to Capral 400 Series Frame	Head, Sill and Jamb
5.7	3 Panel Austview Sashless Double Glazed Bottom Fixed, Fixed to Capral 400 Series Frame	Head, Sill, Transom and Jamb

TIMBER

5.8	3 Panel Austview Sashless Timber Window Top Fixed, Fixed to Timber Frame	Head, Sill and Jamb
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4 PANEL SASHLESS WINDOW - SUITS 6MM, 8MM, 10MM OR 18MM IGU GLASS

6.1 Features and Specifying Text

ALUMINIUM

6.3	4 Panel Austview Sashless Window, Fixed to Capral 400 Series Frame	Typical Elevation, Head and Sill
6.4		Jamb and Overlap
6.5		Jamb and Overlap
6.6	4 Panel Austview Sashless Double Glazed Window, Fixed to Capral 600 Series Frame	Head, Sill and Jamb

HORIZONTAL SASHLESS WINDOW - SUITS 6MM, 8MM, 10MM OR 18MM IGU GLASS

7.1 Features and Specifying Text

ALUMINIUM

7.3	Austview Sashless Horizontal Slider (6mm Glass), Fixed to Capral 400 Series	Head, Sill and Jamb
7.4	Austview Sashless Horizontal Slider (10mm Glass), Fixed to Capral 400 Series	Head, Sill and Jamb
7.5	Austview Sashless Double Glazed Horizontal Slider, Fixed to Capral 400 Series Frame	Head, Sill and Jamb

TIMBER

7.6	Austview Sashless Timber Horizontal Slider (6mm Glass), Fixed to Timber Frame	Head, Sill and Jamb
7.7	Austview Sashless Timber Double Glazed Horizontal Slider, Fixed to Timber Frame	Head, Sill and Jamb

ACTION SASHLESS™ - SUITS 6MM, 8MM, 10MM OR 18MM IGU GLASS

8.1 Features and Specifying Text

ALUMINIUM

- | | | |
|-----|--|---------------------|
| 8.3 | Austview ActionSashless™ Double Hung or Single Slide, Fixed to Capral 400 Series Frame | Head, Sill and Jamb |
| 8.4 | Austview ActionSashless™ Horizontal Slider, Fixed to Capral 400 Series Frame | Head, Sill and Jamb |
| 8.5 | Austview ActionSashless™ Double Glazed Double Hung or Single Slide | Head, Sill and Jamb |
| 8.6 | Austview ActionSashless™ Double Glazed Horizontal Slider, Fixed to Capral 400 Series Frame | Head, Sill and Jamb |

BAL40 SASHLESS WINDOW - SUITS 6MM, 8MM, 10MM OR 18MM IGU GLASS

9.1 Features and Specifying Text

ALUMINIUM

- | | | |
|-----|---|---------------------|
| 9.3 | Austview Sashless BAL40 Double Hung, Fixed to Capral 400 Series | Head, Sill and Jamb |
| 9.4 | Austview Sashless BAL40 Horizontal Slider (6mm Glass), Fixed to Capral 400 Series | Head, Sill and Jamb |
| 9.5 | Austview Sashless BAL40 Horizontal Slider (10mm Glass), Fixed to Capral 400 Series | Head, Sill and Jamb |
| 9.6 | Austview Sashless BAL40 Double Glazed Double Hung, Fixed to Capral 400 Series | Head, Sill and Jamb |
| 9.7 | Austview Sashless BAL40 Double Glazed Horizontal Slider, Fixed to Capral 400 Series Frame | Head, Sill and Jamb |

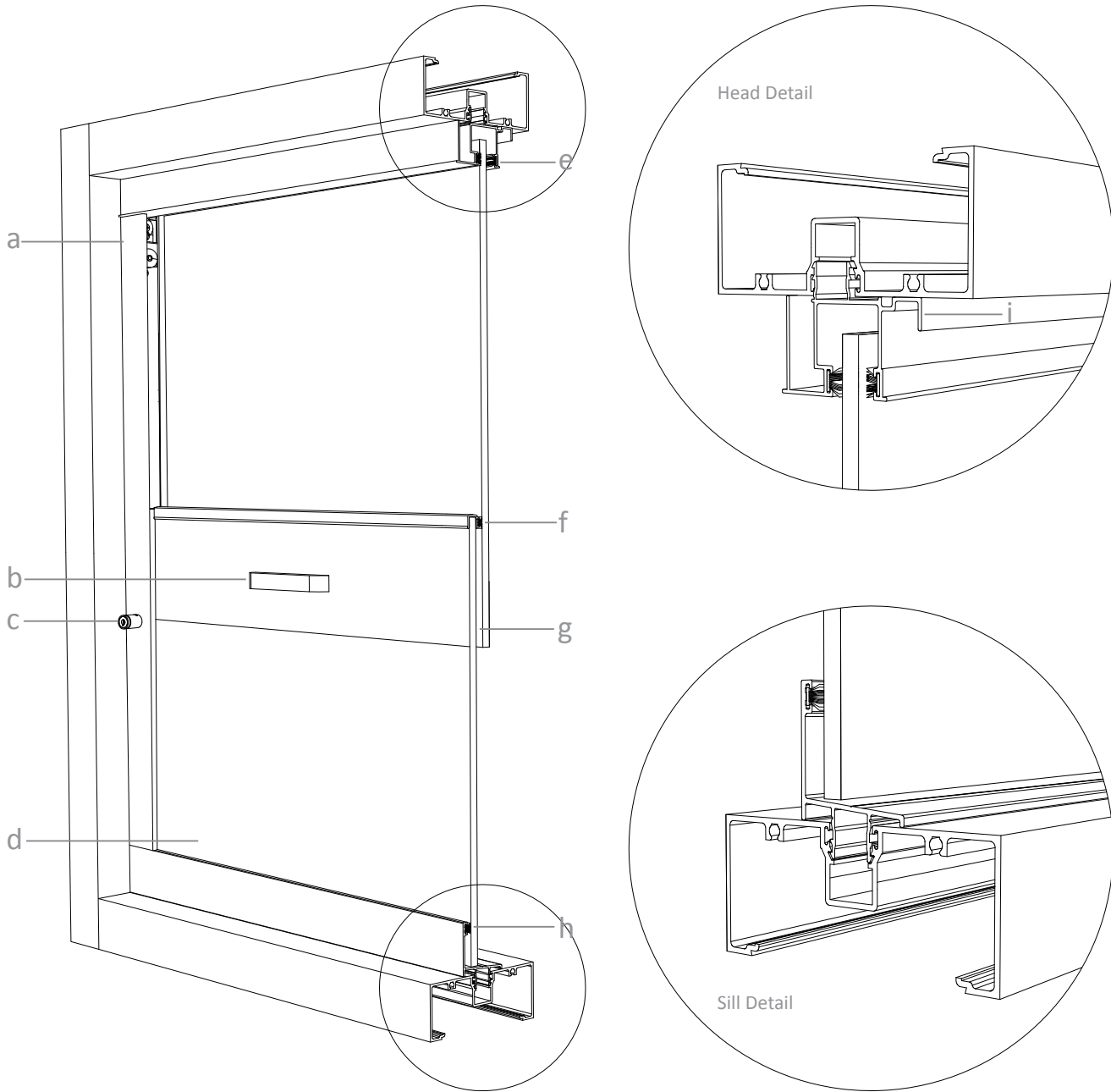
THERMAL BREAK SASHLESS WINDOW - SUITS 18MM IGU

10.1 Features and Specifying Text

ALUMINIUM

- | | | |
|------|---|---------------------|
| 10.3 | Austview Sashless Thermal Break Double Hung, Fixed to Thermal Break Frame | Head, Sill and Jamb |
| 10.4 | Austview Sashless Thermal Break Horizontal Slider, Fixed to Thermal Break Frame | Head, Sill and Jamb |

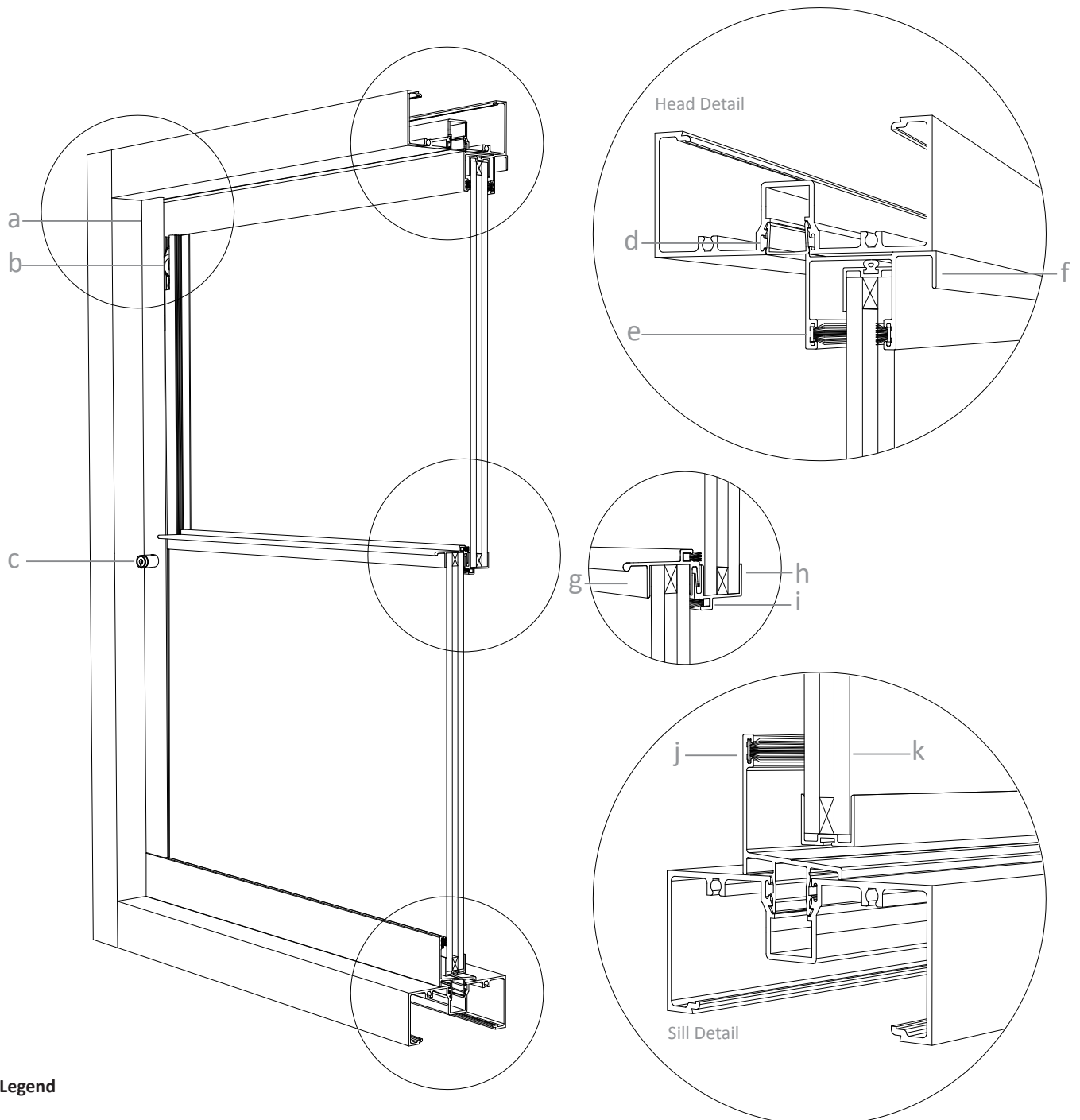
SINGLE GLAZED SASHLESS WINDOW SYSTEM



Legend

- a. Double Sealed Sash Stiles (Higher Draft Sealing Performance)
- b. Acrylic Lift Block (2 for widths greater than 900mm)
- c. Keyed or Pin Lock (Optional)
- d. Optional Placement of Acrylic Lift Blocks, Optional Lift Rail Placement
- e. Integral Draft Seal to Head
- f. Draft Seal to Overlap
- g. 100mm Glass Overlap
- h. Integral Draft Seal to Sill
- i. Flyscreen, Supascreen (Optional)

DOUBLE GLAZED SASHLESS WINDOW SYSTEM

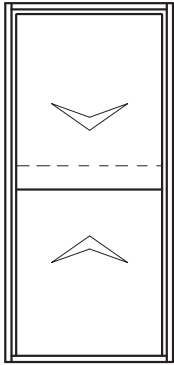


Legend

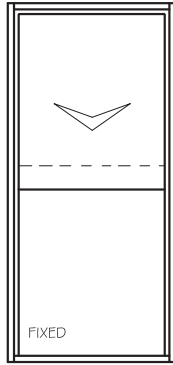
- a. Double Sealed Sash Stiles (Higher Draft Sealing Performance)
- b. High Performance, Heavy Duty Pulley
- c. Keyed or Pin Lock with 6mm Extension Pin (Optional)
- d. Colour Matched Pocket Filler (By Others)
- e. Integral Draft Seal to Head
- f. Flyscreen, Supa Screen (Optional)
- g. Interlocking Lift Rail.
- h. Interlocking Sash Rail.
- i. Draft Seal to Overlap
- j. Integral Draft Seal to Sill
- k. 18mm Insulated Glass Unit

AVAILABLE WINDOW CONFIGURATIONS

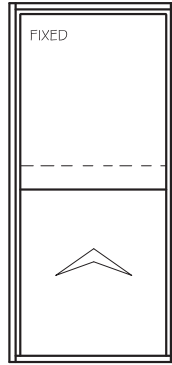
2 PANEL SASHLESS WINDOW



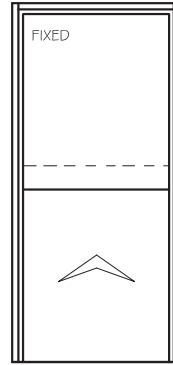
STANDARD DOUBLE HUNG
2P



SINGLE SLIDE
BOTTOM FIXED
2PBF

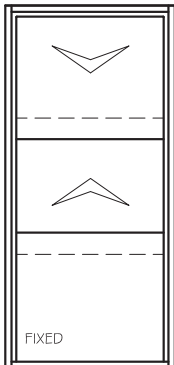


SINGLE SLIDE
TOP FIXED
2PTF

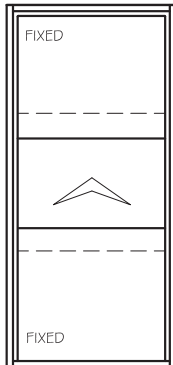


SINGLE SLIDE SERVERY
(NO SILL)
2PS

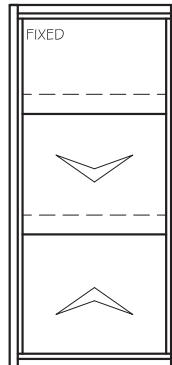
3 PANEL SASHLESS WINDOW



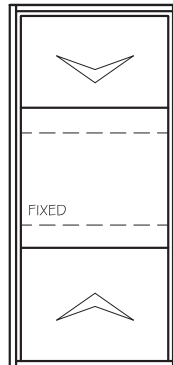
3 PANEL DOUBLE HUNG
BOTTOM FIXED
3PBF



3 PANEL SINGLE SLIDE
TOP AND BOTTOM FIXED
3PTBF

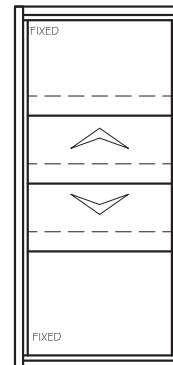


3 PANEL DOUBLE HUNG
TOP FIXED
3PTF

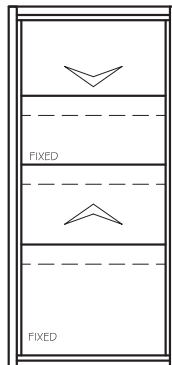


3 PANEL DOUBLE HUNG
CENTRE FIXED
3PCF

4 PANEL SASHLESS WINDOW

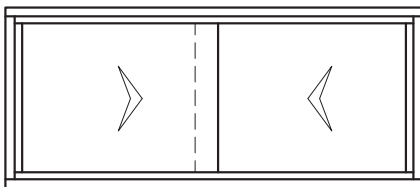


4 PANEL DOUBLE HUNG
TOP AND BOTTOM FIXED
4PTBF

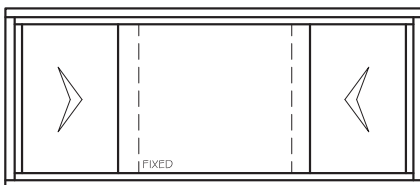


4 PANEL DOUBLE HUNG
BOTTOM AND CENTRE FIXED
4PBCF

HORIZONTAL SASHLESS WINDOW



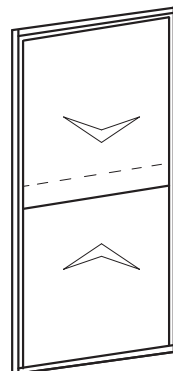
HORIZONTAL SLIDER
2 PANEL
2PH



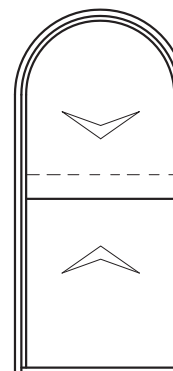
HORIZONTAL SLIDER
3 PANEL
3PH

HEAD AND SILL OPTIONS

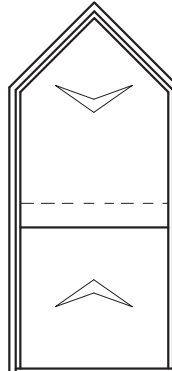
RAKED (HEAD AND/OR SILL)



ARCHED



TWO WAY RAKED



PRODUCT SELECTOR

Determine Type of Window

Austview Sashless Windows are available in various configurations. (See Available Configurations Page)

- Standard Double Hung - 6mm, 8mm or 10mm Glass
- Standard Double Hung to Timber or Aluminium Door - 6mm, 8mm or 10mm Glass
- Raked or Arched Double Hung - 6mm, 8mm, 10mm or 18mm IGU
- Counter Servery - 6mm, 8mm, 10mm or 18mm IGU
- Single Slider - 6mm, 8mm, 10mm or 18mm IGU
- Single Slider - Multi Storey - 6mm, 8mm, 10mm or 18mm IGU
- 3 Panel Double Hung - Top or Bottom Fixed - 6mm, 8mm, 10mm or 18mm IGU
- 4 Panel Double Hung - Various Fixed - 6mm, 8mm or 10mm Glass
- Other Double Glazed - 18mm IGU
- Acoustic - 6mm, 8mm, 10mm or 18mm IGU
- Horizontal 2 Panel or 3 Panel Slider - 6mm, 8mm, 10mm or 18mm IGU
- Austview ActionSashless™ (motorised) - 6mm, 8mm, 10mm or 18mm IGU

Determine Size of Window

The determined height and width of the required window are the overall dimensions of the outer frame to which the Austview Sashless Window, or sometimes called insert, is inserted into.

The compatible frames to which Austview Sashless Windows are available to be inserted into are listed in the index and are available for viewing in the drawing section of this manual.

For any frame types that are not listed in this Technical Manual please call 1800 356 980 Toll Free

The Austview Sashless Window insert is a lesser dimension allowing for the thickness of the outer frames.

Larger sized windows generally need to be site glazed and installed.

For more information on maximum/minimum height and width see Test Report Summaries

For a direct order or a quotation we recommend daylight sizes be given.

Determine the Appropriate Window Rating

The performance of a window depends on its geographic location, terrain, topography and the amount of localised shelter. These factors are summarised below from AS 2047-1999 for Type of Building - Housing

Window Rating	Test Pressure	Water Penetration
N1	500	150
N2	700	150
N3, C1	1000	150
N4, C2	1500	200
N5, C3	2200	300
N6, C4	3000	450

The appropriate window rating number must be provided at the time of quoting or ordering windows.

Austview Sashless Windows are rated in summary as follows:

Window Type/Description	Window Rating	Strength/Pressure	Water Penetration
Standard Aluminium Double Hung Sashless Window	N5	3300 Pa.	350 Pa.
Aluminium Single Slide Sashless Window	N5	3300 Pa.	350 Pa.
580 Domestic Aluminium Double Hung Sashless Window	N4	2300 Pa.	200 Pa.
Standard Timber Double Hung Sashless Window	N4	2300 Pa.	250 Pa.
Timber Single Slide Sashless Window	N4	2300 Pa.	250 Pa.
Aluminium Double Glazed Double Hung Sashless Window	N4	2300 Pa.	250 Pa.
Timber Double Glazed Double Hung Sashless Window	N4	2300 Pa.	200 Pa.
Austview Sashless Horizontal Slider	N4*	2300 Pa.*	250 Pa.*

** The Austview Sashless Horizontal Slider was being tested at time of printing. The above figures for this window are an estimate only.*

PRODUCT SELECTOR

Glass Selection - Single Glazed Double Hung Sashless

Single Glazed Units

Austview Sashless single glazed windows are available using 6mm, 8mm or 10mm glass.

Thickness of glass required is selected in accordance with AS1288-2006 "Glass in Buildings - Selection & Installation" and the relevant wind loading category.

For more information refer to "Glass Thickness Calculated For Stress/Deflection At ULS Wind Pressure - Two-Edge Support" tables.

4.1/5.5 for Annealed (Float) Glass

4.2/5.6 for Laminated Safety Glass

4.4/5.8 for Toughened Glass.

The following information is provided as a guide only.

Glass Thickness/Type	Max Width at 0.7 Kpa.	Max Width at 0.9 Kpa.
6mm Annealed (Float)	1200mm	1050mm
6.38mm Laminated	1200mm	1050mm
6mm Toughened	1250mm	1100mm
8.38mm Laminated	1500mm	1350mm
8mm Toughened	1650mm	1500mm
10.38mm Laminated	1950mm	1800mm
10mm Toughened	2100mm	1950mm

For more information on maximum dimensions for Austview Sashless Windows please call 1800 356 980 Toll Free

Glass Selection - Double Glazed Double Hung Sashless

Double Glazed Units

Austview Sashless double glazed windows are available using up to 18mm insulated glass units (IGU's). This gives the designer greater options of air space (maximum 10mm) and glass thicknesses.

Thickness of glass required is selected in accordance with AS1288-2006 "Glass in Buildings - Selection & Installation" and the relevant wind loading category.

The following information is provided as a guide only.

Glass Thickness/Type	Max Width at 0.7 Kpa.	Max Width at 0.9 Kpa.
4/10/4 Float	1125mm	1125mm
6.38/6/6.38 Laminated	1200mm	1200mm
4/10/4 Toughened	1300mm	1200mm
6/6/6 Toughened	1500mm	1350mm

Austview Sashless Double Glazed Counter-Balanced Windows comply with AS4666-2000. Insulated glass units (IGU's) can significantly cut heat transfer due to the trapped sealer air space acting as an insulator.

Other Benefits of Insulated Glass Unit's or Double Glazing are:

- Grade A Safety Glass
- Eliminates 99% of UV Light
- Reduces Fading
- Reduces Heat Loss - Warmer in Winter
- Reduces Heat Gain - Cooler in Summer
- Reduces Noise Transmission

High Performance Glass types can also be used in the makeup of an IGU.

For more information on Insulated Glass Unit's (IGU's) go to Marbletex's website www.marbletexglass.com

For more information on glass types and high performance glass go to Viridian's website www.viridianglass.com

For more information on Determining the Appropriate Window Rating See Test Report Summaries

Please request details from Austview Sashless Window Technical Representative if the window rating requirement exceeds N5.

ENERGY

Window Energy Rating Scheme (WERS)

*the following information is courtesy of AWA's Windows & Door Performance Accreditation Guide

WERS rates the energy impact of residential and commercial windows in homes and buildings. The aim of the scheme is to help consumers evaluate the relative energy performance of different types of windows. WERS is an independent scheme owned by the Australian Window Association with the full support of the window industry.

U-Value & Solar Heat Gain Coefficient

U-Value (U_w) measure how readily a product conducts heat. It is the measure of the rate of non-solar heat loss or gain through a material or assembly. The rate of heat is indicated in the terms of the U-Value of a window assembly which includes the effect of the frame, glass, seals and any spacers. **The lower the U-Value, the greater a window's resistance to heat flow and the better its insulating value.**

Solar Heat Gain Coefficient (SHGC_w) measures how readily heat caused by sunlight flows through a product. The SHGC is the fraction of incident solar radiation admitted through a window, both directly transmitted, and absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. **The lower a window's SHGC, the less solar heat it transmits.**

A positive percentage improvement figure indicates performance better than the base-case window.

STANDARD DOUBLE HUNG SASHLESS WINDOW, FIXED TO CAPRAL 400 SERIES (SINGLE GLAZED)

NAME	GLASS	U_w	SHGC _w	Tvis _w	COOL	HEAT
AVW-003-001-01-6Clr	6mm Clear	6.2	0.63	0.65	23%	15%
AVW-003-001-02-6Gy	6mm Grey	6.2	0.45	0.31	38%	6%
AVW-003-001-03-6SpGy	6mm SuperGrey	6.2	0.28	0.06	49%	-4%
AVW-003-002-01-6EV	6mm EVantage Clear	4.8	0.49	0.50	42%	27%
AVW-003-002-02-6ET	6mm Energy Tech Clear	4.6	0.53	0.60	39%	31%
AVW-003-004-01-638Sx	6.38mm Clear Laminate	6.1	0.61	0.65	26%	15%
AVW-003-004-02-638CPClr	6.38mm ComfortPlus Clear Laminate	4.6	0.52	0.61	40%	31%
AVW-003-004-03-638CPGy	6.38mm ComfortPlus Grey Laminate	4.6	0.38	0.29	50%	23%
AVW-003-005-01-876ESITOGn	8.76mm EnviroShield ITO Green	4.5	0.35	0.51	53%	23%
AVW-003-006-01-1038Sx	10.38mm Clear Laminate	6.0	0.58	0.64	29%	15%
AVW-003-007-01-1038EV	10.38mm EVantage Clear	4.6	0.45	0.49	46%	27%
AVW-003-007-02-1038CPClr	10.38mm ComfortPlus Clear Laminate	4.5	0.49	0.59	43%	31%

STANDARD TIMBER DOUBLE HUNG SASHLESS WINDOW, FIXED TO TIMBER FRAME (SINGLE GLAZED)

NAME	GLASS	U_w	SHGC _w	Tvis _w	COOL	HEAT
AVW-001-001-01-6Clr	6mm Clear	4.9	0.64	0.68	28%	32%
AVW-001-001-02-6Gy	6mm Grey	4.9	0.45	0.32	44%	23%
AVW-001-001-03-6SpGy	6mm SuperGrey	4.9	0.28	0.07	56%	13%
AVW-001-002-01-6EV	6mm EVantage Clear	3.4	0.49	0.53	48%	43%
AVW-001-002-02-6ET	6mm Energy Tech Clear	3.3	0.54	0.63	45%	48%
AVW-001-004-01-638Sx	6.38mm Clear Laminate	4.9	0.62	0.68	31%	32%
AVW-001-004-02-638CPClr	6.38mm ComfortPlus Clear Laminate	3.2	0.53	0.63	46%	47%
AVW-001-004-03-638CPGy	6.38mm ComfortPlus Grey Laminate	3.3	0.39	0.30	56%	39%
AVW-001-005-01-876ESITOGn	8.76mm EnviroShield ITO Green	3.2	0.36	0.53	59%	38%
AVW-001-006-01-1038Sx	10.38mm Clear Laminate	4.8	0.59	0.67	33%	32%
AVW-001-007-01-1038EV	10.38mm EVantage Clear	3.3	0.45	0.51	51%	42%
AVW-001-007-02-1038CPClr	10.38mm ComfortPlus Clear Laminate	3.2	0.50	0.61	49%	46%

ENERGY

DOUBLE GLAZED DOUBLE HUNG SASHLESS WINDOW, FIXED TO CAPRAL 400 SERIES (DOUBLE GLAZED)

NAME	GLASS	U _w	SHGC _w	Tvis _w	COOL	HEAT
AVW-004-001-01-4-10Ar-4	4mm Clear/10mm Argon Gap/4mm Clear	4.1	0.59	0.62	37%	40%
AVW-004-002-01-4-10Ar-4ET	4mm Clear/10mm Argon Gap/4mm EnergyTech Clr	3.5	0.56	0.57	43%	46%
AVW-004-003-01-4ET-10Ar-4ET	4mm EnergyTech/10mm Argon Gap/4mm EnergyTech Clr	3.4	0.49	0.53	49%	44%
AVW-004-004-01-4-8Ar-6ET	4mm Clear/8mm Argon Gap/6mm EnergyTech Clr	3.6	0.55	0.56	43%	44%
AVW-004-004-02-4-8Ar-6EV	4mm Clear/8mm Argon Gap/6mm EVantage Clr	3.7	0.50	0.48	46%	41%
AVW-004-005-01-6SpGy-6Ar-6	6mm SuperGrey/6mm Argon Gap/6mm Clear	4.3	0.19	0.06	65%	15%
AVW-004-006-01-6LoE366-6Ar-6	6mm LoE 366/6mm Argon Gap/6mm Clear	3.6	0.24	0.48	65%	26%
AVW-004-007-01-6LoE366-6Ar-6ET	6mm LoE 366/6mm Argon Gap/6mm EnergyTech Clr	3.6	0.23	0.44	65%	26%
AVW-004-007-02-6-6Ar-6ET	6mm Clear/6mm Argon Gap/6mm EnergyTech Clr	3.8	0.53	0.56	44%	41%
AVW-004-007-03-6-6Ar-6Sn	6mm Clear/6mm Argon Gap/6mm Sunergy Clr	3.9	0.50	0.46	45%	38%
AVW-004-008-01-4-8Ar-638CPClr	4mm Clear/8mm Argon Gap/6.38mm ComfortPlus Clear	3.6	0.55	0.57	43%	44%
AVW-004-009-01-638Sx-6Ar-638Sx	6.38mm Clr Lam/6mm Argon Gap/6.38mm Clr Laminate	4.2	0.54	0.61	41%	36%

TIMBER DOUBLE GLAZED DOUBLE HUNG SASHLESS WINDOW, FIXED TO TIMBER FRAME (DOUBLE GLAZED)

NAME	GLASS	U _w	SHGC _w	Tvis _w	COOL	HEAT
AVW-002-001-01-4-10Ar-4	4mm Clear/10mm Argon Gap/4mm Clear	2.9	0.60	0.63	42%	54%
AVW-002-002-01-4-10Ar-4ET	4mm Clear/10mm Argon Gap/4mm EnergyTech Clr	2.2	0.56	0.59	49%	60%
AVW-002-003-01-4ET-10Ar-4ET	4mm EnergyTech/10mm Argon Gap/4mm EnergyTech Clr	2.1	0.49	0.54	55%	57%
AVW-002-004-01-4-8Ar-6ET	4mm Clear/8mm Argon Gap/6mm EnergyTech Clr	2.4	0.55	0.58	48%	58%
AVW-002-004-02-4-8Ar-6EV	4mm Clear/8mm Argon Gap/6mm EVantage Clr	2.4	0.50	0.49	52%	55%
AVW-002-005-01-6SpGy-6Ar-6	6mm SuperGrey/6mm Argon Gap/6mm Clear	3.1	0.18	0.06	71%	28%
AVW-002-006-01-6LoE366-6Ar-6	6mm LoE 366/6mm Argon Gap/6mm Clear	2.4	0.23	0.49	71%	39%
AVW-002-007-01-6LoE366-6Ar-6ET	6mm LoE 366/6mm Argon Gap/6mm EnergyTech Clr	2.4	0.22	0.45	72%	39%
AVW-002-007-02-6-6Ar-6ET	6mm Clear/6mm Argon Gap/6mm EnergyTech Clr	2.6	0.53	0.57	50%	55%
AVW-002-007-03-6-6Ar-6Sn	6mm Clear/6mm Argon Gap/6mm Sunergy Clr	2.7	0.50	0.47	51%	52%
AVW-002-008-01-4-8Ar-638CPClr	4mm Clear/8mm Argon Gap/6.38mm ComfortPlus Clear	2.3	0.55	0.58	49%	58%
AVW-002-009-01-638Sx-6Ar-638Sx	6.38mm Clr Lam/6mm Argon Gap/6.38mm Clr Laminate	3.0	0.54	0.62	46%	50%

SINGLE GLAZED SASHLESS DOUBLE HUNG WINDOW

Test Information

Test Window Size: 2100mm high x 900mm wide

Physical test taken at Ian Bennie & Associates, 2nd August 2000

Test Report Number: 9926S2

Physical Performance

Approved to: AS4420-1996 (as called up by AS2047-1999)

Water Penetration: 150pa.

Ultimate Strength: +1500 Pa. -1500 Pa.

Air Infiltration Rating: Air conditioned & Non-Air conditioned Buildings

0.91 L/s.m2	@	+75 Pa.
1.52 L/s.m2	@	+150 Pa.
-0.75 L/s.m2	@	-75 Pa.
-1.10 L/s.m2	@	-150 Pa.

Window Panel Specifications

Maximum Sash Height: 3600mm
Minimum Sash Height: 800mm
Sash Width: 150-1800mm

Maximum Sash Panel Weight: 35kg

Glass Thickness

6mm, 8mm & 10mm

Conclusion

Housing Ratings:

N3

Residential Building Ratings:

Region A +500 & -867 Pa.
Regions B & C +500 & -600 Pa.

Commercial Building Ratings:

Region A +500 & -867 Pa.
Regions B & C +500 & -600 Pa.

ALUMINIUM SASHLESS DOUBLE HUNG

Test Information

Test Window Size: 2100mm high x 900mm wide

Physical test taken at Ian Bennie & Associates, 20th June 2002

Test Report Number: 20206S4

Physical Performance

Approved to: AS4420-1996 (as called up by AS2047-1999)

Water Penetration: 350pa.

Ultimate Strength: +3300 Pa. -3300 Pa.

Air Infiltration Rating: Non-Air conditioned Buildings Only

1.83 L/s.m ²	@	+75 Pa.
2.76 L/s.m ²	@	+150 Pa.
-1.61 L/s.m ²	@	-75 Pa.
-2.45 L/s.m ²	@	-150 Pa.

Window Panel Specifications

Maximum Sash Height: 3600mm
 Minimum Sash Height: 800mm
 Sash Width: 150-1800mm

Maximum Sash Panel Weight: 45kg

Glass Thicknesses

6mm, 8mm & 10mm

Conclusion

Housing Ratings:

Regions A & B	N5
Region C	+1167 & -1320 Pa.
Region D	+1138 & -1138 Pa.

Residential Building Ratings:

Region A	+1167 & -1908 Pa.
Regions B & C	+1167 & -1320 Pa.
Region D	+1138 & -1138 Pa.

Commercial Building Ratings:

Region A	+1167 & -1908 Pa.
Regions B & C	+1167 & -1320 Pa.
Region D	+1138 & -1138 Pa.

Building Classifications & Housing limitations are summarised in Appendix A of the Test Report. Regions are as per AS1170.2

CAPRAL 580 SASHLESS DOUBLE HUNG WINDOW**Test Information**

Test Window Size: 1800mm high x 800mm wide

Physical test taken at Ian Bennie & Associates, 26th February 2004

Test Report Number: 20324S1

Physical Performance

Approved to: AS4420-1996 (as called up by AS2047-1999)

Water Penetration: 200pa.

Ultimate Strength: +2300 Pa. -2300 Pa.

Air Infiltration Rating: Non-Air conditioned Buildings Only

2.20 L/s.m ²	@	+75 Pa.
3.87 L/s.m ²	@	+150 Pa.
-2.10 L/s.m ²	@	-75 Pa.
-5.00 L/s.m ²	@	-150 Pa.

Window Panel Specifications

Maximum Sash Height: 2400mm
Minimum Sash Height: 800mm
Sash Width: 150-1500mm

Maximum Sash Panel Weight: 35kg

Glass Thicknesses

6mm & 8mm

Conclusion

Housing Ratings:

Regions A & B	N4
Region C	+670 & -980 Pa.
Region D	+670 & -770 Pa.

Residential & Commercial Building Ratings:

Region A	+670 & -1550 Pa.
Region B	+670 & -1020 Pa.
Region C	+670 & -980 Pa.
Region D	+670 & -770 Pa.



TIMBER SASHLESS DOUBLE HUNG WINDOW

Test Information

Test Window Size: 2100mm high x 900mm wide

Physical test taken at Ian Bennie & Associates, 20th June 2002

Test Report Number: 2020655

Physical Performance

Approved to: AS4420-1996 (as called up by AS2047-1999)

Water Penetration: 250pa.

Ultimate Strength: +2300 Pa. -2300 Pa.

Air Infiltration Rating: Non-Air conditioned Buildings Only
 1.69 L/s.m2 @ +75 Pa.
 2.61 L/s.m2 @ +150 Pa.
 -1.70 L/s.m2 @ -75 Pa.
 -2.61 L/s.m2 @ -150 Pa.

Window Panel Specifications

Maximum Sash Height: 3600mm
 Minimum Sash Height: 800mm
 Sash Width: 150-1800mm

Maximum Sash Panel Weight: 45kg

Glass Thicknesses

6mm, 8mm & 10mm

Conclusion

Housing Ratings:

Regions A & B N4
 Region C +883 & -920 Pa.
 Region D +793 & -793 Pa.

Residential Building Ratings:

Region A +833 & -1329 Pa.
 Regions B & C +833 & -920 Pa.
 Region D +793 & -793 Pa.

Commercial Building Ratings:

Region A +833 & -1329 Pa.
 Regions B & C +833 & -920 Pa.
 Region D +793 & -793 Pa.

Building Classifications & Housing limitations are summarised in Appendix A of the Test Report. Regions are as per AS1170.2

SASHLESS DOUBLE HUNG, DOUBLE GLAZED WINDOW

Test Information

Test Window Size: 2100mm high x 900mm wide

Physical test taken at Ian Bennie & Associates, 26th February 2004

Test Report Number: 20324S3

Physical Performance

Approved to: AS4420-1996 (as called up by AS2047-1999)

Water Penetration: 250pa.

Ultimate Strength: +2300 Pa. -2300 Pa.

Air Infiltration Rating: Non-Air conditioned Buildings Only

1.16 L/s.m ²	@	+75 Pa.
1.82 L/s.m ²	@	+150 Pa.
-1.16 L/s.m ²	@	-75 Pa.
-1.80 L/s.m ²	@	-150 Pa.

Window Panel Specifications

Maximum Sash Height: 2700mm
Minimum Sash Height: 800mm
Sash Width: 150-1200mm

Maximum Sash Panel Weight: 35kg

Glass Thicknesses

18mm IGU's

Conclusion

Housing Ratings:

Regions A & B	N4
Region C	+830 & -980 Pa.
Region D	+770 & -770 Pa.

Residential & Commercial Building Ratings:

Region A	+830 & -1550 Pa.
Region B	+830 & -1020 Pa.
Region C	+830 & -980 Pa.
Region D	+770 & -770 Pa.

TIMBER SASHLESS DOUBLE HUNG, DOUBLE GLAZED WINDOW
Test Information

Test Window Size: 2100mm high x 900mm wide

Physical test taken at Ian Bennie & Associates, 26th February 2004

Test Report Number: 2032452

Physical Performance

Approved to: AS4420-1996 (as called up by AS2047-1999)

Water Penetration: 200pa.

Ultimate Strength: +2300 Pa. -2300 Pa.

Air Infiltration Rating: Non-Air conditioned Buildings Only

1.80 L/s.m ²	@	+75 Pa.
2.58 L/s.m ²	@	+150 Pa.
-2.00L/s.m ²	@	-75 Pa.
-3.20 L/s.m ²	@	-150 Pa.

Window Panel Specifications

Maximum Sash Height: 2700mm
 Minimum Sash Height: 800mm
 Sash Width: 150-1200mm

Maximum Sash Panel Weight: 35kg

Glass Thicknesses

18mm IGU's

Conclusion

Housing Ratings:

Regions A & B	N4
Region C	+670 & -980 Pa.
Region D	+670 & -770 Pa.

Residential & Commercial Building Ratings:

Region A	+670 & -1550 Pa.
Region B	+670 & -1020 Pa.
Region C	+670 & -980 Pa.
Region D	+670 & -770 Pa.

