DESIGNER SERIES

THERMALHEART®

RESIDENTIAL SERIES

SPECIALTY

AWS
ARCHITECTURAL WINDOW SYSTEMS

VANTAGE WINDOWS & DOORS

ELEVATE ALUMINIUM SYSTEMS

THERMAL HEART

# SYSTEM PORTFOLIO

COMMERCIAL FRAMING

THERMALHEART®

ARCHITECTURAL SERIES

COMMERCIAL SERIES

AWS
ARCHITECTURAL WINDOW SYSTEMS

# ARCHITECTURAL WINDOW SYSTEMS HAS BEEN AT THE FOREFRONT OF WINDOW AND DOOR DESIGN AND INNOVATION FOR OVER 20 YEARS.

UPDATES TO THIS MANUAL

For the latest technical information regarding our products and new product updates visit our websites **vantagealuminium.com.au** and **elevatealuminium.com.au**

Through a process of constant evolution, Architectural Window Systems (AWS) has maintained an unsurpassed reputation for design and performance excellence. The Vantage Aluminium Joinery and Elevate™ Aluminium Systems names represent dedication to precision, flexibility in design and unrivalled technical support.

A hallmark of our systems is a constant drive to refine, improve and modernise aluminium profiles to enhance good looks, performance and manufacturability.

This dedication to making the best aluminium windows and doors has won AWS a loyal and growing following among architects, builders, homeowners and specifiers. A reputation built on a single-minded dedication to excellence.

AWS has a scrupulous approach to design, service and technical support which is shared by more than 130 individually owned and operated window manufacturers. Many of these showcase the sublime aesthetics and superb performance of Vantage and Elevate™ systems in their award-winning showrooms.

This AWS fabricator network is fast becoming the most respected team in the aluminium joinery industry and offers product and service excellence in your area. Give us the opportunity to show you why we deserve our reputation.

The AWS window and door testing laboratory is fully accredited and has one of the largest pressure booths in the industry. Weather conditions can be simulated through manipulation of air and water spray flow, and remote monitoring of air leakage and deflection of windows and doors is also possible. This laboratory ensures that Vantage and Elevate™ systems can be tested and researched to ensure compliance with building codes and relevant industry standards.

From our fabricators to our technical personnel and facilities, AWS has the expertise to answer your questions. Make us your first call.

VANTAGE® | ELEVATE™

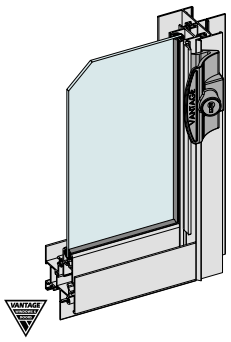
# SYSTEM SELECTION GUIDE

## SLIDING WINDOW SYSTEMS

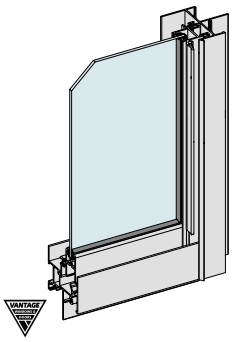
Aluminium Sliding Windows are a practical choice for both residential and commercial applications delivering good ventilation, flexible screening options and a safe solution for openings which face onto decks or walkways.

| | Series 502-504 | Series 506 | Series 601 | Series 602 | Series 531 | Series 452 | Series 461 | Series 462 | Series 662 | Series 701 |
|---|---|---|---|---|---|---|---|---|---|---|
| Maximum Panel Height* | 1500 | 1500 | 1600 | 1600 | 1500 | 1500 | 1500 | 1600 | 1600 | 1600 |
| Maximum Panel Width* | 1050 | 1050 | 1350 | 1350 | 930 | 1050 | 1350 | 1350 | 1350 | 1500 |
| 50mm Frame | ■ | ■ | | | ■ | | | | | |
| 100mm+ Frame | | | ■ | ■ | | ■ | ■ | ■ | | ■ |
| 150mm+ Frame | | | | | | | | | ■ | |
| Slimline Profiles | ■ | ■ | | | | ■ | | | | |
| Bold Profiles | | | ■ | ■ | | | ■ | ■ | ■ | ■ |
| Integrated Flyscreen | ■ | ■ | ■ | ■ | | ■ | | ■ | ■ | |
| Single Sash Design | ■ | | ■ | | | | | | | |
| Double Sash Design | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| High Weather Performance (300Pa+ water)* | | | | | | ■ | | ■ | ■ | |
| Extreme Weather Performance (450Pa+water)* | ■ | ■ | ■ | ■ | | | ■ | | | ■ |
| Mitred Frame | | | ■ | ■ | | | | | | |
| Square Cut Frame | ■ | ■ | | | ■ | ■ | ■ | ■ | ■ | ■ |
| Double Glazed Option | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Premium Wheel Assemblies | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Dedicated Sub-framing | | | | | | ■ | ■ | ■ | ■ | ■ |
| Dedicated Hardware | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Fully Tested AS2047 | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ |
| WERS Rated | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ |
| BAL-40 Rated | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | | |
| SAFE4KIDS™ Compliant | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | |
| Cyclone Tested/Rated | | | ■ | ■ | | | | | | |
| Acoustics Tested | ■ | ■ | ■ | ■ | ■ | | | | | |

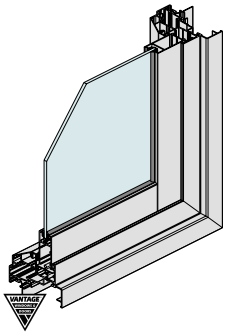
*Subject to individual site conditions. Contact AWS Technical Support for more information.



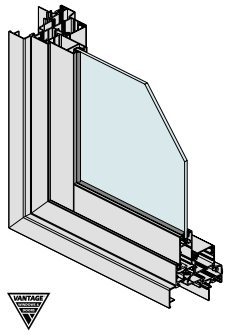




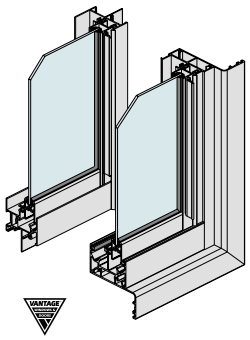




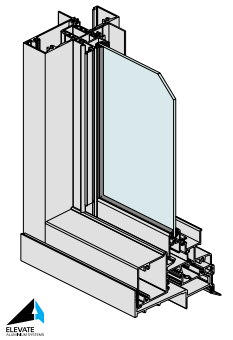




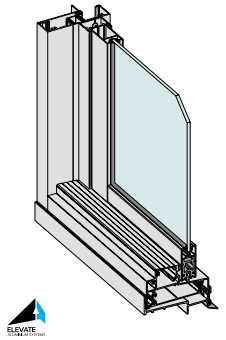




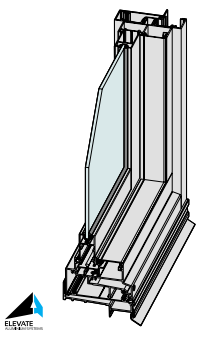




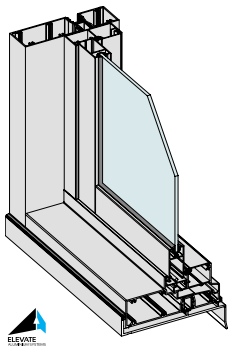




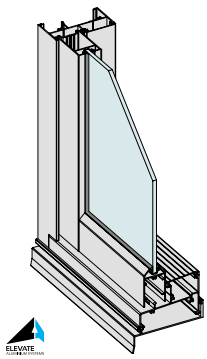












VANTAGE® | ELEVATE™

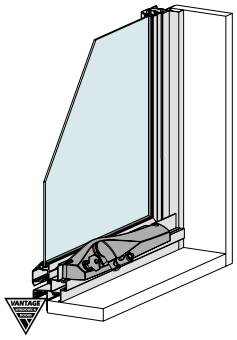
# SYSTEM SELECTION GUIDE

## AWNING / CASEMENT WINDOW SYSTEMS

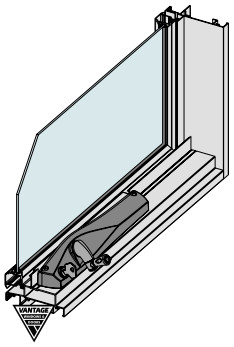
A very popular window – and for good reason. Awning windows push out effortlessly from the bottom and give ventilation with a measure of protection from unexpected passing showers. When closed, awning windows offer excellent resistance against air and moisture penetration.

| | Series 516 | Series 517 | Series 616 | Series 616TR | Series 726 | Series 726TR | Series 456 | Series 466 | Series 467 | Series 468 | Series 668 | Series 532 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum Awning Panel Height* | IMPORTANT NOTE: Maximum panel height and width of awning sashes are interdependent. Max Height @ 2400w = 800h / Max Width @ 2100h = 900w (1200w if Truth™ hardware is used) Contact AWS Technical Support for assistance sizing these products | | | | | | | | | | | NA |
| Maximum Awning Panel Width* | | | | | | | | | | | | NA |
| Maximum Casement Panel Height* | 1500 | 1500 | 1800 | 2100 | 1200 | 2030 | 1200 | 1800 | 2100 | 2100 | 2100 | 1000 |
| Maximum Casement Panel Width* | 600 | 600 | 1000 | 1200 | 800 | 1000 | 600 | 1000 | 1200 | 1200 | 1000 | 2100 |
| Oversize Sashes Available† | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| 50mm Frame | ■ | | | | | | | | | | | ■ |
| 100mm+ Frame | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | |
| 150mm+ Frame | | | | | | | | | | | ■ | |
| Slimline Profiles | ■ | ■ | | | | | ■ | | | | | |
| Bold Profiles | | | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | |
| Double Glazing | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Flyscreen Option | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| Internal Beading Option | | | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | |
| Mitred Frame | | | ■ | | ■ | ■ | | | | | | ■ |
| Square Cut Frame | ■ | ■ | | | | | ■ | ■ | ■ | ■ | ■ | |
| Extreme Weather Performance (450Pa+)* | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| Thermally Broken | | | | | ■ | ■ | | | | | | |
| Chain Winder Operation | ■ | ■ | ■ | | ■ | | ■ | ■ | | | | |
| Cam Handle Operation | ■ | ■ | ■ | | ■ | | ■ | ■ | | | | ■ |
| Truth™ Hardware | | | ■ | ■ | ■ | ■ | | | ■ | ■ | ■ | |
| Electronic Operation Option | | ■ | ■ | | ■ | | ■ | ■ | | | | |
| Dedicated Sub-framing | | | | | | | ■ | ■ | ■ | ■ | ■ | |
| Fully Tested AS2047 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| WERS Rated | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| BAL-40 Rated | ■ | ■ | ■ | | ■ | | ■ | ■ | | | | |
| SAFE4KIDS™ Compliant | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| Cyclone Tested/Rated | | | ■ | | | | | | | | | |
| Acoustics Tested | ■ | | ■ | ■ | ■ | ■ | | ■ | | | | ■ |

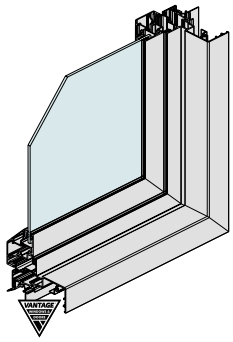
*Subject to individual site conditions. Contact AWS Technical Support for more information.



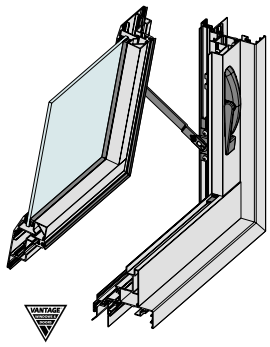




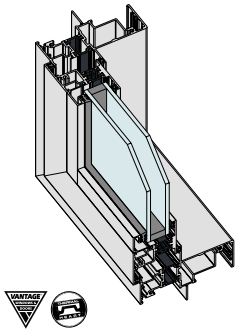




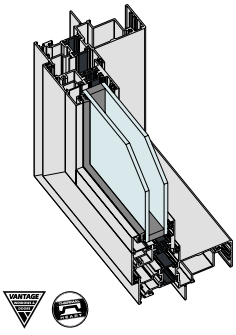




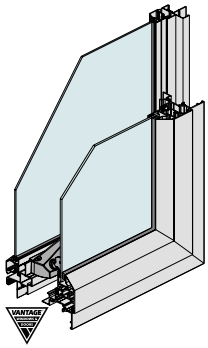




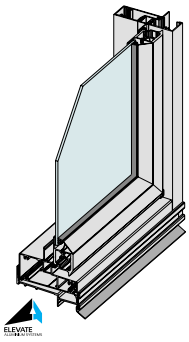




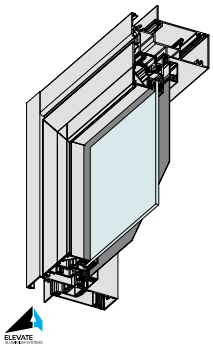




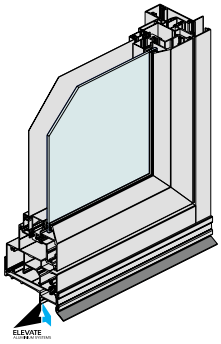




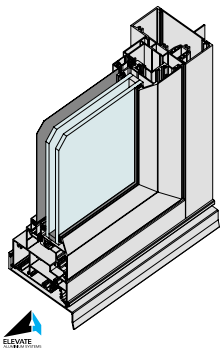




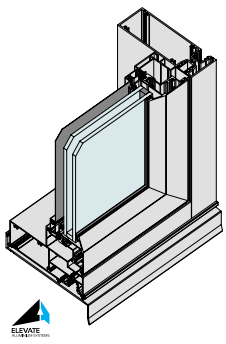












VANTAGE® | ELEVATE™

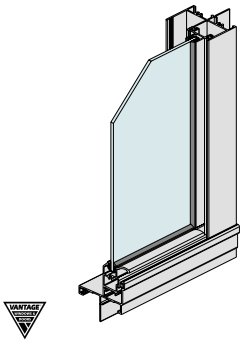
# SYSTEM SELECTION GUIDE

## DOUBLE-HUNG WINDOW SYSTEMS

Mirroring traditional timber windows in appearance, double-hung windows offer classic styling. Architectural and Designer Series double-hung windows can be easily cleaned from within the building – a popular feature in elevated applications.

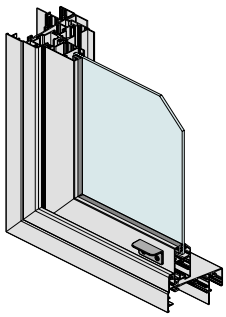
| | Series 514 | Series 613 | Series 614 | Series 453 | Series 463 | Series 464 |
|---|---|---|---|---|---|---|
| Maximum Panel Height* | 1050 | 1009 | 1010 | 1050 | 1050 | 1010 |
| Maximum Panel Width* | 1010 | 1090 | 1210 | 1168 | 1155 | 1210 |
| 50mm Frame | ■ | | | | | |
| 100mm+ Frame | | ■ | ■ | ■ | ■ | ■ |
| Slimline Profiles | ■ | | ■ | ■ | | ■ |
| Bold Profiles | | ■ | | | ■ | |
| Flyscreen Option | ■ | ■ | ■ | ■ | ■ | ■ |
| Mitred Frame | | ■ | ■ | | | |
| Square Cut Frame | ■ | | | ■ | ■ | ■ |
| High Weather Performance (300Pa+ water)* | ■ | ■ | ■ | ■ | | ■ |
| Extreme Weather Performance (450Pa water)* | | | | | ■ | |
| Thermally Broken | | | | | | |
| Clean From Inside – Tilt Sash Feature | | ■ | | | ■ | |
| Double Glazed Option | | ■ | | | ■ | |
| Dedicated Sub-framing | | | | ■ | ■ | ■ |
| Sashless Design | | | ■ | | | ■ |
| Fully Tested AS2047 | ■ | ■ | ■ | ■ | ■ | ■ |
| WERS Rated | ■ | ■ | | ■ | ■ | |
| BAL-40 Rated | | | | | | |
| SAFE4KIDS™ Compliant | ■ | ■ | ■ | ■ | ■ | ■ |
| Cyclone Tested/Rated | | | | | | |
| Acoustics Tested | ■ | | ■ | | | |

*Subject to individual site conditions. Contact AWS Technical Support for more information.



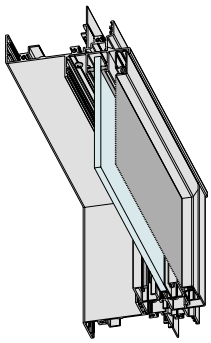


Residential Double-Hung Window



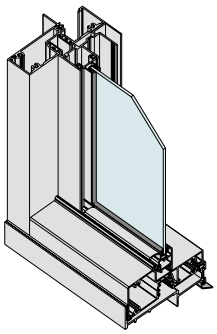


MAGNUM™ Double-Hung Window



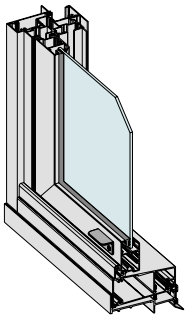


ClearVENT™ Sashless Double-Hung Window



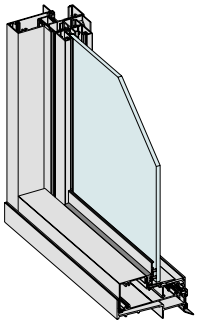


Commercial Double-Hung Window





Architectural Double-Hung Window





ClearVENT™ Sashless Double-Hung Window

VANTAGE® | ELEVATE™

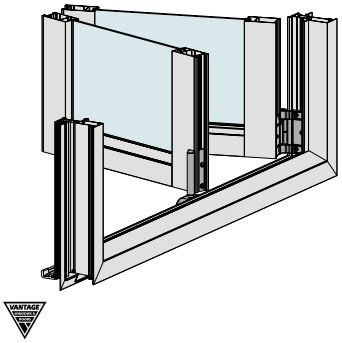
# SYSTEM SELECTION GUIDE

## BI-FOLD WINDOW & DOOR SYSTEMS

Bi-folds are a popular and versatile window and door style. Wide opening to maximise views and airflow, they play a wonderful role in opening the inside to the outside. Our selection of top hung and bottom rolling systems deliver flexibility in design.

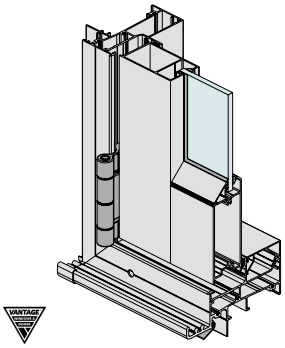
| | Series 546 | Series 548 | Series 730 | Series 410 | Series 411 | Series 412 | Series 831 | Series 832 |
|---|---|---|---|---|---|---|---|---|
| Maximum Panel Height• | 1600 | 2600 | 2600 | 3000 | 3000 | 3000 | 3000 | 3000 |
| Maximum Panel Width• | 900 | 900 | 900 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Bold Profiles | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Central Lever Operated Flushbolt | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Recessed Sill Option | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Mitred Frame | ■ | ■ | ■ | | | | | |
| Square Cut Frame | | | | ■ | ■ | ■ | ■ | ■ |
| High Weather Performance (300Pa+ water)* | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Thermally Broken | | | ■ | | | | ■ | ■ |
| Accepts ClearVENT™ (Series 614) | ■ | ■ | | ■ | ■ | ■ | | |
| 100mm+ Frame Size | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Single Glazed | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Double Glazed | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Dedicated Sub-framing | | | | ■ | ■ | ■ | ■ | ■ |
| Square Door Rails/Beads | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Splayed Door Rails/Beads | ■ | ■ | ■ | ■ | ■ | ■ | | |
| Accepts Centor S1E Retractable Screen | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Top Hung | | | | | ■ | | ■ | |
| Bottom Rolling | ■ | ■ | ■ | ■ | | ■ | | ■ |
| Dedicated Hardware | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Fully Tested AS2047 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| WERS Rated | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| BAL-40 Rated | | ■ | ■ | ■ | | | | |
| SAFE4KIDS™ Compliant | | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Cyclone Tested/Rated | | | | | | | | |
| Acoustics Tested | | | | | | ■ | | |

*Subject to individual site conditions. Contact AWS Technical Support for more information.



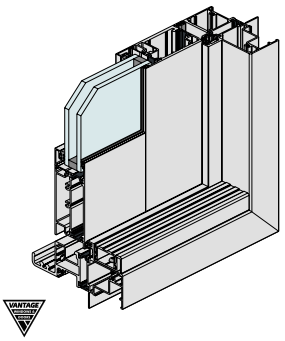


High Performance Bi-Fold Window



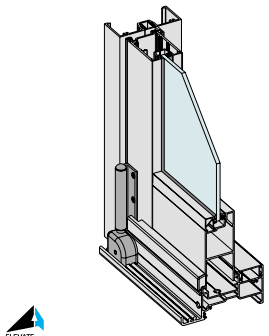


High Performance Bi-Fold Door



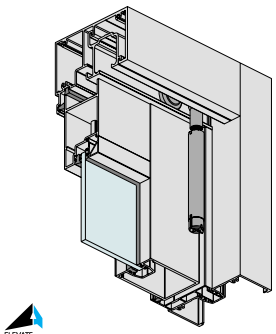


Thermally Broken Bi-Fold Door



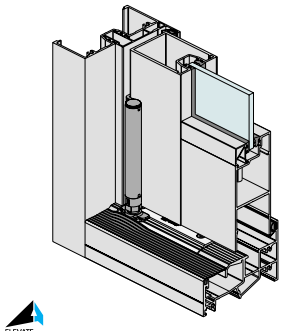


FoldMASTER™ Bi-Fold Door
(Bottom Rolling)



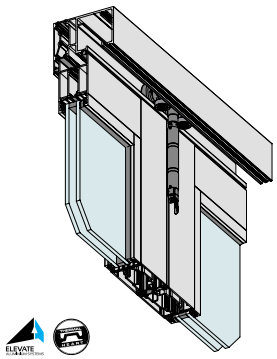


ViewMASTER™ Bi-Fold Door
(Top Hung)



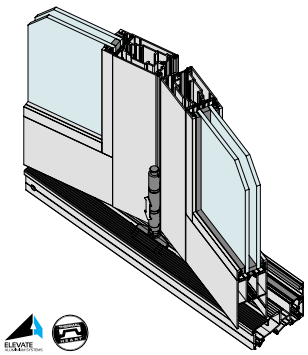


ViewMASTER™ Bi-Fold Door
(Bottom Rolling)





Thermally Broken Bi-Fold Door
(Top Hung)





Thermally Broken Bi-Fold Door
(Bottom Rolling)

VANTAGE® | ELEVATE™

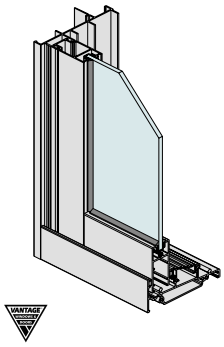
# SYSTEM SELECTION GUIDE

## SLIDING DOOR SYSTEMS

Sliding doors have earned a reputation as the most versatile and practical door type for access to decks and patios. They also score highly for delivering expansive views while remaining cost effective and easy to screen.