Building Classifications & Housing limitations are summarised in Appendix A of the Test Report. Regions are as per AS1170.2

FEATURES

2 operable frameless glass panels, sliding vertically
Accepts glass thicknesses from 6mm – 10.5mm
Optional fly or security screens
Adaptable to suit most commercial framing systems
Adaptable to suit hinged and bi-fold door systems
Adaptable to suit flat timber framing systems
Lockable in closed and partially open position by a keyed or pin lock
Clear acrylic handles or optional aluminium lift rail
Ability to comply with the requirements of air-infiltration for air-conditioned buildings

SPECIFICATION TEXT

Frame Types

Sashless Windows

Sashless windows to be manufactured by Austview Sashless Windows using the standard double hung system.

Sashless windows to include [aluminium / timber] guides [inside only / inside and out]

Timber guides to be [KDHW / Western Red Cedar] N/A for aluminium sashless windows

Sashless windows to be operated by [acrylic lift block / aluminium continuous lift rail]

Sashless windows [to include / not to include] [flyscreen / security screen]

Selected sashless windows to be engineered, manufactured and installed by Austview Sashless Windows or an equivalent and approved fabricator of Austview Sashless Windows.

To be engineered, manufactured and installed in accordance with:

AS 2047-2048 (windows in buildings)

AS/NZS 1170 (loading code)

AS/NZS 1664 (aluminium structures code)

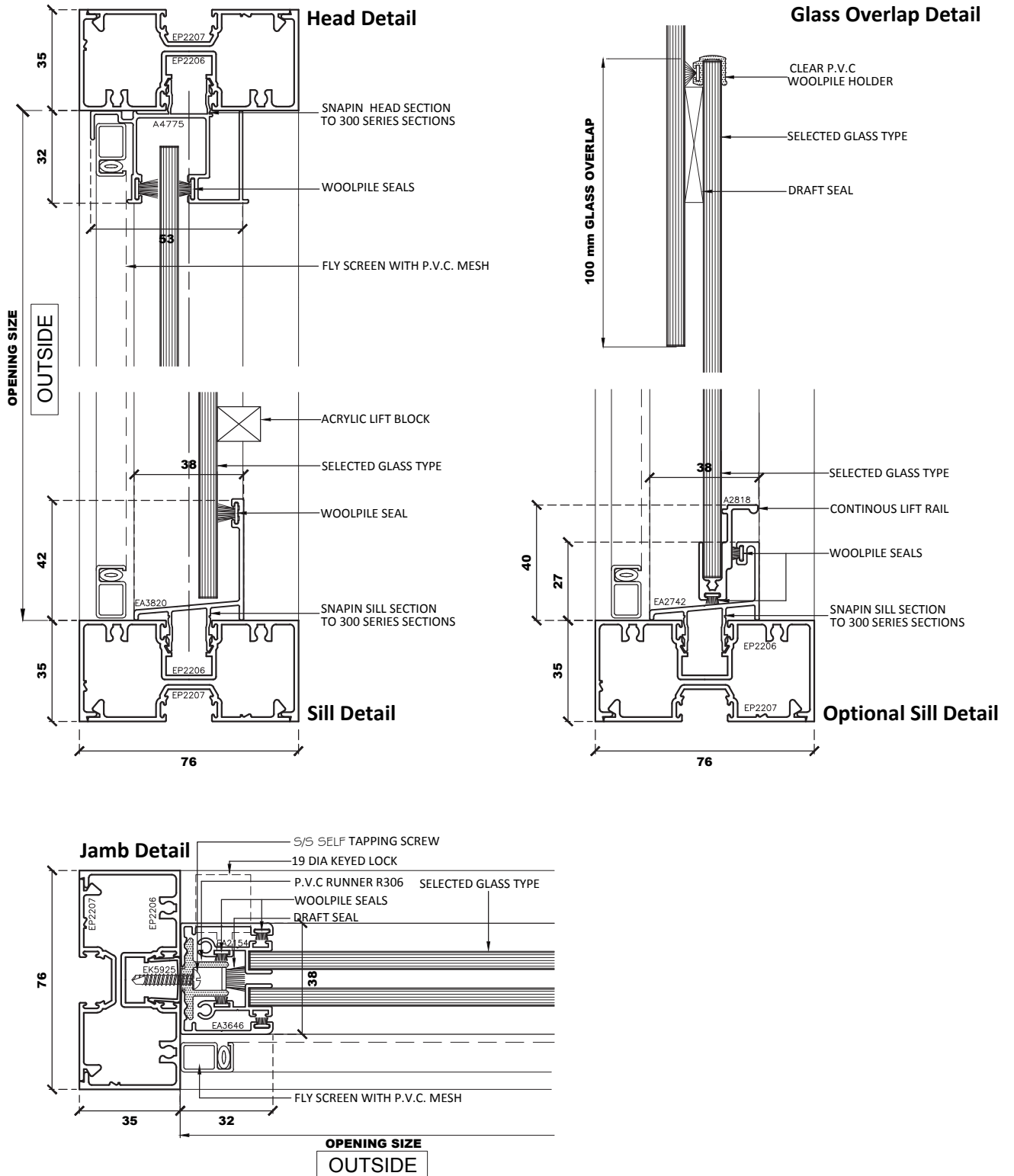
Selected glazing (6mm-10mm)

Selected glazing to be in accordance with performance requirements as set out in AS 1288 (glass in buildings)

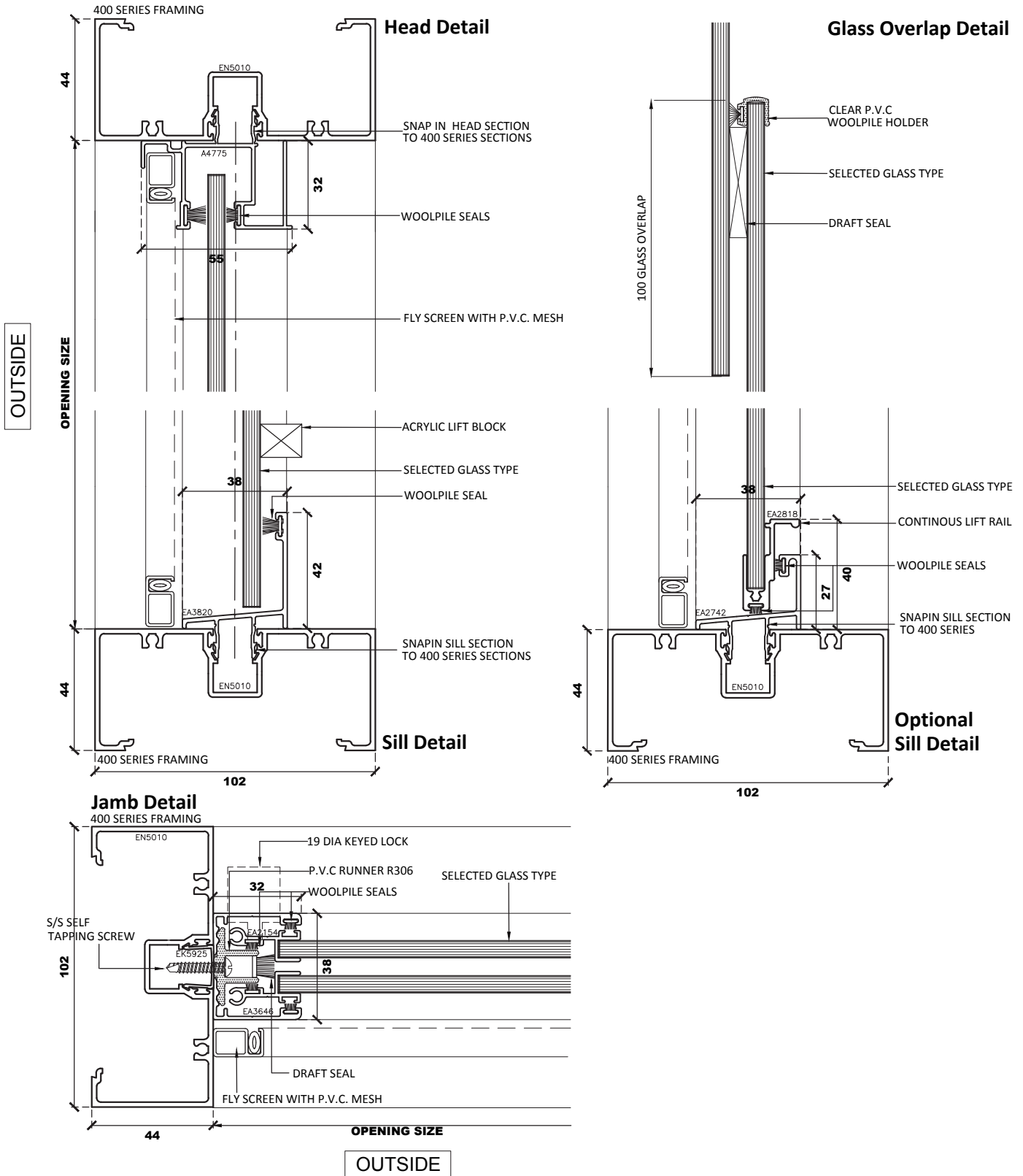
Finish: (Colour) [Powdercoat / Anodised] finish to aluminium



HEAD, SILL AND JAMB

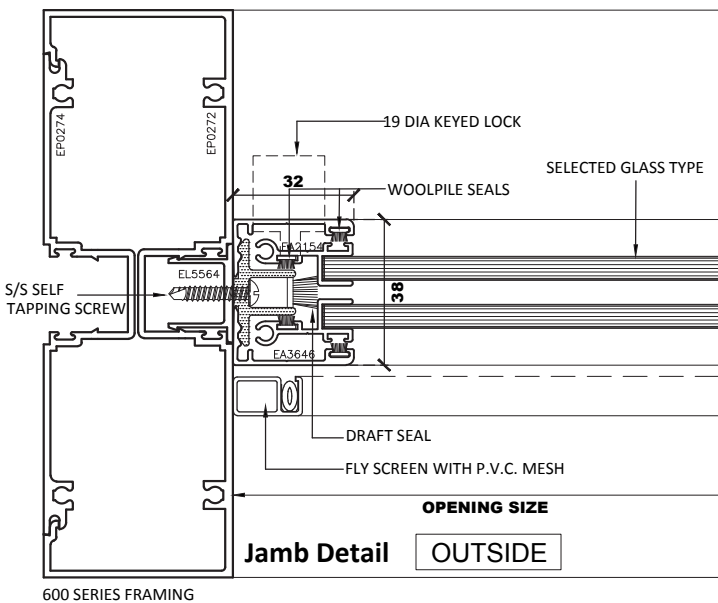
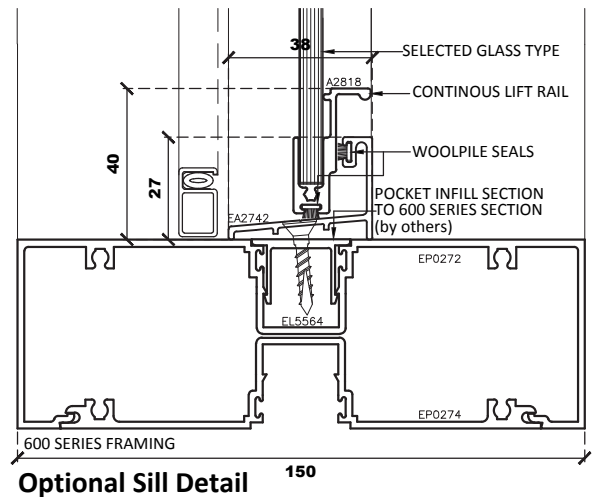
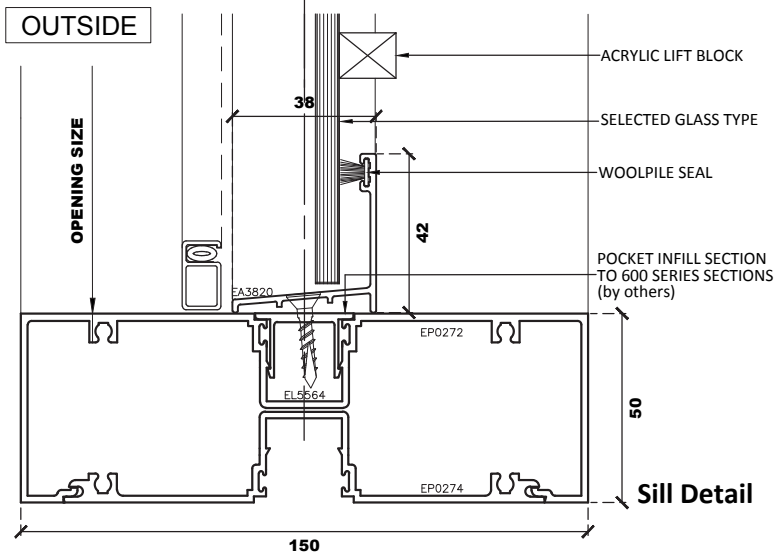
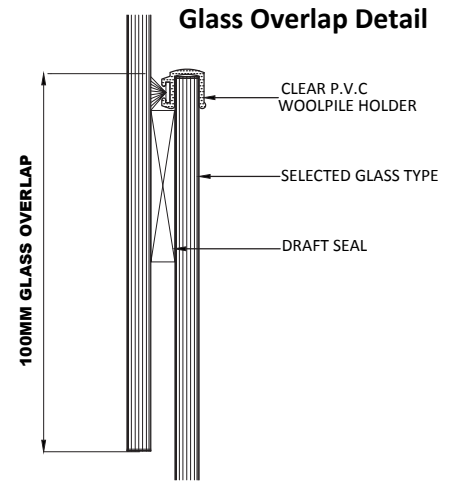
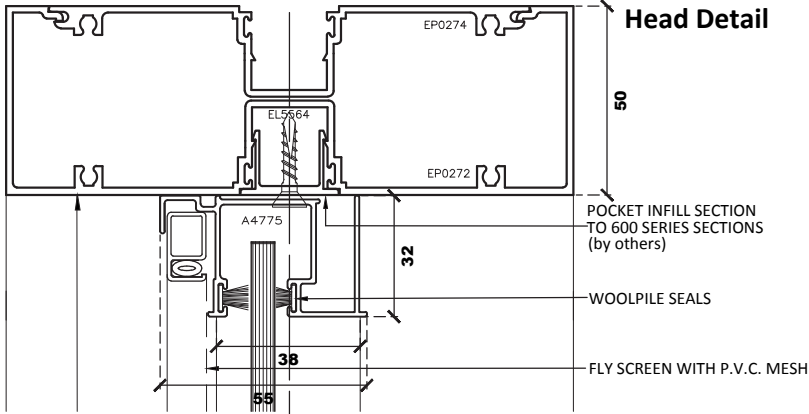


HEAD, SILL AND JAMB



Australian Standard 2047

HEAD, SILL AND JAMB

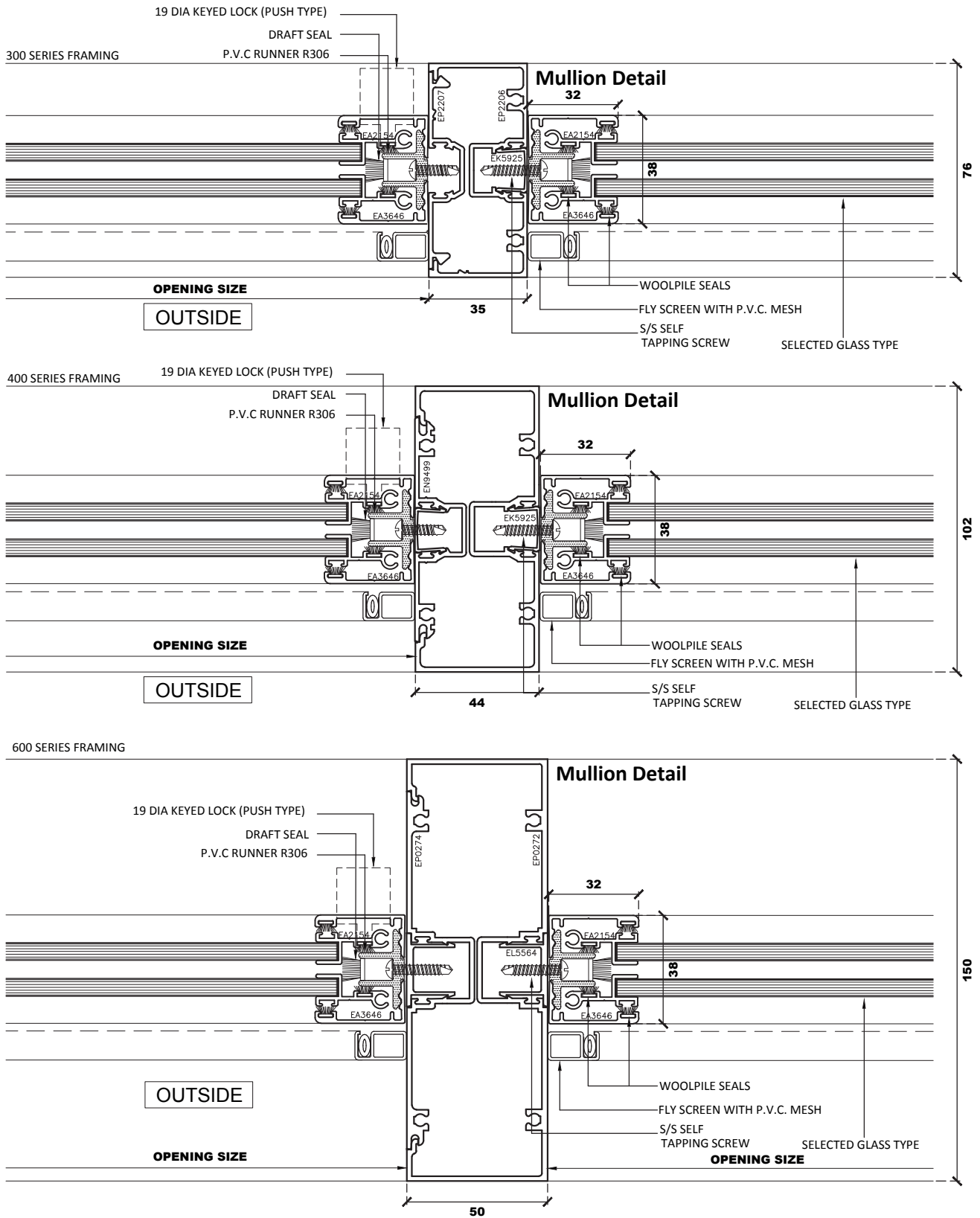


600 SERIES FRAMING



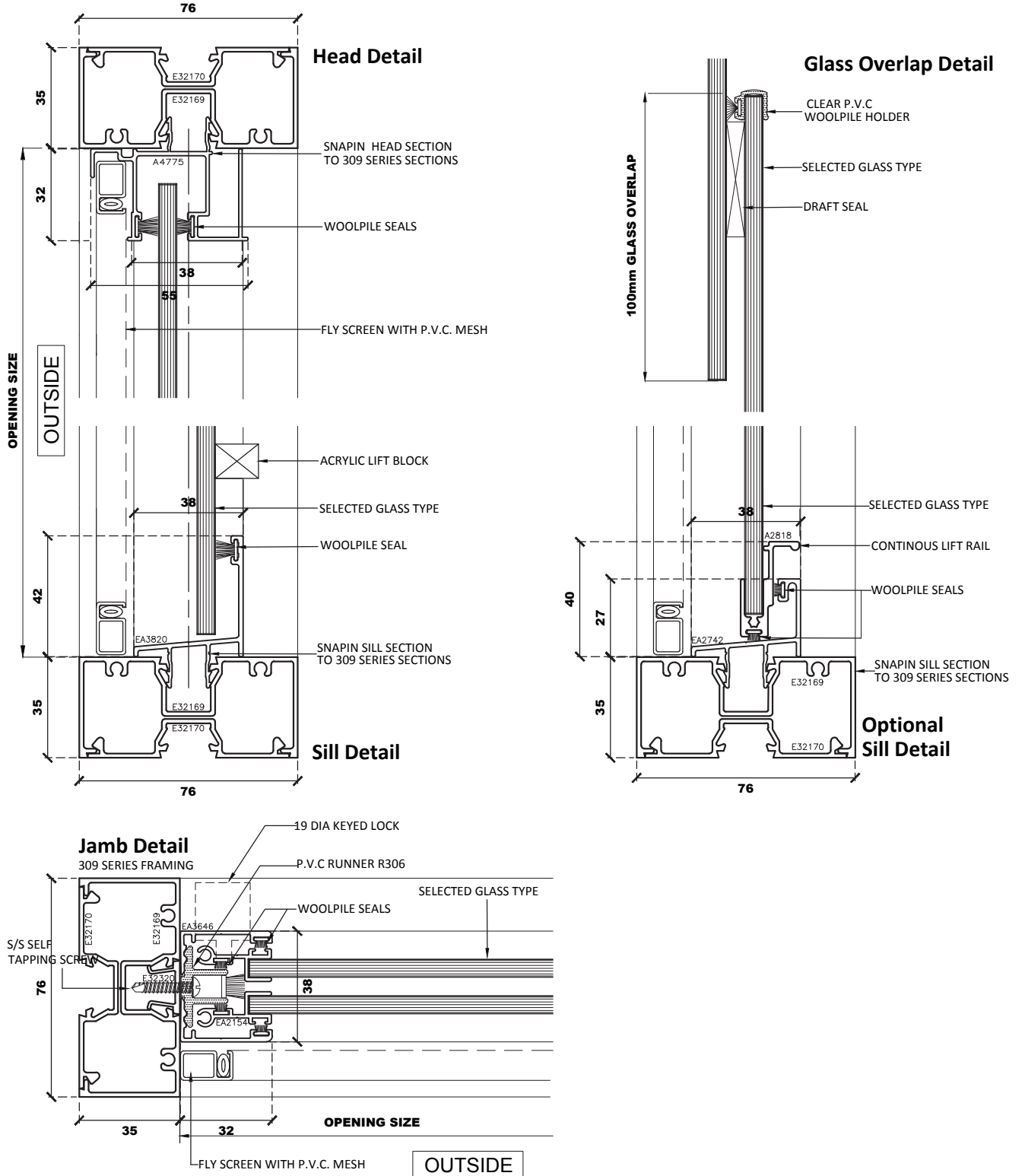
Australian Standard 2047

MULLION WITH DOUBLE SASHES

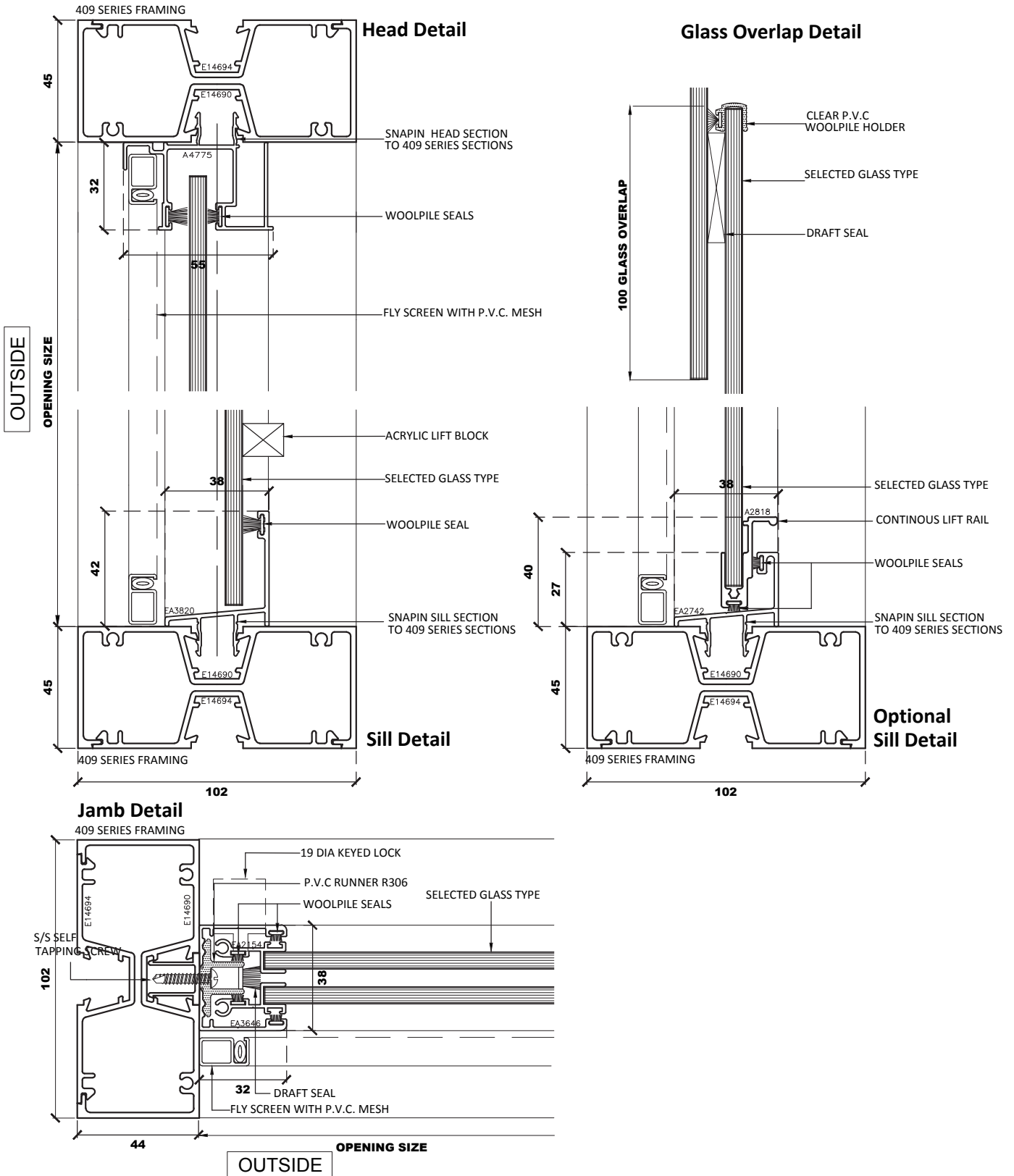


Australian Standard 2047

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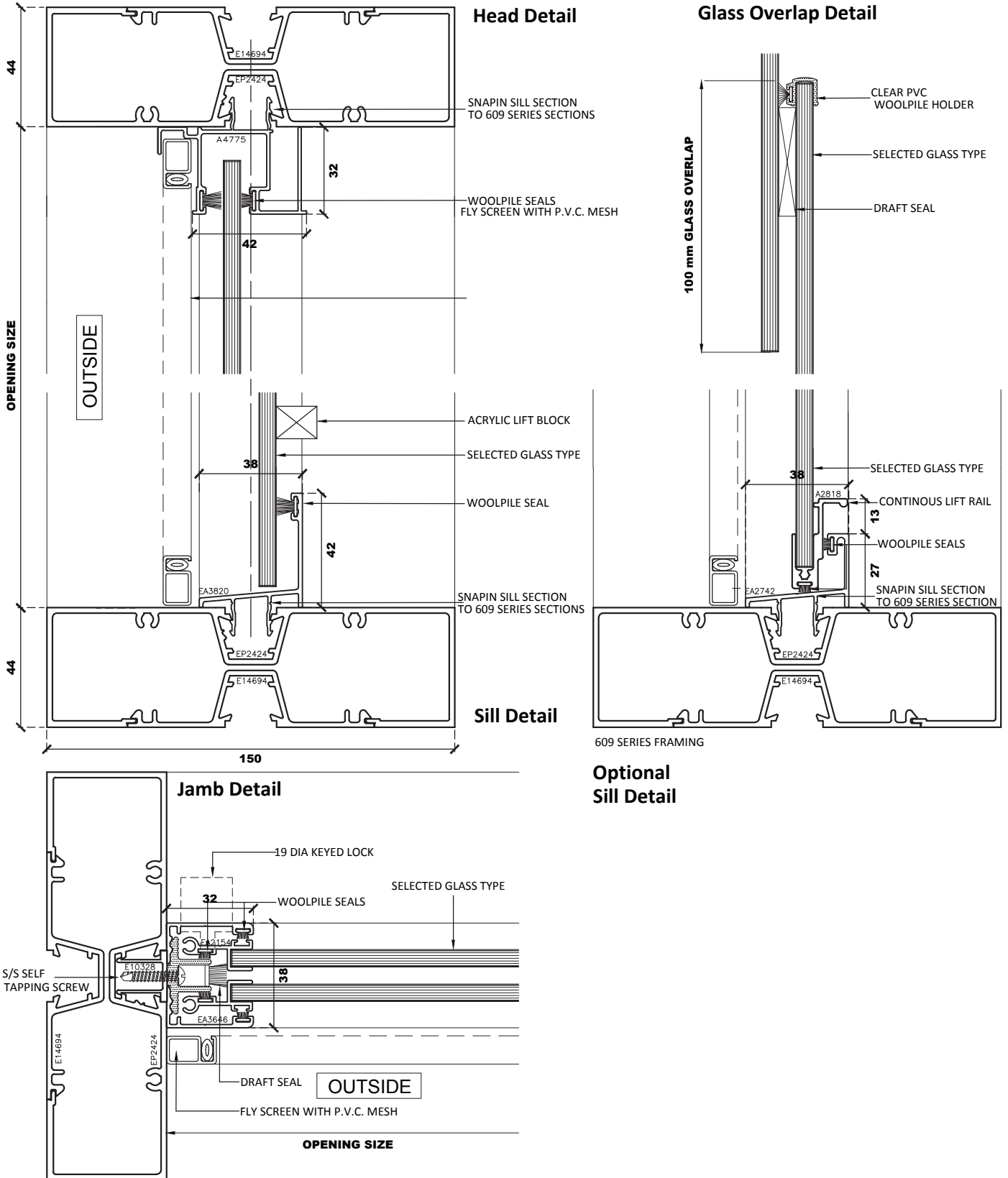


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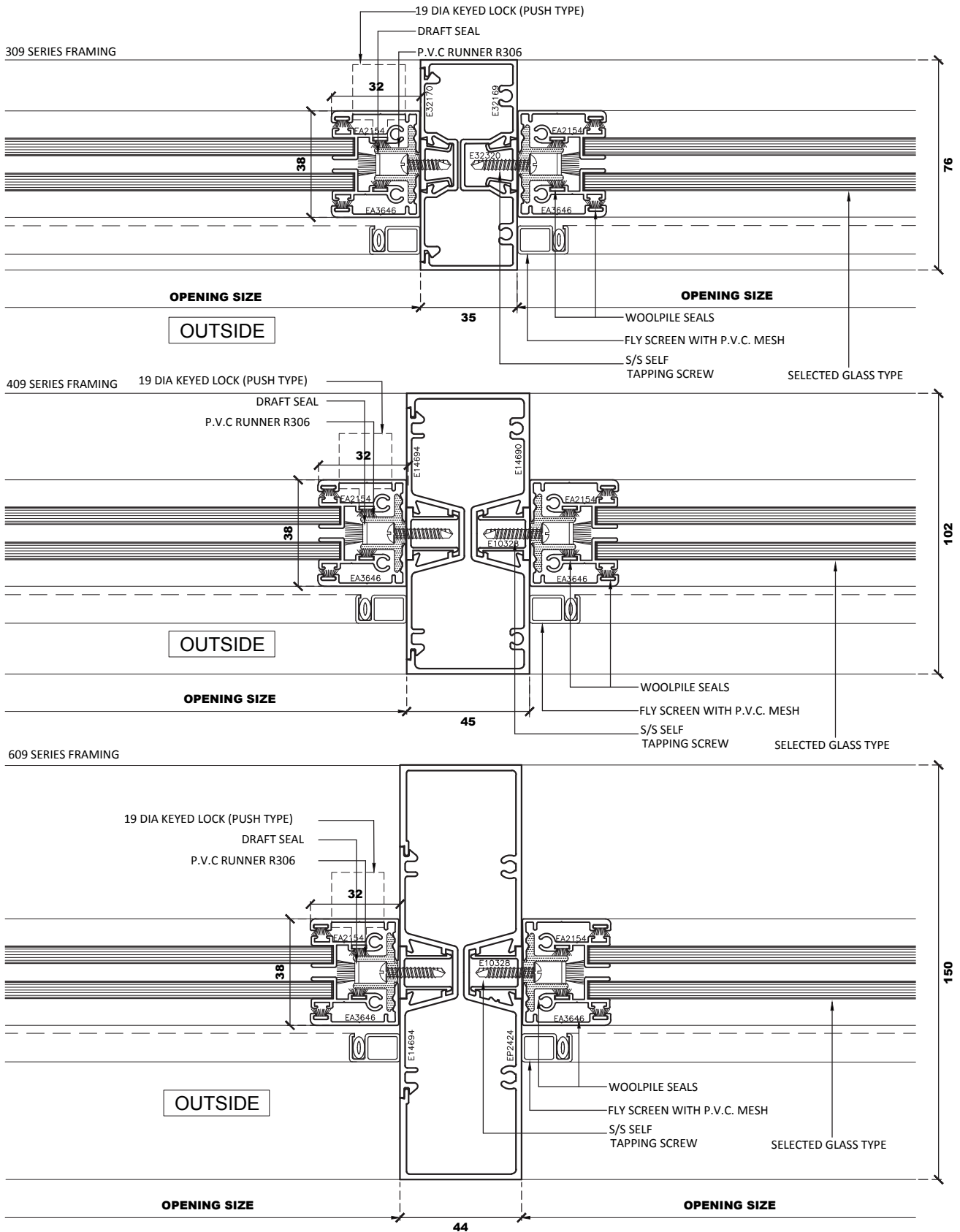


Australian Standard 2047

HEAD, SILL AND JAMB

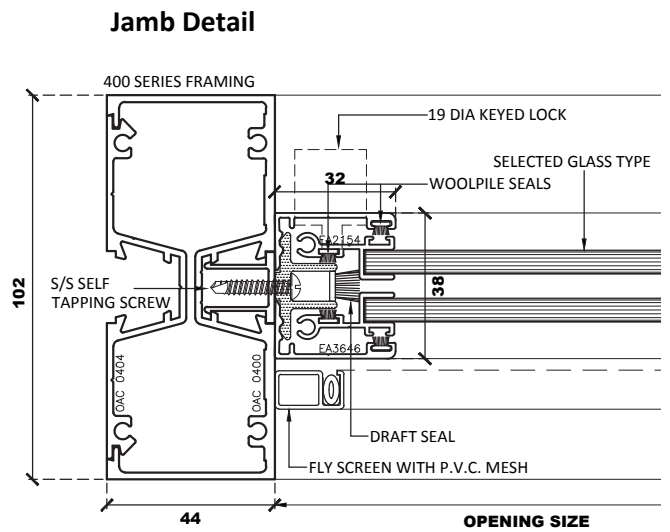
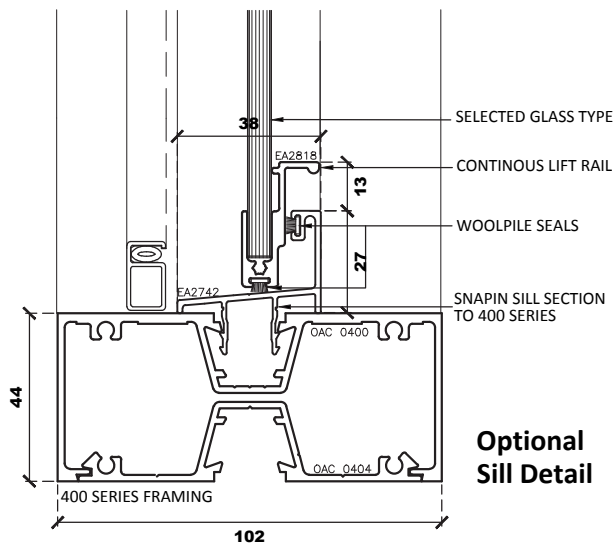
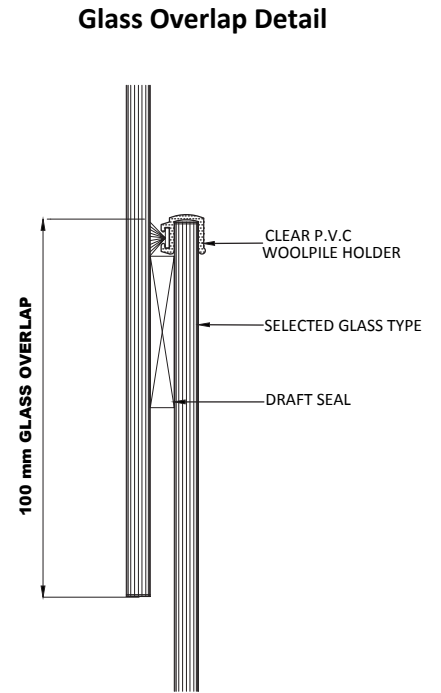
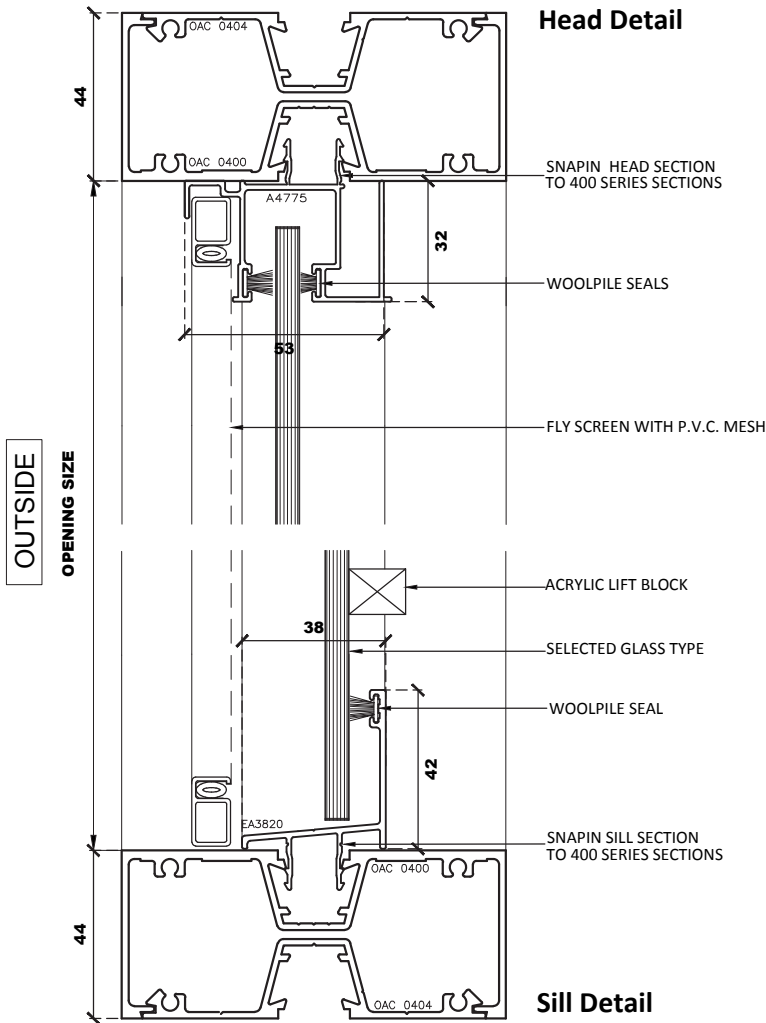