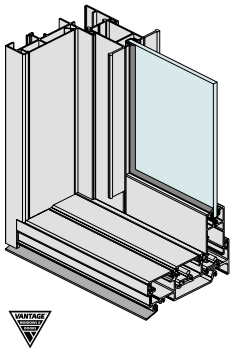
| | Series 541 | Series 542 | Series 618 | Series 731 | Series 533 | Series 50 | Series 51 | Series 52 | Series 471 | Series 702 | Series 704 | Series 852 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum Panel Height* | 2350 | 2650 | 2941 | 2640 | 2360 | 3000 | 3000 | 3000 | 2630 | 3000 | 3000 | 3000 |
| Maximum Panel Width* | 1200 | 1350 | 1500 | 1550 | 1200 | 2500 | 2500 | 2500 | 1470 | 1800 | 2500 | 2500 |
| 2 Sliding Tracks | ■ | ■ | | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 3 Sliding Tracks | | | ■ | ■ | | ■ | ■ | ■ | | ■ | ■ | ■ |
| 4 Sliding Tracks | | | | ■ | | ■ | ■ | ■ | | | ■ | ■ |
| Slimline Profiles | ■ | ■ | | | ■ | | | | ■ | | | |
| Bold Profiles | | | ■ | ■ | | ■ | ■ | ■ | | ■ | ■ | ■ |
| Double Glazing | ■ | ■ | ■ | ■ | ■ | | | ■ | ■ | ■ | ■ | ■ |
| Single Glazed | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Flyscreen Option | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | | | |
| Accepts ClearVENT™ (Series 614) | | | ■ | | | ■ | ■ | | | | | |
| Nursing Sill Option | ■ | | | | | ■ | ■ | ■ | | | | |
| Recessed Sill Option | | ■ | ■ | ■ | | ■ | ■ | ■ | | | ■ | ■ |
| Cavity Sliding Option | | | ■ | ■ | | ■ | ■ | ■ | | | | |
| Multi-panel Stacking | | ■ | ■ | ■ | | ■ | ■ | ■ | | ■ | ■ | ■ |
| Mitred Frame | | | ■ | ■ | | | | | | | | |
| Accepts Centor E3 Top-hung running gear | | | | | | ■ | | ■ | | | | ■ |
| Square Cut Frame | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| High Weather Performance (300Pa+ water)* | ■ | ■ | ■ | ■ | | | | | | | ■ | ■ |
| Extreme Weather Performance (600Pa+ water)* | | | | | | | | | ■ | ■ | | |
| 90° Corner Slider Option | | ■ | ■ | | | | | | | ■ | ■ | |
| Thermally Broken | | | | ■ | | | | | | | | ■ |
| Dedicated Sub-framing | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Square Door Rails/Beads | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Splayed Door Rails/Beads | | | | | | ■ | ■ | ■ | | ■ | ■ | |
| Internal Sliding | ■ | ■ | ■ | ■ | | | | | | | ■ | ■ |
| Dedicated Hardware | | | ■ | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Accepts Centor™ S1E Eco Screen | | ■ | ■ | ■ | | ■ | ■ | ■ | | ■ | ■ | ■ |
| Fully Tested AS2047 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| WERS Rated | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | |
| BAL-40 Rated | | ■ | ■ | ■ | | ■ | ■ | | ■ | | | |
| SAFE4KIDS™ Compliant | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Cyclone Tested/Rated | | | ■ | | | | | | | | | |
| Acoustics Tested | ■ | | ■ | | ■ | | | | | | ■ | |

*Subject to individual site conditions. Contact AWS Technical Support for more information.



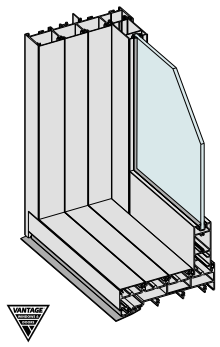


Residential Sliding Door



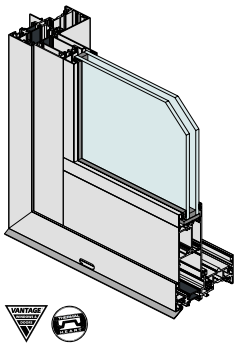


DStacker™ Sliding Door



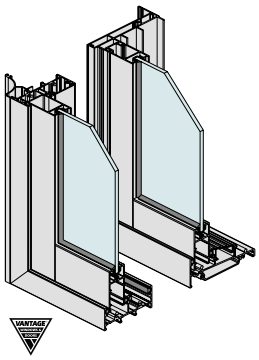


MAGNUM™ Sliding Door



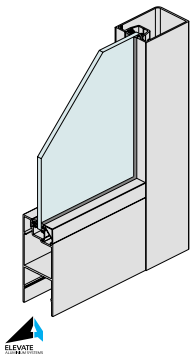


Thermally Broken Sliding Door



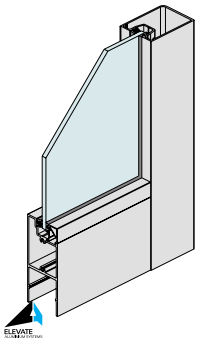


SoundOUT™ Sliding Door



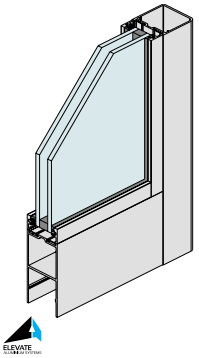


Commercial Door Panel (Spigoted)



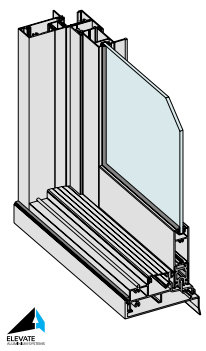


Commercial Door Panel (Non-Spigoted)



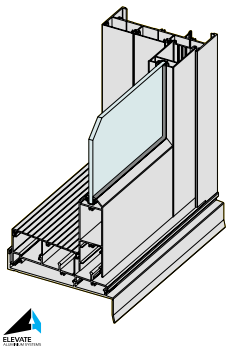


Commercial Door Panel (Double Glazed, Spigoted)



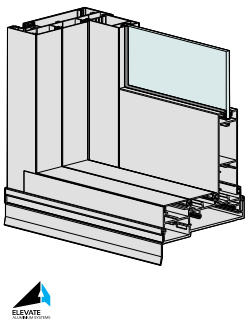


Apartment Sliding Door (External Sliding)



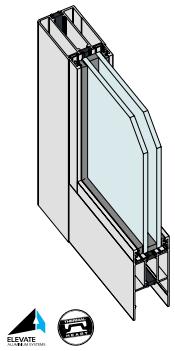


SlideMASTER™ Sliding Door (External Sliding)





SlideMASTER™ Sliding Door (Internal Sliding)





Thermally Broken Door System

VANTAGE® | ELEVATE™

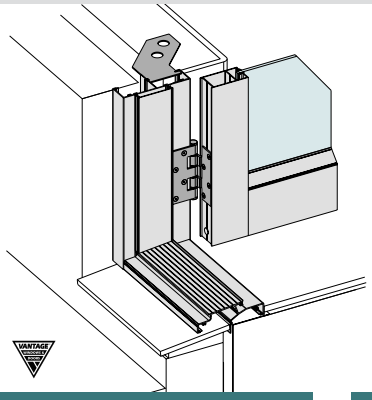
# SYSTEM SELECTION GUIDE

## HINGED DOOR SYSTEMS

Elevate™ commercial hinged door systems are based on a 50mm platform delivering superior strength and integrity. Our selection of hinged, pivot and French configurations are available with a range of meeting stile and threshold options to suit your requirements.

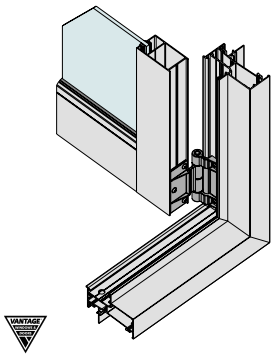
| | Series 549 | Series 548 | Series 729 | Series 50 | Series 51 | Series 52 | Series 650 | Series 852 |
|---|---|---|---|---|---|---|---|---|
| Maximum Panel Height* | 2350 | 2350 | 2600 | 3000 | 2400 | 3000 | 3000 | 2800 |
| Maximum Panel Width* | 900 | 900 | 900 | 1000 | 900 | 1000 | 1000 | 1000 |
| 100mm+ Frame | ■ | ■ | ■ | ■ | ■ | ■ | | ■ |
| 150mm Frame Size | ■ | | | ■ | ■ | ■ | ■ | ■ |
| Slimline Profiles | | | | | | | | |
| Bold Profiles | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| French Door | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Entry Door | ■ | | ■ | | | | ■ | ■ |
| Mitred Frame | | ■ | ■ | | | | | |
| Square Cut Frame | ■ | | | ■ | ■ | ■ | ■ | ■ |
| Extreme Weather Performance (300Pa water)* | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Accepts ClearVENT™ (Series 614) | ■ | ■ | | ■ | ■ | | ■ | |
| Thermally Broken | | | ■ | | | | | ■ |
| Single Glazed | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Double Glazed | ■ | ■ | ■ | | | ■ | ■ | ■ |
| Dedicated Sub-framing | | | | ■ | ■ | ■ | ■ | ■ |
| Accepts Centor™ S1E Retractable Screen | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Splayed Door Rails / Beads | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Flyscreen Option | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Pivot Option | | | | ■ | ■ | ■ | ■ | ■ |
| Dedicated Hardware | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Fully Tested AS2047 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| WERS Rated | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| BAL-40 Rated | ■ | ■ | ■ | ■ | | ■ | ■ | |
| SAFE4KIDS™ Compliant | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Cyclone Tested/Rated | | | | | | | | |
| Acoustics Tested | | | | | | | | |

*Subject to individual site conditions. Contact AWS Technical Support for more information.



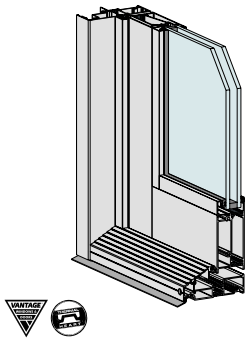


Hinged Entry Door



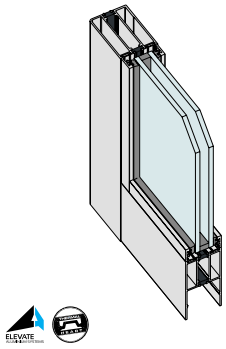


High Performance Hinged Door



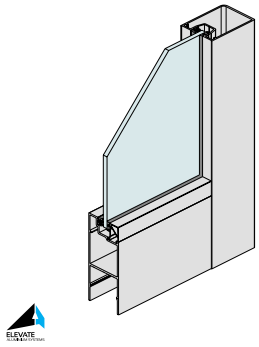


Thermally Broken Hinged Door



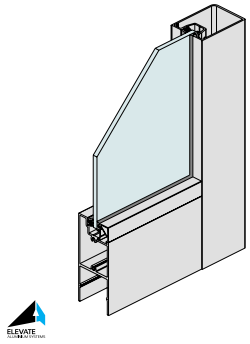


Thermally Broken Door Panel



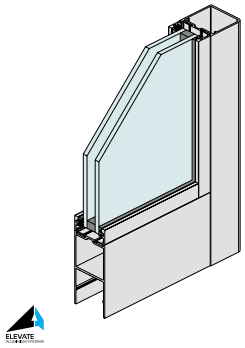


Commercial Door Panel (Spigoted)



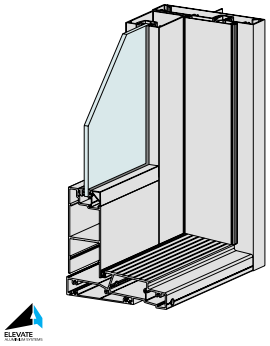


Commercial Door Panel
(Non-Spigoted)





Commercial Door Panel
(Double Glazed, Spigoted)





Architectural Hinged Door System

VANTAGE® | ELEVATE™

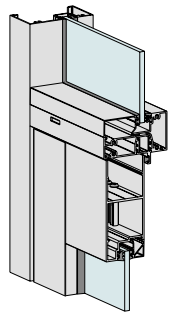
# SYSTEM SELECTION GUIDE

## CENTREGLAZE™ FRAMING

Elevate™ Commercial CentreGLAZE™ framing offers a balanced aesthetic with glass positioned in the centre of the frame. Designed for use in both residential and commercial applications, CentreGLAZE™ framing is compatible with a wide range of accessories and adaptors. Available in 102mm and 150mm frame platforms.