MULLION WITH DOUBLE SASHES



Australian Standard 2047

HEAD, SILL AND JAMB

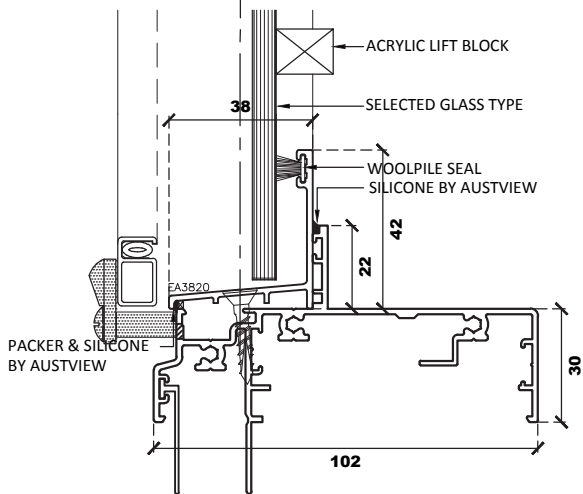
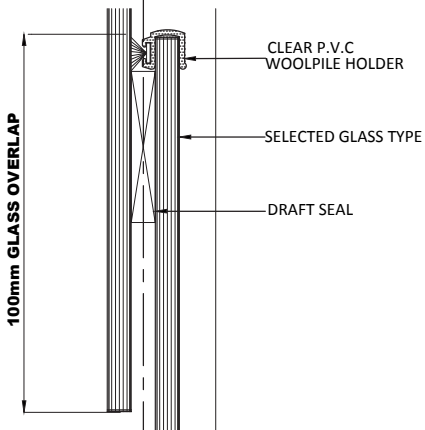
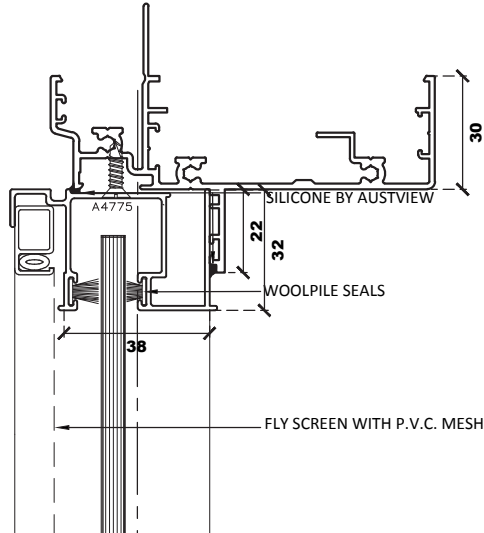


OUTSIDE



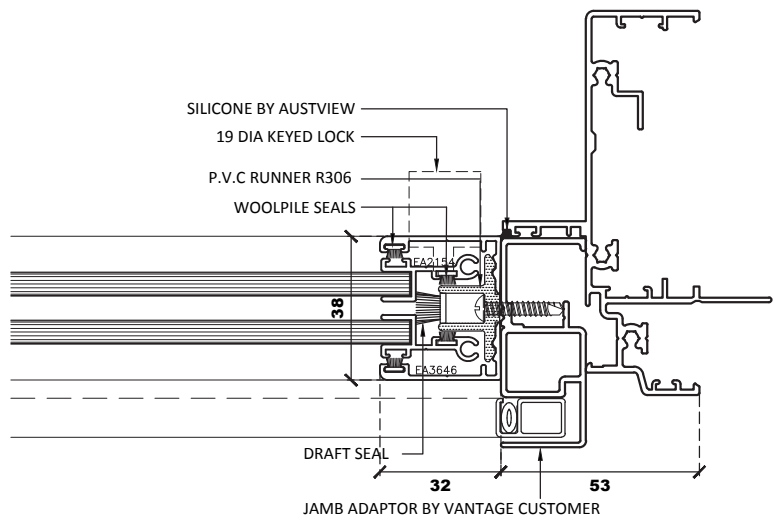
HEAD, SILL AND JAMB

Head Detail



Sill Detail

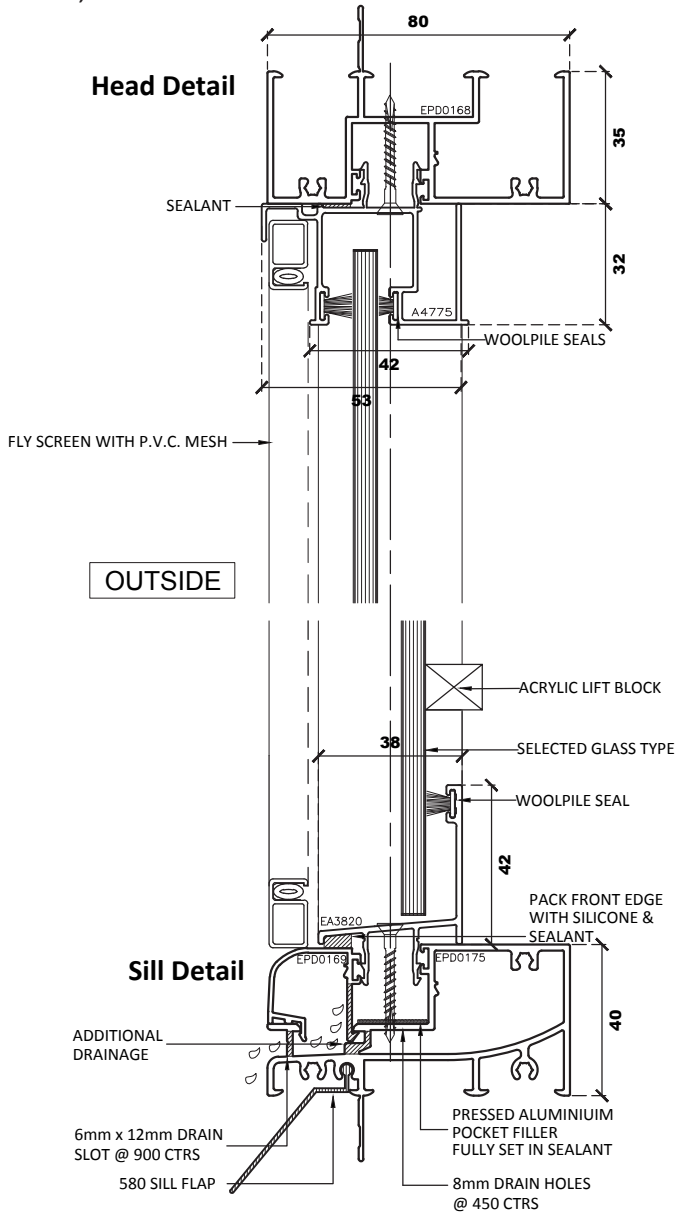
Jamb Detail



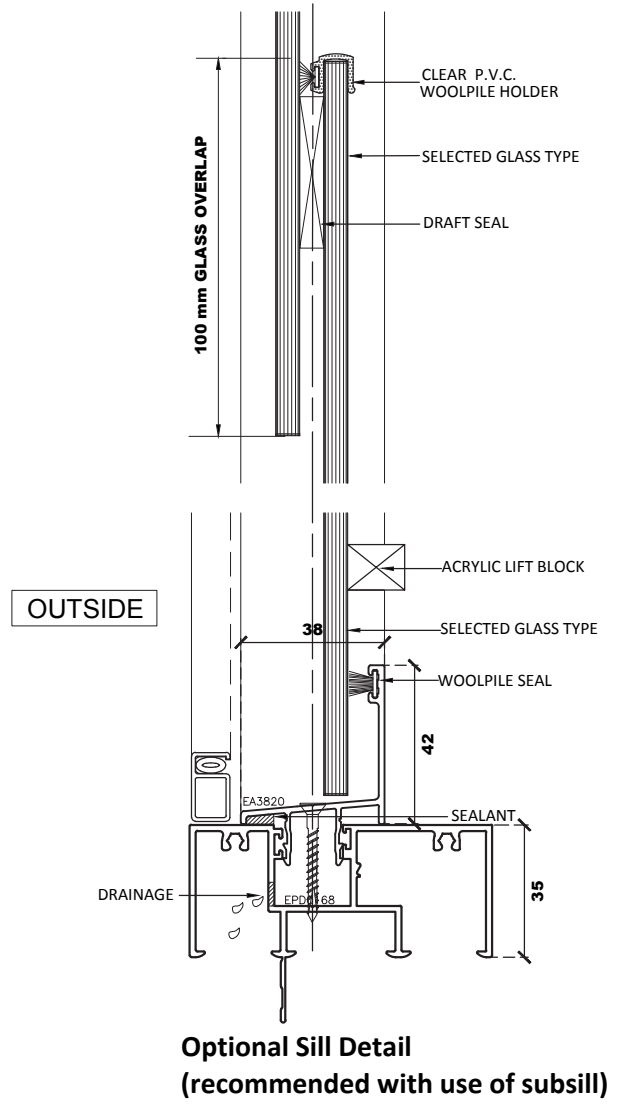
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HEAD, SILL AND JAMB

Head Detail

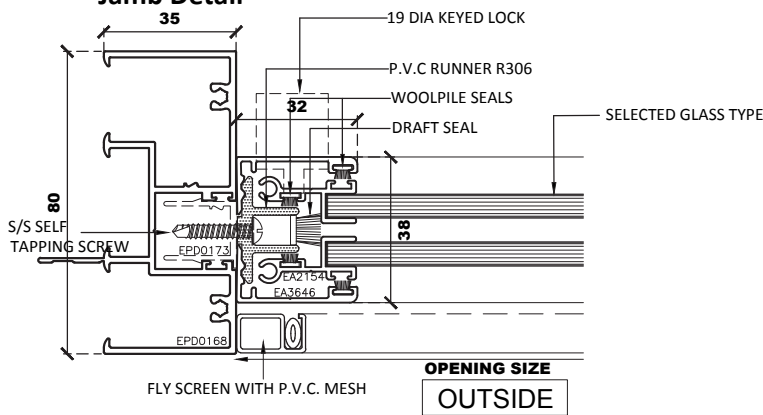


Glass Overlap Detail

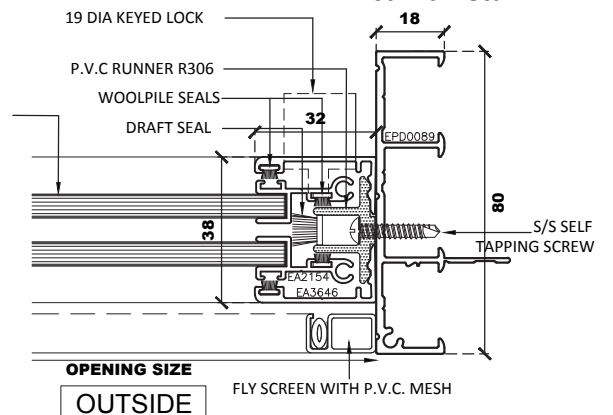


Optional Sill Detail
(recommended with use of subsill)

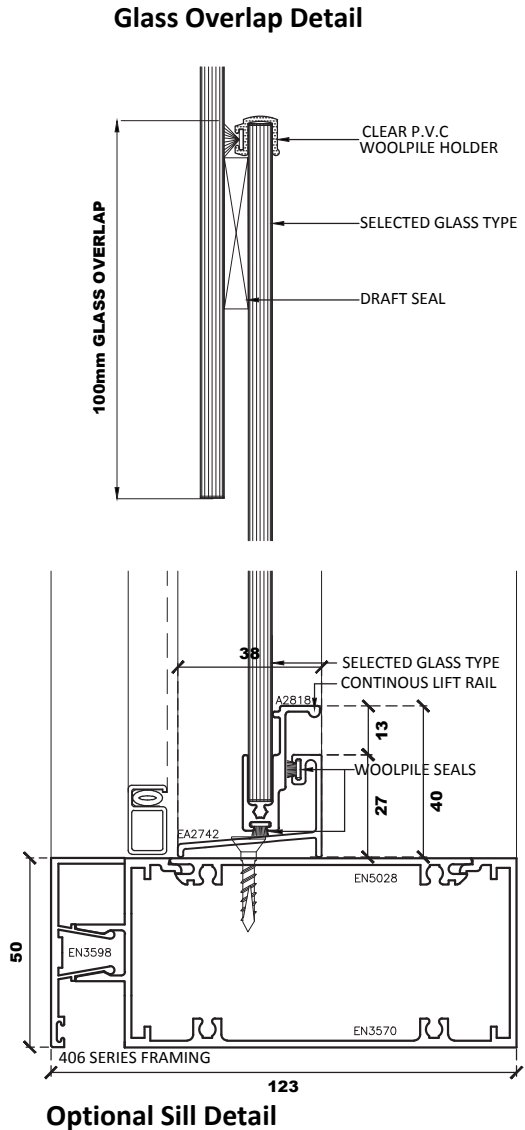
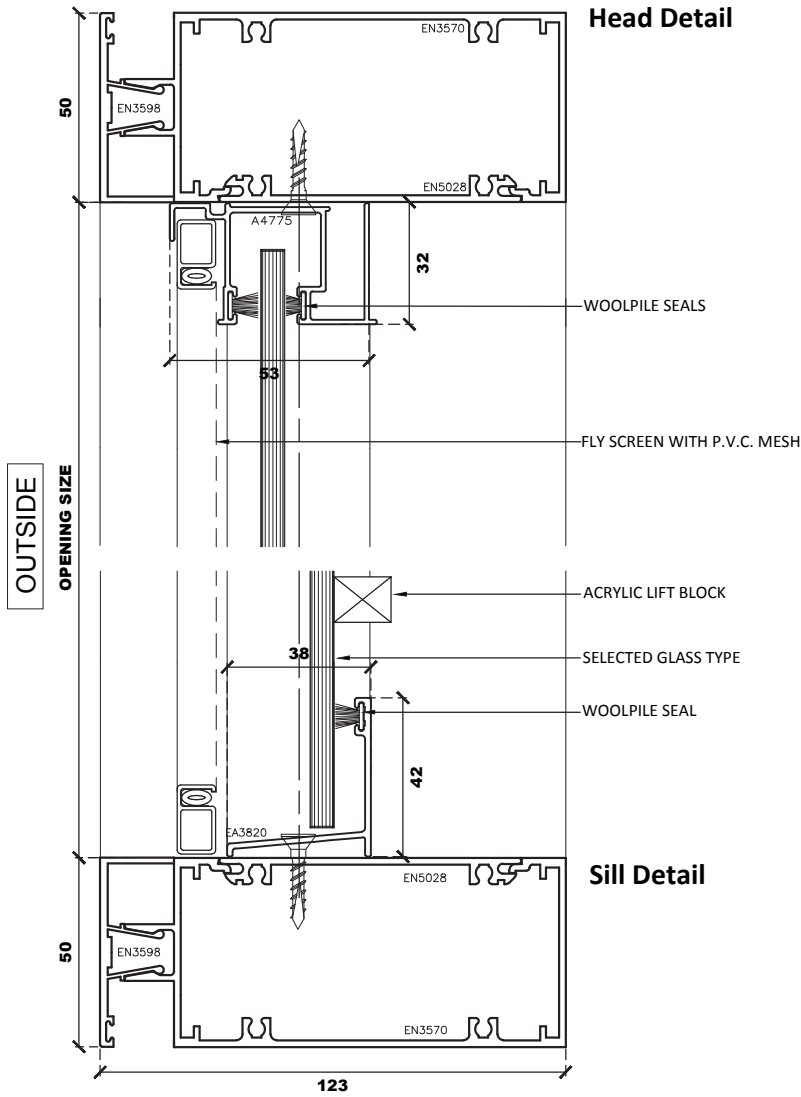
Jamb Detail



Jamb Detail

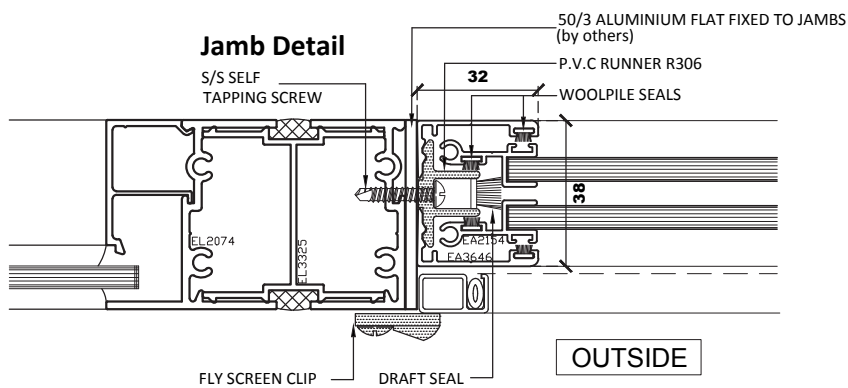
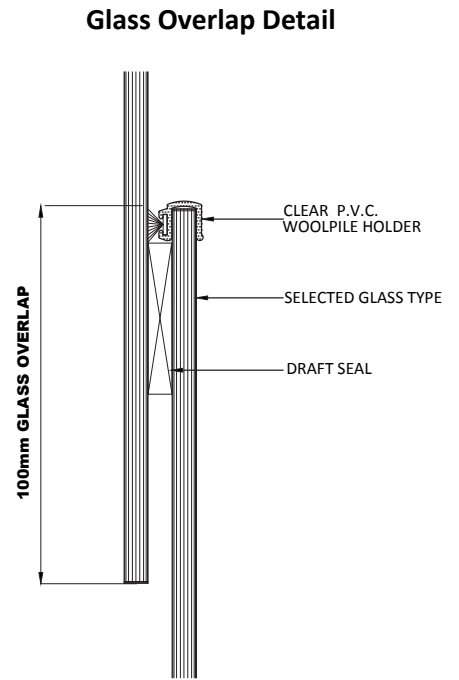
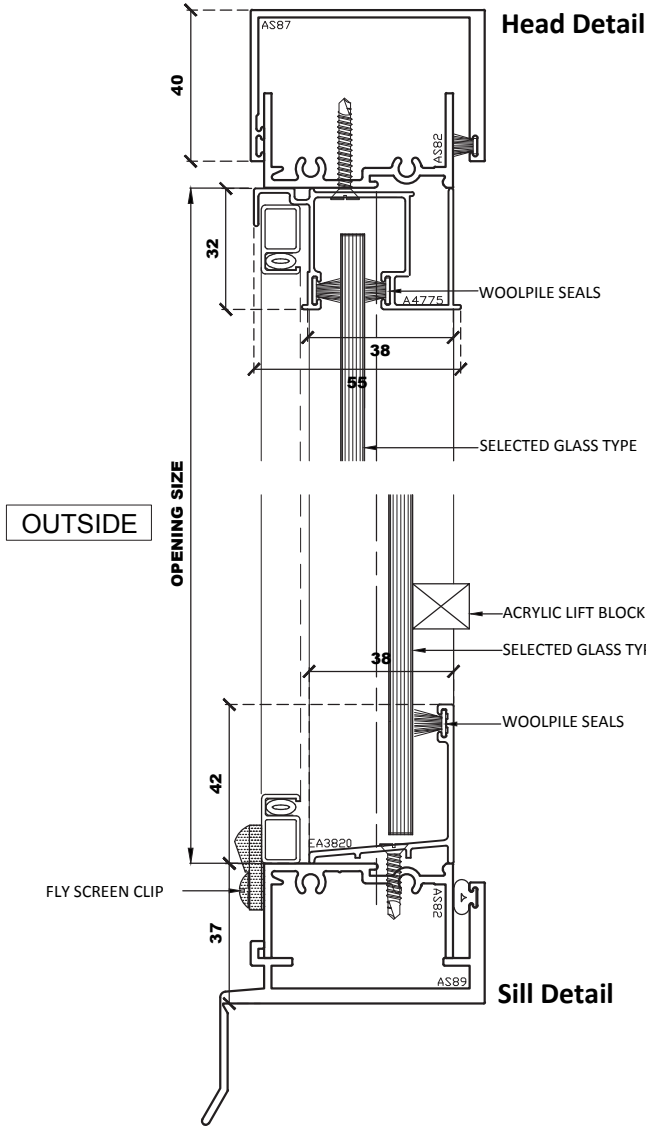


HEAD, SILL AND JAMB

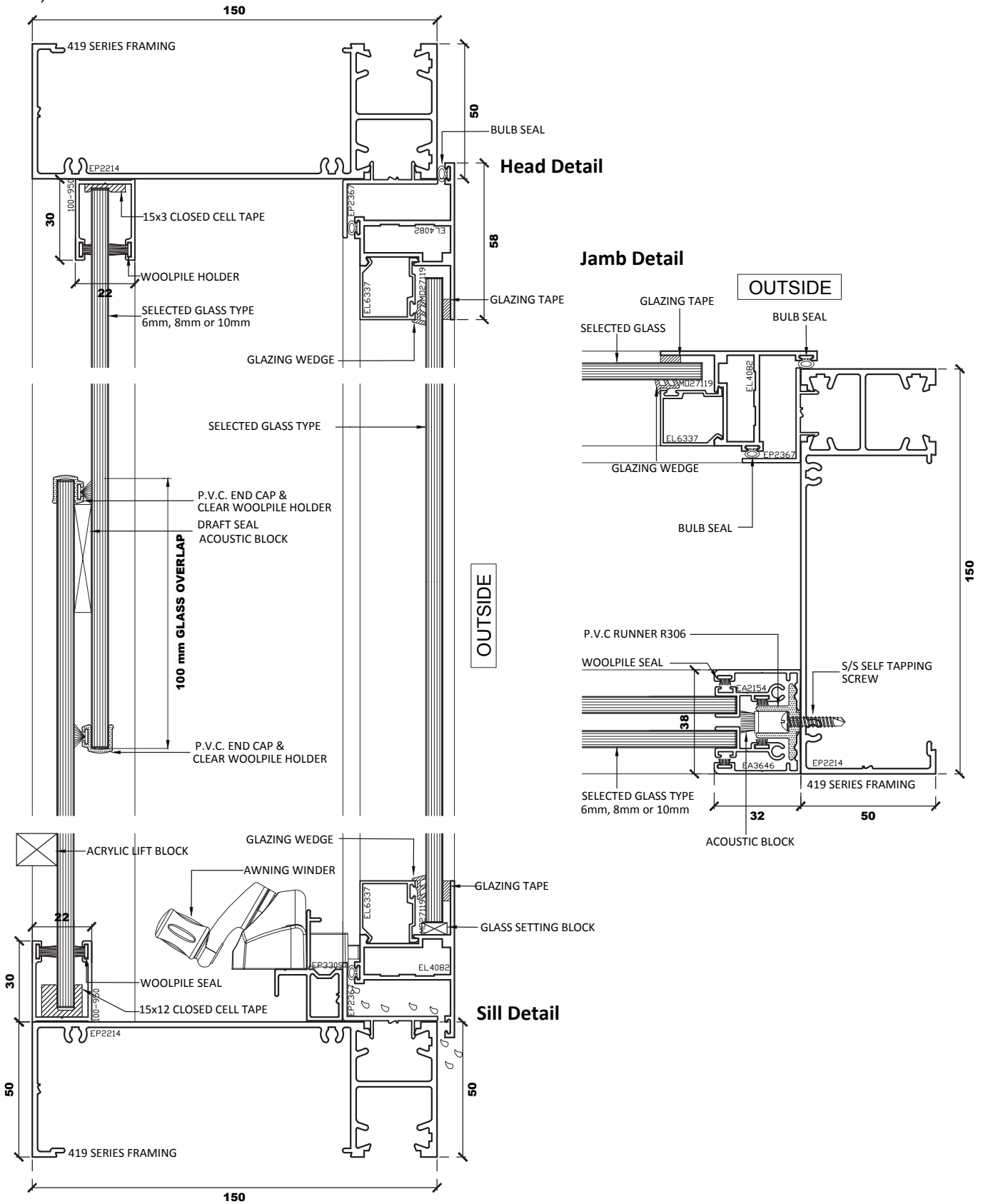


Australian Standard 2047

HEAD, SILL AND JAMB

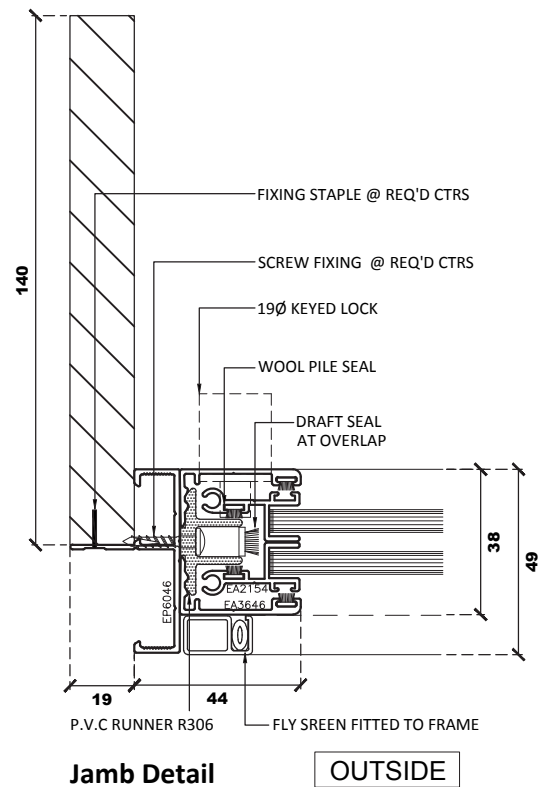
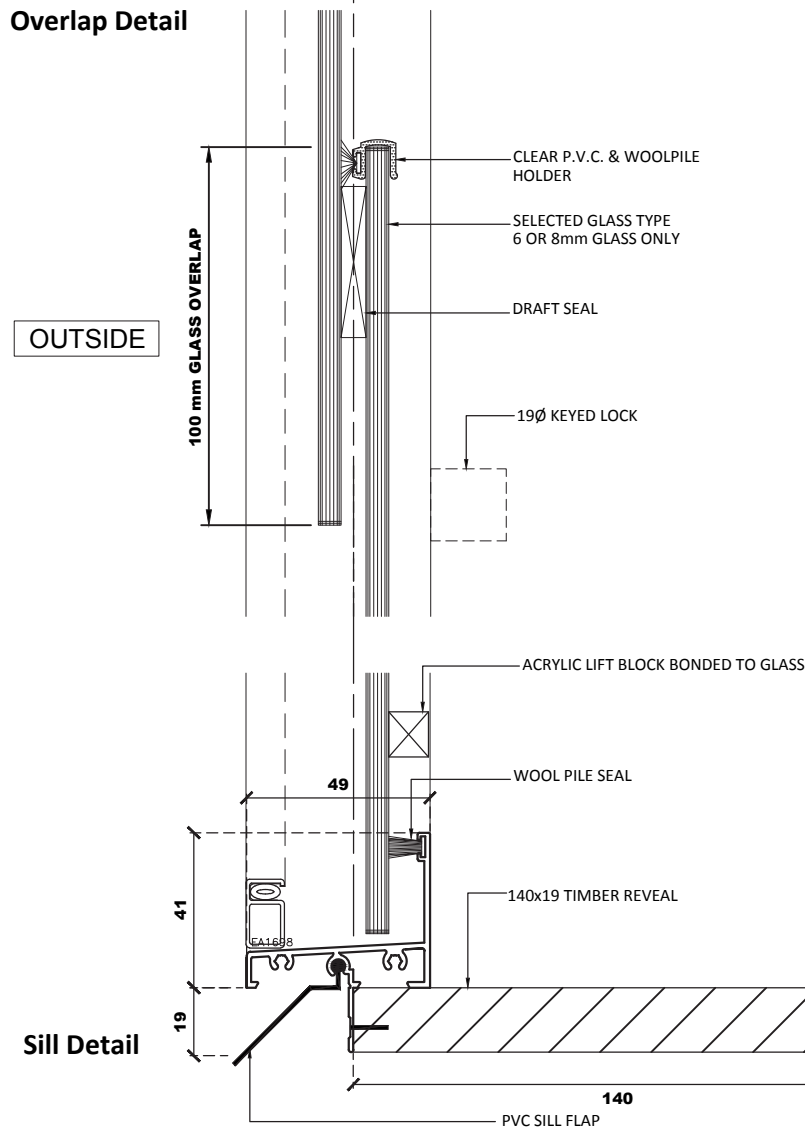
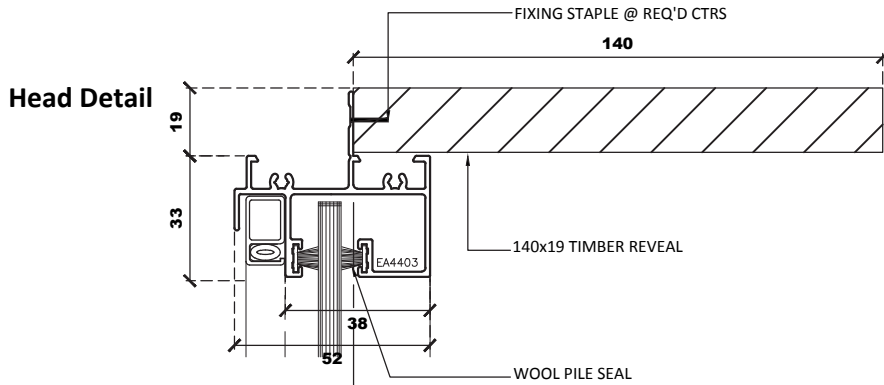


HEAD, SILL AND JAMB

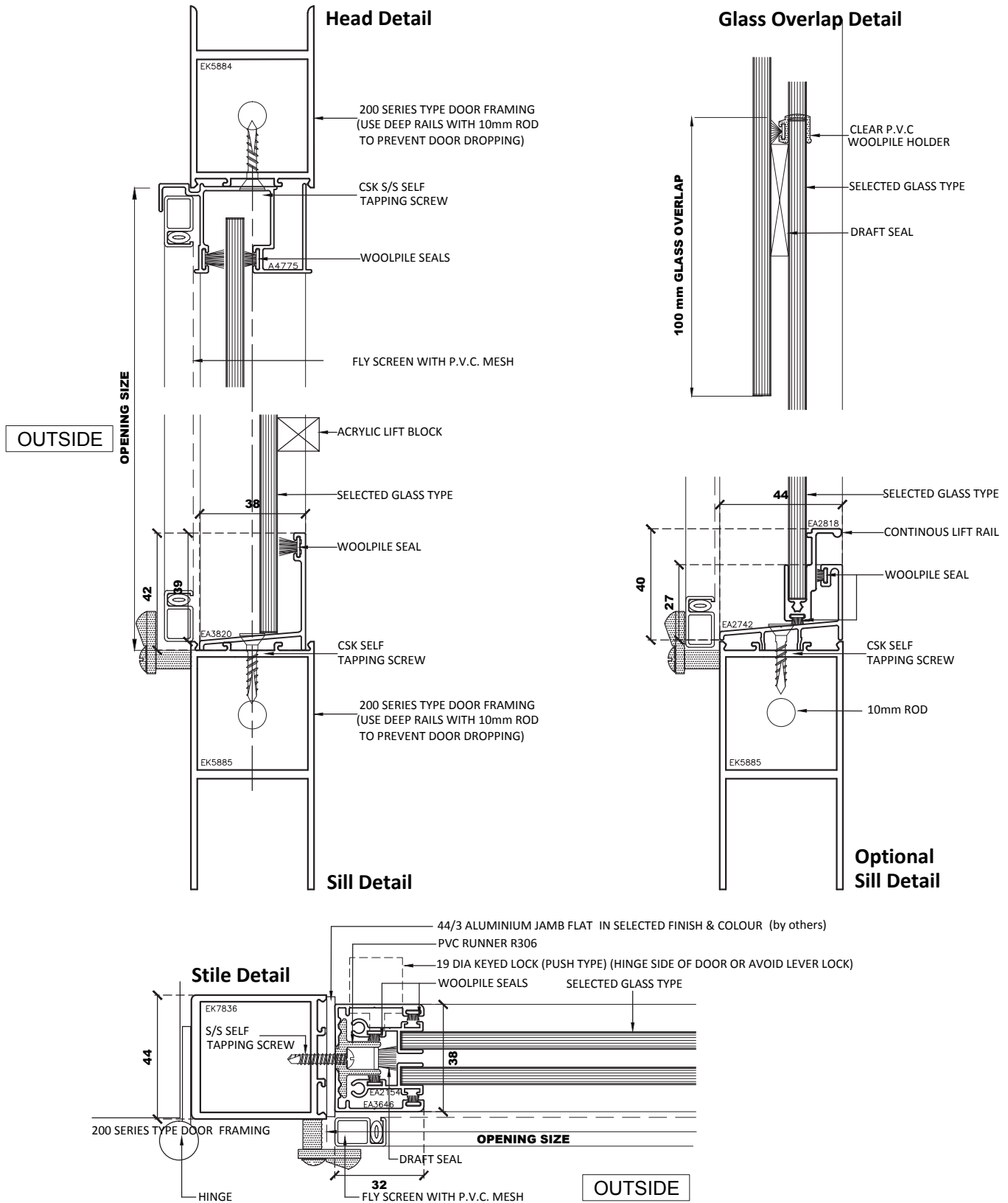


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HEAD, SILL AND JAMB

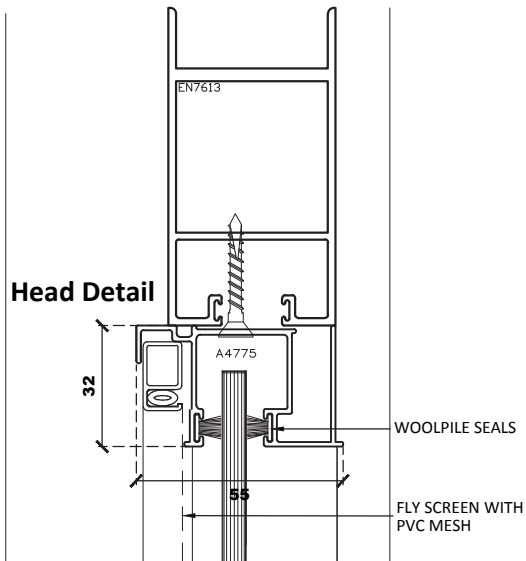


TOP RAIL, BOTTOM RAIL AND STILE

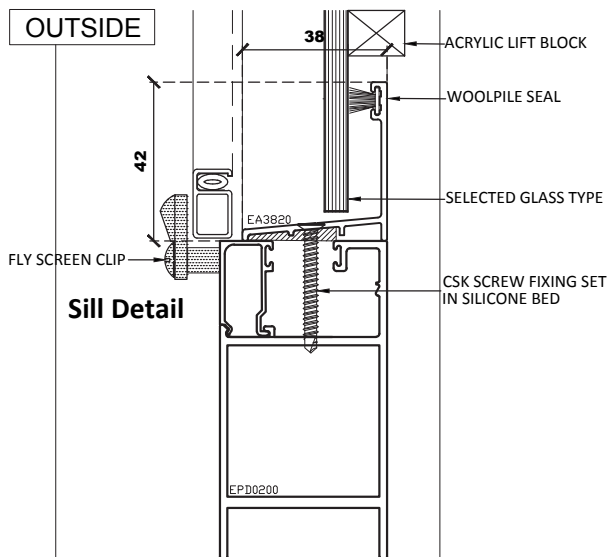
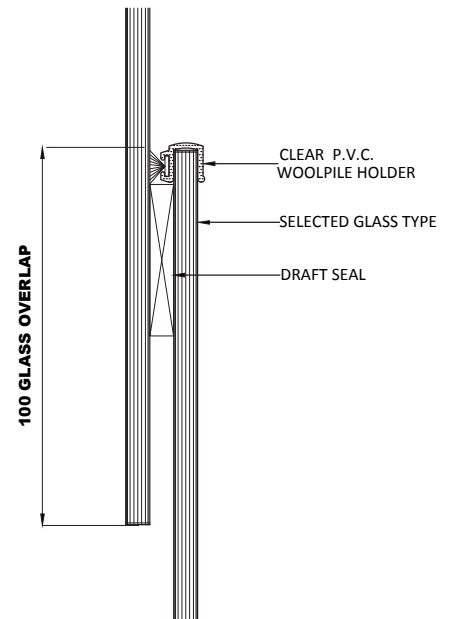


Australian Standard 2047

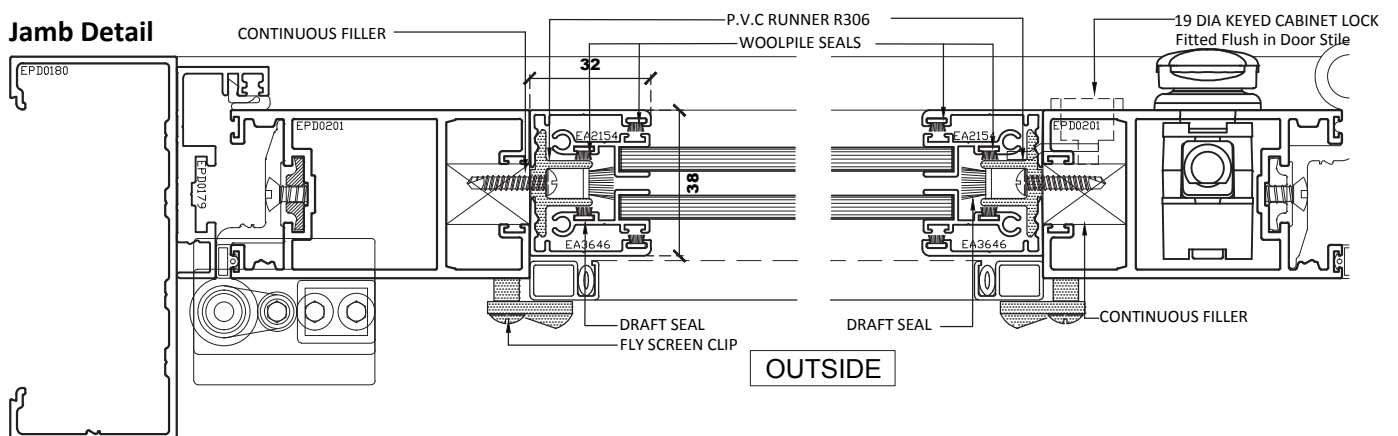
HEAD, SILL AND JAMB



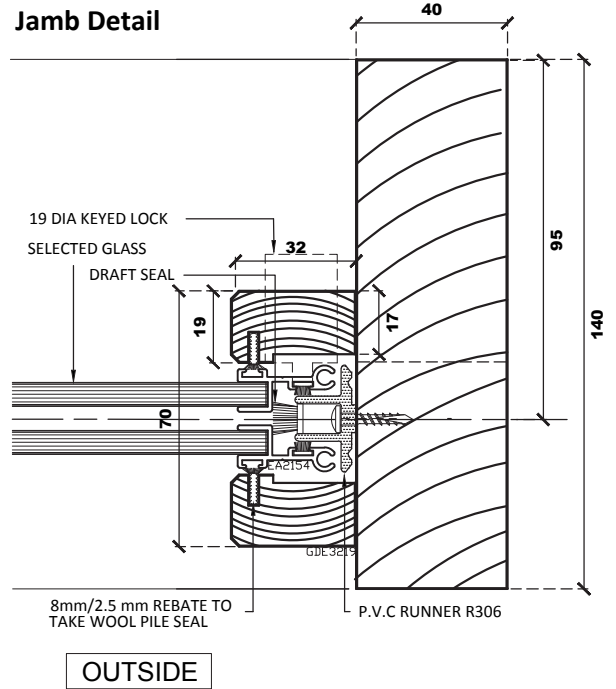
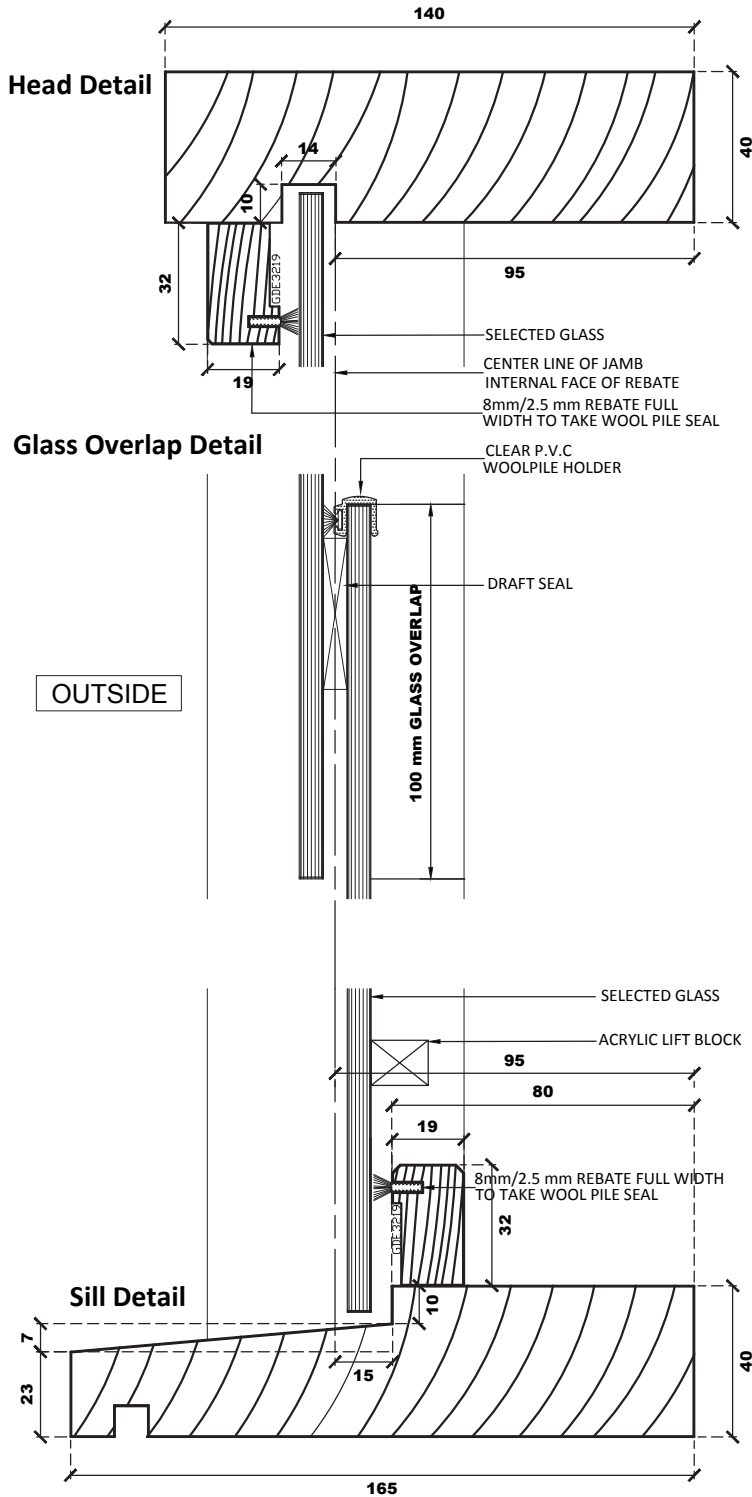
Glass Overlap Detail



Jamb Detail

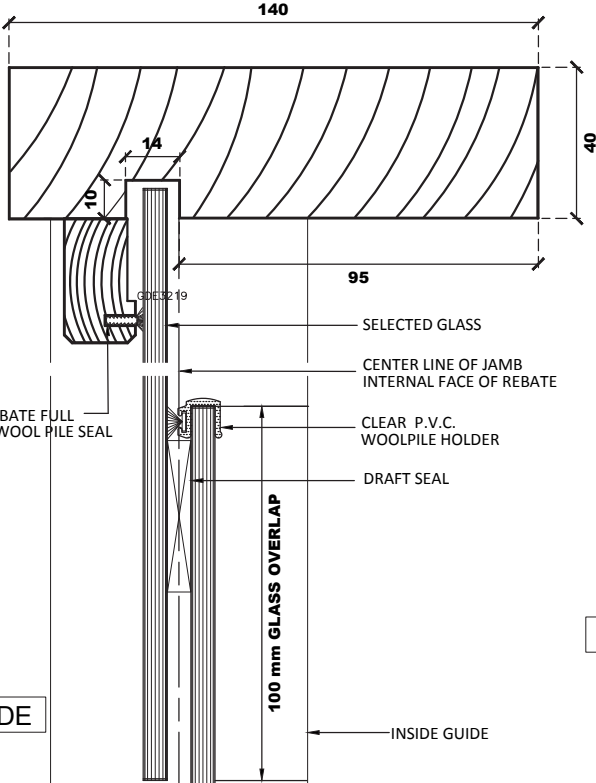


HEAD, SILL AND JAMB

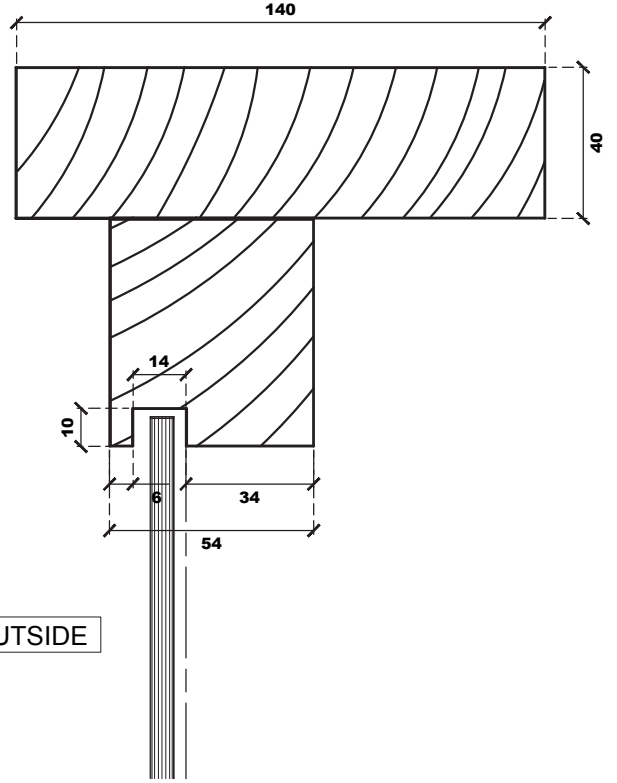


KICK RAIL, HEAD, SILL AND JAMB

Head Detail



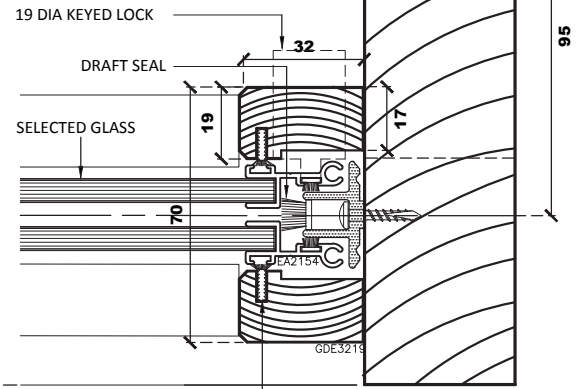
Optional Head Detail



OUTSIDE

OUTSIDE

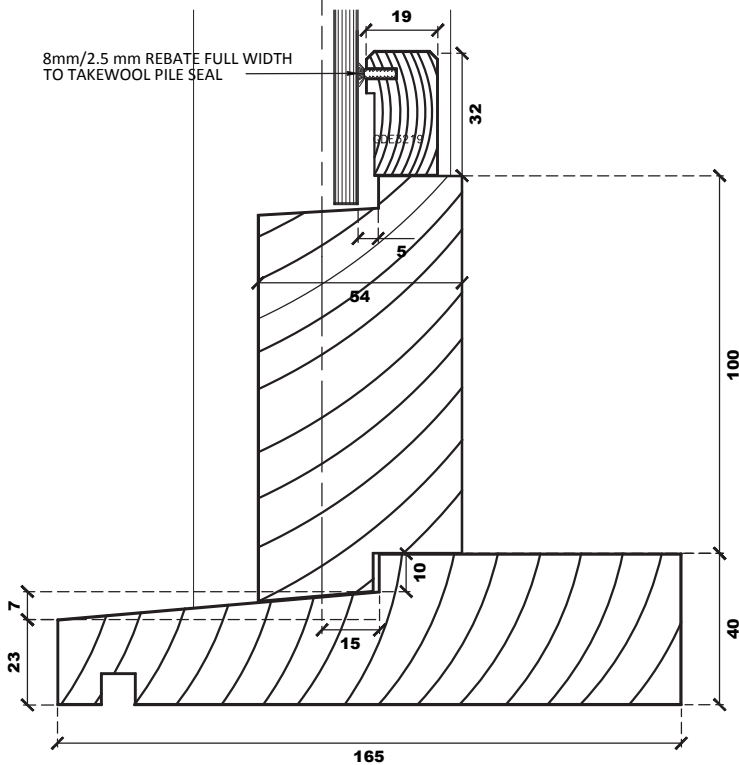
8mm/2.5 mm REBATE FULL WIDTH TO TAKEWOOL PILE SEAL



8mm/2.5 mm REBATE FULL WIDTH TO TAKE WOOL PILE SEAL

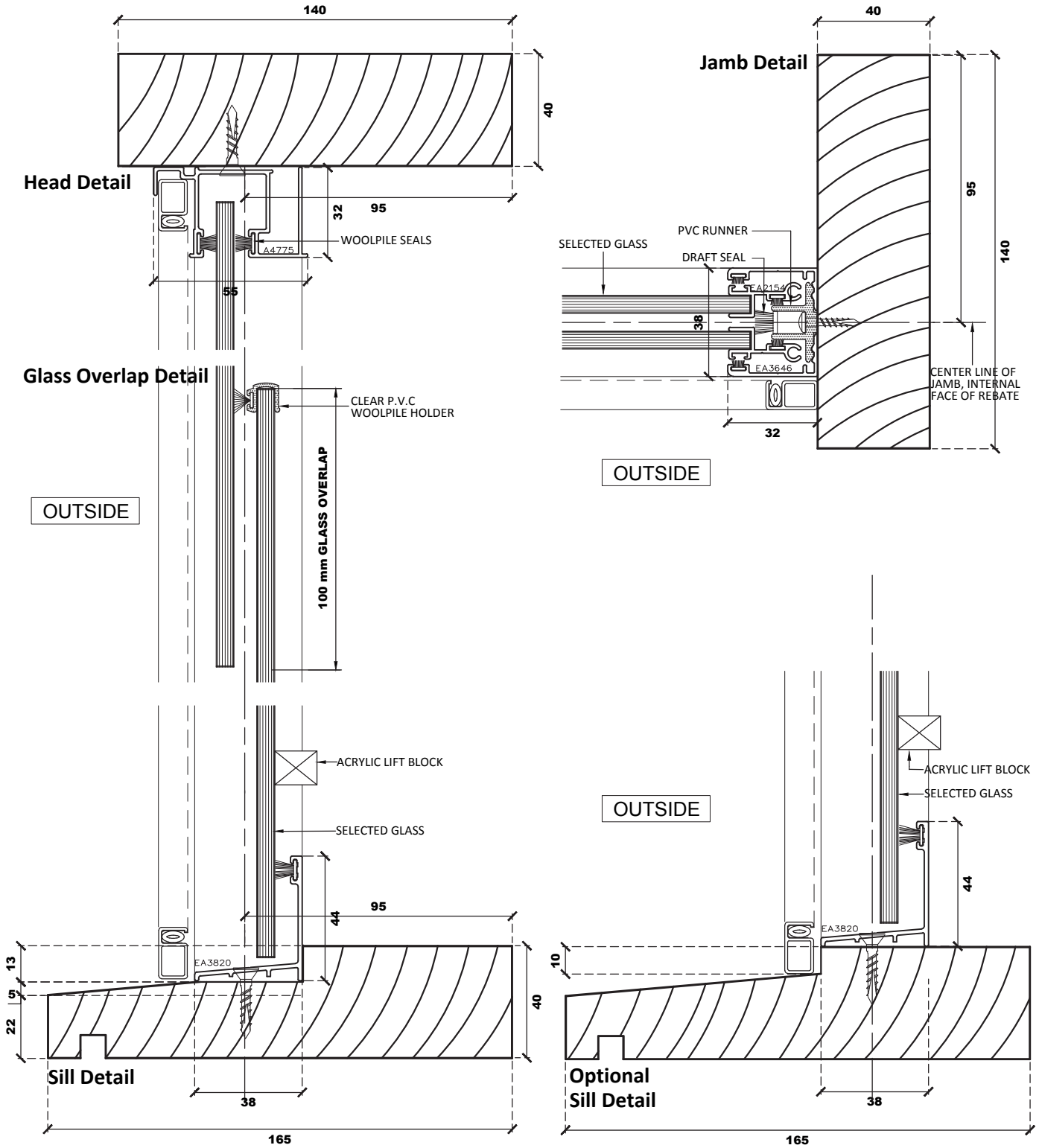
Jamb Detail OUTSIDE

Sill Detail



Australian Standard 2047

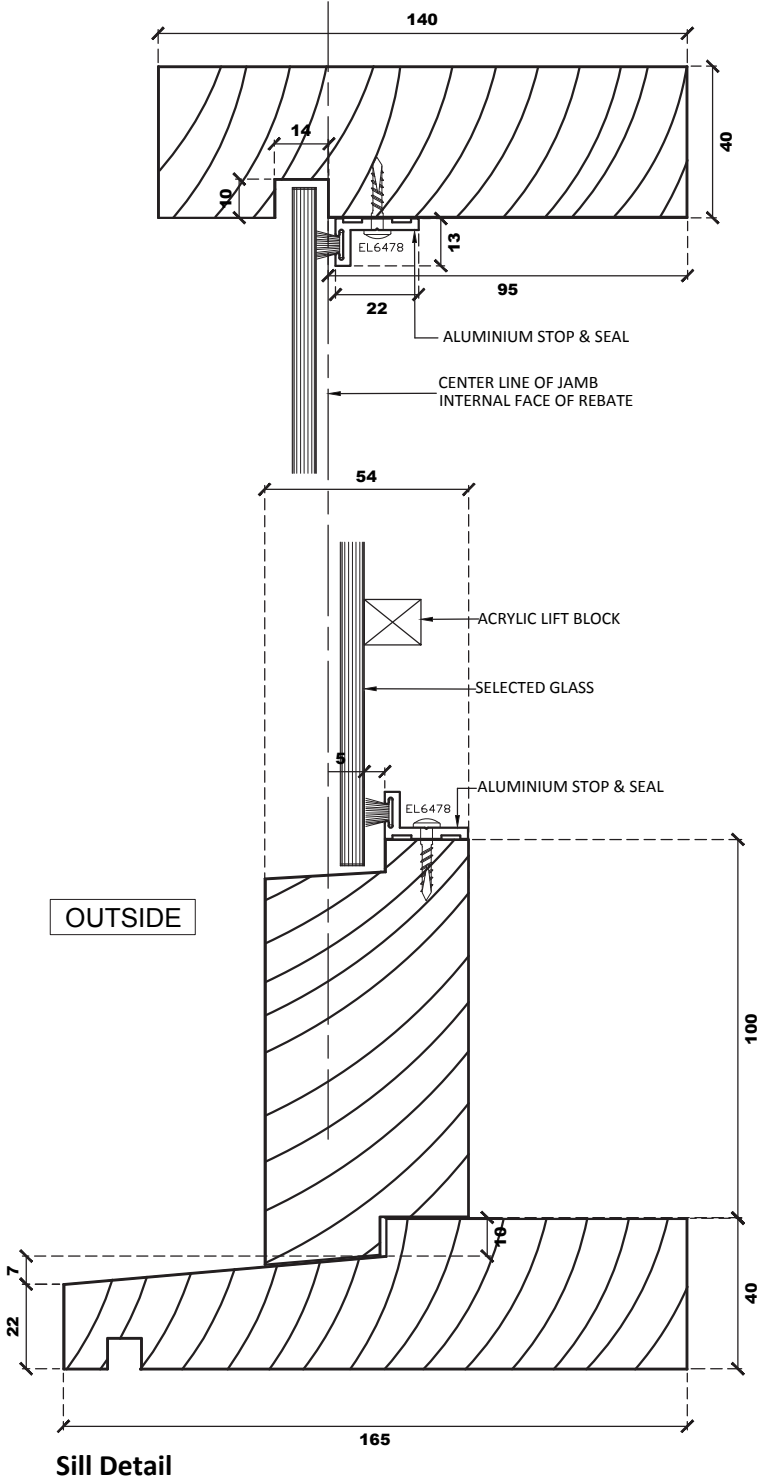
HEAD, SILL AND JAMB



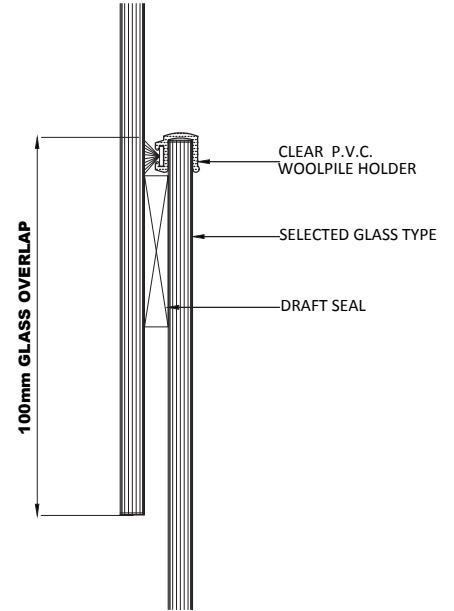
Australian Standard 2047

KICK RAIL, HEAD, SILL AND JAMB

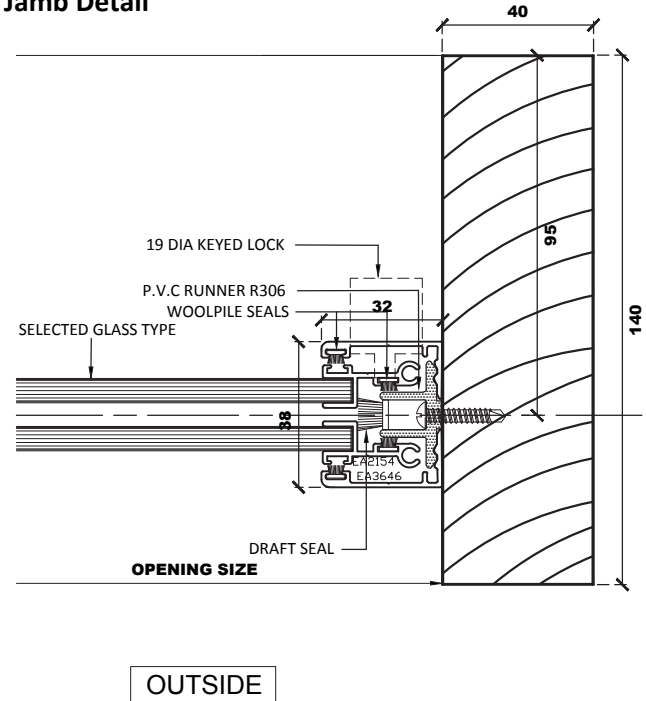
Head Detail



Typical Lap Detail



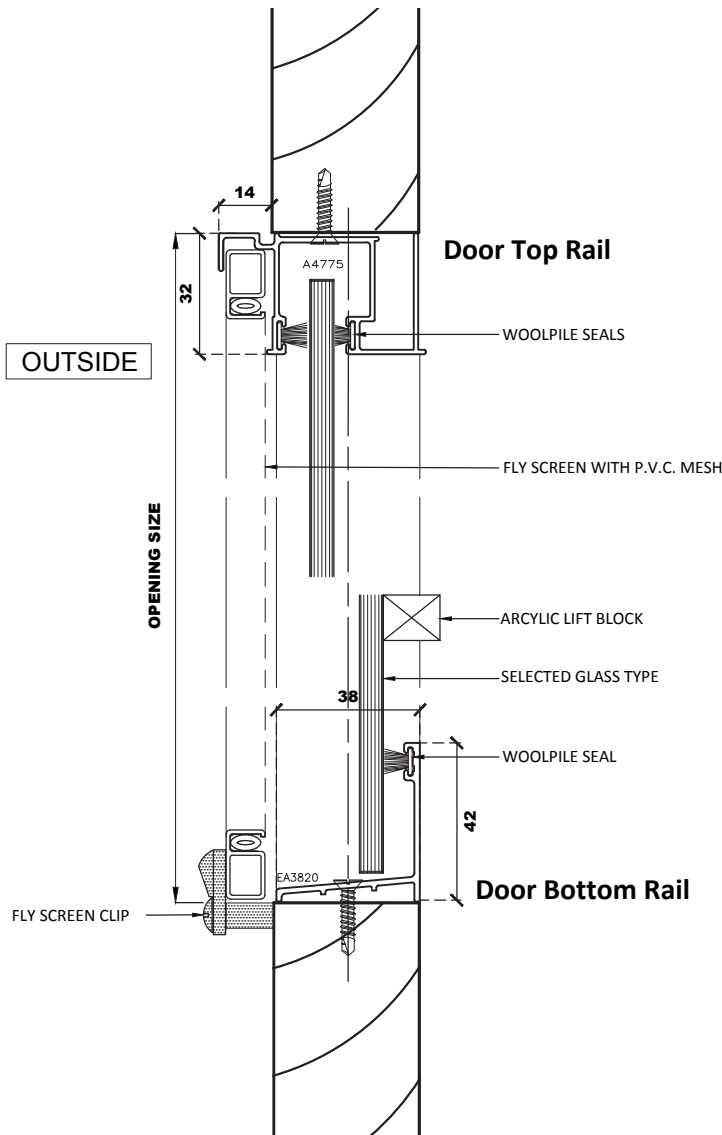
Jamb Detail



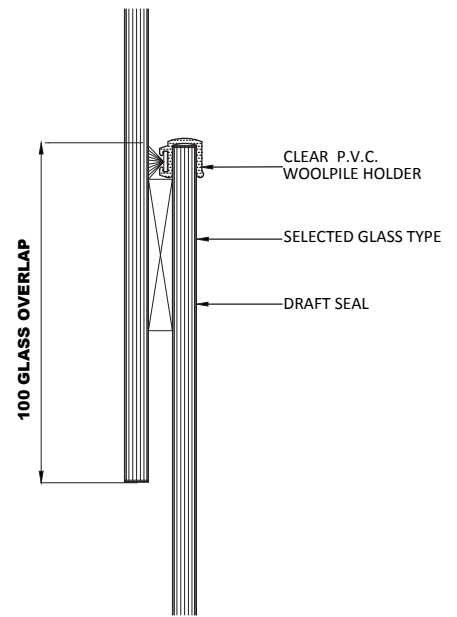
Sill Detail



TOP RAIL, BOTTOM RAIL AND STILE

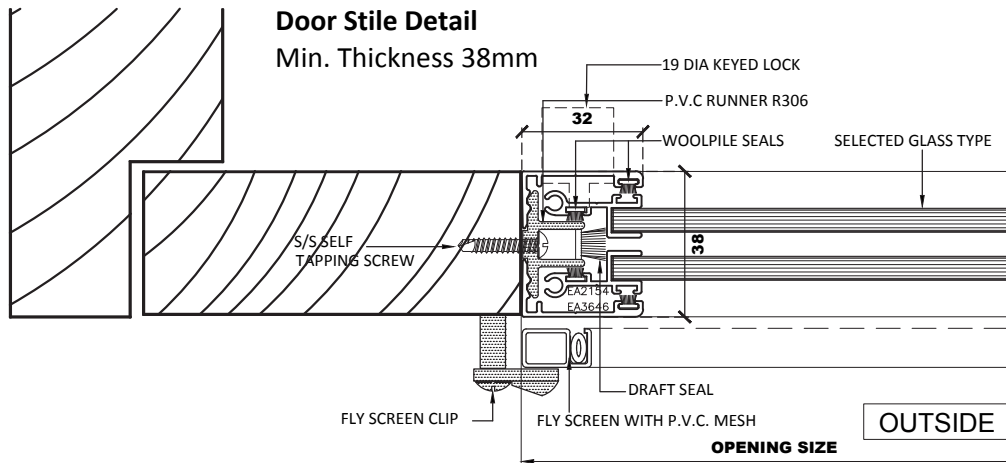


Glass Overlap Detail



Door Stile Detail

Min. Thickness 38mm



Australian Standard 2047

FEATURES

2 or 3 panels of glass of which 1 or 2 are operable
Accepts IGU's consisting of various makeups to equate to 18mm
Available in vertically sliding and horizontally sliding
Optional fly or security screens
Adaptable to suit most commercial framing systems
Adaptable to suit flat timber framing systems
Adaptable to suit door frames 58mm or thicker
Adaptable to be single sliding and/or sill-less to close onto bench tops
Lockable in closed and partially open position by a keyed or pin lock
Aluminium lift rail

SPECIFICATION TEXT

Frame Types

Sashless Windows

Sashless windows to be manufactured by Austview Sashless Windows using the double glazed sashless window system.

Sashless windows to include [aluminium / timber] guides [inside only / inside and out]

Timber guides to be [KDHW / Western Red Cedar] N/A for aluminium sashless windows

Sashless windows to be operated by aluminium lift rail, finish: [black anodised / to suit perimeter framing]

Sashless windows [to include / not to include] [flyscreen / security screen]

Selected sashless windows to be engineered, manufactured and installed by Austview Sashless Windows or an equivalent and approved fabricator of Austview Sashless Windows.

To be engineered, manufactured and installed in accordance with:

AS 2047-2048 (windows in buildings)

AS/NZS 1170 (loading code)

AS/NZS 1664 (aluminium structures code)

Selected glazing (18mm)

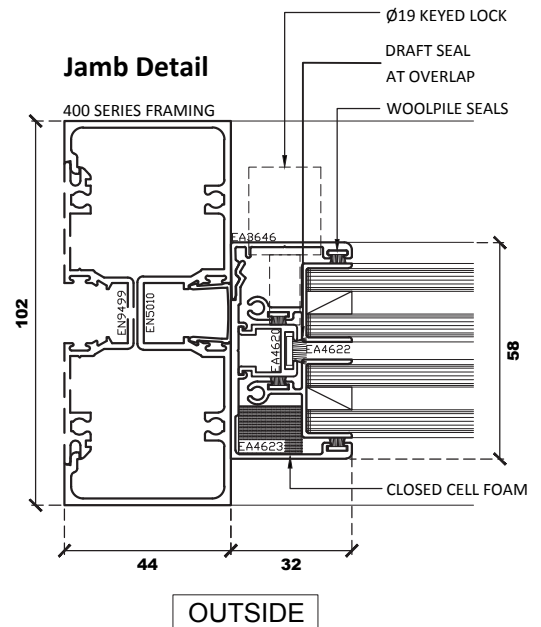
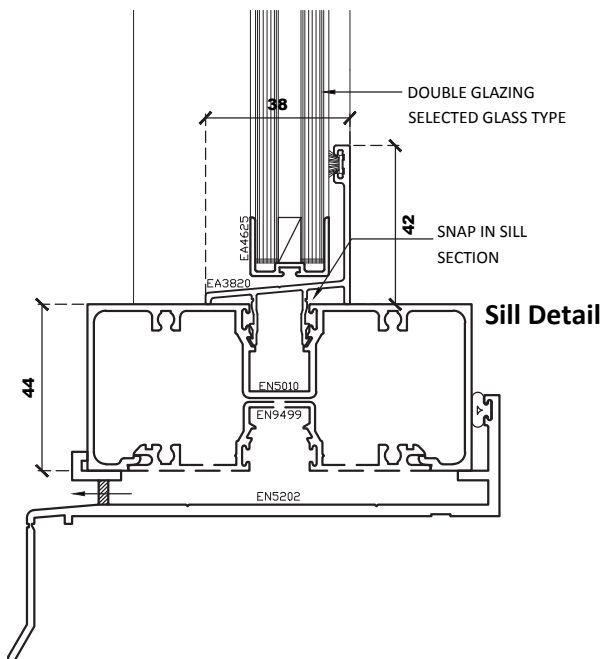
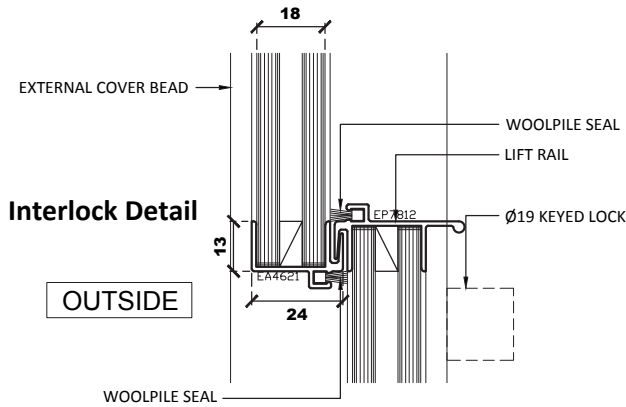
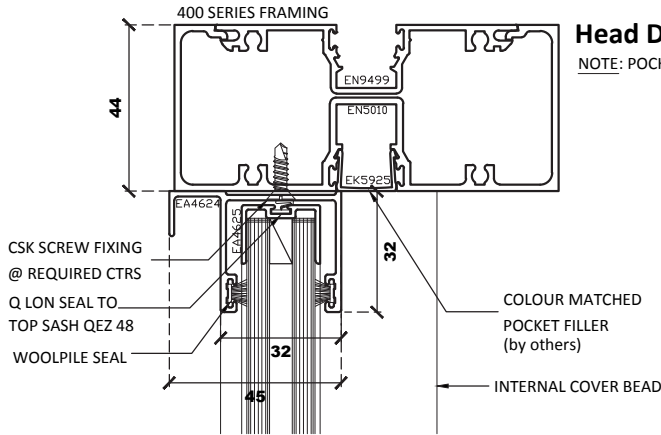
Selected glazing to be in accordance with performance requirements as set out in AS 1288 (glass in buildings)

Finish: (Colour) [Powdercoat / Anodised] finish to aluminium



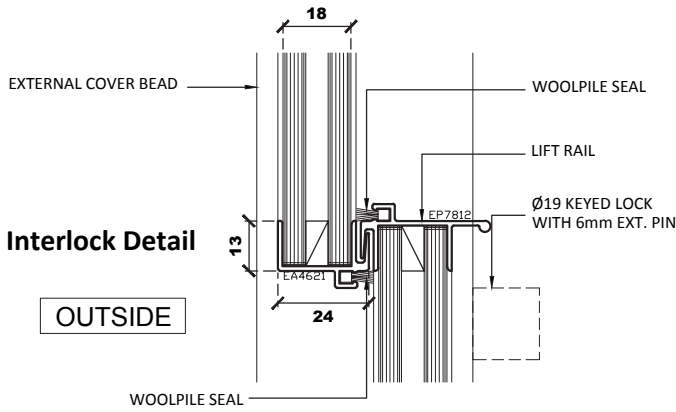
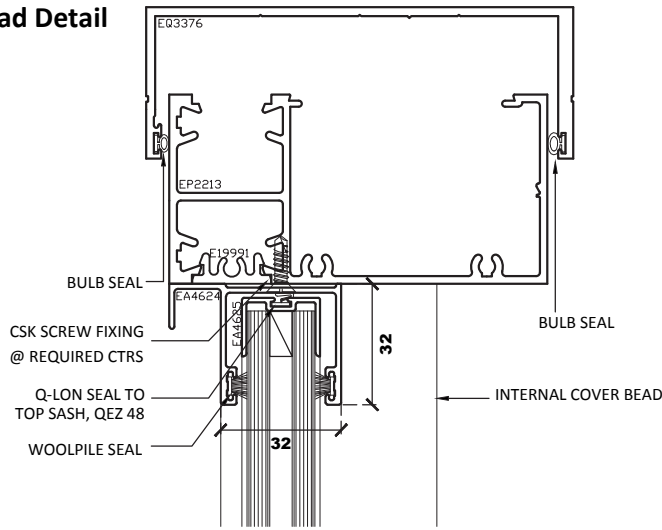
Australian Standard 2047

HEAD, SILL AND JAMB



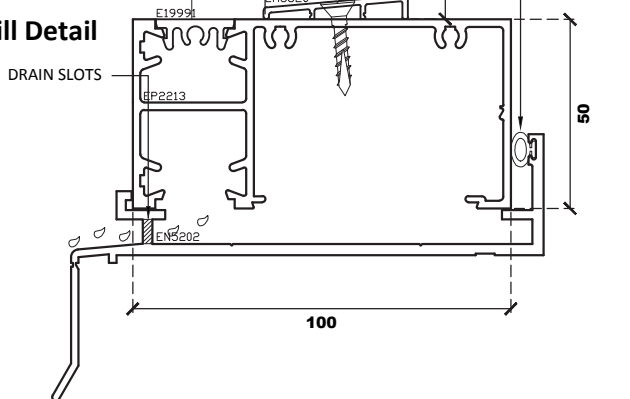
HEAD, SILL AND JAMB

Head Detail

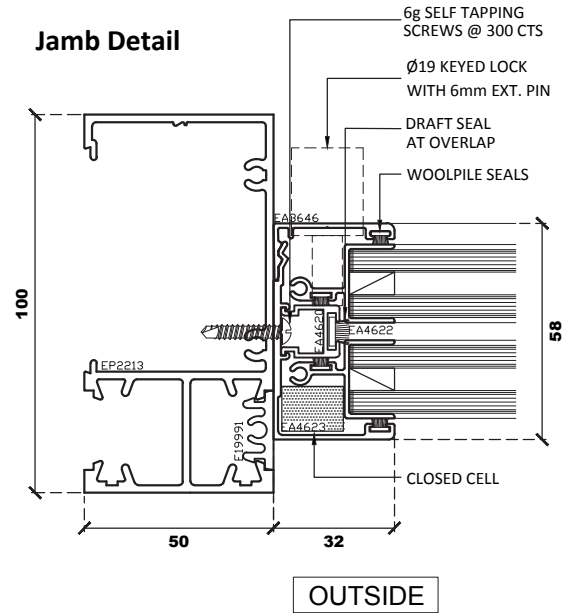


OUTSIDE

Sill Detail



Jamb Detail

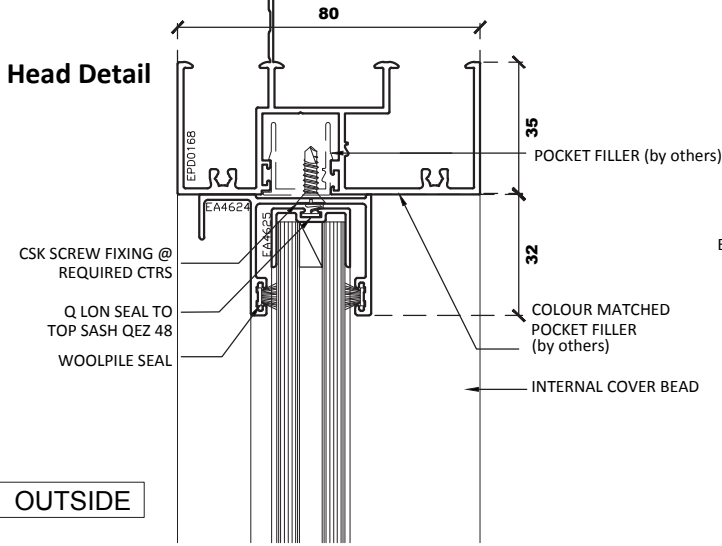


OUTSIDE

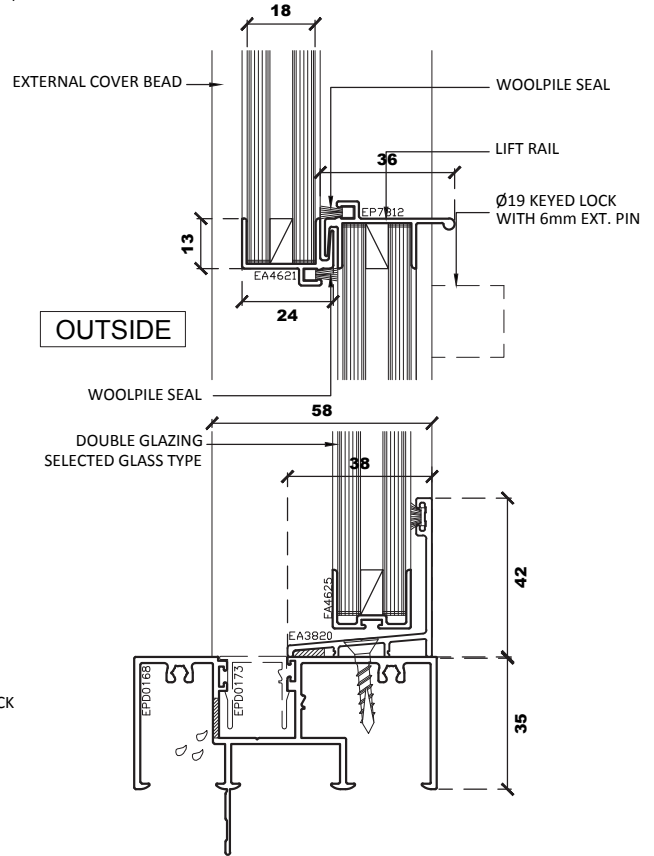


HEAD, SILL AND JAMB

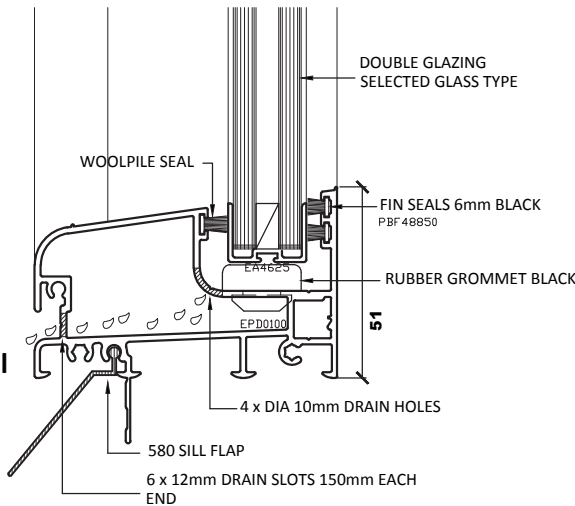
Head Detail



Interlock Detail

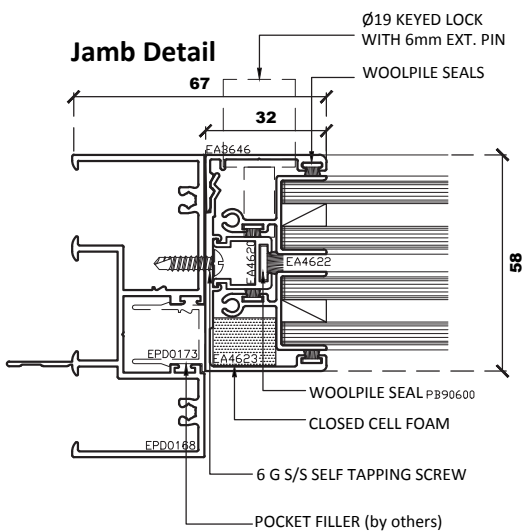


Sill Detail

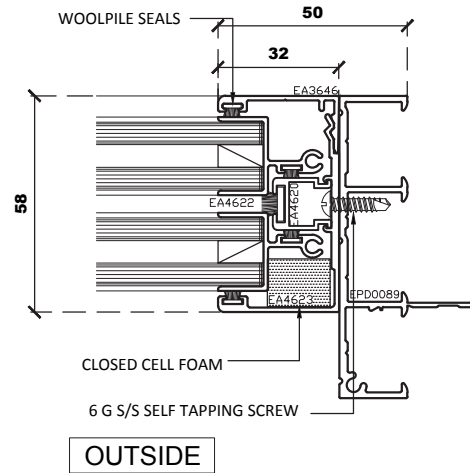


Optional Sill Detail
(recommended with use of subsill)