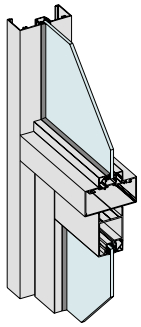
| | 80 Series | 400 Series | 600 Series | 620 Series | 424 Series | 624 Series | 804 Series | 806 Series |
|---|---|---|---|---|---|---|---|---|
| 80mm Frame Size | ■ | | | | | | | |
| 100mm /102mm Frame Size | | ■ | | | ■ | | ■ | |
| 150mm Frame Size | | | ■ | ■ | | ■ | | ■ |
| Single Glazed | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Double Glazed | | | | | ■ | ■ | ■ | ■ |
| Dedicated Sub-framing | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Square Sill Beading | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Splayed Sill Beading Option | | ■ | | | | | | |
| Expansion Mullions | | ■ | | ■ | ■ | ■ | ■ | ■ |
| Security Glazing | | ■ | | ■ | ■ | ■ | ■ | ■ |
| Accepts Sliding Doors | | ■ | | ■ | ■ | ■ | ■ | ■ |
| Thermally Broken | | | | | | | ■ | ■ |
| Twin Colour Option | | | | | | | ■ | ■ |
| Structurally Glazed Option | | | | | | | | |
| Accepts Hinged Doors | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Accepts Pivot Doors | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Accepts Sliding Sashes | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Accepts Awning Sashes | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| Accepts Double-Hung Sashes | ■ | ■ | ■ | | | | | |
| Accepts ClearVENT™ Windows | ■ | ■ | ■ | | ■ | | | |
| Accepts Glazed Louvres | | ■ | ■ | | ■ | ■ | | |
| Accepts Fixed Aluminium Louvres | | ■ | | ■ | ■ | ■ | | |
| Entirely Australian Made | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Fully Tested AS2047 | | ■ | | ■ | ■ | ■ | ■ | ■ |
| WERS Rated | | ■ | | ■ | ■ | ■ | ■ | ■ |
| BAL-40 Rated | | ■ | | | ■ | ■ | ■ | ■ |
| SAFE4KIDS™ Compliant | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Cyclone Tested/Rated | | ■ | | ■ | | ■ | | |
| Acoustics Tested | | ■ | | | ■ | | ■ | |

*Subject to individual site conditions. Contact AWS Technical Support for more information.



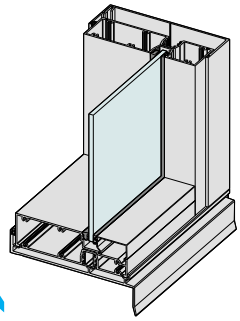
SERIES 80 74

Narrow Offset 80mm Framing



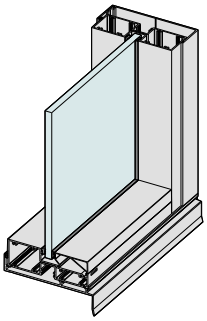
SERIES 400 76

Single Glazed CentreGLAZE™
102mm Framing



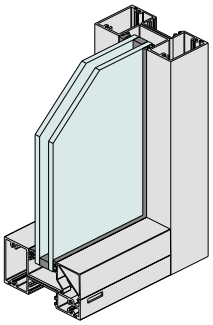
SERIES 600 81

Wide Offset 150mm Framing



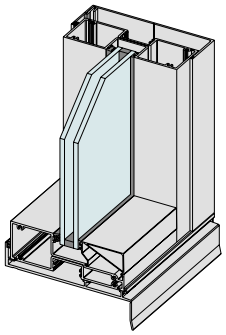
SERIES 620 84

Single Glazed CentreGLAZE™
150mm Framing (Thick Glass)



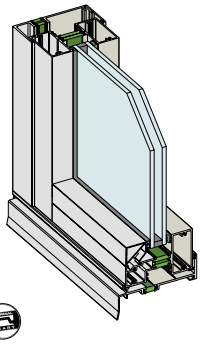
SERIES 424 79

Double Glazed CentreGLAZE™
102mm Framing



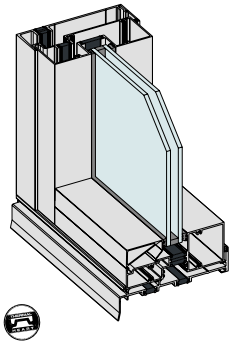
SERIES 624 85

Double Glazed CentreGLAZE™
150mm Framing



SERIES 804 92

Thermally Broken 100mm
CentreGLAZE™ Framing



SERIES 806 93

Thermally Broken 150mm
CentreGLAZE™ Framing

VANTAGE® | ELEVATE™

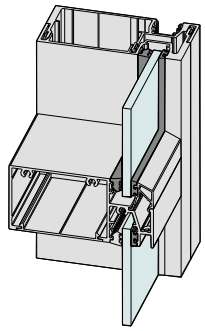
# SYSTEM SELECTION GUIDE

## FRONTGLAZE™ FRAMING

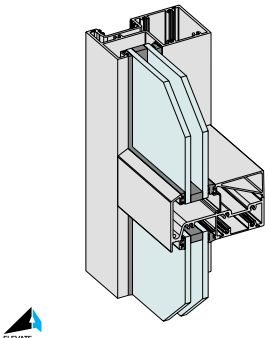
Elevate Commercial FrontGLAZE™ framing systems offer a clean external finish. Glass is positioned very close to the external face with minimal external frame projection. Splayed external ledges and glazing beads shed dust and water from the framing whilst offering excellent water and weather resistance.

| | 406 Series | 426 Series | 606 Series | 626 Series | 646 Series | 936 Series | 824 Series | 826 Series |
|---|---|---|---|---|---|---|---|---|
| 100mm /102mm | ■ | ■ | | | | | ■ | |
| 150mm Frame Size | | | ■ | ■ | ■ | | | ■ |
| 225mm Frame Size | | | | | | ■ | | |
| Single Glazed | ■ | | ■ | | | ■ | | |
| Double Glazed | | ■ | | ■ | ■ | ■ | ■ | ■ |
| Dedicated Sub-framing | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Square External Sill/Bead | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Splayed External Sill/Bead | ■ | ■ | ■ | ■ | | | | |
| Internal Bead Option | ■ | ■ | ■ | ■ | | | | |
| Expansion Mullions | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Security Glazing Option | ■ | ■ | ■ | ■ | | ■ | ■ | ■ |
| Accepts Sliding Doors | ■ | ■ | ■ | ■ | | ■ | ■ | ■ |
| Thermally Broken | | | | | | | ■ | ■ |
| Dual Colour Option | | | | | | | ■ | ■ |
| Structurally Glazed Option | | ■ | | ■ | | | | |
| Accepts Hinged Doors | ■ | ■ | ■ | ■ | | ■ | ■ | ■ |
| Accepts Pivot Doors | ■ | ■ | ■ | ■ | | ■ | ■ | ■ |
| Accepts Sliding Sashes | | | | | | | | |
| Accepts Awning Sashes | ■ | ■ | ■ | ■ | | ■ | ■ | ■ |
| Accepts Double-Hung Sashes | | | | | | | | |
| Accepts ClearVENT™ Windows | | | | | | | | |
| Accepts Glazed Louvres | ■ | ■ | ■ | ■ | | ■ | | |
| Accepts Fixed Aluminium Louvres | ■ | ■ | ■ | ■ | | ■ | | |
| Fully Tested AS2047 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| WERS Rated | ■ | ■ | ■ | ■ | | | ■ | ■ |
| BAL-40 Rated | ■ | ■ | ■ | ■ | | | ■ | ■ |
| SAFE4KIDS™ Compliant | N/A | N/A | N/A | N/A | | | N/A | N/A |
| Cyclone Tested/Rated | | | | | | ■ | | |
| Acoustics Tested | | | | | ■ | | | |

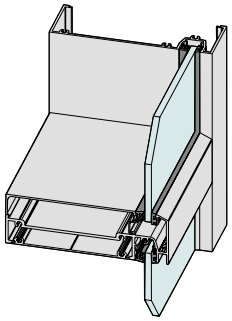
*Subject to individual site conditions. Contact AWS Technical Support for more information.



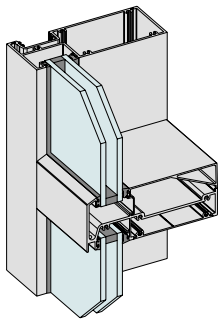




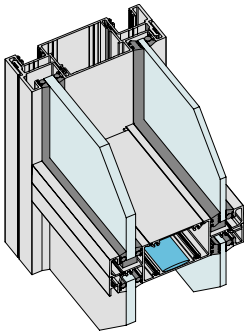




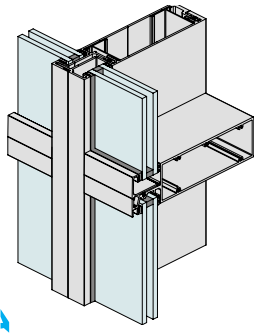




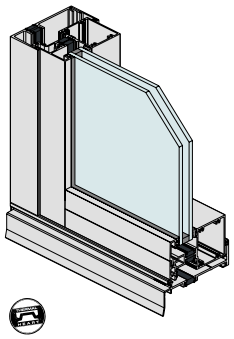




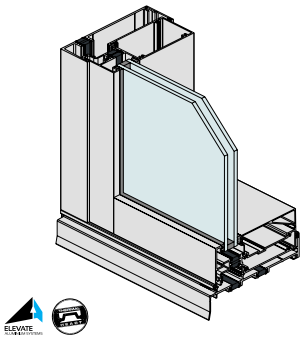












VANTAGE® | ELEVATE™

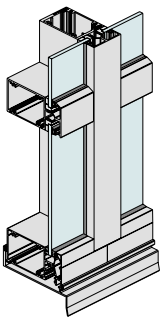
# SYSTEM SELECTION GUIDE

## FaceLINE™ FRAMING

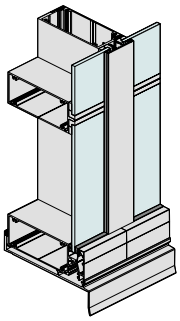
The Elevate™ Commercial FaceLINE™ framing system has been designed to highlight and complement the clean-lined façades that are a favourite within the commercial design community. FaceLINE™ framing enables glass to be positioned very close to the external face of the frame.

| | 407 Series | 607 Series |
|---|---|---|
| 100mm Frame Size | ■ | |
| 150mm Frame Size | | ■ |
| Single Glazed | ■ | ■ |
| Double Glazed | | |
| Double Glazed Option | | |
| Dedicated Sub-Framing | ■ | ■ |
| Square Sill Beading | ■ | ■ |
| Splayed Sill Beading | ■ | ■ |
| Expansion Mullions | ■ | ■ |
| Security Glazing | ■ | ■ |
| Thermally Broken | | |
| Twin Colour Option | | |
| Structurally Glazed Option | | ■ |
| Accepts Hinged Doors | ■ | ■ |
| Accepts Pivot Doors | ■ | ■ |
| Accepts Sliding Sashes | | |
| Accepts Awning Sashes | | |
| Accepts Double-Hung Sashes | | |
| Accepts ClearVENT™ Windows | | |
| Accepts Glazed Louvres | | |
| Accepts Fixed Aluminium Louvres | | |
| Entirely Australian Made | ■ | ■ |
| Fully Tested AS2047 | ■ | ■ |
| WERS Rated | ■ | ■ |
| BAL-40 Rated | | |
| SAFE4KIDS™ Compliant | N/A | N/A |
| Cyclone Tested/Rated | | |
| Acoustics Tested | | |

*Subject to individual site conditions. Contact AWS Technical Support for more information.







VANTAGE® | ELEVATE™

# SYSTEM SELECTION GUIDE

## FIXED WINDOWS

In addition to commercial framing options, fixed windows can be fabricated using the profiles which make up Vantage awning window systems.

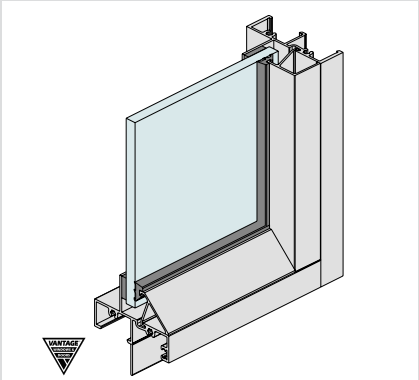
| | Series 516 | Series 517 | Series 616 | Series 726 |
|---|---|---|---|---|
| 50mm Frame | ■ | | | |
| 100mm+ Frame | | ■ | ■ | ■ |
| Slimline Profiles | ■ | ■ | | |
| Bold Profiles | | | ■ | ■ |
| Double Glazing | ■ | ■ | ■ | ■ |
| Internal Beading Option | | | ■ | ■ |
| Mitred Frame | | | ■ | ■ |
| Square Cut Frame | ■ | ■ | | |
| Extreme Weather Performance (450Pa+)* | ■ | ■ | ■ | ■ |
| Thermally Broken | | | | ■ |
| Dedicated Sub-Framing | | | | |
| Fully Tested AS2047 | ■ | ■ | ■ | ■ |
| WERS Rated | ■ | ■ | ■ | ■ |
| BAL-40 Rated | ■ | ■ | ■ | ■ |
| Cyclone Tested/Rated | | | ■ | |
| Acoustics Tested | ■ | | ■ | ■ |

NOTE: AWS Offers a wide range of commercial framing systems for use as fixed windows in commercial or residential applications. These systems are shown under

- CentreGLAZE™ Framing
- FrontGLAZE™ Framing
- FaceLINE™ Framing

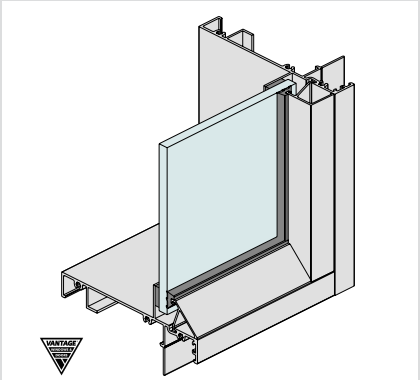
The systems outlined and illustrated on these pages are from the Vantage residential range and are ideal choices when fixed windows will be used in conjunction with other operable window systems from the Vantage range and a similar aesthetic is sought.

*Subject to individual site conditions. Contact AWS Technical Support for more information.



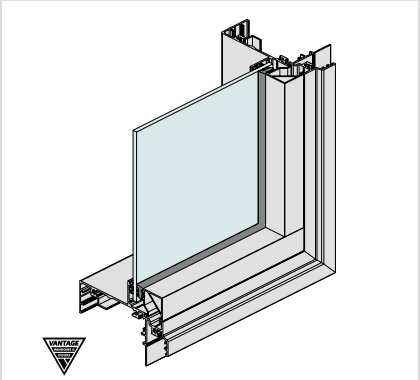
SERIES 516 33

Fixed Window



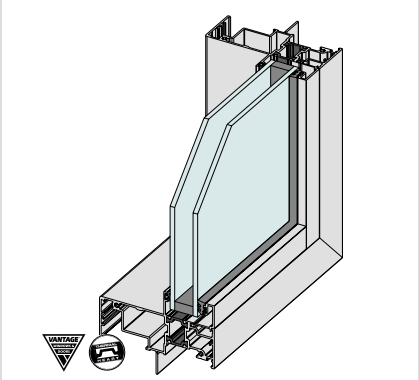
SERIES 517 34

Fixed Window



SERIES 616 48

Fixed Window



SERIES 726 54

Fixed Window

# SYSTEM PORTFOLIO

## DESIGNER SERIES

### High performance, architecturally styled systems for designer residential applications

Designer Series windows and doors are architecturally inspired, featuring a 102mm frame and bold sash designs to give a clean, striking aesthetic. These systems are designed to offer superior performance characteristics ideal for high-end residential applications. The strong frame and sash profiles enable you to achieve larger openings, support heavier glass panels and create windows free of transoms for an unobstructed view.

All systems within the Designer Series range can be coupled together to create custom configurations for your specific application. Designer Series systems combine contemporary aesthetics with superior performance offering excellent strength, very low air infiltration and high water resistance.


## DESIGNER SERIES | ThermalHEART®

### Thermally broken aluminium window and door systems for improved energy efficiency

This thermally broken range of high performance residential aluminium window and door systems offers significantly improved thermal performance and energy efficiency.

Ideal for those applications where minimising cold and heat transfer is a priority, this innovative range is 32% more thermally efficient than standard double glazed windows and doors.

Australian designed to deliver superior performance for the varied climates and environments around the country, Vantage delivers high performance residential aluminium window and door systems that offer enormous flexibility in design. Hallmarks of the Vantage systems are aluminium profiles that blend aesthetics and adaptability. The Vantage brand offers basic residential suites, alongside high performance Designer Series systems which deliver commercial sized framing options for greater design flexibility. Bi-fold doors and windows and bold stacking sliding doors are the highlights of this extensive range.

The addition of thermally broken designer suites to the Vantage offering ensures Vantage systems meet contemporary aspirations for energy efficiency and comfort. The comprehensive Designer Series ThermalHEART® range delivers outstanding outcomes in residential and architectural construction where thermal performance is a primary consideration. ThermalHEART® systems deliver performance improvements in the range of 32% over traditional aluminium joinery. All Vantage systems are tested to meet and exceed Australian standards ensuring Vantage Aluminium Joinery will deliver satisfaction for generations.

## RESIDENTIAL SERIES

### A comprehensive suite of window and door systems designed for Australian residential applications

The Vantage Residential Series offers a comprehensive suite of window and door systems designed for Australian conditions. The extensive range has been developed with a focus on creating compliant, economical systems to provide necessary performance characteristics and meet the functional requirements of Australian residential dwellings.

Residential Series systems offer high water resistance and low air infiltration, conform to all relevant Australian Standards and have been fully tested and WERS rated.

## SPECIALTY

### Innovative products purposely designed to provide maximum sound reduction for your project

Within the Vantage range of Aluminium window and door systems, there are a number of specialty products. The SoundOUT™ range of secondary glazing windows and doors are purposefully designed to improve the acoustic performance of the building envelope. Tested in accordance with AS1191-1985 by the National Acoustics Laboratory, the SoundOUT™ range can be used to dramatically reduce sound penetration into a building.

VANTAGE
# SYSTEM PORTFOLIO

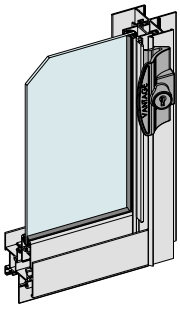
| | Series | Description | Page | 50mm Frame | 100mm+ Frame | Slimline Profiles | Bold Profiles | Double Glazing Option | Thermally Broken |
|---|---|---|---|---|---|---|---|---|---|
| RESIDENTIAL SERIES | 502-506 | Residential Sliding Window | 30 | ■ | | ■ | ■ | ■ | |
| | 514 | Residential Double-Hung Window | 32 | ■ | | ■ | | | |
| | 516 | Residential Awning Window | 33 | ■ | | ■ | | ■ | |
| | 517 | Residential Awning Window | 34 | | ■ | ■ | | ■ | |
| | 541 | Residential Sliding Door | 35 | | ■ | ■ | | ■ | |
| | 542 | DStacker™ Sliding Door | 36 | | ■ | ■ | | ■ | |
| | 549 | Hinged Entry Door | 37 | | ■ | | ■ | ■ | |
| DESIGNER SERIES | 525 | Louvre Window | 40 | | ■ | ■ | | | |
| | 546 | Bi-Fold Window | 41 | | ■ | | ■ | ■ | |
| | 548 | Bi-Fold Door | 42 | | ■ | | ■ | ■ | |
| | 548 | Hinged Door | 43 | | ■ | | ■ | ■ | |
| | 601 | MAGNUM™ Sliding Window | 44 | | ■ | | ■ | ■ | |
| | 602 | MAGNUM™ Sliding Window | 45 | | ■ | | ■ | ■ | |
| | 613 | MAGNUM™ Double-Hung Window | 46 | | ■ | | ■ | ■ | |
| | 614 | ClearVENT™ Sashless D/H Window | 47 | | ■ | ■ | | | |
| | 616 | MAGNUM™ Awning/Casement Window | 48 | | ■ | | ■ | ■ | |
| | 616TR | MAGNUM™ Truth™ Awning/Casement | 49 | | ■ | | ■ | ■ | |
| | 618 | MAGNUM™ Sliding Door | 50 | | ■ | | ■ | ■ | |
| ThermalHEART™ | 726 | ThermalHEART® Awning Window | 54 | | ■ | | ■ | ■ | ■ |
| | 726TR | ThermalHEART® Truth™ Awning/Casement | 55 | | ■ | | ■ | ■ | ■ |
| | 729 | ThermalHEART® Hinged Door | 56 | | ■ | | ■ | ■ | ■ |
| | 730 | ThermalHEART® Bi-Fold Door | 57 | | ■ | | ■ | ■ | ■ |
| | 731 | ThermalHEART® Sliding Door | 58 | | ■ | | ■ | ■ | ■ |
| SPECIALTY | 531 | SoundOUT™ Sliding Window | 62 | ■ | | ■ | | ■ | |
| | 532 | SoundOUT™ Casement Window | 63 | ■ | | ■ | | ■ | |
| | 533 | SoundOUT™ Sliding Door | 64 | ■ | | ■ | | ■ | |

*Subject to individual site conditions. Contact AWS Technical Support for more information.

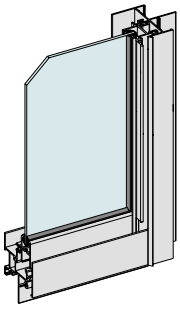
| Enhanced Acoustic Performance | Extreme Weather (300Pa+ water)* | Integrated Screening Option | Powder Coat Finish | Anodised Finish | Dual Colour Option | WERS Rated | Max Panel Height* | Max Panel Width* | Max Glass Thickness |
|---|---|---|---|---|---|---|---|---|---|
| | ■ | ■ | ■ | ■ | | ■ | 1500 | 1050 | 20mm |
| | ■ | ■ | ■ | ■ | | ■ | 1050 | 1010 | 7.52mm |
| ■ | ■ | ■ | ■ | ■ | | ■ | various | various | 20mm |
| ■ | ■ | ■ | ■ | ■ | | ■ | various | various | 20mm |
| | ■ | ■ | ■ | ■ | | ■ | 2350 | 1200 | 20mm |
| | ■ | ■ | ■ | ■ | | ■ | 2650 | 1280 | 20mm |
| | | ■ | ■ | ■ | | ■ | 2350 | 900 | 20mm |
| | | ■ | ■ | ■ | | | 3014 | 900 | 6.38mm |
| | ■ | | ■ | ■ | | ■ | 1600 | 900 | 20mm |
| | ■ | | ■ | ■ | | ■ | 2600 | 900 | 20mm |
| | ■ | | ■ | ■ | | ■ | 2350 | 900 | 20mm |
| | ■ | ■ | ■ | ■ | | ■ | 1600 | 1350 | 20mm |
| | ■ | ■ | ■ | ■ | | ■ | 1600 | 1350 | 20mm |
| | ■ | ■ | ■ | ■ | | ■ | 1009 | 10901 | 20mm |
| | | ■ | ■ | ■ | | | 1010 | 1210 | 6.38mm |
| ■ | ■ | ■ | ■ | ■ | | ■ | various | various | 20mm |
| ■ | ■ | ■ | ■ | ■ | | ■ | various | various | 24mm |
| | ■ | ■ | ■ | ■ | | ■ | 2941 | 1500 | 20mm |
| ■ | ■ | ■ | ■ | ■ | ■ | ■ | various | various | 32mm |
| ■ | ■ | ■ | ■ | ■ | ■ | ■ | various | various | 32mm |
| | ■ | ■ | ■ | ■ | ■ | ■ | 2600 | 900 | 32mm |
| | ■ | ■ | ■ | ■ | ■ | ■ | 2600 | 900 | 32mm |
| | ■ | ■ | ■ | ■ | ■ | ■ | 2640 | 1550 | 32mm |
| ■ | | | ■ | ■ | | ■ | 1500 | 930 | 20mm |
| ■ | | | ■ | ■ | | ■ | 2100 | 1000 | 20mm |
| ■ | | | ■ | ■ | | ■ | 2360 | 1200 | 20mm |