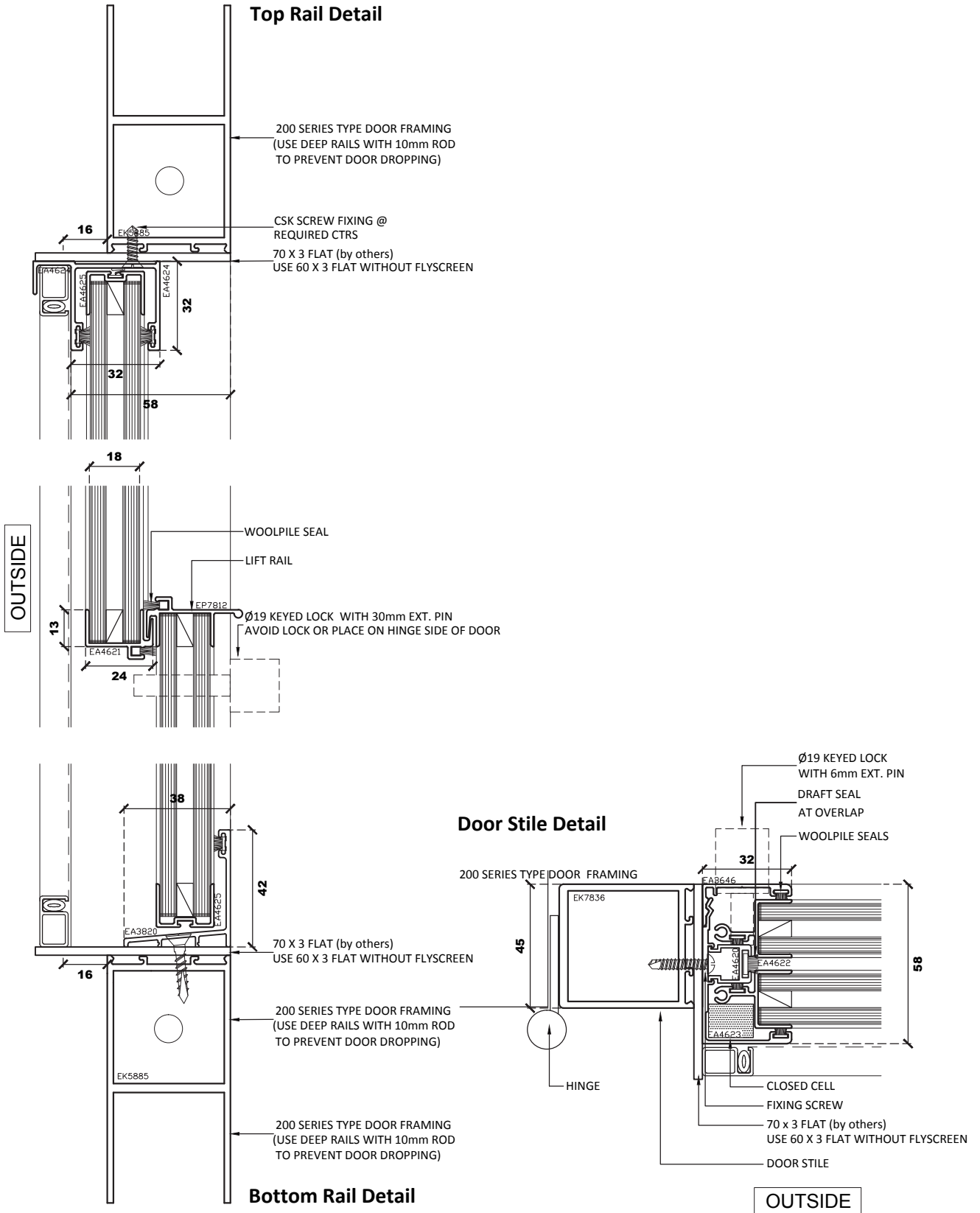
Jamb Detail



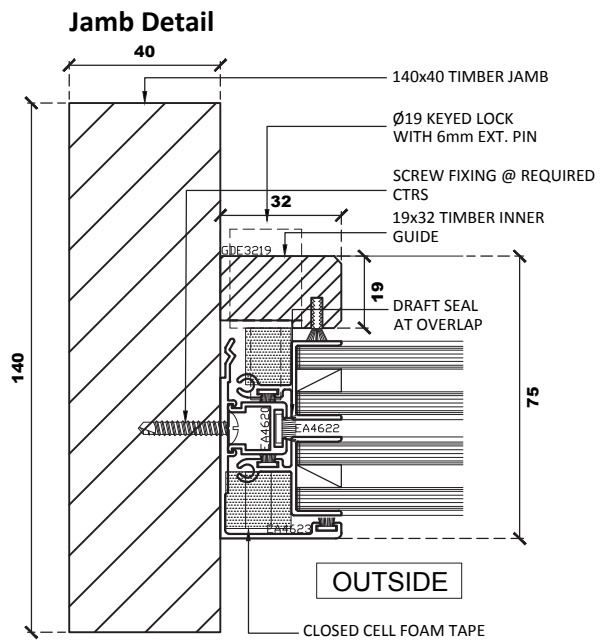
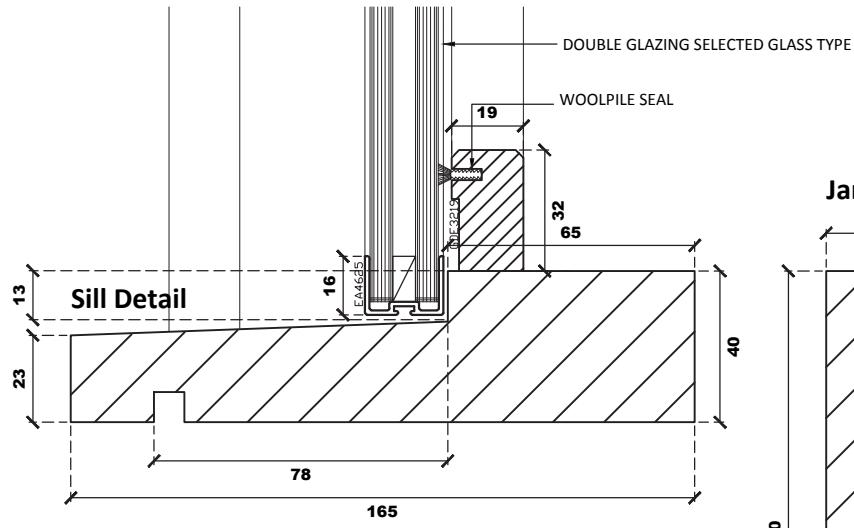
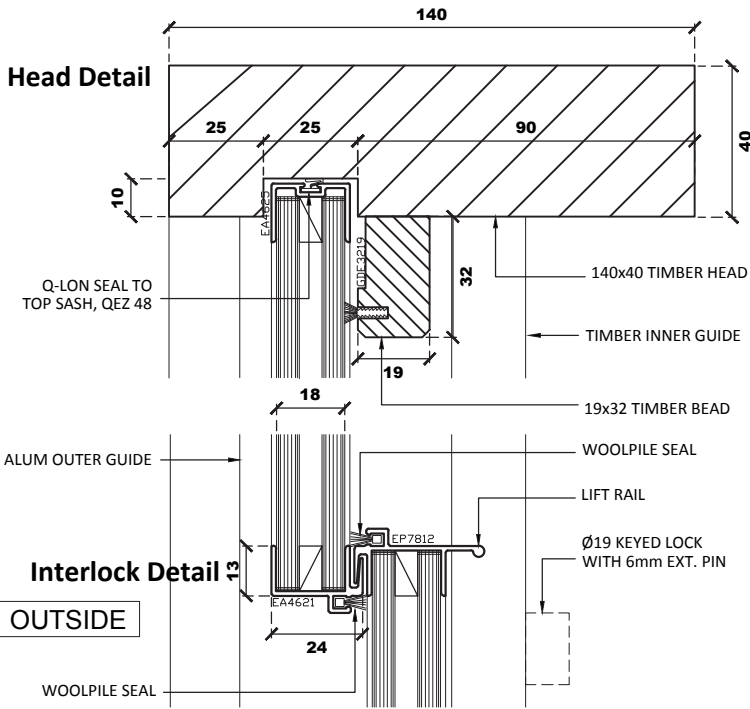
Jamb Detail



TOP RAIL, BOTTOM RAIL AND STILE

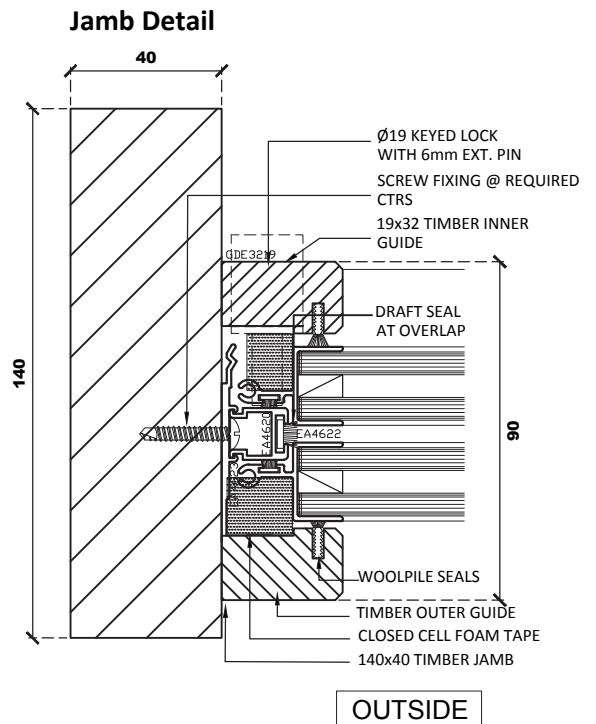
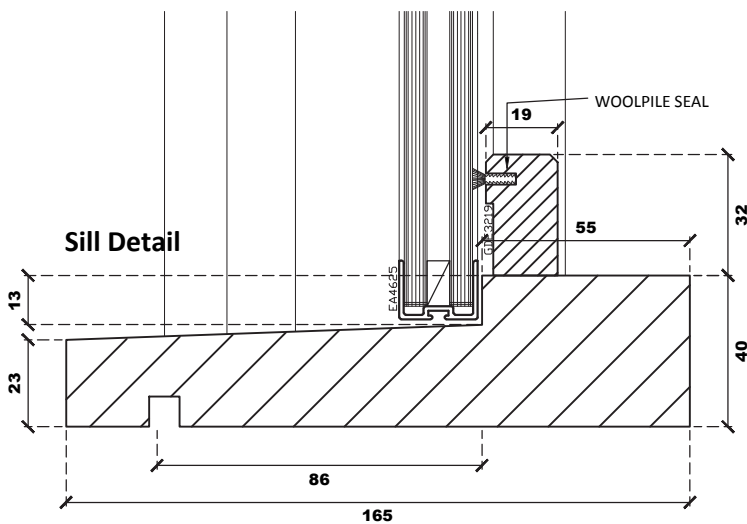
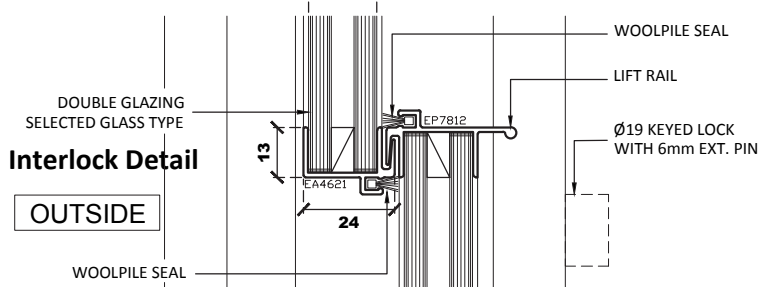
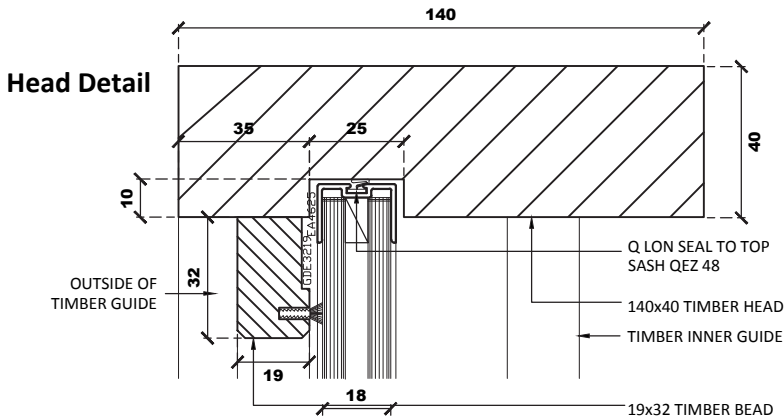


HEAD, SILL AND JAMB

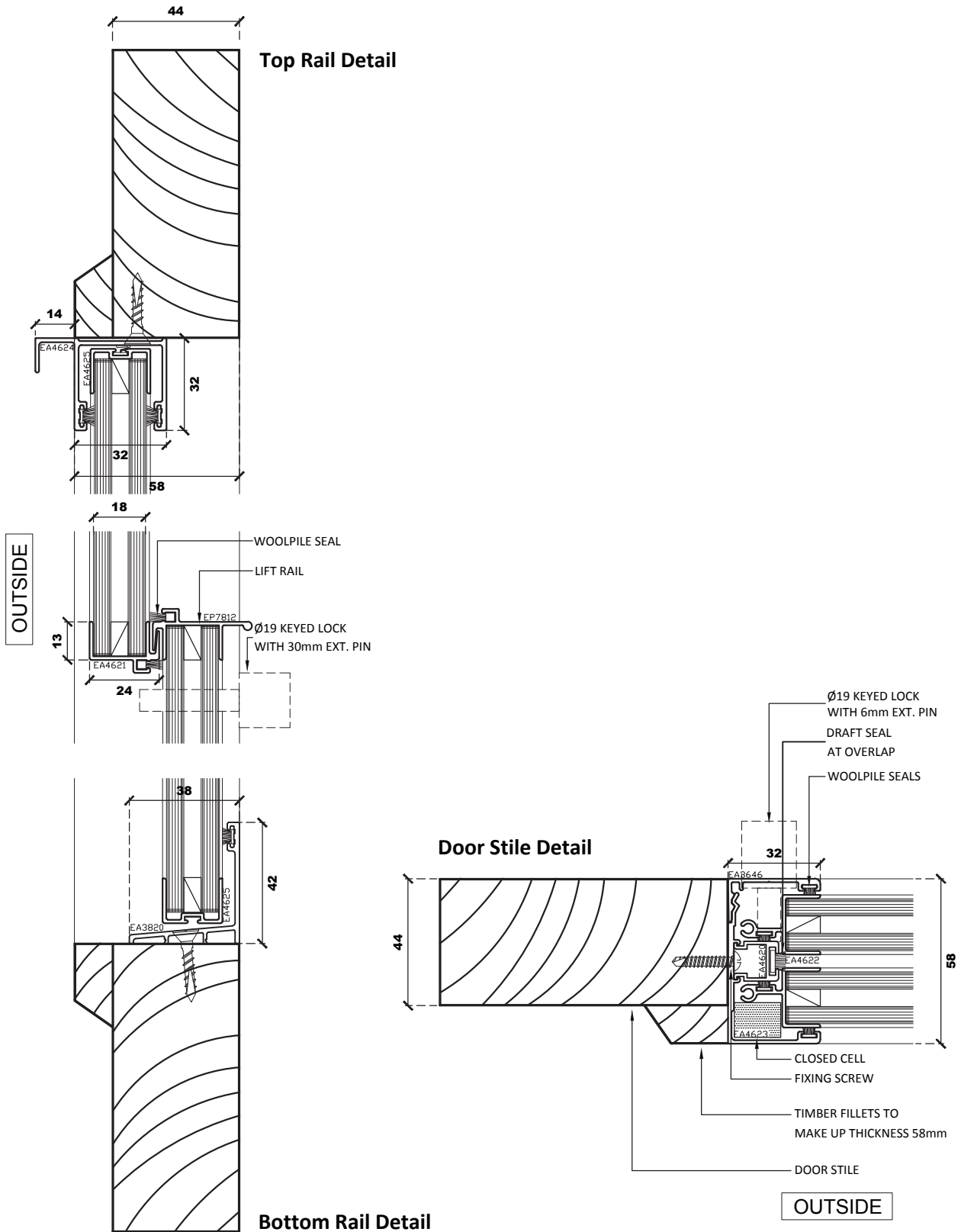


Australian Standard 2047

HEAD, SILL AND JAMB



TOP RAIL, BOTTOM RAIL AND STILE



Australian Standard 2047

FEATURES

1 operable frameless glass panels, sliding vertically and 1 or more fixed frameless glass panel
Accepts glass thicknesses from 6mm – 10.5mm
Optional fly or security screens
Adaptable to suit most commercial framing systems
Adaptable to suit flat timber framing systems
Lockable in closed and partially open position by a keyed or pin lock
Range of jamb and mullion options for various appearances
Optional sill-less system suitable for a servery type window, closing on a benchtop
Clear acrylic handles or optional aluminium lift rail

SPECIFICATION TEXT

Frame Types

Sashless Windows

Sashless windows to be manufactured by Austview Sashless Windows using the [single slide / servery] system

Sashless windows to include [aluminium / timber] guides [inside only / inside and out]

Timber guides to be [KDHW / Western Red Cedar] N/A for aluminium sashless windows

Sashless windows to be operated by [acrylic lift block / aluminium continuous lift rail]

Sashless windows [to include / not to include] [flyscreen / security screen]

Sashless windows to be manufactured in accordance with [standard / optional] jamb and or mullion detail as attached

Selected sashless windows to be engineered, manufactured and installed by Austview Sashless Windows or an equivalent and approved fabricator of Austview Sashless Windows.

To be engineered, manufactured and installed in accordance with:

AS 2047-2048 (windows in buildings)

AS/NZS 1170 (loading code)

AS/NZS 1664 (aluminium structures code)

Selected glazing (6mm-10mm)

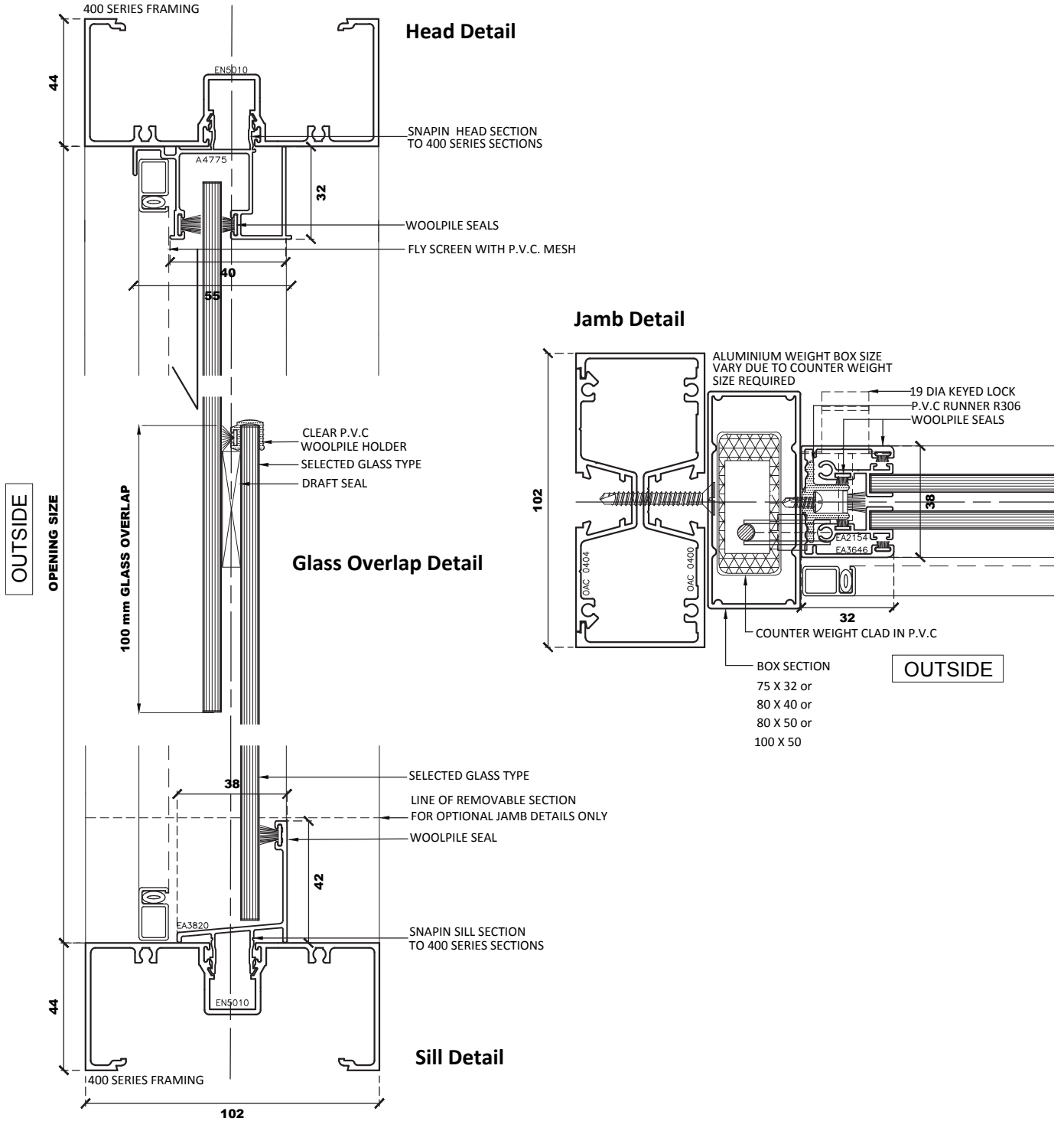


Australian Standard 2047

AUSTVIEW SASHLESS SINGLE SLIDE WINDOW,
FIXED TO CAPRAL 400 SERIES FRAME



HEAD, SILL AND JAMB



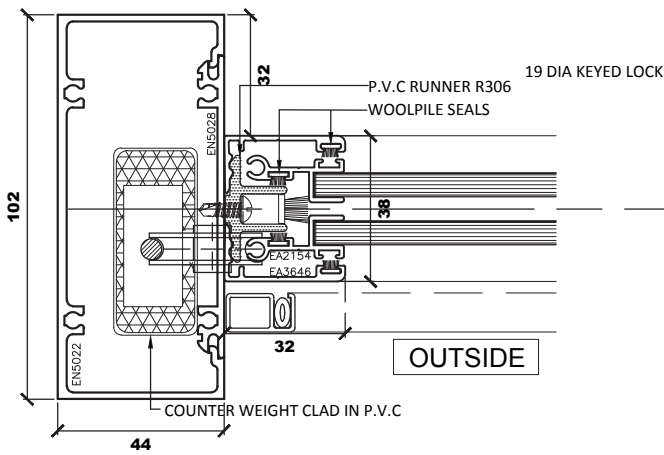
Australian Standard 2047

OPTIONAL JAMB AND MULLION

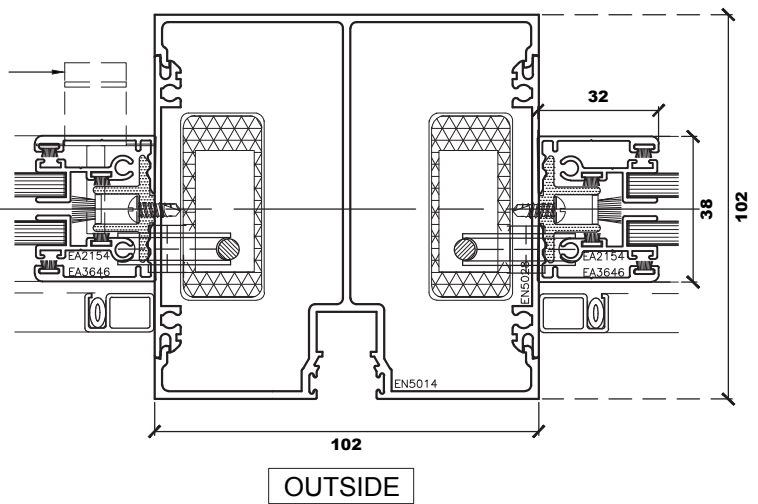
NOTE

FOR WINDOW WIDTH WIDER THAN 1200mm
USE MULLION DETAIL A OR B OF THE
STANDARD SINGLE SLIDE SASHLESS WINDOW

Optional Jamb Detail A

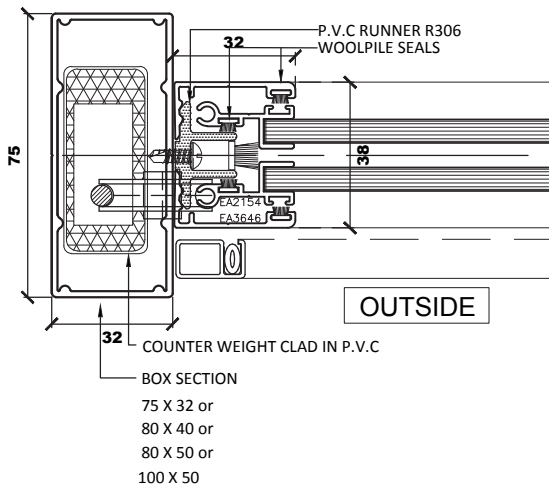


Optional Mullion Detail A



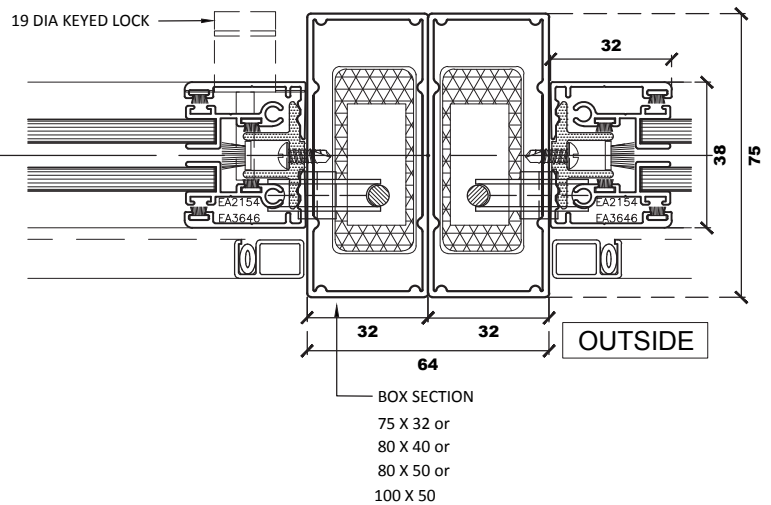
Optional Jamb Detail B

ALUMINIUM WEIGHT BOX SIZE
VARY DUE TO COUNTER WEIGHT
SIZE REQUIRED



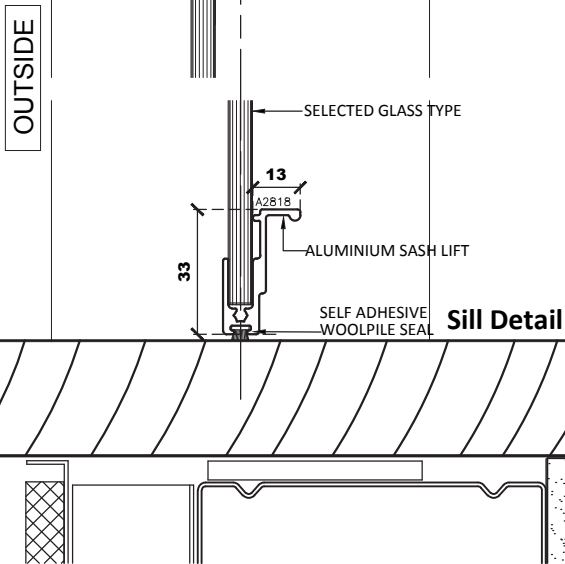
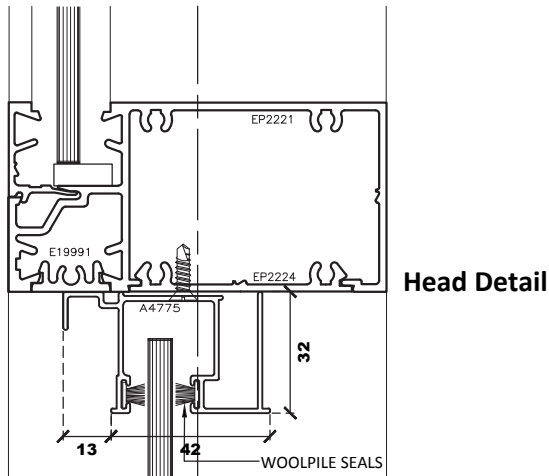
Optional Mullion Detail B

ALUMINIUM WEIGHT BOX SIZE
VARY DUE TO COUNTER WEIGHT
SIZE REQUIRED

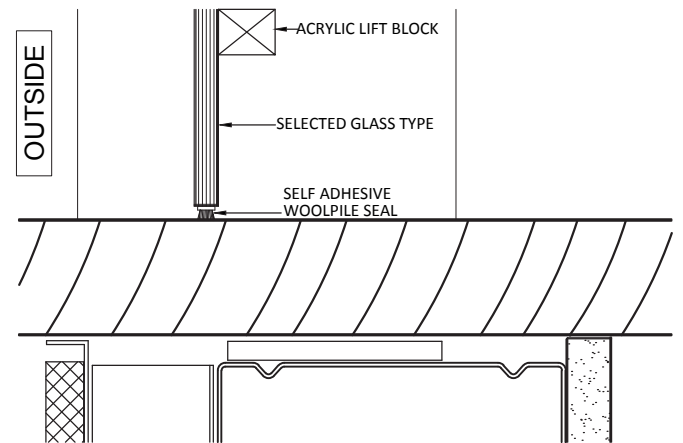


Australian Standard 2047

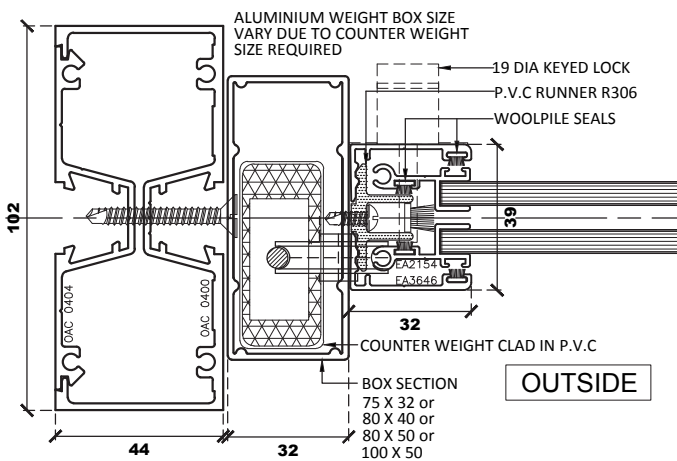
HEAD, SILL AND JAMB



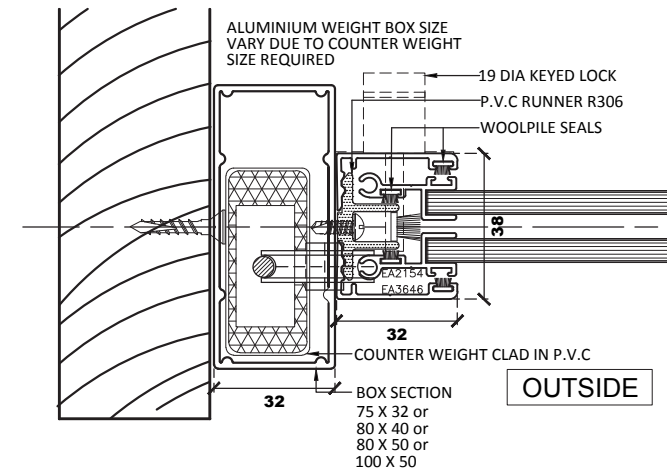
Optional Sill Detail



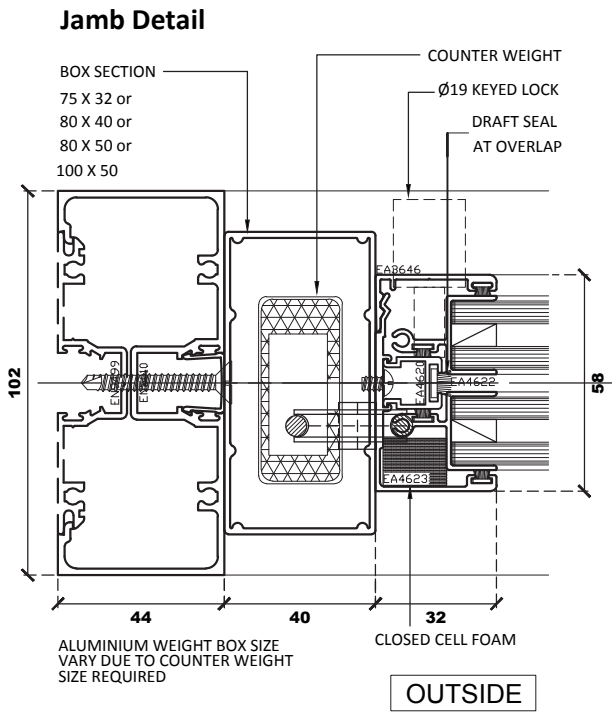
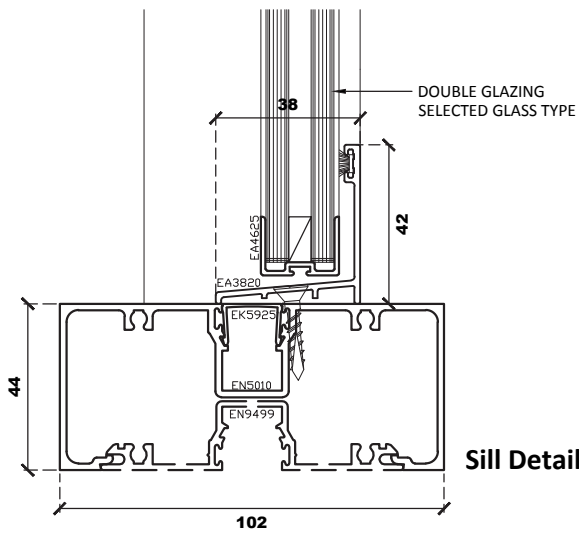
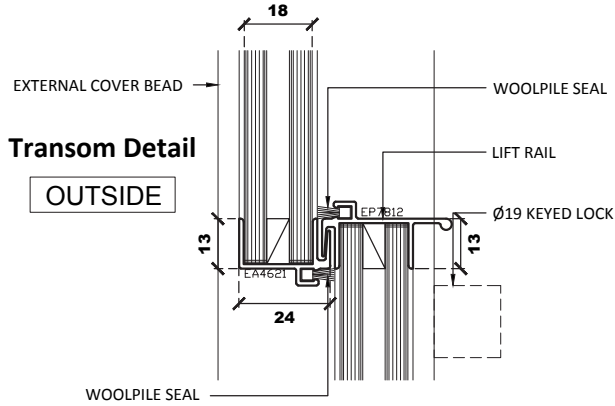
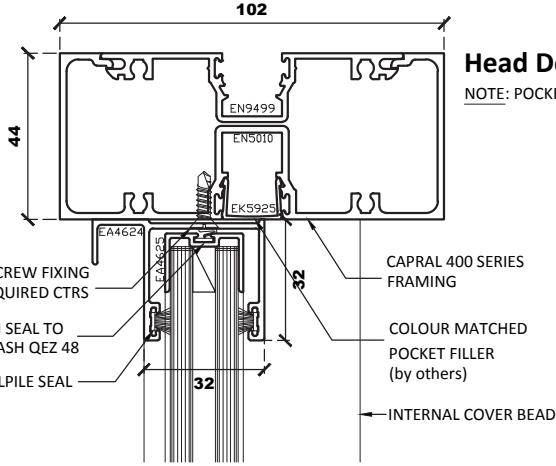
Aluminium Jamb Detail