VANTAGE
# RESIDENTIAL SERIES

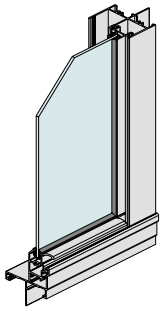

Photo courtesy of Hanlon Windows



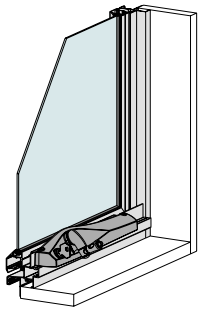




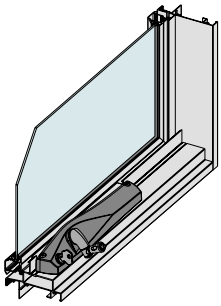




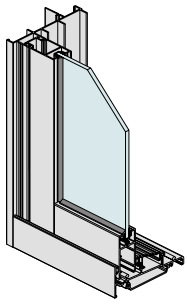












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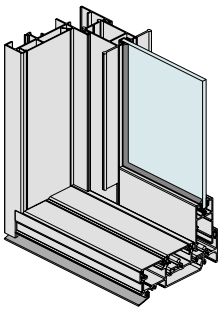
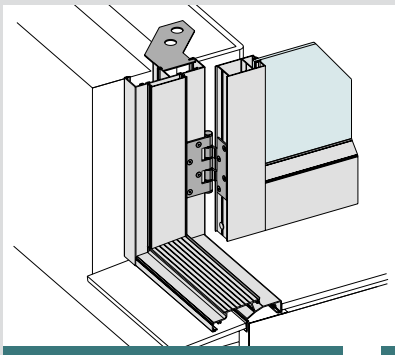


SERIES 542 36

DStacker™ Sliding Door

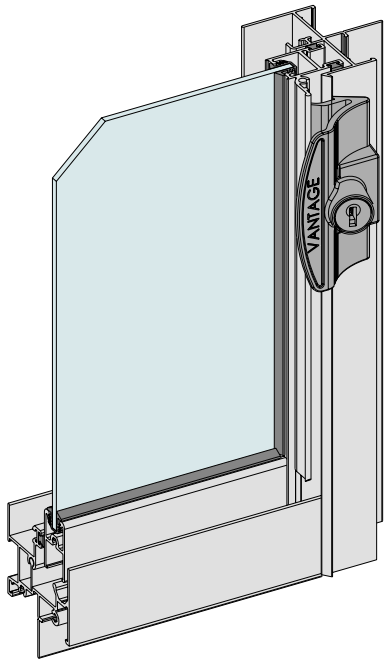


SERIES 549 37

Hinged Entry Door

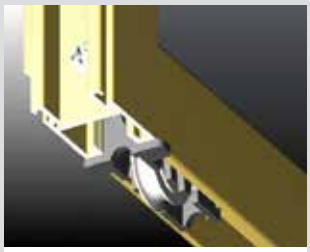
RESIDENTIAL SERIES | SERIES 502-504

# RESIDENTIAL SLIDING WINDOW

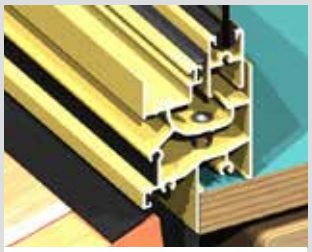



## KEY FEATURES

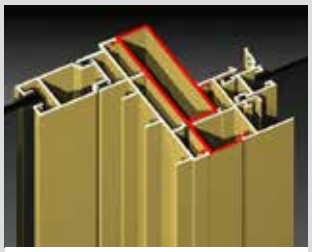
- 50mm frame, high performance residential sliding window. Can be re-handed after installation.
- Opening sashes run on large diameter wheels ensuring smooth operation.
- Standard cam and key type cam handles available and located on the jamb for maximum security.
- Can be fabricated as four light sliders, sliders over sliders and fixed lights out of slider frame.
- Fixed sill has built-in drainage to take care of condensation.
- Fixed highlight/lowlight glass is hard up against the outer face, no ledges to catch dust and beaded from the inside. This allows reglazing without expensive scaffolding.
- Flyscreens tuck into the head and sill, held by nylon clips on the sides with no rivets.
- 102mm frame extender available.
- Numerous meeting stile combinations and weather resisting sills allow this window to be installed in most residential situations in Australia.



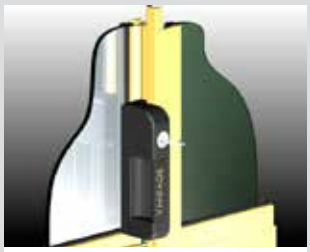
Large diameter wheels used on this product ensure smooth operation for years to come – compare our wheels to the others. Double bogey quad rollers used for heavy doors.



Our standard slider sill performs well but for exposed locations we offer a higher water resisting sump sill, shown above. The sump sill is also fitted with a proprietary anti-blowback ball valve.



We have numerous couplers for all our windows and doors. The illustration above shows sliding window coupled to sliding door.



For ultimate security we offer a central ventlock. As you turn the key, part of the stile projects into a keeper located in the head. It allows sash to be locked in closed or partly-open positions.

### GENERAL

**Max Panel Height***
1500mm

**Max Panel Width***
1050mm

**Max Glass Thickness**
6.76mm (20mm w/adaptor)

**Frame Depth**
50mm

### ENERGY

**UW Range**
3.2-6.4

**SHGC Range**
0.30-0.73

### WEATHER

**Maximum Water**
450 Pa.

### ACOUSTICS

**7.25mm Lam**
30 (-1;-2)

**6.38mm Lam**
32 (-1;-2)

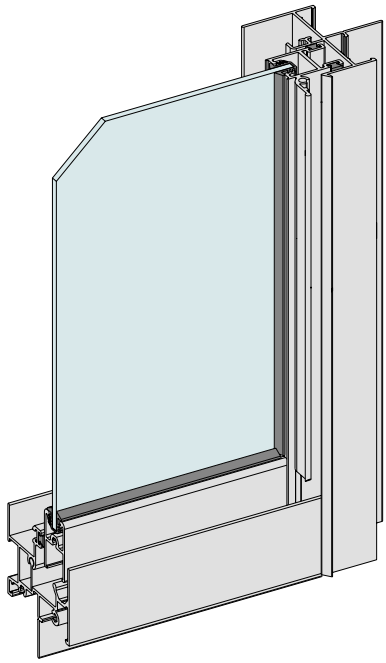
ACOUSTICS AS2047 BAL40 SAFE4KIDS WINDOW ENERGY RATING

vantagealuminium.com.au/504

*Dimensions subject to individual site conditions.

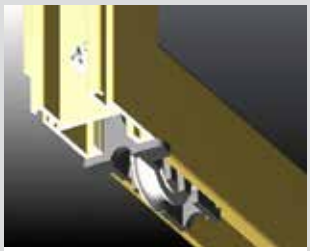
RESIDENTIAL SERIES | SERIES 506

# RESIDENTIAL SLIDING WINDOW (AVAILABLE IN WA ONLY)



## KEY FEATURES

- Alternative 72mm frame designed specifically for W.A. building-in conditions, or alternative 49mm frame.
- Optional meeting stile and transom strengths cover a large variety of design wind load areas.
- Standard centre lock with key operated aluminium shoot bolt. This lock allows home owners to lock the window in the closed and partly open (ventilation) position.
- Sliding sashes can also be fitted with a variety of jamb latches.
- Opening sashes run on large diameter wheels ensuring smooth operation.
- 90° and 135° Corner couplers that will accept 50mm mild steel roof support columns.
- A variety of slider sill options that allow water resistance up to 450Pa.



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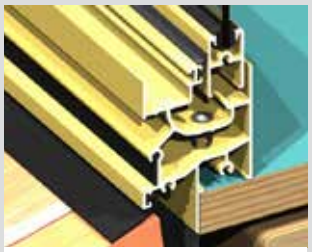

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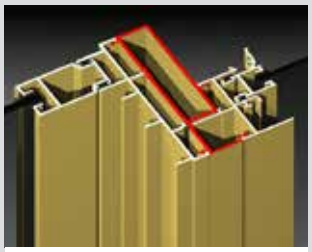
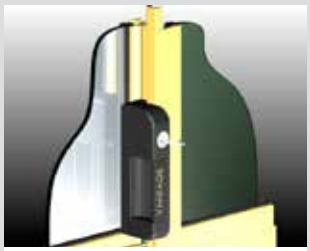


We have numerous couplers for all our windows and doors. The illustration above shows sliding window coupled to sliding door.



For ultimate security we offer a central ventlock. As you turn the key, part of the stile projects into a keeper located in the head. It allows sash to be locked in closed or partly-open positions.

### GENERAL

**Max Panel Height***
1500mm

**Max Panel Width***
1050mm

**Max Glass Thickness**
6.76mm (10.38 w/adaptor)

**Frame Depth**
72mm or 49mm

### ENERGY

**UW Range**
3.2-6.4

**SHGC Range**
0.30-0.73

### WEATHER

**Maximum Water**
450 Pa.

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this products acoustic performance will be inline with Series 504

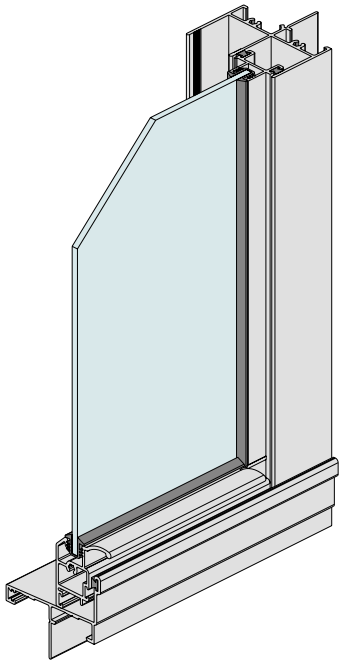
ACOUSTICS AS2047 BAL40 SAFE4KIDS WINDOW ENERGY RATING

vantagealuminium.com.au/506

*Dimensions subject to individual site conditions.

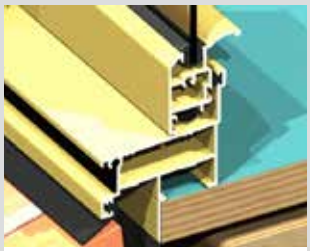
RESIDENTIAL SERIES | SERIES 514

# RESIDENTIAL DOUBLE-HUNG WINDOW



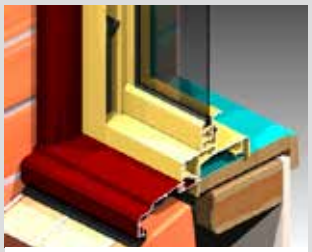
## KEY FEATURES

- 50mm frame, high performance residential double-hung window. Finger grip built into the top and bottom sash rails.
- Sashes will bypass each other to allow cleaning of all glass from inside the building.
- Series 514 double-hung sashes can be secured with custom designed cam lock or industry standard crescent type lock. Both come in key and non-key locking and can be colour matched to the window frame.
- Sashes run on spring balances with adjustable shoes.
- Heavy duty interlocking meeting rails.
- Sash support shoe is recessed up into the external meeting rail and the bottom rail to reduce the chance of shoe damage.
- Fixed sill has built-in drainage to take care of condensation.
- 102mm frame extender available.
- Fixed highlight/lowlight glass is hard up against the outer face, no ledges to catch dust and beaded from the inside. This allows reglazing without expensive scaffolding.

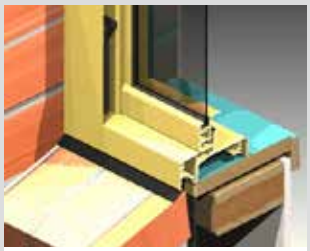


Our standard sill performs well and is suitable for most residential locations. We also offer a tubular sump sill, shown above, for exposed locations.

The detail above shows our heavy duty meeting rail and the recessed sash support shoe. Recessing the shoe is important, as it protects the shoe when the sash is fully opened down to the sash stop.



The detail above shows the ultimate frame finish with Longreach frame extender and the Paddington federation trims. The Paddington trims can be coloured to match, or contrast.



If you are looking for a bold frame section, consider ordering your 514 with the Longreach frame extender. The frame now grows in thickness from 50mm to 102mm and grows in width by 25mm all round.