Timber Jamb Detail



HEAD, SILL AND JAMB



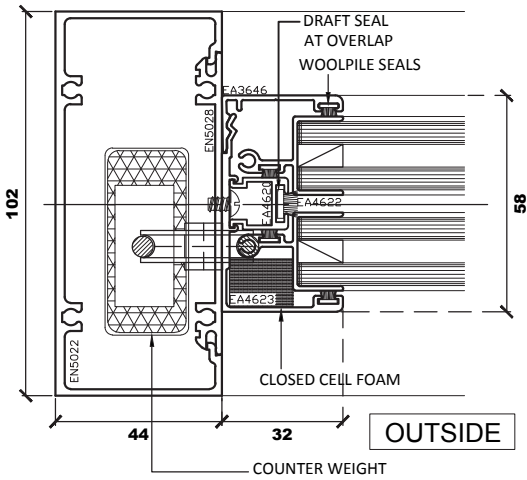
Australian Standard 2047

OPTIONAL JAMB AND MULLION

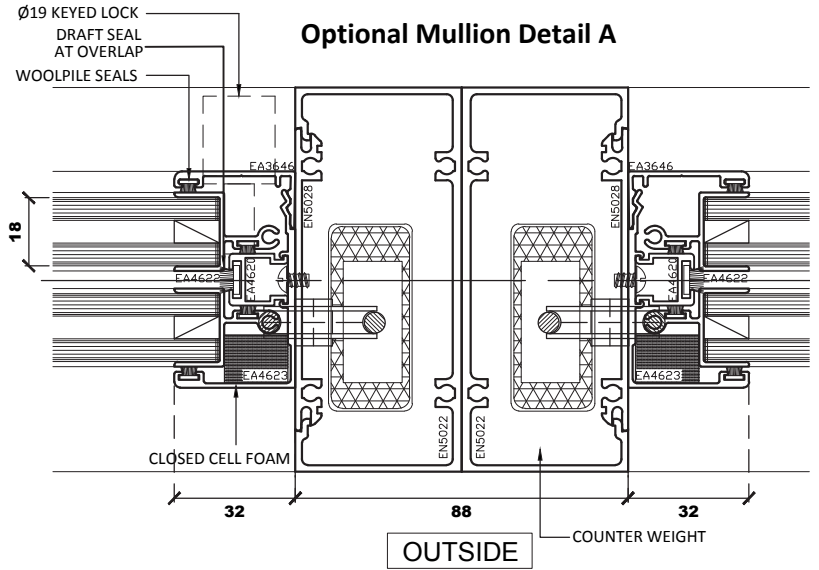
NOTE

FOR WINDOW WIDTH WIDER THAN 1200mm
USE MULLION DETAIL A OR B OF THE
STANDARD SINGLE SLIDE SASHLESS WINDOW

Optional Jamb Detail A

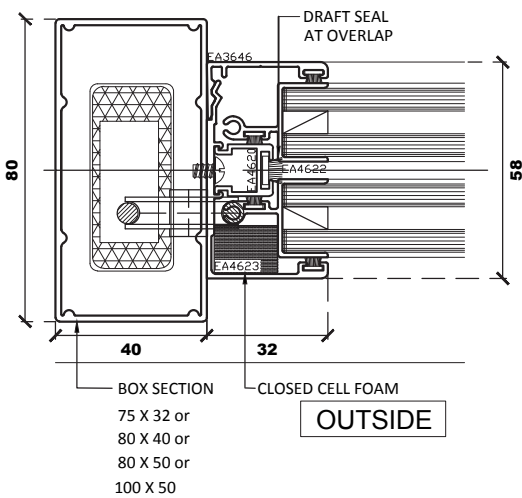


Optional Mullion Detail A



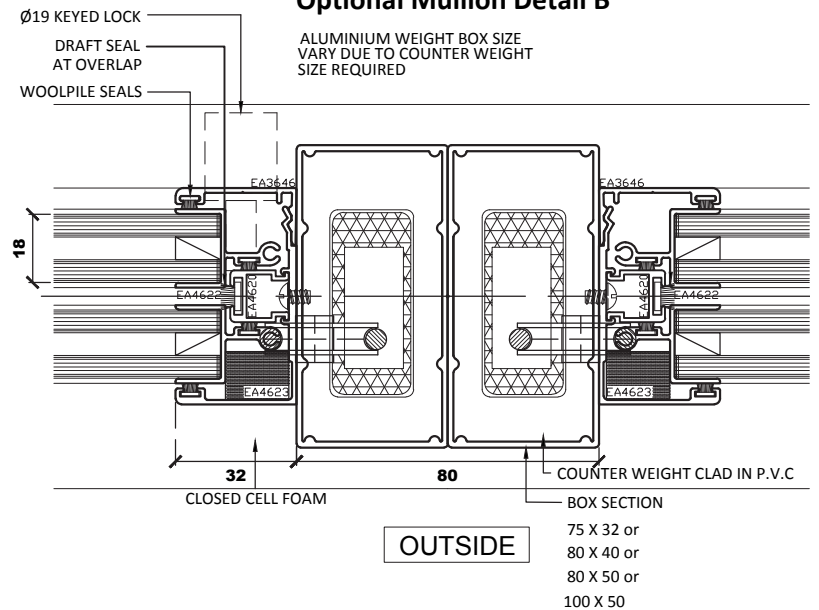
Optional Jamb Detail B

ALUMINIUM WEIGHT BOX SIZE
VARY DUE TO COUNTER WEIGHT
SIZE REQUIRED



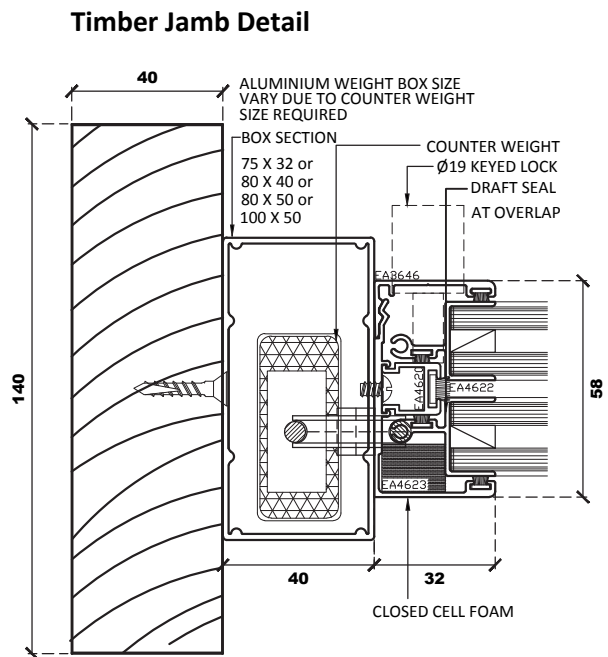
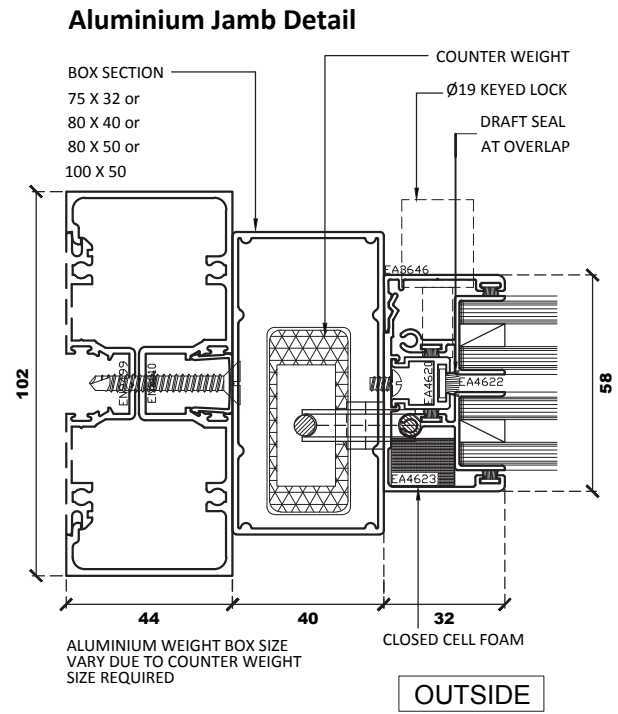
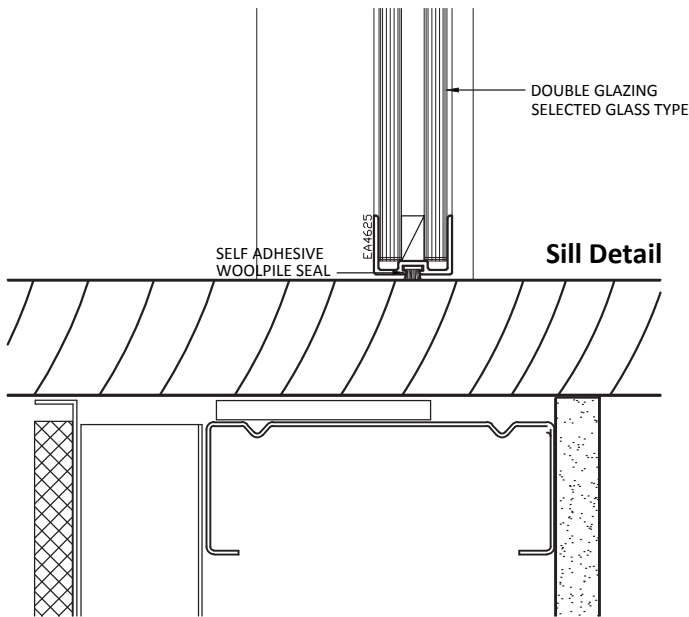
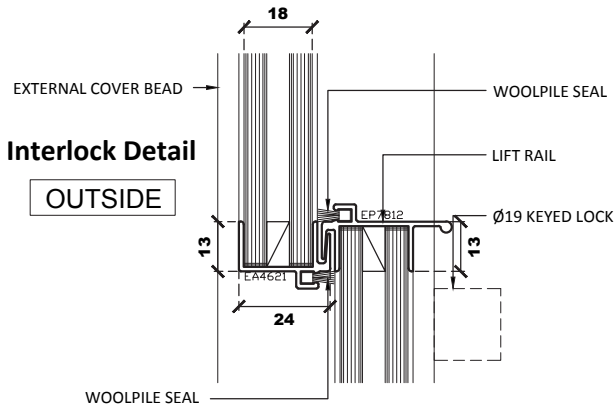
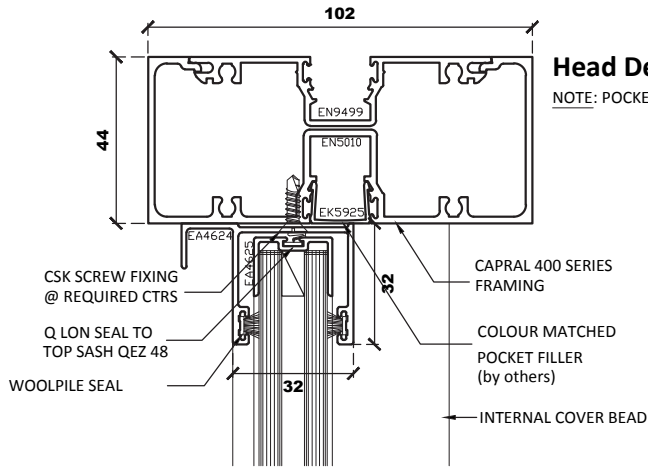
Optional Mullion Detail B

ALUMINIUM WEIGHT BOX SIZE
VARY DUE TO COUNTER WEIGHT
SIZE REQUIRED



Australian Standard 2047

HEAD, SILL AND JAMB



FEATURES

3 frameless glass panels, of which 1 or 2 are operable
Accepts glass thicknesses from 6mm – 10.5mm, for double glazed options refer to the double glazed section
Optional fly or security screens
Adaptable to suit most commercial framing systems
Adaptable to suit flat timber framing systems
Lockable in closed and partially open position by a keyed or pin lock
Clear acrylic handles or optional aluminium lift rail

SPECIFICATION TEXT

Frame Types

Sashless Windows

Sashless windows to be manufactured by Austview Sashless Windows using the 3 panel sashless window system.

Sashless windows to include [aluminium / timber] guides [inside only / inside and out]

Timber guides to be [KDHW / Western Red Cedar] N/A for aluminium sashless windows

Sashless windows to be operated by [acrylic lift block / aluminium continuous lift rail]

Sashless windows [to include / not to include] [flyscreen / security screen]

Selected sashless windows to be engineered, manufactured and installed by Austview Sashless Windows or an equivalent and approved fabricator of Austview Sashless Windows.

To be engineered, manufactured and installed in accordance with:

AS 2047-2048 (windows in buildings)

AS/NZS 1170 (loading code)

AS/NZS 1664 (aluminium structures code)

Selected glazing (6mm-10mm)

Selected glazing to be in accordance with performance requirements as set out in AS 1288 (glass in buildings)

Finish: (Colour) [Powdercoat / Anodised] finish to aluminium

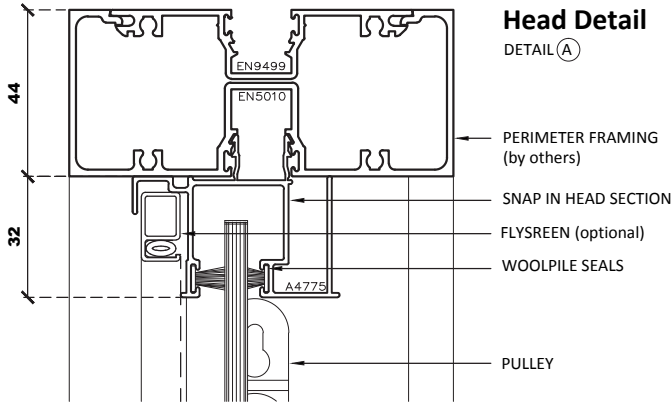


Australian Standard 2047

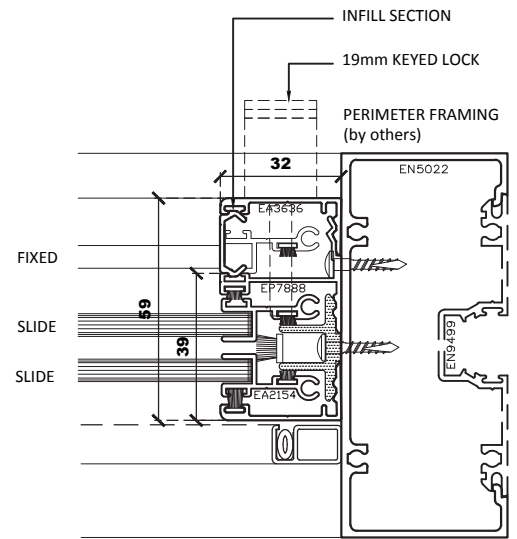
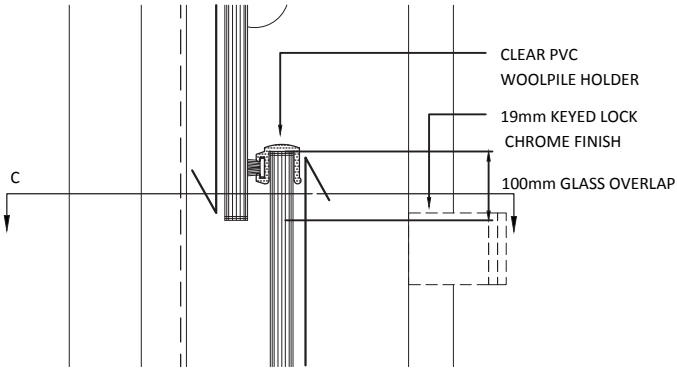
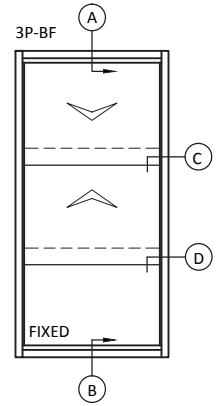
3 PANEL AUSTVIEW SASHLESS WINDOW BOTTOM FIXED,
FIXED TO CAPRAL 400 SERIES FRAME



HEAD, SILL AND JAMB

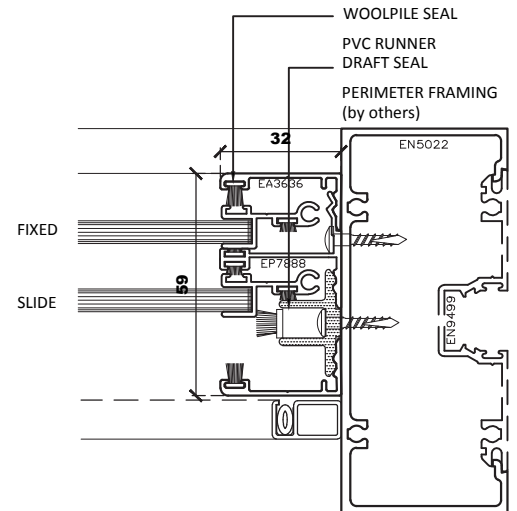
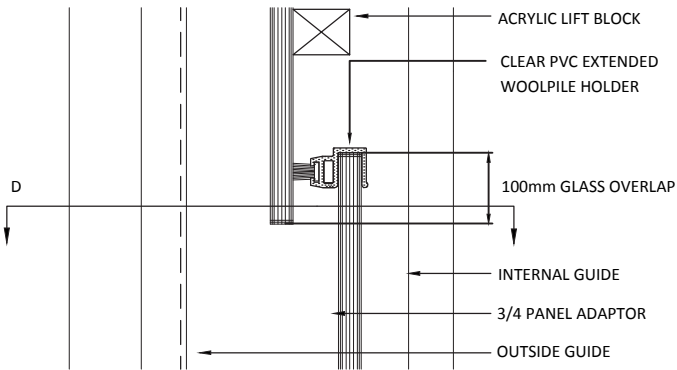


Head Detail
DETAIL (A)



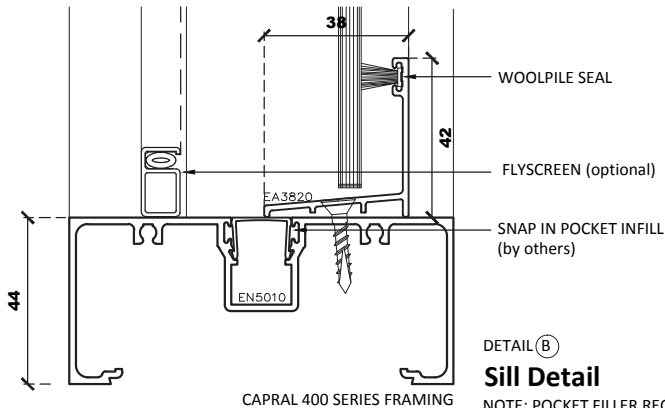
Jamb Detail
DETAIL (C)

OUTSIDE



Jamb Detail
DETAIL (D)

OUTSIDE



Sill Detail
DETAIL (B)

NOTE: POCKET FILLER REQUIRED AT SILL

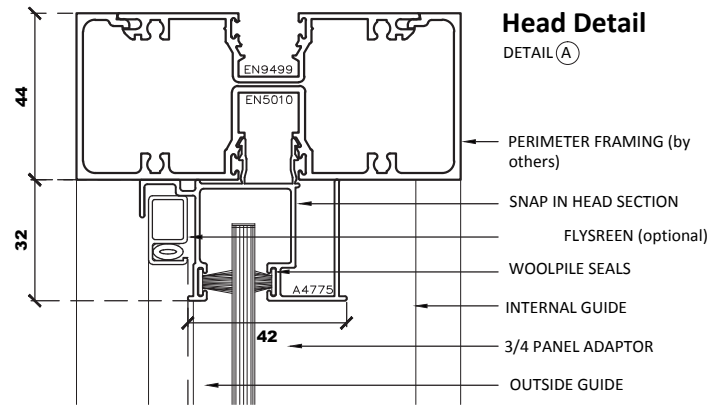


Australian Standard 2047

3 PANEL AUSTVIEW SASHLESS WINDOW TOP FIXED,
FIXED TO CAPRAL 400 SERIES FRAME

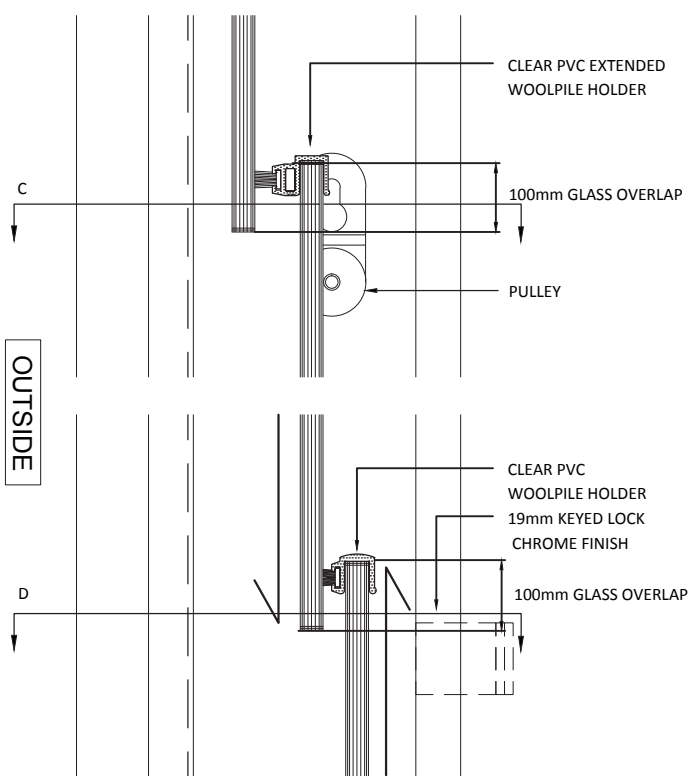
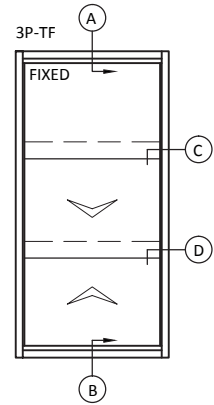


HEAD, SILL AND JAMB



Head Detail

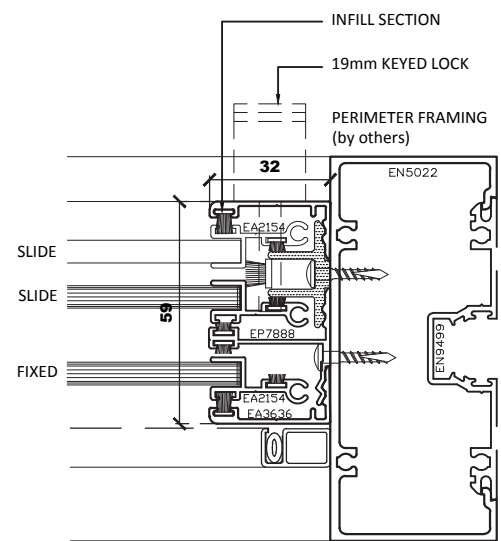
DETAIL (A)



OUTSIDE

C

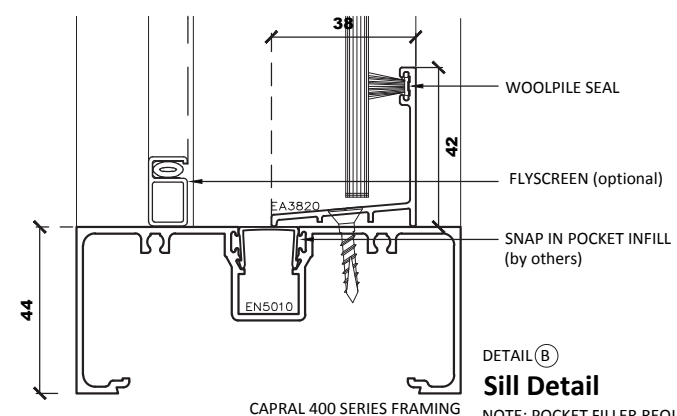
D



DETAIL (C)

Jamb Detail

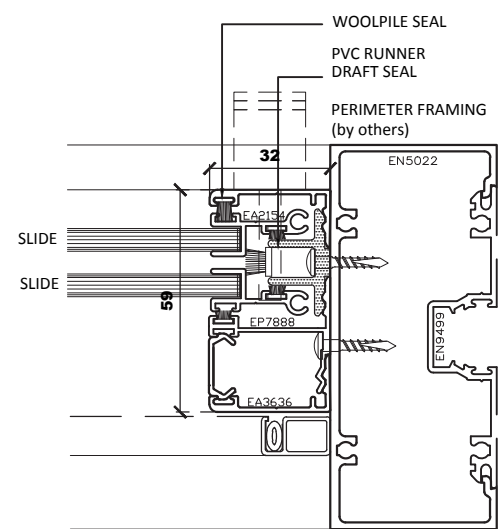
OUTSIDE



DETAIL (B)

Sill Detail

NOTE: POCKET FILLER REQUIRED AT SILL



DETAIL (D)

Jamb Detail

OUTSIDE

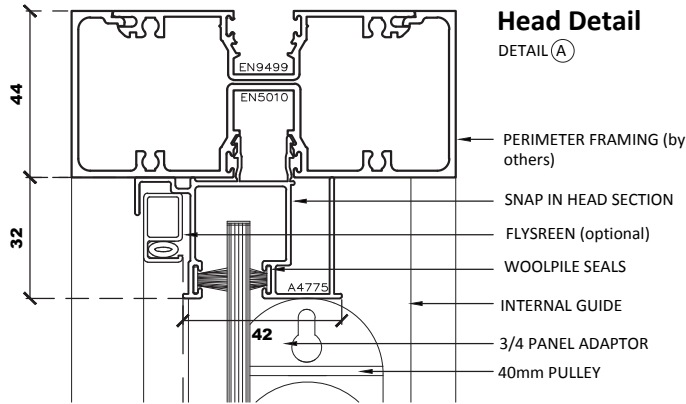


Australian Standard 2047

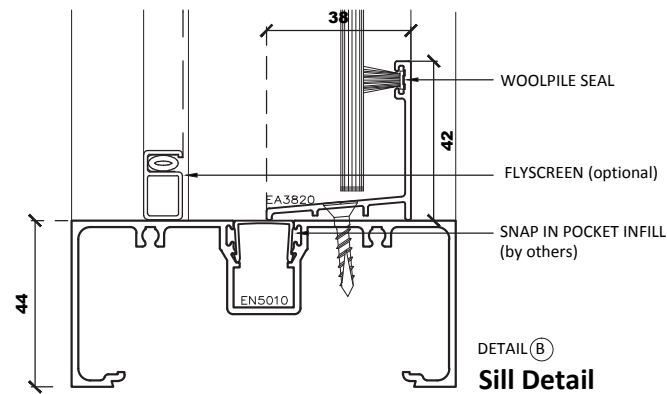
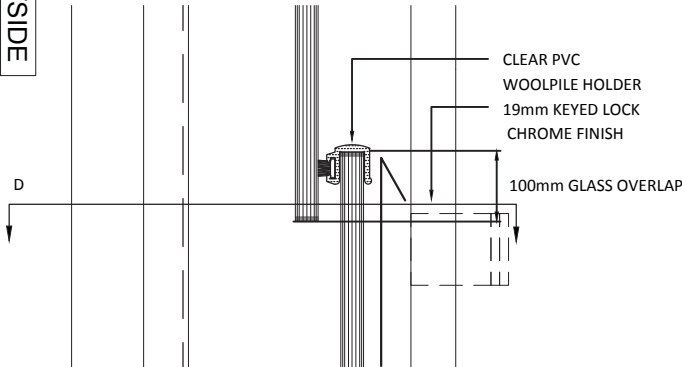
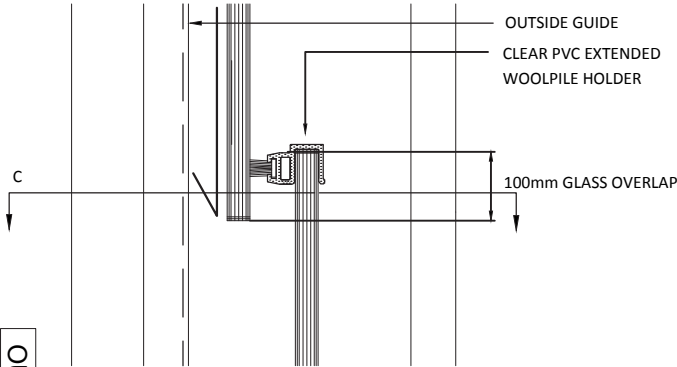
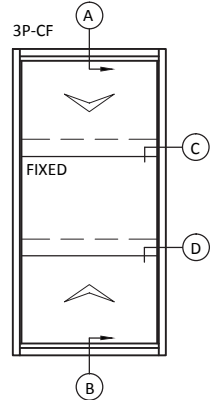
3 PANEL AUSTVIEW SASHLESS WINDOW CENTRE FIXED,
FIXED TO CAPRAL 400 SERIES FRAME



HEAD, SILL AND JAMB

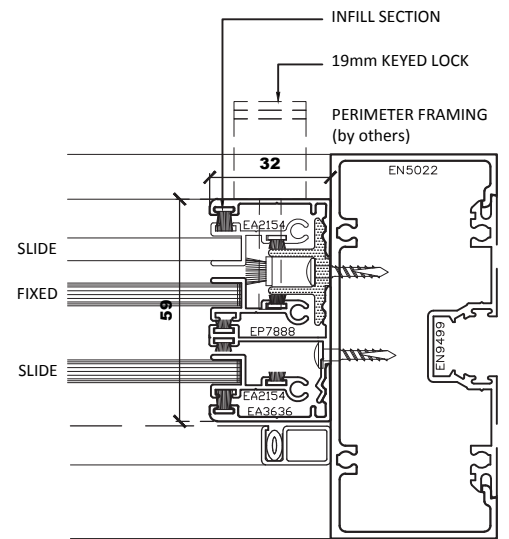


Head Detail
DETAIL (A)

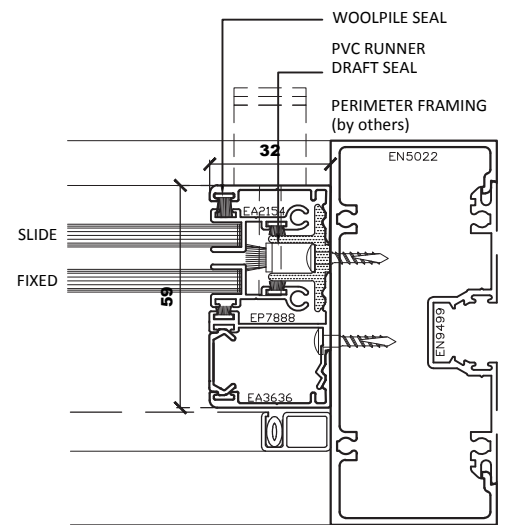


Sill Detail
DETAIL (B)

NOTE: POCKET FILLER REQUIRED AT SILL



Jamb Detail
DETAIL (C)



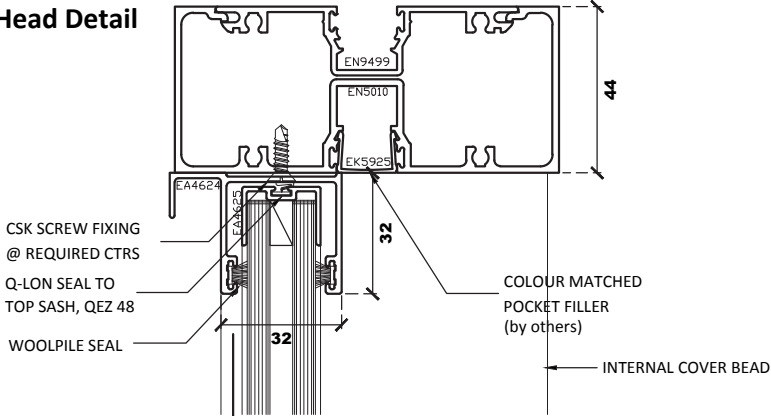
Jamb Detail
DETAIL (D)



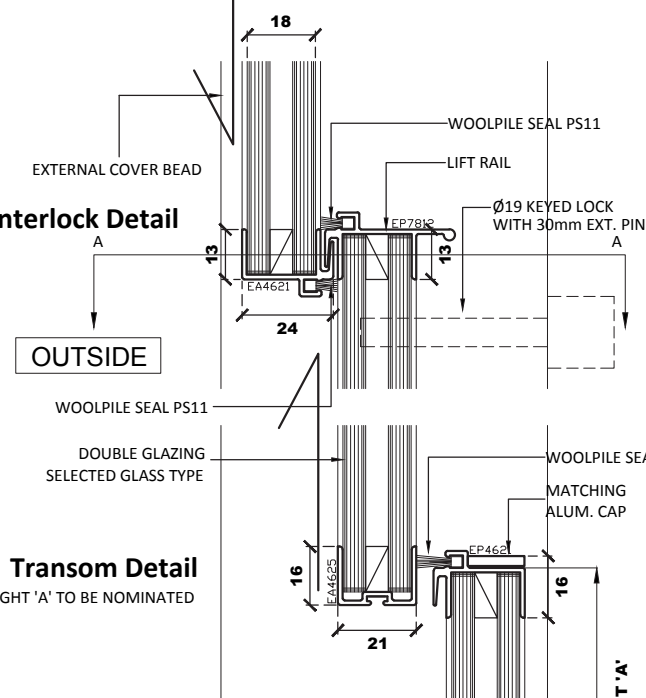
Australian Standard 2047

HEAD, SILL AND JAMB

Head Detail

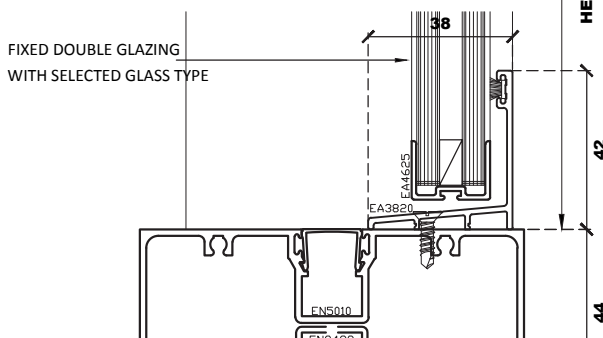


Interlock Detail

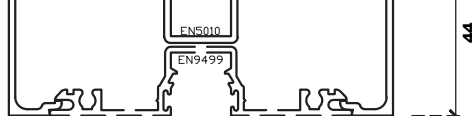


Transom Detail

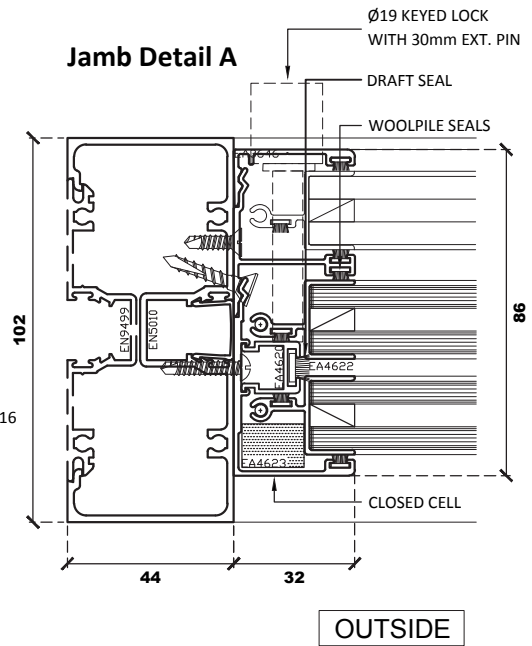
NOTE: HEIGHT 'A' TO BE NOMINATED



Sill Detail

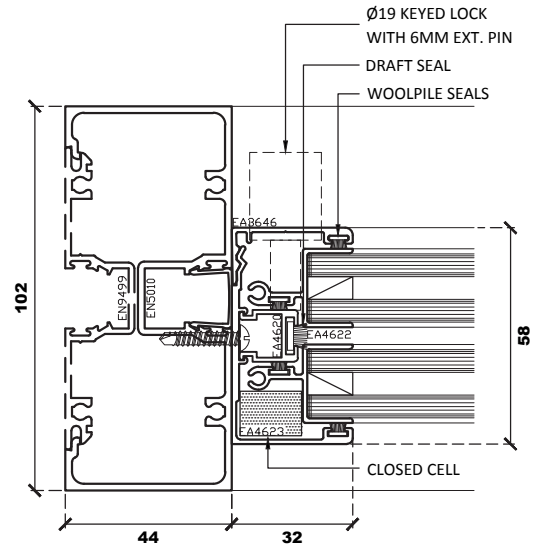
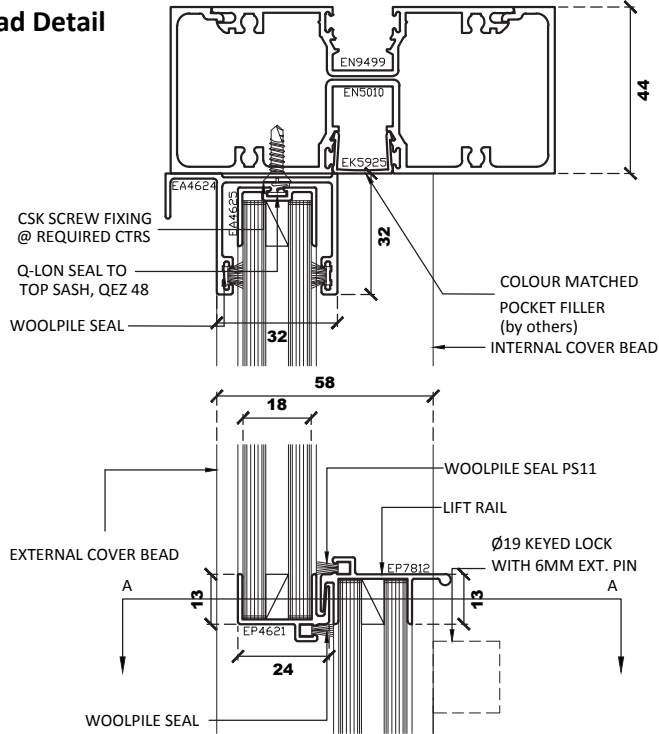


Jamb Detail A



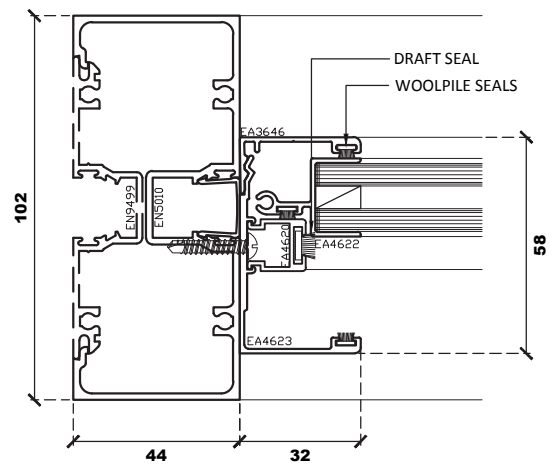
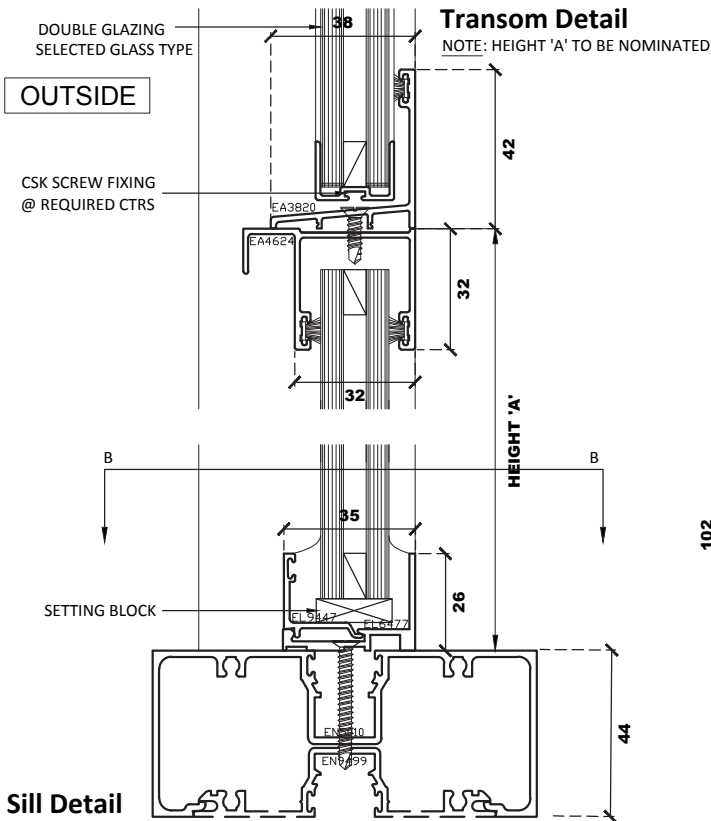
HEAD, SILL, TRANSOM AND JAMB

Head Detail



Jamb Detail A

OUTSIDE



Jamb Detail B

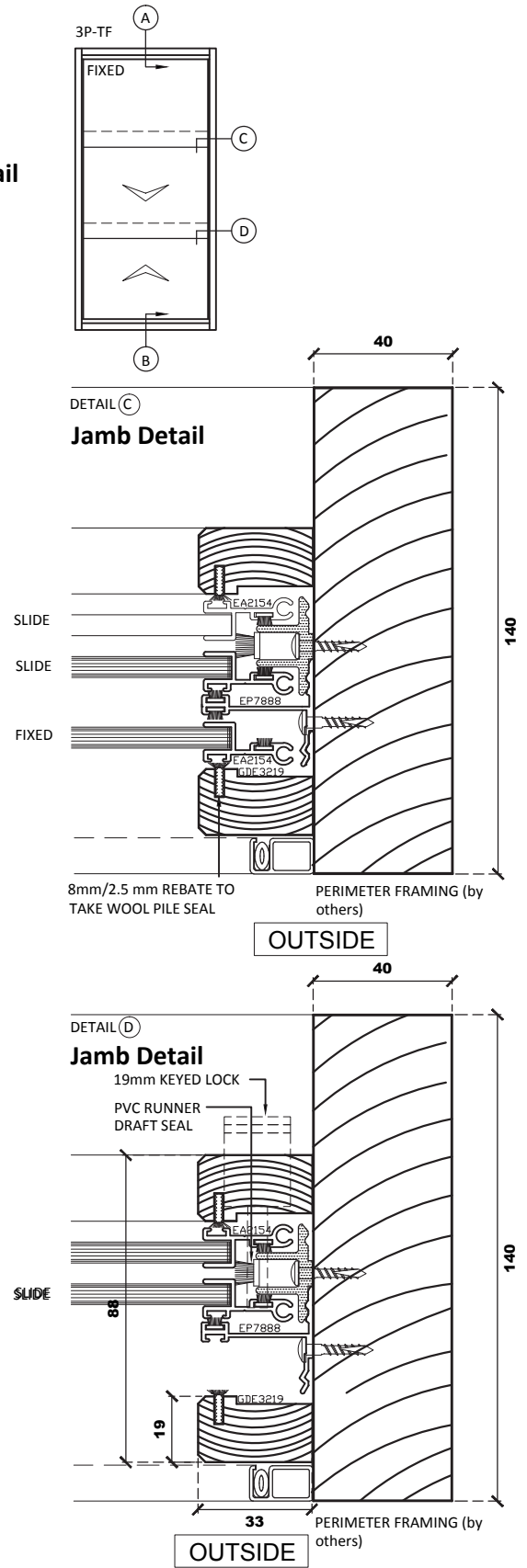
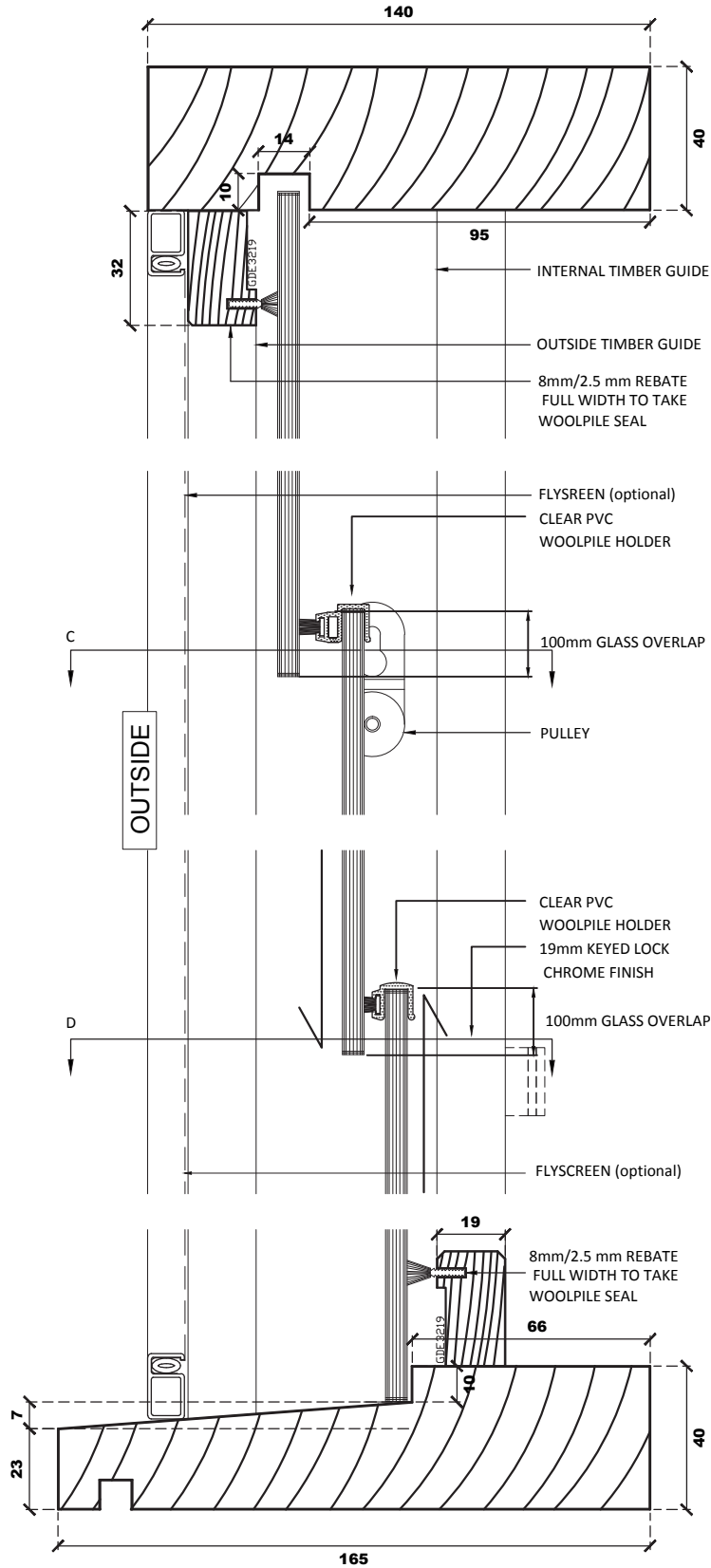
OUTSIDE



3 PANEL AUSTVIEW SASHLESS TIMBER WINDOW,
FIXED TO TIMBER FRAME



HEAD, SILL AND JAMB



Australian Standard 2047

FEATURES

4 frameless glass panels, of which 2 are operable and 2 are fixed
Accepts glass thicknesses from 6mm – 10.5mm, for double glazed options refer to the double glazed section
Optional fly or security screens
Adaptable to suit most commercial framing systems with a frame width of 80mm (single glazed) and 112mm (double glazed)
Adaptable to suit flat timber framing systems
Lockable in closed and partially open position by a keyed or pin lock
Clear acrylic handles or optional aluminium lift rail

SPECIFICATION TEXT

Frame Types

Sashless Windows

Sashless windows to be manufactured by Austview Sashless Windows using the 4 panel sashless window system.

Sashless windows to include [aluminium / timber] guides [inside only / inside and out]

Timber guides to be [KDHW / Western Red Cedar] N/A for aluminium sashless windows

Sashless windows to be operated by [acrylic lift block / aluminium continuous lift rail]

Sashless windows [to include / not to include] [flyscreen / security screen]

Selected sashless windows to be engineered, manufactured and installed by Austview Sashless Windows or an equivalent and approved fabricator of Austview Sashless Windows.

To be engineered, manufactured and installed in accordance with:

AS 2047-2048 (windows in buildings)

AS/NZS 1170 (loading code)

AS/NZS 1664 (aluminium structures code)

Selected glazing (6mm-10mm)

Selected glazing to be in accordance with performance requirements as set out in AS 1288 (glass in buildings)

Finish: (Colour) [Powdercoat / Anodised] finish to aluminium

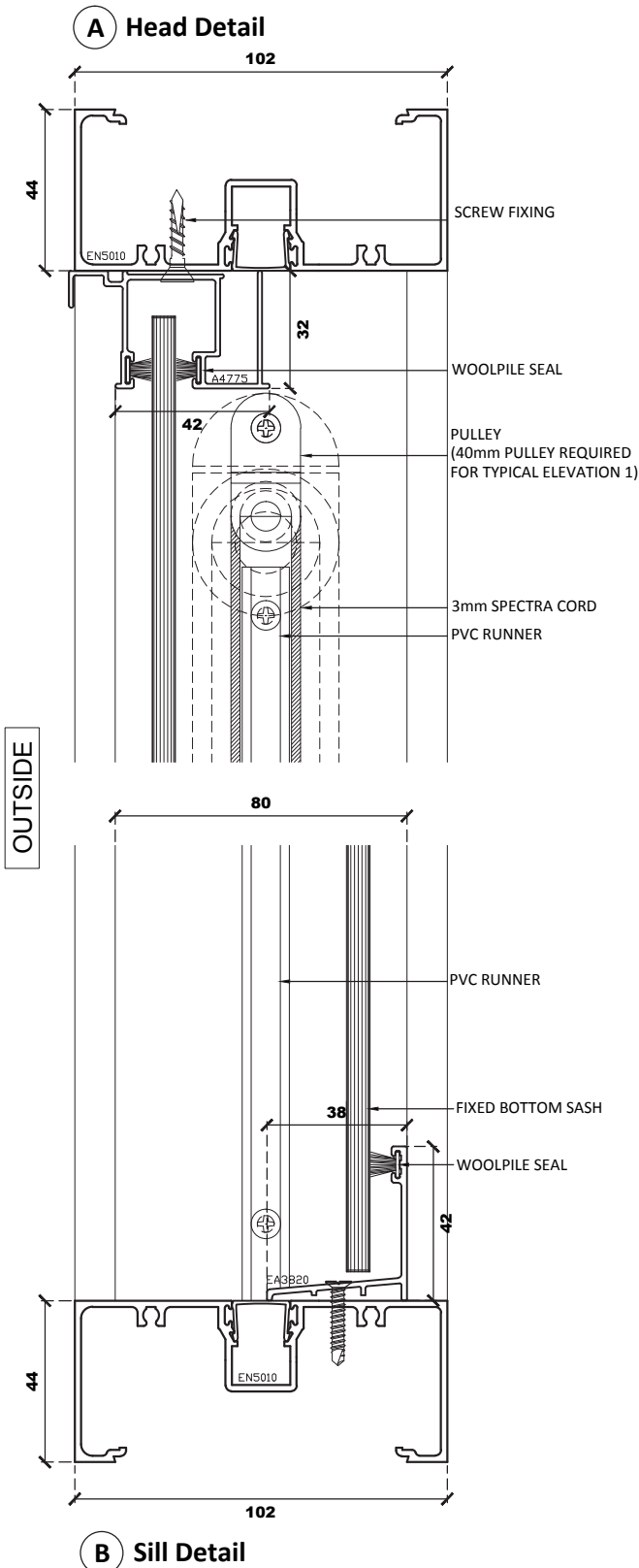


Australian Standard 2047

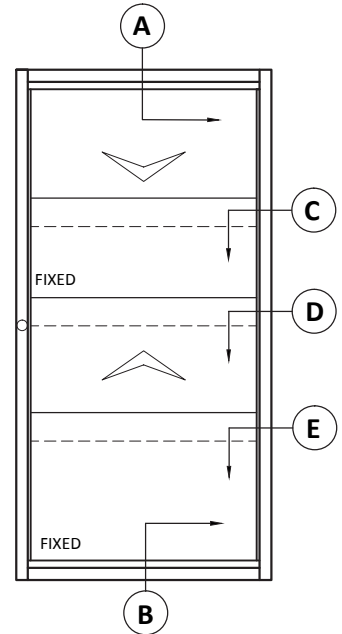
4 PANEL AUSTVIEW SASHLESS WINDOW,
FIXED TO CAPRAL 400 SERIES FRAME



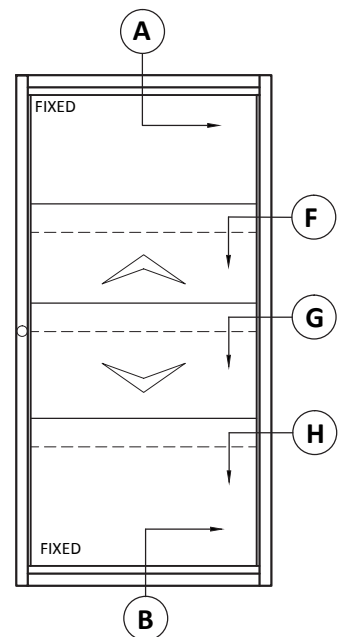
HEAD, SILL AND JAMB



Typical Elevation 1



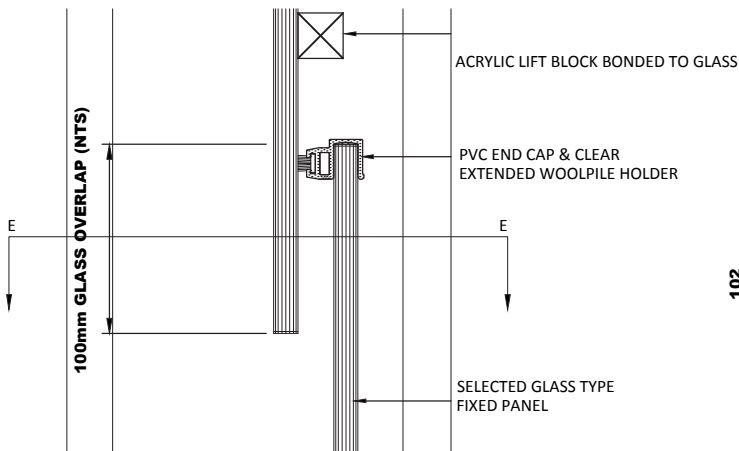
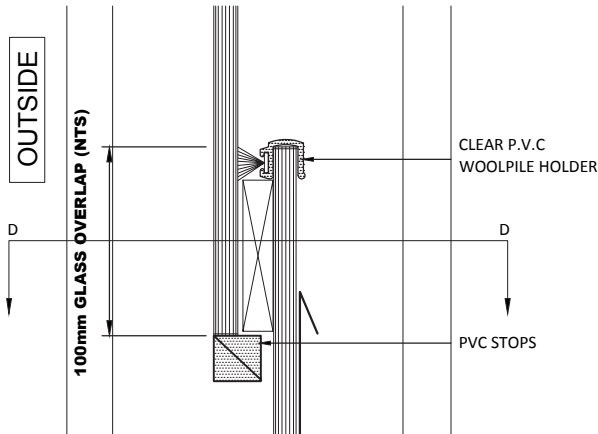
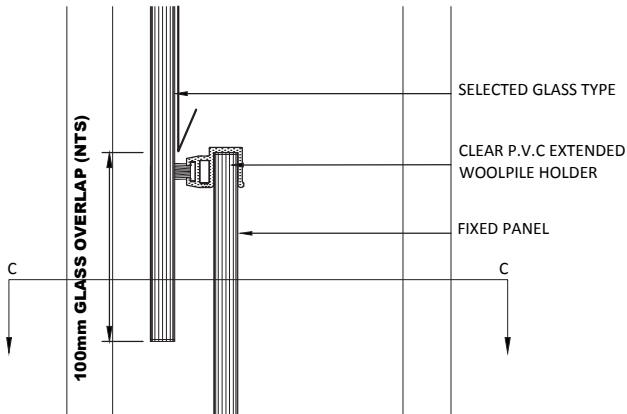
Typical Elevation 2



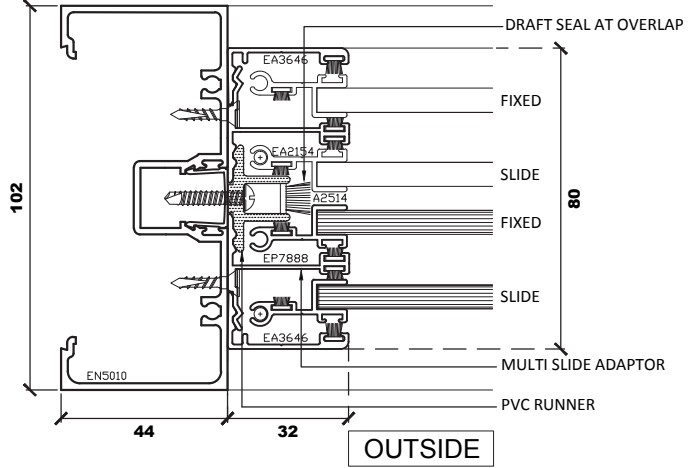
Australian Standard 2047

JAMB AND OVERLAP

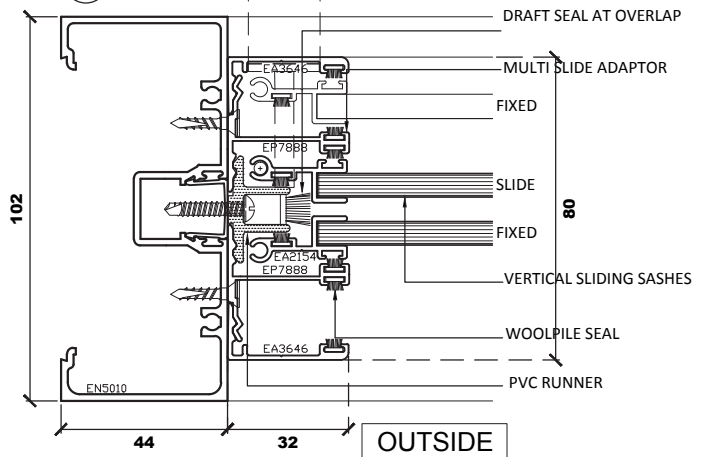
Glass Overlap Detail



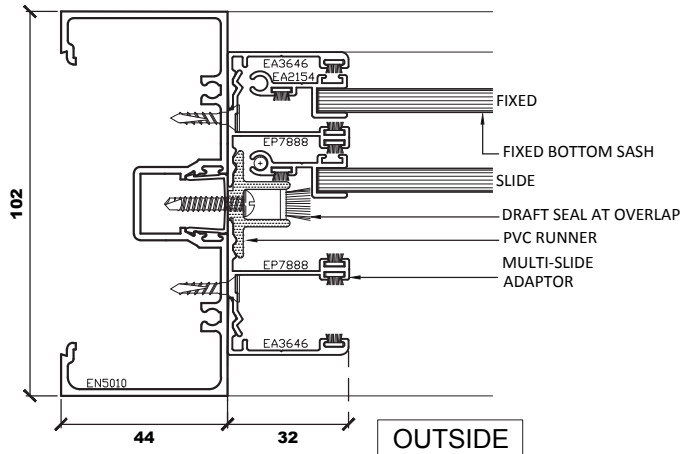
C Jamb Detail



D Jamb Detail

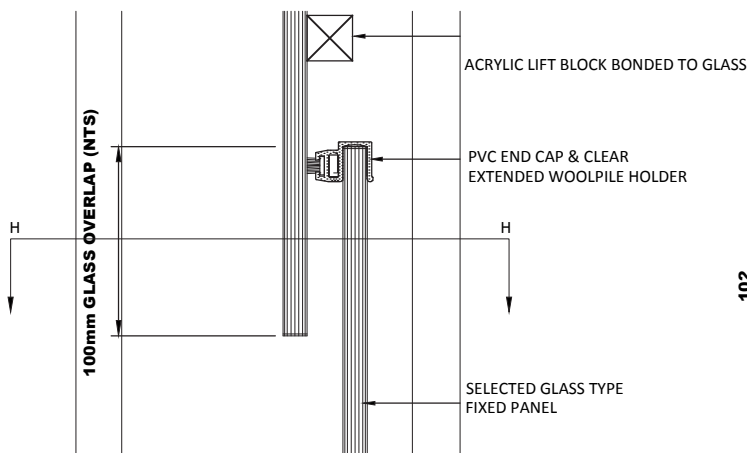
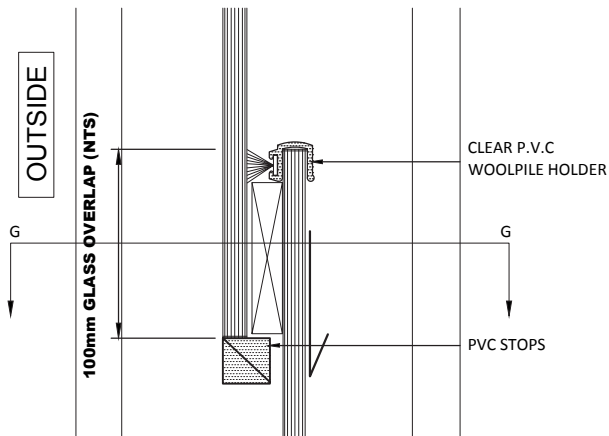
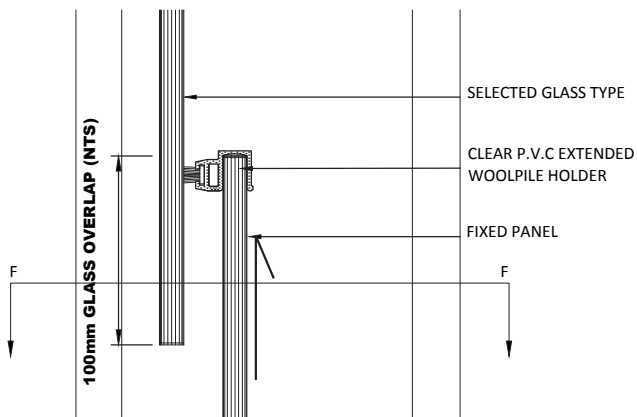


E Jamb Detail

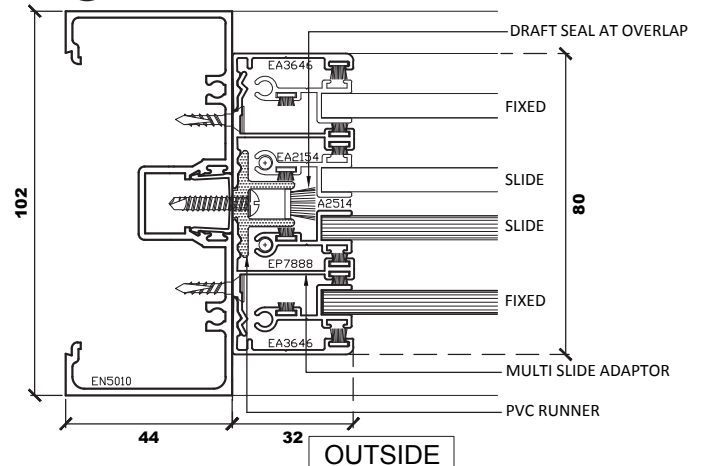


JAMB AND OVERLAP

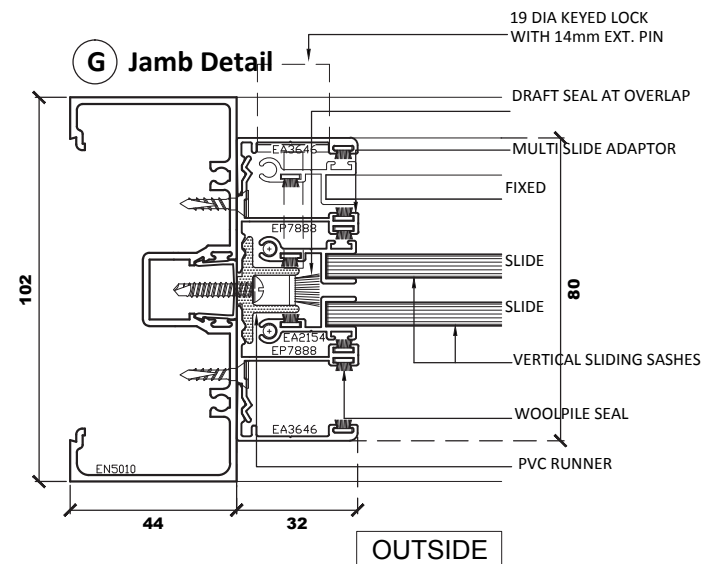
Glass Overlap Detail



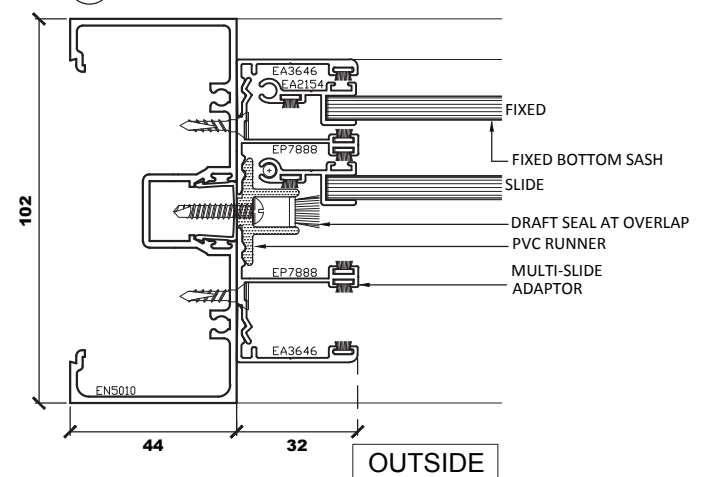
F Jamb Detail



G Jamb Detail



H Jamb Detail



FEATURES

2, 3 or 4 frameless glass panels, of which 1 or 2 are operable
Accepts glass thicknesses from 6mm – 10mm, for double glazed options refer to the double glazed section
Optional fly or security screens
Incorporates a unique subsill for improved water rating
Improved security, glass panels cannot be lifted out of perimeter framing
Adaptable to suit most commercial framing systems
Adaptable to suit flat timber framing systems
Lockable in closed and partially open position by a keyed or pin lock
Clear acrylic handles

SPECIFICATION TEXT

Frame Types

Sashless Windows

Sashless windows to be manufactured by Austview Sashless Windows using the horizontal sashless sliding window system.

Sashless windows to include [aluminium / timber] guides [inside only / inside and out]

Timber guides to be [KDHW / Western Red Cedar] N/A for aluminium sashless windows

Sashless windows to be operated by [acrylic lift block / sill handle to match lock]

Sashless windows [to include / not to include] [flyscreen / security screen]

Selected sashless windows to be engineered, manufactured and installed by Austview Sashless Windows or an equivalent and approved fabricator of Austview Sashless Windows.

To be engineered, manufactured and installed in accordance with:

AS 2047-2048 (windows in buildings)

AS/NZS 1170 (loading code)

AS/NZS 1664 (aluminium structures code)

Selected glazing (6mm-10mm)

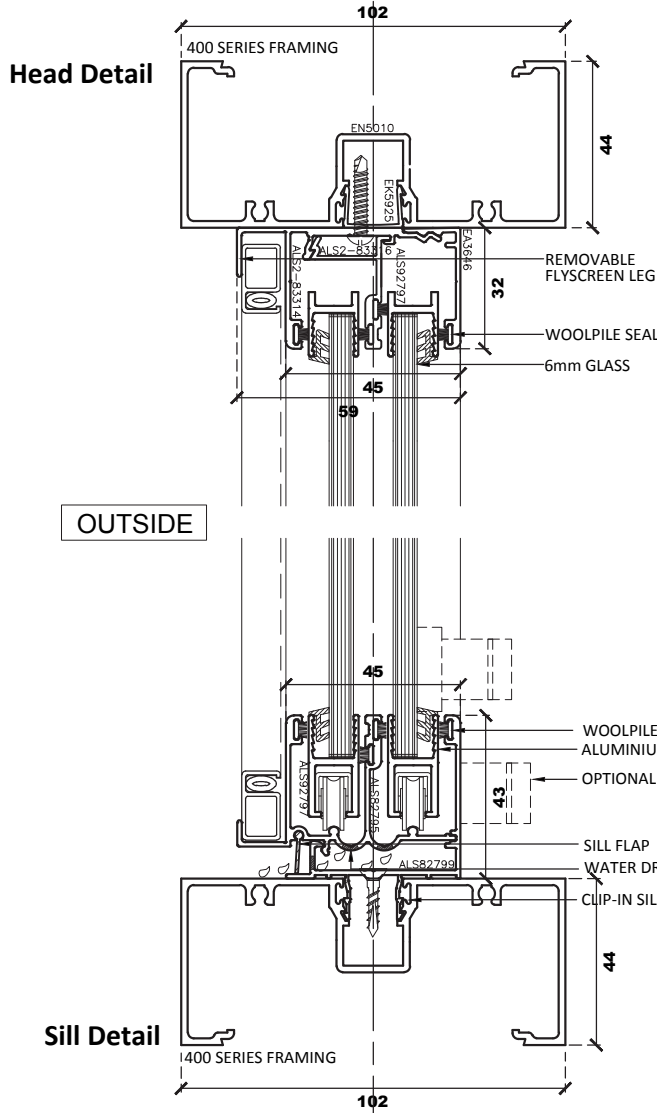
Selected glazing to be in accordance with performance requirements as set out in AS 1288 (glass in buildings)

Finish: (Colour) [Powdercoat / Anodised] finish to aluminium

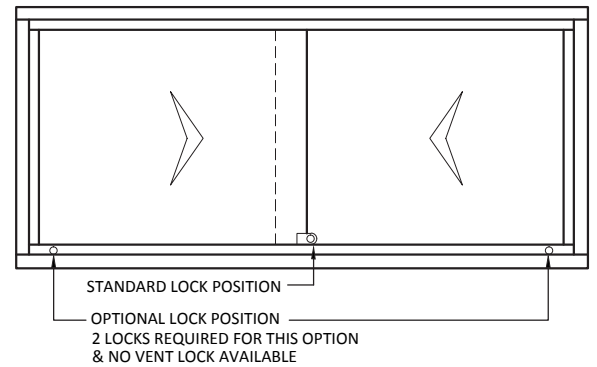


Australian Standard 2047

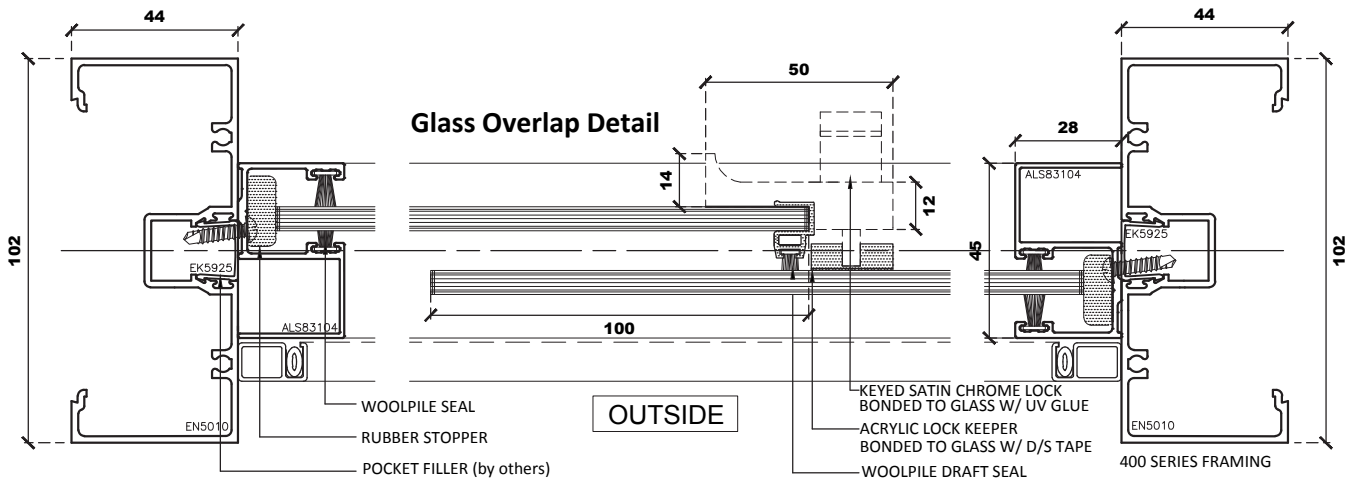
HEAD, SILL AND JAMB



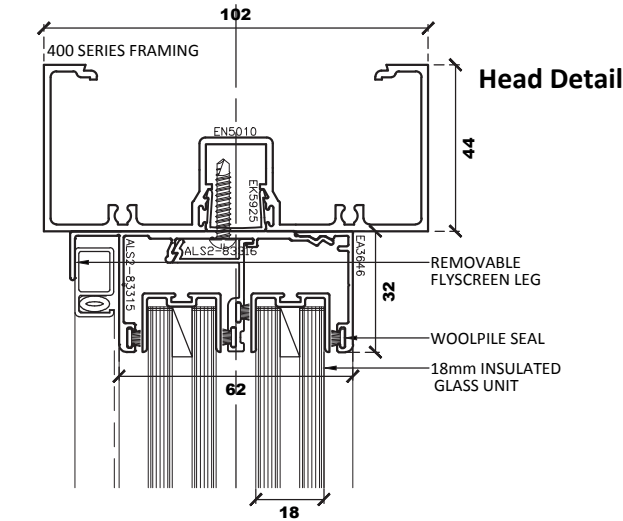
Typical Elevation (internal)



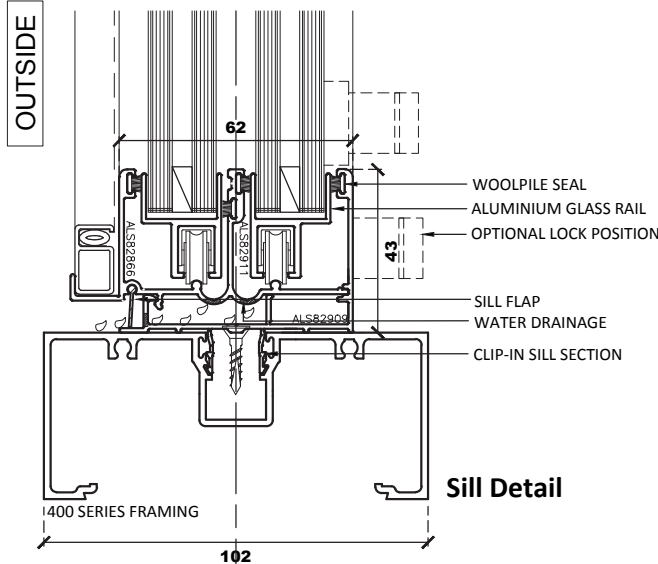
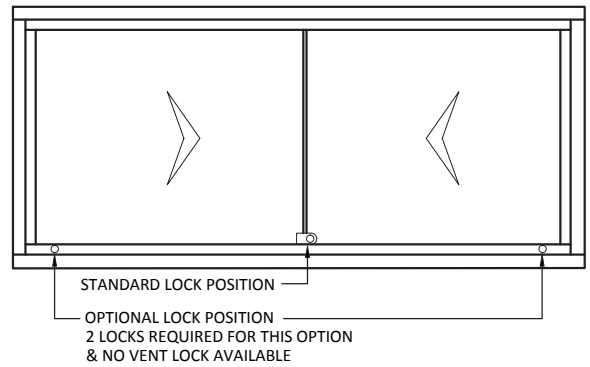
Jamb Detail



HEAD, SILL AND JAMB

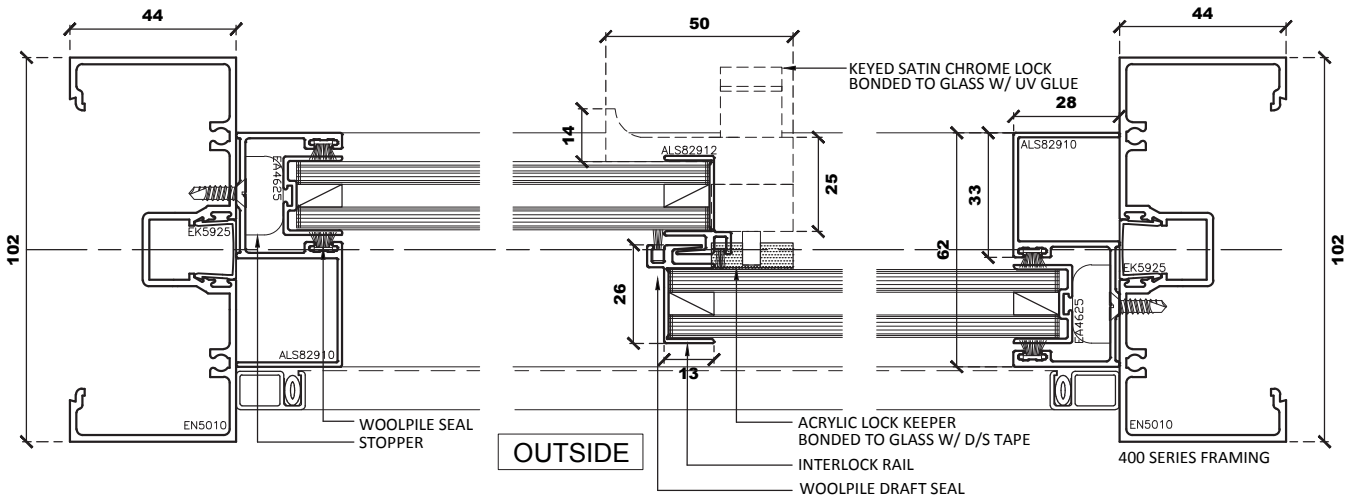


Typical Elevation (internal)

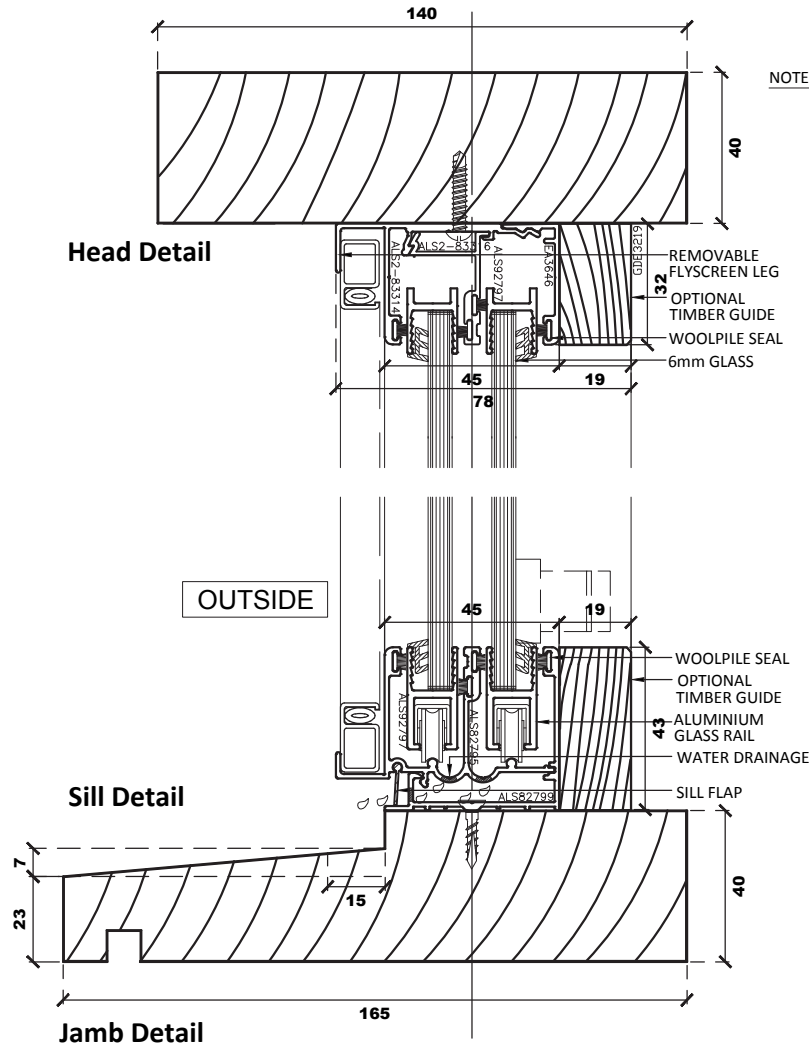


Jamb Detail

Interlock Detail

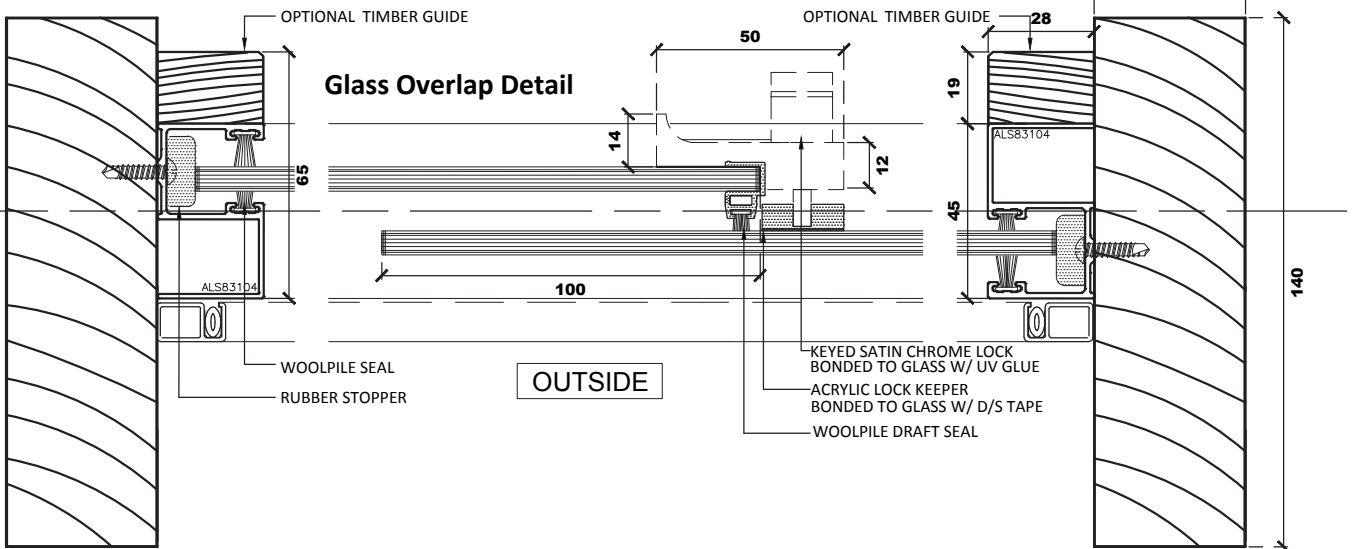
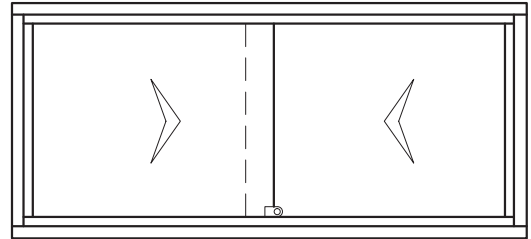


HEAD, SILL AND JAMB



NOTES: TIMBER GUIDES DO NOT COME AS STANDARD
PLEASE SPECIFY IF REQUIRED

Typical Elevation (internal)

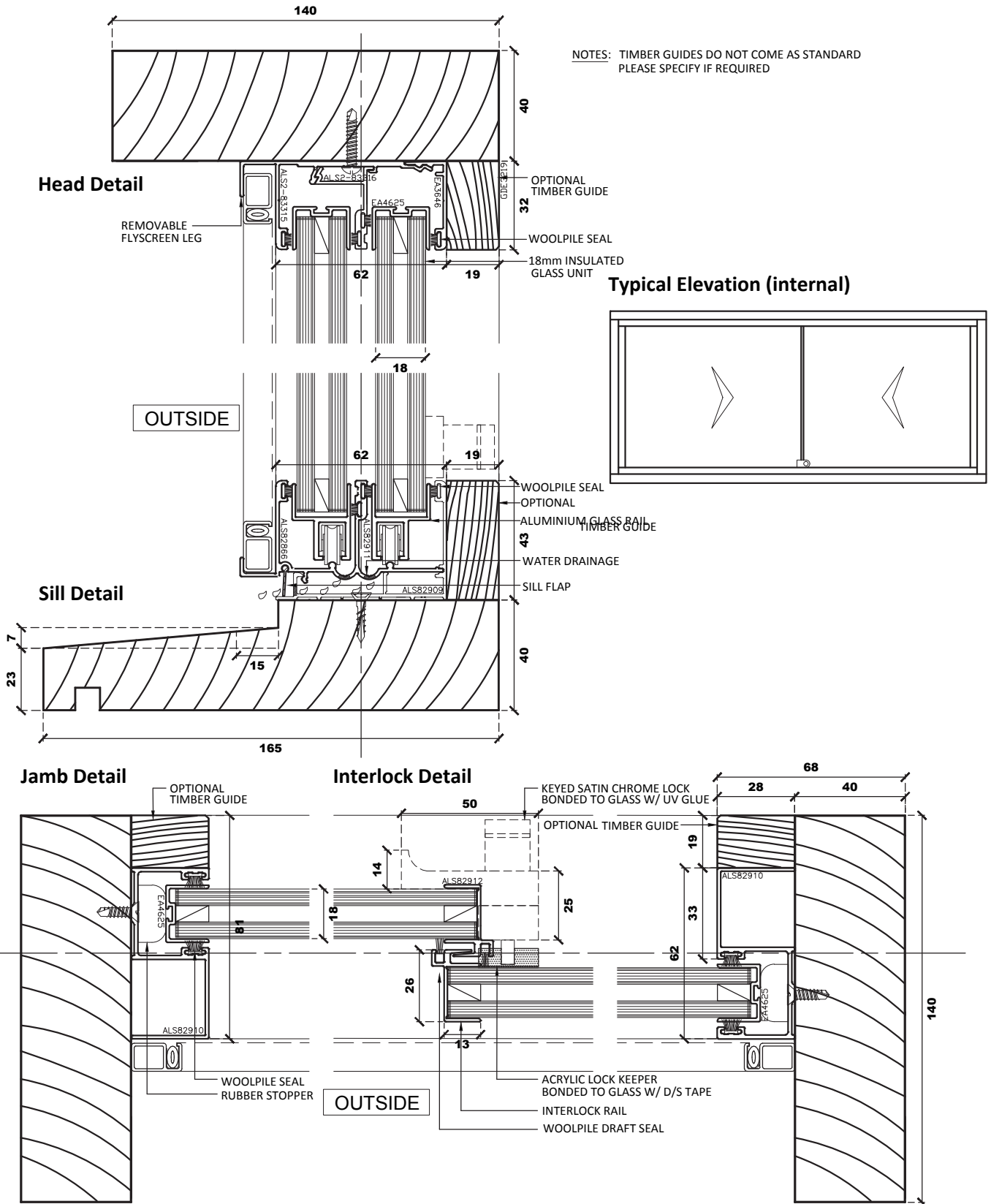


Australian Standard 2047

AUSTVIEW SASHLESS TIMBER DOUBLE GLAZED HORIZONTAL SLIDER,
FIXED TO TIMBER FRAME



HEAD, SILL AND JAMB



Australian Standard 2047

FEATURES

Motorised sashless double hung or single slide window
230 – 240 V 50 Hz motor is concealed below head of main frame
2 frameless glass panels, of which 1 or 2 are operable
Accepts glass thicknesses from 6mm – 18mm IGUS
Allows integration with automated mechanical climate control systems for passive ventilation and/or building management systems
Optional inclusion of rain sensor for automated closure of window during rainy periods
Maximum weight 60kg
Multiple windows can be operated together or individually. Each sash has an individual motor
Optional fly or security screens
Adaptable to suit most commercial framing systems
Adaptable to suit flat timber framing systems
Opens at approximately 25 seconds per metre
Suitable for Australian climate, working at temperatures from 4 – 50 degrees celcius

SPECIFICATION TEXT

Frame Types

Sashless Windows

Sashless windows to be manufactured by Austview Sashless Windows using the ActionSashless™ motorised sashless system

ActionSashless™ to be operated by [manual single switch / manual single dual switch / manual single remote control]

ActionSashless™ [to be / not to be] automated to mechanical system

ActionSashless™ [to include / not to include] a rain sensor

Sashless windows [to include / not to include] [flyscreen / security screen]

Selected sashless windows to be engineered, manufactured and installed by Austview Sashless Windows or an equivalent and approved fabricator of Austview Sashless Windows.