### GENERAL

**Max Panel Height***
1050mm

**Max Panel Width***
1010

**Max Glass Thickness**
6.76mm (7.52 w/adaptor)

**Frame Depth**
50mm

### ENERGY

**UW Range**
4.3-6.2

**SHGC Range**
0.31-0.74

### WEATHER

**Maximum Water**
300 Pa.

### ACOUSTICS

**7.25mm Lam**
30 (-2;-3)

**5mm Float**
28 (-2;-3)

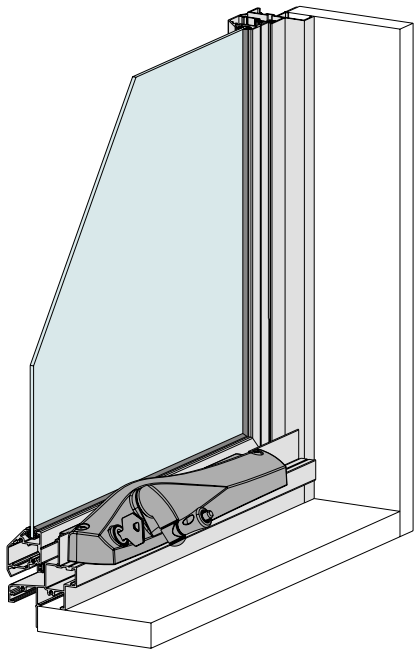
**6.38mm Lam**
29 (-3;-4)

vantagealuminium.com.au/514

*Dimensions subject to individual site conditions.

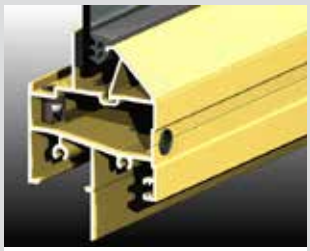
RESIDENTIAL SERIES | SERIES 516

# RESIDENTIAL AWNING/CASEWMENT WINDOW

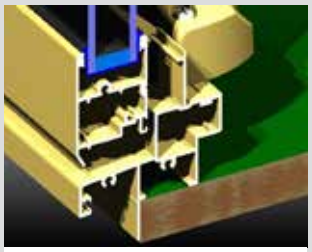


## KEY FEATURES

- 50mm frame high performance residential awning window.
- Continuous hinge hood protects sash from water intrusion. Water resistance rating of 450Pa allows this awning window to be used in most exposed residential locations in Australia.
- Awning type sashes are fitted with heavy duty chain winders.
- Casement type sash option available. These sashes are fitted with stainless steel friction stays and wedgeless cam handles.
- Adjoining fixed sidelights and/or lowlights have matching splayed glazing beads.
- Fixed sidelights and lowlights can be supplied with optional self-draining ball valve in the tubular sill that drains condensation water back to the outside while preventing blowbacks through the drainage hole.
- 102mm frame extender available.
- Moulded nylon sash corner guards designed to protect the exposed lower corners when the awning sash is in the open position.
- Custom co-extruded bulb seal for weather performance.



We offer an optional tall fixed sump sill with anti-blowback ball valve to take care of condensation.



We have several sashes to choose from, the illustration above shows our custom double glazed wraparound sash. This sash will accept 20mm Insulating Glass Units.

The standard chain winder used on the 516 comes standard with a stainless steel adjustable chain and a Polesium™ casing. These corrosion resisting features make the winder suitable for exposed locations.

The lower corners on awning sashes are protected with nylon wraparound guards. This reduces the chance of injury if someone walks into an open sash.

### GENERAL

NB: Maximum panel height and width of Awning sashes are interdependent.

**Max Panel Height***
A/ @2400w = 800H
C/ 1500mm

**Max Panel Width***
A/ @2100h = 900w
C/ 600mm

**Max Glass Thickness**
20mm

**Frame Depth**
50mm

### ENERGY

**UW Range**
3.4-6.6

**SHGC Range**
0.21-0.66

### WEATHER

**Maximum Water**
450 Pa.

### ACOUSTICS

**6.38mm Lam**
34 (-1;2)

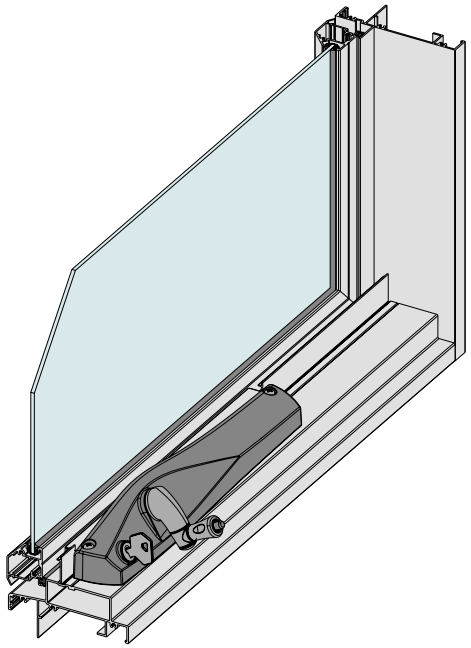
**10.38mm Lam**
STC36



*Dimensions subject to individual site conditions. A = Awning Configuration. C = Casement Configuration.

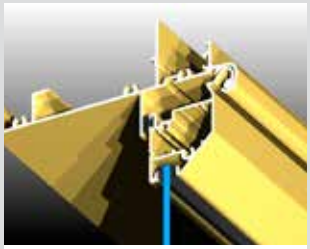
RESIDENTIAL SERIES | SERIES 517

# RESIDENTIAL AWNING/CASEMENT WINDOW

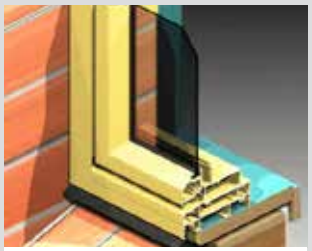


## KEY FEATURES

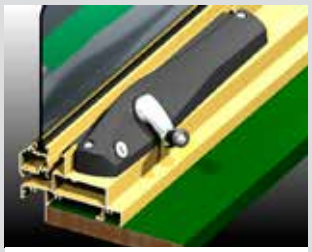
- The 102mm wide frame allows the fabrication of chain winder awning windows with the winder contained within the frame line.
- This framing system has been designed to align with and couple to the Vantage Series 541 sliding door and the Series 548 French doors.
- Awning type sashes are fitted with heavy duty adjustable chain winders.
- Adjoining fixed sidelights and/or lowlights have matching splayed glazing beads.
- Fixed sidelights and lowlights can be supplied with optional self-draining ball valve in the tubular sill that drains condensation water back to the outside while preventing blowbacks through the drainage hole.



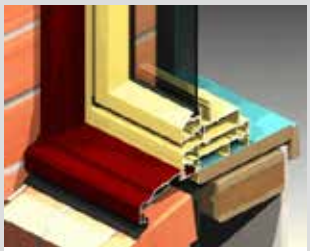
The continuous hinge built into the head and top of the sash is designed to carry heavy sashes and protect the top of the sash from water intrusion.



If you are looking for a bold frame section, consider ordering your 517 with the Longreach frame extender. The frame width grows by 17mm all round.



The standard chain winder used on the 517 comes standard with a stainless steel adjustable chain and a Polesium™ casing. These corrosion resisting features make the winder suitable for exposed locations.



The detail above shows the ultimate frame finish with Longreach frame extender and the Paddington federation trims. The Paddington trims can be coloured to match, or contrast as shown above.

### GENERAL

NB: Maximum panel height and width of Awning sashes are interdependent.

**Max Panel Height***
A/ @2400w = 800H
C/ 1500mm

**Max Panel Width***
A/ @2100h = 900w
C/ 600mm

**Max Glass Thickness**
20mm

**Frame Depth**
101.6mm

### ENERGY

**UW Range**
3.8-7.1

**SHGC Range**
0.27-0.66

### WEATHER

**Maximum Water**
450 Pa.

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in line with Series 516.

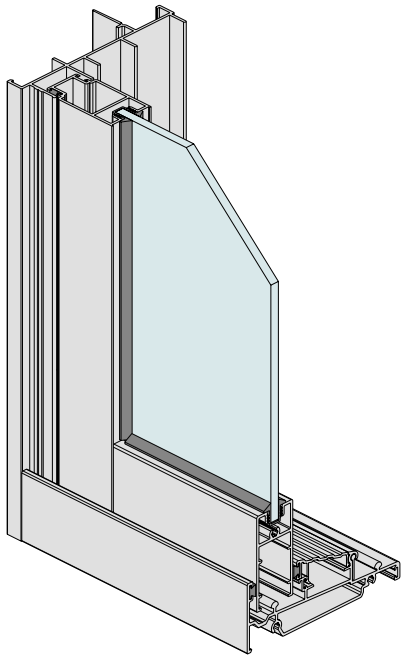
AS2047 BAL40 SAFE4KIDS WINDOW ENERGY RATING

vantagealuminium.com.au/517

*Dimensions subject to individual site conditions. A = Awning Configuration. C = Casement Configuration.

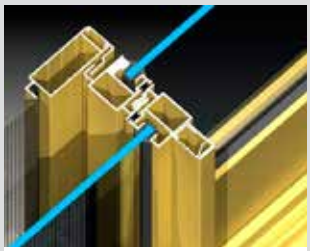
RESIDENTIAL SERIES | SERIES 541

# RESIDENTIAL SLIDING DOOR

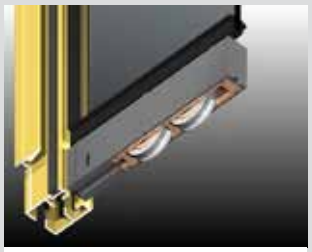


## KEY FEATURES

- 102mm wide frame residential sliding door with two heavy duty (tubular) sill options – one for standard water performance (150Pa) and a tall sump type sill for high water performance (300Pa).
- Lowline nursing home sill option also available.
- Flydoors slide on the outside and run on large diameter wheels matched to the track for silent running.
- Fixed panel external meeting stile has built-in interlock to accept the flydoor interlock – no unsightly rivets.
- The glass door and fly-door rolling tracks are protected from accidental damage by the splayed threshold.
- XF Panels can be re-handed on-site (direction reversed).
- Full range of door to window couplers allow this door to be joined to any Vantage Residential Series window.
- Double weatherpile sealed door panels for maximum air and water exclusion.
- Sill drain holes are covered with hinge flap to reduce air and insect infiltration.



A key feature of the 541 is the clean flydoor installation. The screens have a snap-on interlock that nest into the interlock on the glass door. Detail above also shows the optional stile closer.



Vantage wheels have been designed to fit snugly into the door bottom rail. Nothing slides as smooth as a Vantage sliding door. As shown above, double bogey wheels are used on heavy doors.

The ANDO™ optional 2-point door lock is designed for maximum security with 316 stainless steel locking tongues. The outer pull handles are corrosion resistant, powder coated 304 stainless steel.

Standard, high performance and nursing home sill options available. High performance sill illustrated above.

### GENERAL

**Max Panel Height***
2350mm

**Max Panel Width***
1200mm

**Max Glass Thickness**
20mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
3.0-6.2

**SHGC Range**
0.28-0.72

### WEATHER

**Maximum Water**
300 Pa. Sub-sill

### ACOUSTICS

**6.38mm Lam**
32 (-1;2)

**10.38mm Lam**
35 (-2;-3)

**7.52mm Lam**
32 (0;-1)

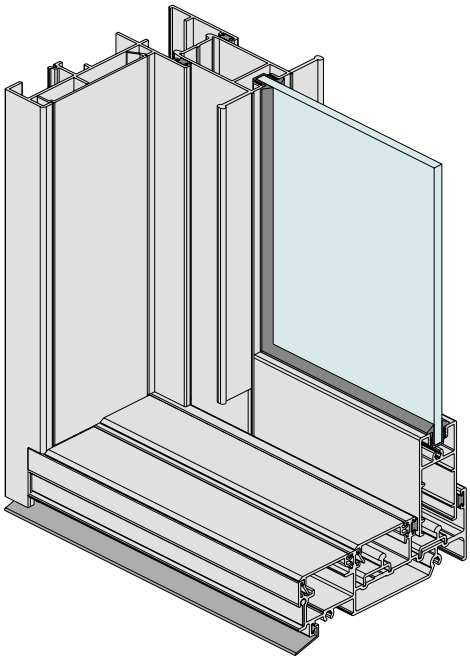
**5mm tgh/9mm/5mm tgh**
33 (-1;-3)



*Dimensions subject to individual site conditions.