To be engineered, manufactured and installed in accordance with:

AS 2047-2048 (windows in buildings)

AS/NZS 1170 (loading code)

AS/NZS 1664 (aluminium structures code)

Selected glazing (6mm-10mm)

Selected glazing to be in accordance with performance requirements as set out in AS 1288 (glass in buildings)

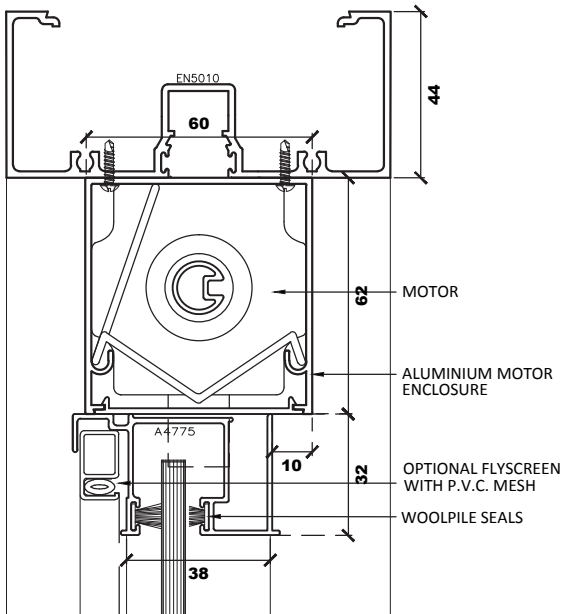
Finish: (Colour) [Powdercoat / Anodised] finish to aluminium



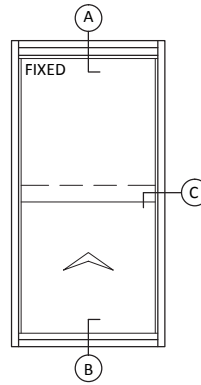
Australian Standard 2047

HEAD, SILL AND JAMB

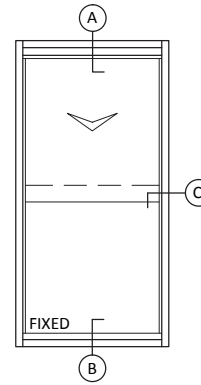
A Head Detail



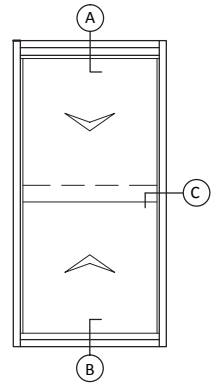
2P-ACTION-TF



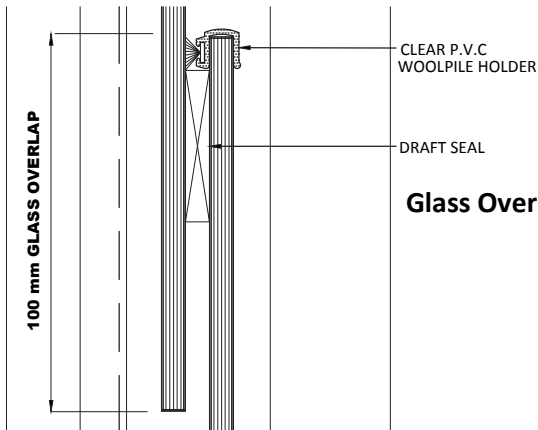
2P-ACTION-BF



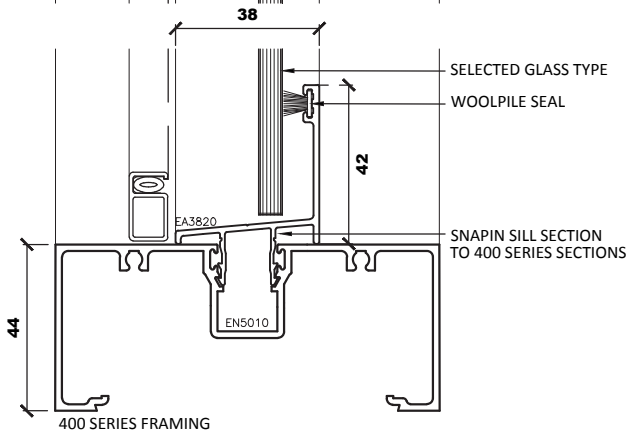
2P-ACTION



OUTSIDE

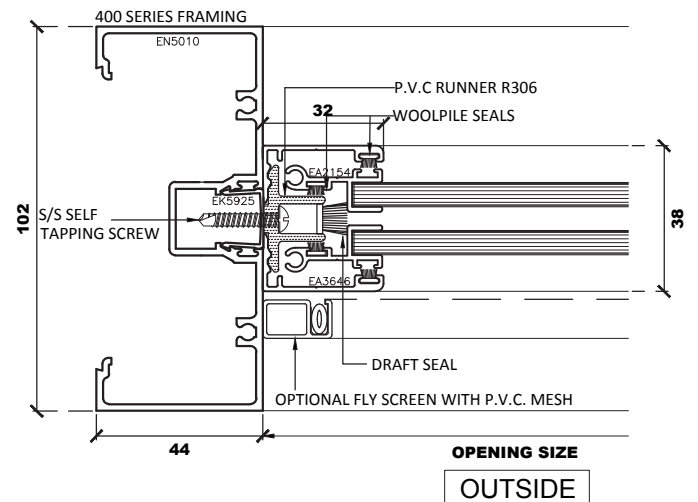


Glass Overlap Detail



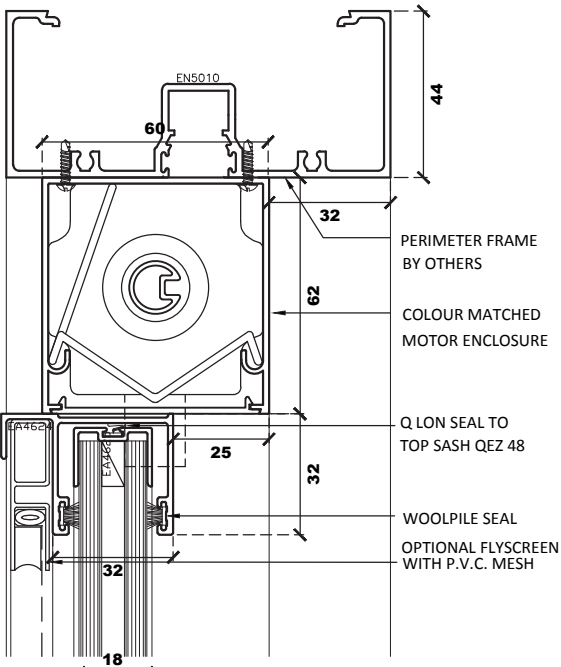
B Sill Detail

C Jamb Detail

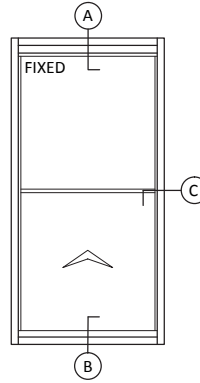


HEAD, SILL AND JAMB

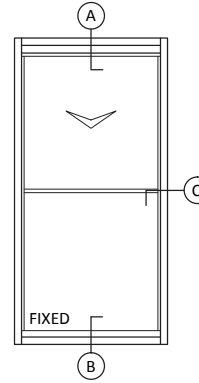
A Head Detail



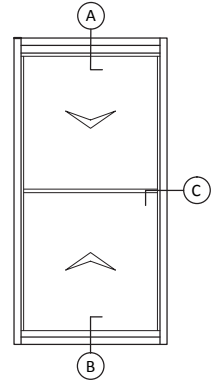
2P-ACTION-TF



2P-ACTION-BF

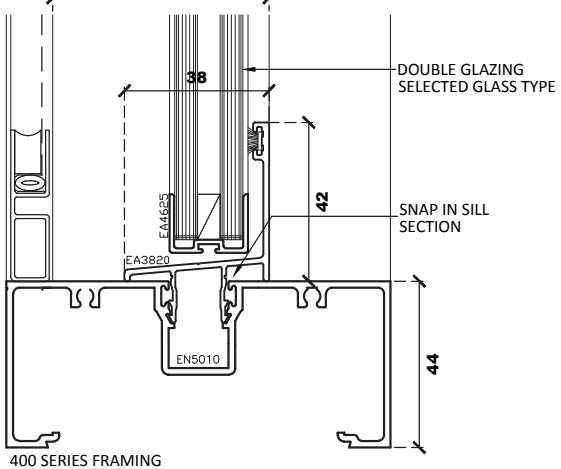
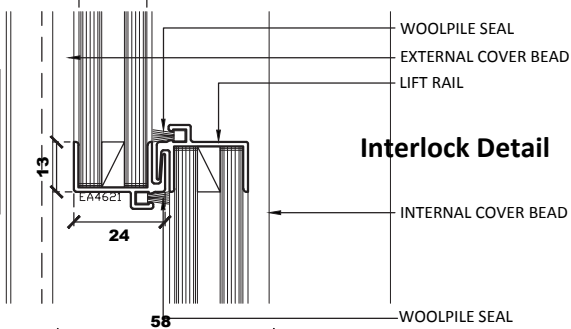


2P-ACTION



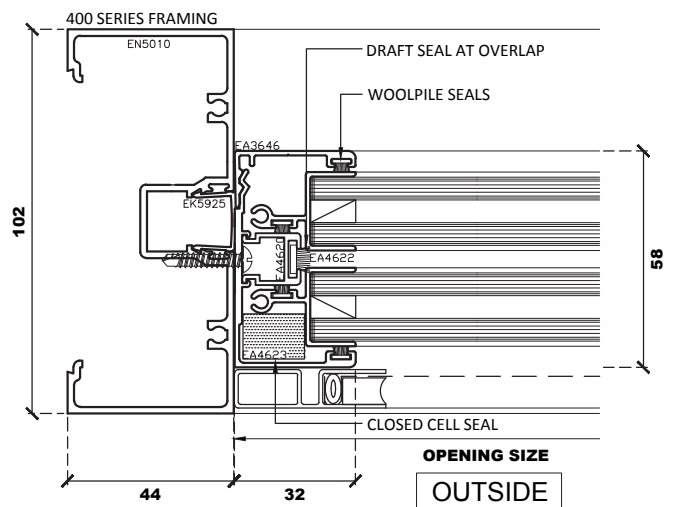
OUTSIDE

Interlock Detail



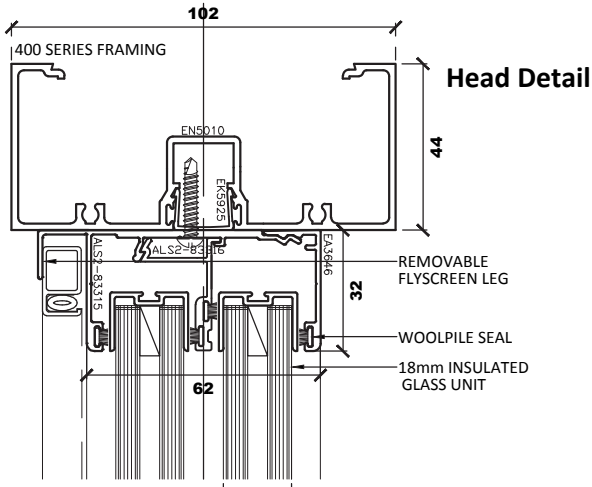
B Sill Detail

C Jamb Detail



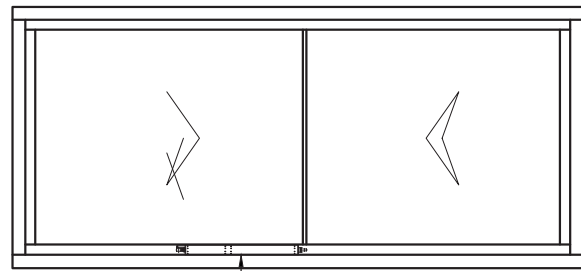
Australian Standard 2047

HEAD, SILL AND JAMB

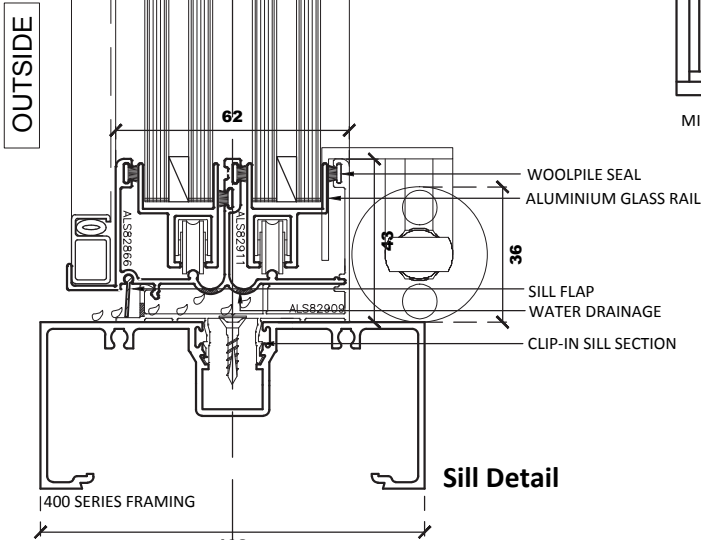


NOTES: MAXIMUM SASH OPENING 1000MM
MAXIMUM SASHLESS WINDOW WIDTH 1500MM

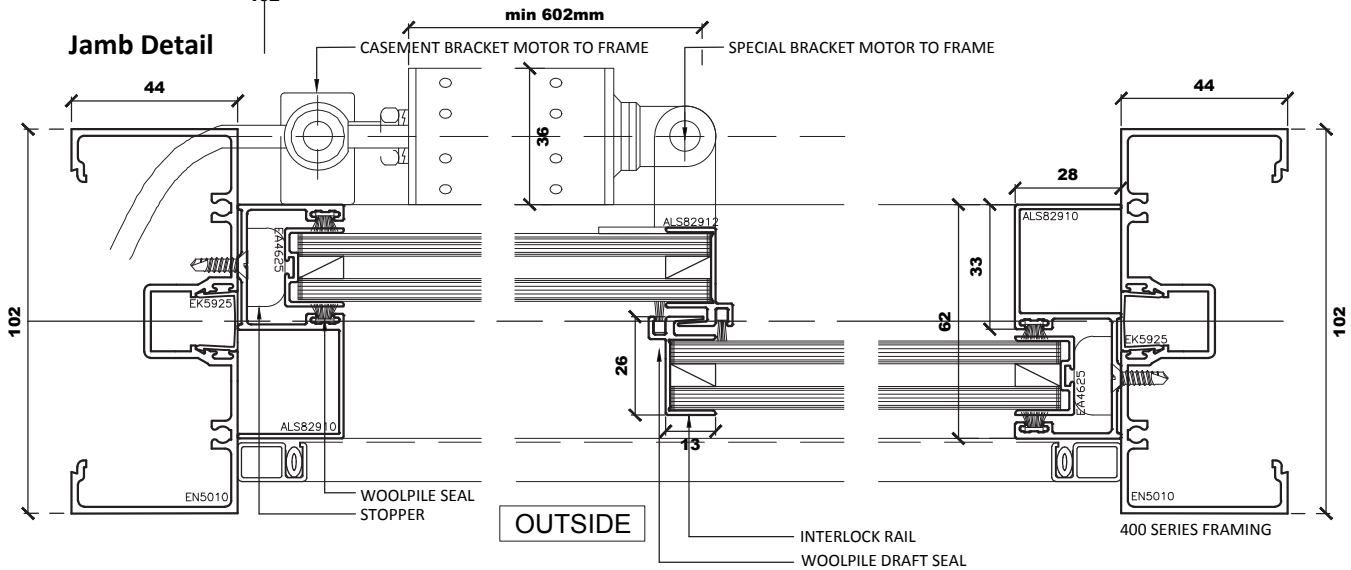
Typical Elevation (internal)



MINIMUM 602mm LONG x 36 Ø SINGLE DRIVE MOTOR



Jamb Detail



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FEATURES

2 panels of glass of which 1 or 2 are operable
Double hung system accepts 6mm, 8mm and 10mm toughened glass or 18mm insulated glass unit
Horizontal system accepts 6mm and 10mm toughened glass or 18mm insulated glass unit
Includes BAL40 fire rated seals and BAL40 fire rated draft seal at glass overlap
Includes stainless steel BAL40 chord to pulley and stainless steel ball bearing rollers to horizontal sliding system
Available in vertically sliding and horizontally sliding
Designed to suit BAL40 rated screens
Adaptable to suit most commercial framing systems
Double hung single glazed system adaptable to suit door frames 40mm
Double hung double glazed system adaptable to suit door frames 58mm
Lockable in closed and partially open position by a keyed or pin lock
Aluminium lift rail to double glazed system

SPECIFICATION TEXT

Please refer to AWA's "A Guide to Windows and Doors in Bushfire Prone Areas" for more information.
<http://bdav.org.au/webdata/media/AWAWindowsGuideBushfiresJune2009.pdf>

Frame Types

Sashless Windows

Sashless windows to be manufactured by Austview Sashless Windows using the BAL40 sashless window system.

The windows shall comply with the following:

All glazing shall be toughened safety glass minimum 6mm.

Windows frames shall be made from metal - this includes aluminium.

Hardware that supports the sash in its function of opening and closing to be made of metal.

Openable and fixed portions must be screens externally with metal screens with maximum aperture of 2mm (steel or bronze).

Seals to stiles, heads and sills or thresholds shall be manufactured from silicone or a material having a flammability index no greater than 5.

Relevant standards: AS 3959:2009 Construction of Buildings in Bushfire Prone Areas.

Sashless windows to be operated by [aluminium lift rail / clear acrylic lift block]

Aluminium lift rail, finish: [black anodised / to suit perimeter framing]

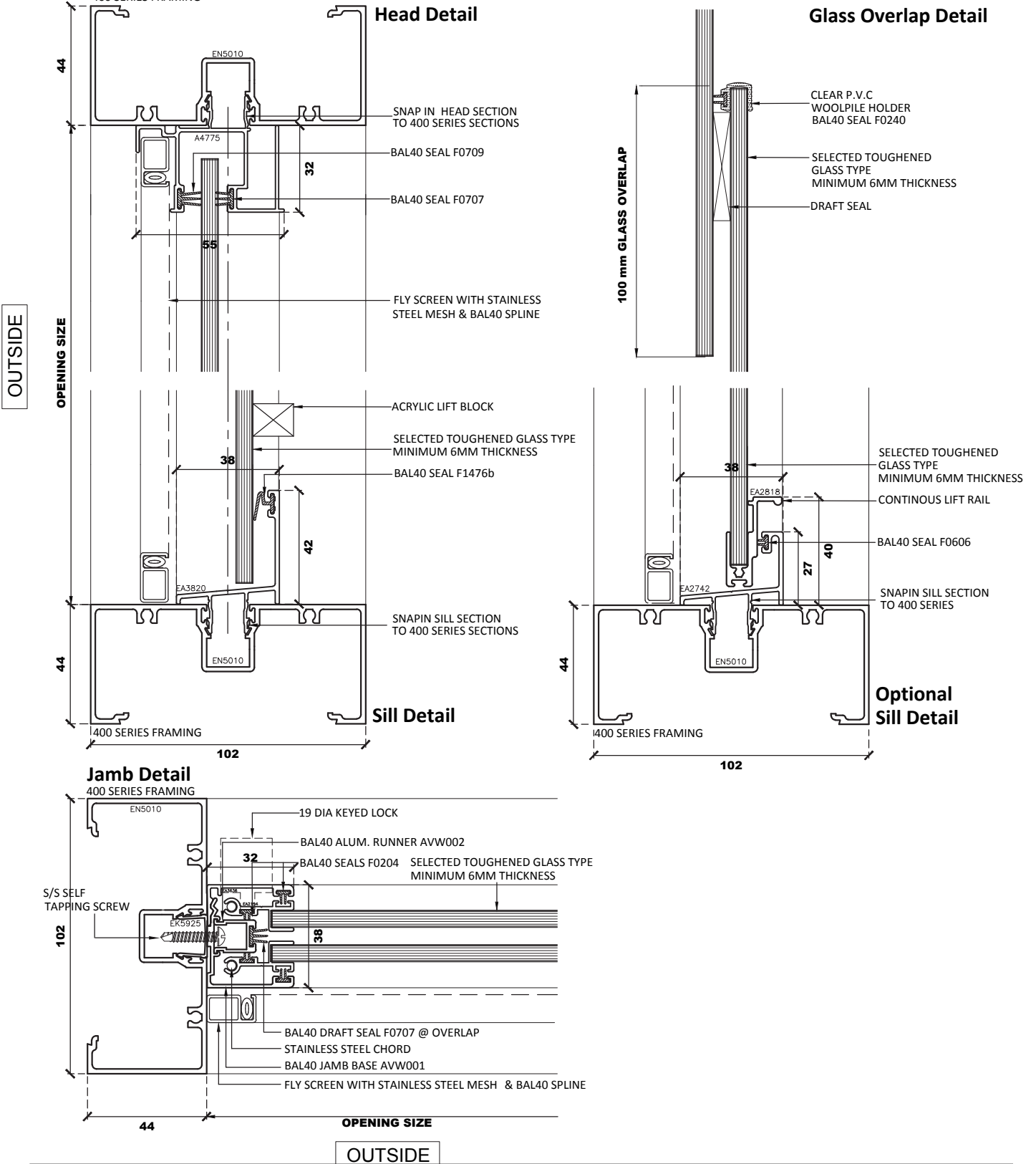
Selected sashless windows to be engineered, manufactured and installed by Austview Sashless Windows or an equivalent and approved fabricator of Austview Sashless Windows.

Finish: (Colour) [Powdercoat / Anodised] finish to aluminium



HEAD, SILL AND JAMB

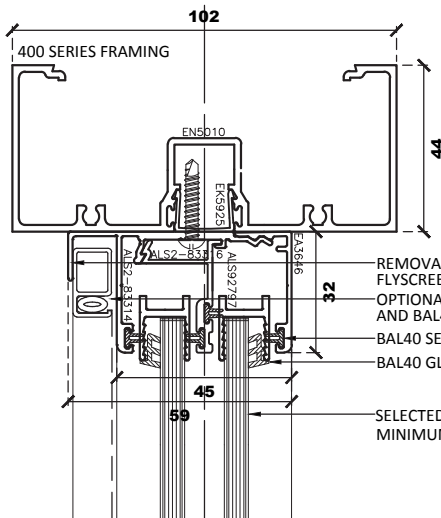
NOTES: ALL BAL40 SEALS TO HAVE FLAMMABILITY INDEX OF 1.0
400 SERIES FRAMING



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HEAD, SILL AND JAMB

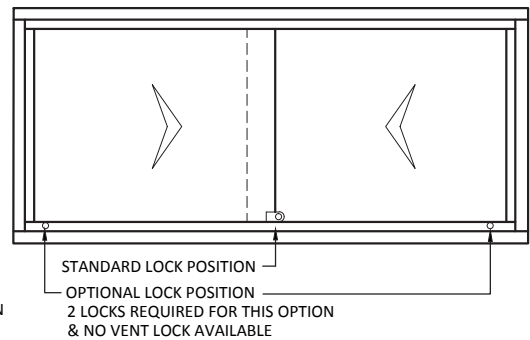
Head Detail



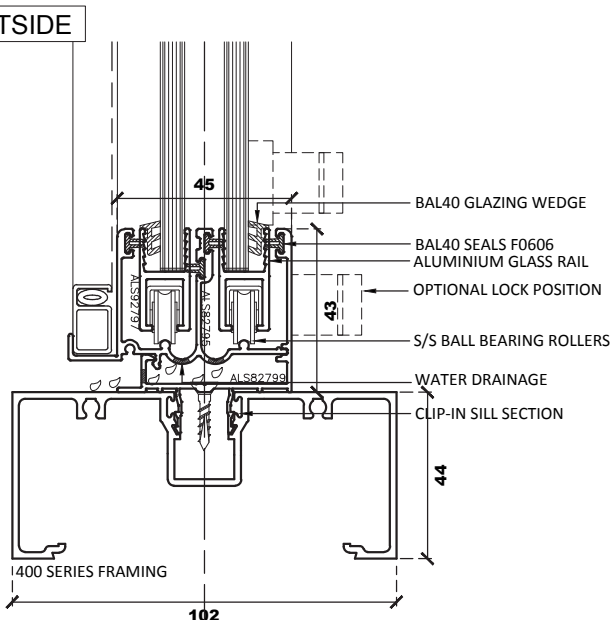
NOTES: ALL BAL40 SEALS TO HAVE FLAMMABILITY INDEX OF 1.0

- REMOVABLE FLYSCREEN LEG
- OPTIONAL FLYSCREEN W/ S/S MESH AND BAL40 SPLINE
- BAL40 SEALS F0606
- BAL40 GLAZING WEDGE
- SELECTED TOUGHENED GLASS MINIMUM 6MM THICKNESS

Typical Elevation (internal)

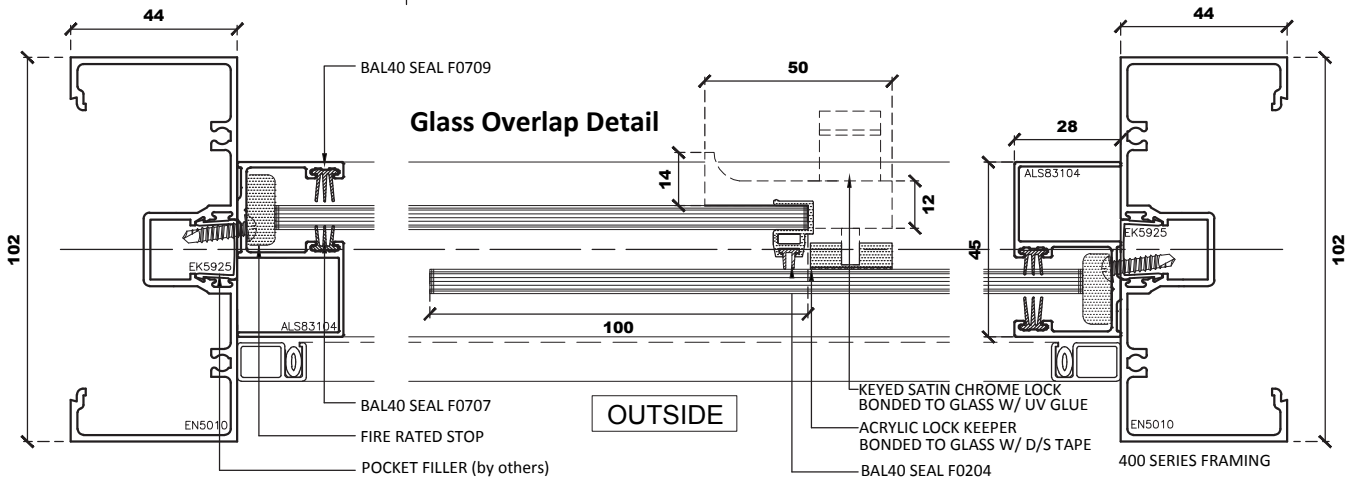


OUTSIDE



Sill Detail

Jamb Detail

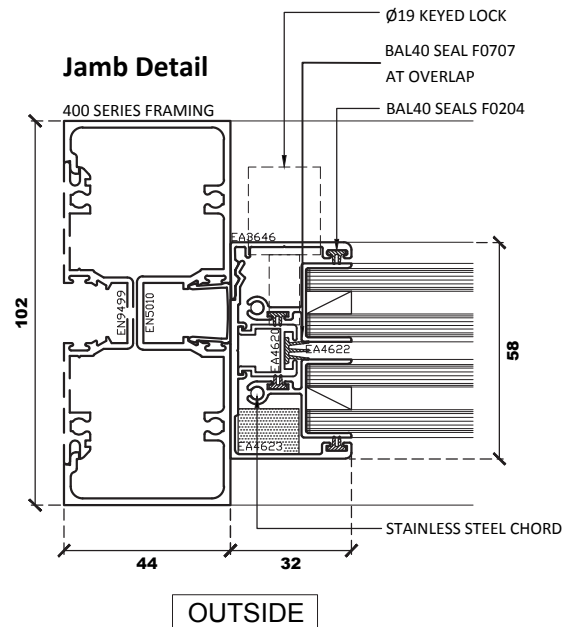
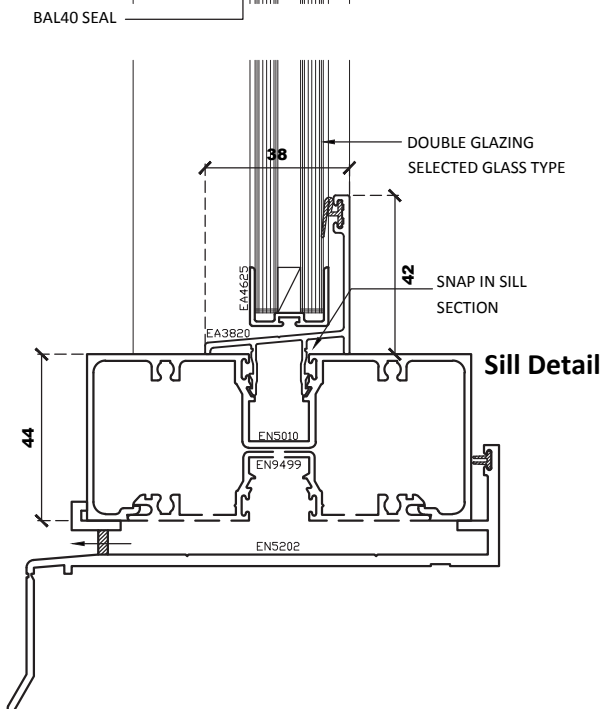
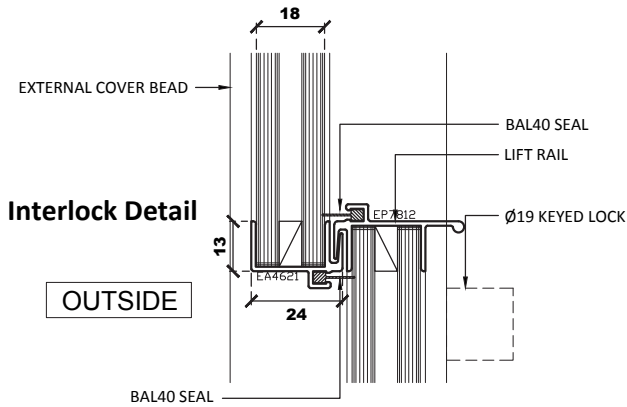
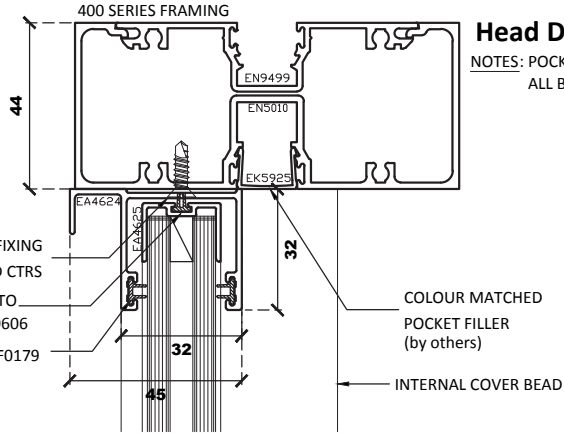


OUTSIDE

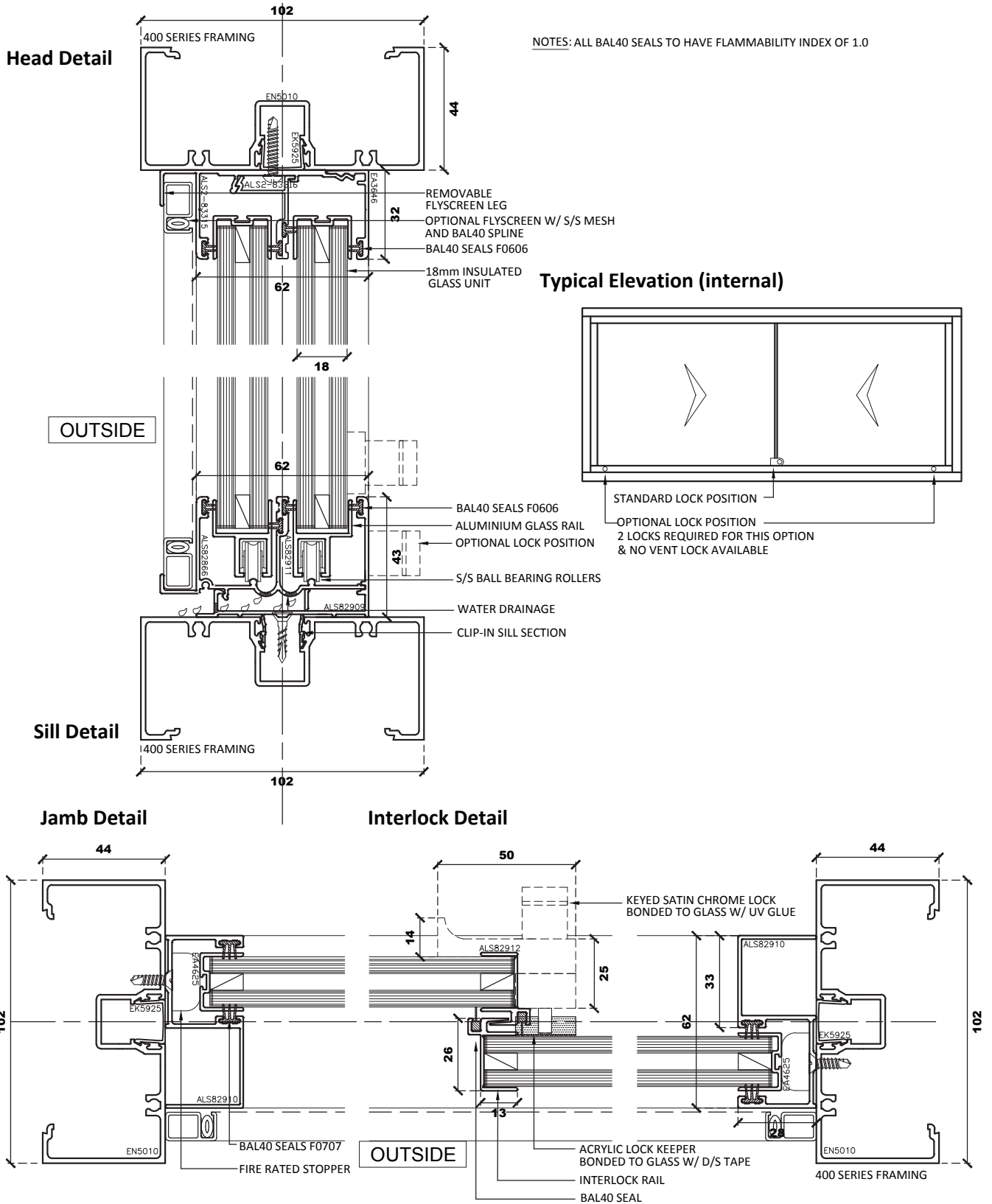


Australian Standard 2047

HEAD, SILL AND JAMB



HEAD, SILL AND JAMB



FEATURES

2 panels of glass of which 2 are operable
Accepts IGU's consisting of various makeups to equate to 18mm
Available in vertically sliding and horizontally sliding
Optional fly or security screens
Adaptable to suit most commercial thermal break framing systems
Adaptable to suit flat timber framing systems
Lockable in closed and partially open position by a keyed or pin lock
Aluminium lift rail
Ability to have alternative colour finish inside and out
Achieves higher overall window U-value rating

SPECIFICATION TEXT

Frame Types

Sashless Windows

Sashless windows to be manufactured by Austview Sashless Windows using the thermal break sashless window system.

Thermal break sashless windows to include [aluminium / timber] guides [inside only / inside and out]

Timber guides to be [KDHW / Western Red Cedar] N/A for aluminium sashless windows

Thermal break sashless windows to be operated by aluminium lift rail, finish: [black anodised / to suit perimeter framing]

Thermal break sashless windows [to include / not to include] [flyscreen / security screen]

Selected thermal break sashless windows to be engineered, manufactured and installed by Austview Sashless Windows or an equivalent and approved fabricator of Austview Sashless Windows.

To be engineered, manufactured and installed in accordance with:

AS 2047-2-48 (windows in buildings)

AS/NZS 1170 (loading code)

AS/NZS 1664 (aluminium structures code)

Selected glazing (18mm)

Selected glazing to be in accordance with performance requirements as set out in AS 1288 (glass in buildings)

Finish: (Colour) [Powdercoat / Anodised] finish to aluminium



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