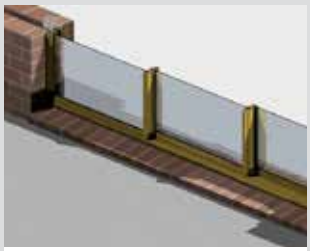
RESIDENTIAL SERIES | SERIES 542

# D'STACKER™ SLIDING DOOR

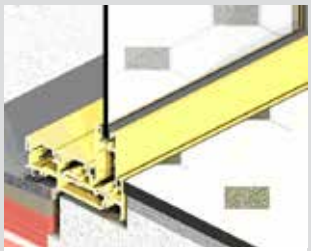


## KEY FEATURES

- This door can be fabricated as a multi-panel stacker with a clean flat sill where all unwanted recesses are closed off with snap-on fillers. We have a stacking screen door system to go with the glass doors.
- The 109mm wide perimeter frame will couple to a large variety of Vantage adaptors.
- Flat external fillers create a clean closed off frame appearance. On the sill the infills guide water away from the door panels and improve water resistance.
- A large variety of locks are available including multi-point mortice lock.
- Heavy door panels can be fitted with double bogey wheels for smooth long-term operation. Running rails can be replaced in the future if necessary.
- Compatible flyscreen system with:
  - Heavy duty spring loaded wheels top and bottom.
  - Snap-fit trailing style interlocker.
  - Matching hardware.

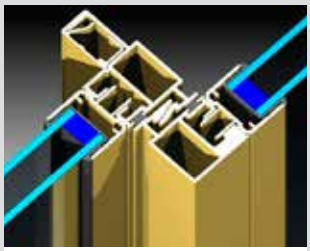


Series 542 D'Stacker™ is designed to be configured as multi-stacking doors up to 3 panels in each direction. Ideal for creating wide residential openings.



Semi and fully recessed sill options available to create seamless transition between internal and external. Semi recessed sill pictured above. Drains must be used with all fully recessed sill installations.

Integrated flyscreen sill for multi-stacking applications.



Will accept glass up to 20mm – shown above with adaptors to accept wide IGUs.

### GENERAL

**Max Panel Height***
2650mm

**Max Panel Width***
1350mm

**Max Glass Thickness**
20mm

**Frame Depth**
108.6mm

### ENERGY

**UW Range**
3.0-6.2

**SHGC Range**
0.28-0.72

### WEATHER

**Maximum Water**
300 Pa. Sump Sill

450 Pa. Sump Sill in sub-sill

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 542.

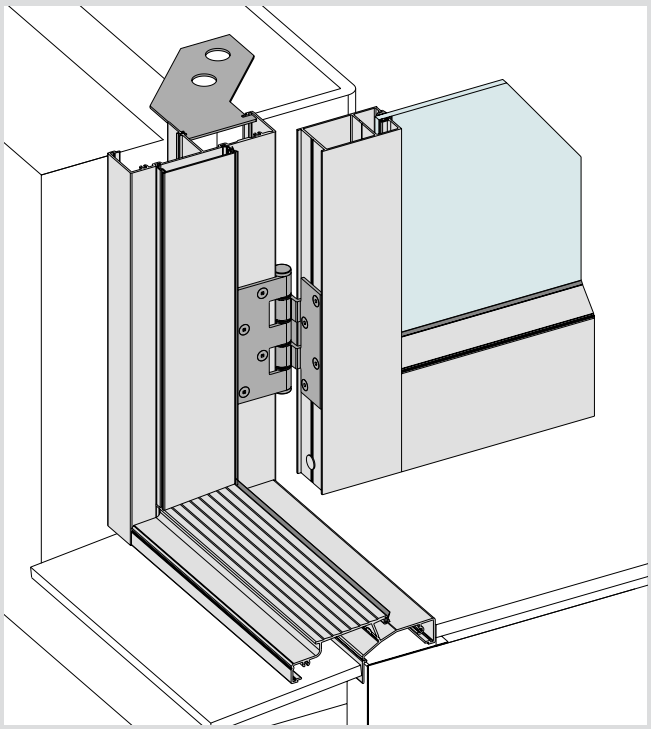
AS2047 BAL40 LIVABLE WINDOW ENERGY RATING

vantagealuminium.com.au/542

*Dimensions subject to individual site conditions.

# HINGED ENTRY DOOR

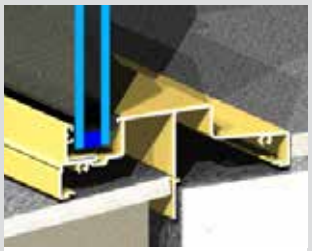




## KEY FEATURES

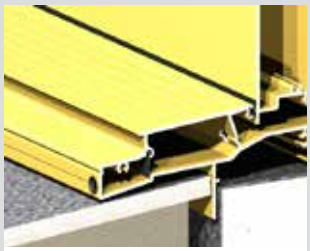
- Designed as an alternative to the traditional 135mm x 38mm timber entry door framing.
- Self-draining sill on internal opening doors. For exposed locations we recommend the external swing splayed sill.
- Features extra wide top and bottom rails.
- Rebated French meeting stiles give a flush appearance when the two doors meet.
- Custom hinges wrap around the aluminium door stile improving the appearance. Frame is reinforced at hinge fixing points.
- Doors can be fitted with custom parliament hinges where 180° opening is required.
- Door panels can be fitted with ClearVENT™ sashless double-hung panels.
- The perimeter frame has been designed with a dedicated screen door rebate on the outer edge.
- MAGNUM™ Series 616 sashes can be inserted into Series 549 framing.

Locks can be supplied in 2 or 4-point locking and the lever set can be colour matched to the door. Optional stainless steel lever sets are also available for exposed locations. ICON™ 316 stainless steel furniture is shown above.



Fixed sidelights on the 549 have been designed to match the hinged door frame and look like a bold timber frame. Both doors and sidelights will accept glass up to 20mm thick.

The internal swing hinged door frame has a dedicated rebate on the outer edge to accept optional hinged screen doors. No plant-on sections, and no unsightly visible rivets or screws.



The sills are designed to match adjoining fixed sills. External swing door panels can also be fitted with parliament type hinges to allow panels to open 180° back against the wall.

### GENERAL

**Max Panel Height***
2350mm

**Max Panel Width***
900mm

**Max Glass Thickness**
20mm

**Frame Depth**
135mm

### ENERGY

**UW Range**
3.2-5.9

**SHGC Range**
0.23-0.56

### WEATHER

**Maximum Water**
150 Pa. Open In

150 Pa. Open Out

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 542.

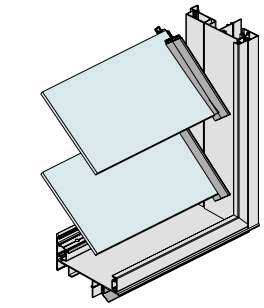
AS2047 TESTED + CERTIFIED
BAL40 TESTED + CERTIFIED



*Dimensions subject to individual site conditions.

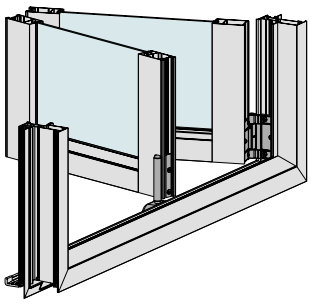
VANTAGE
# DESIGNER SERIES


Photo courtesy of Glass Supplies. Designer: Mike Cleaver, Clever Design.



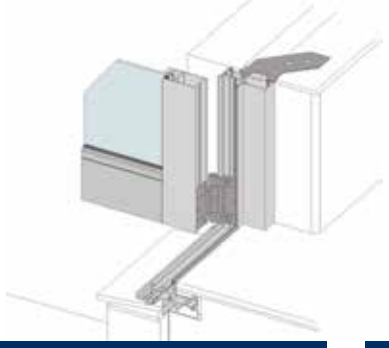


LouvreMASTER™ Adjustable Louvre Window



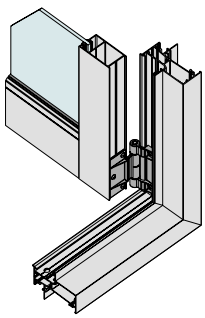


High Performance Bi-Fold Window



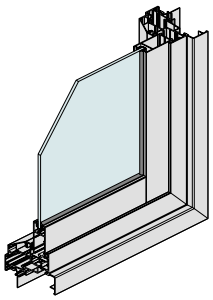


High Performance Bi-Fold Door



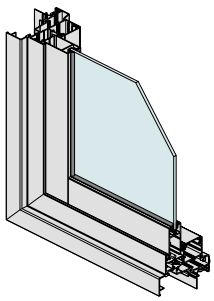


High Performance Hinged Door





MAGNUM™ Sliding Window



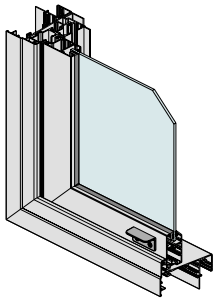


MAGNUM™ Sliding Window

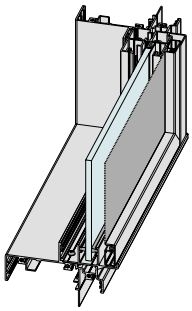
Designer Series windows and doors are architecturally inspired, featuring a 102mm frame and bold sash design to give a clean, striking aesthetic. These systems are designed to offer superior performance characteristics ideal for high-end residential applications. The strong frame and sash profiles enable you to achieve larger openings, support heavier glass panels and create windows free of transoms for an unobstructed view.

All systems within the Designer Series range can be coupled together to create custom configurations for your specific application.

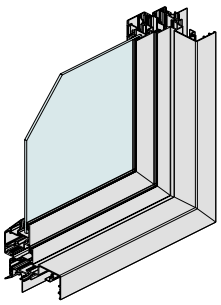
Designer Series systems combine contemporary aesthetics with superior performance offering excellent strength, very low air infiltration and high water resistance; in addition they comply to all relevant Australian Standards and have been fully tested and WERS rated.



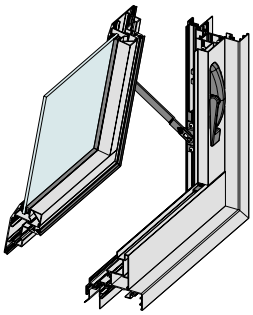




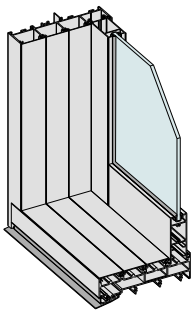






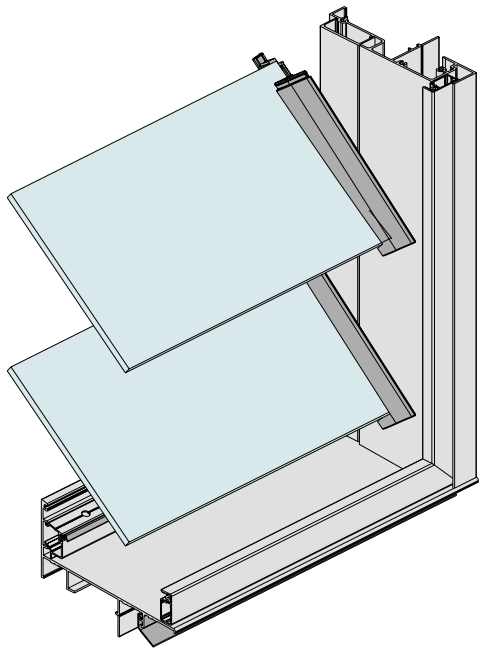






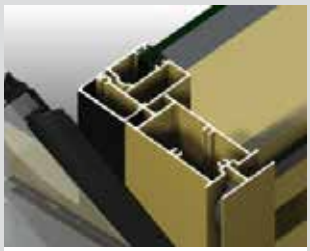
DESIGNER SERIES | SERIES 525

# LouvreMASTER™ ADJUSTABLE LOUVRE WINDOW



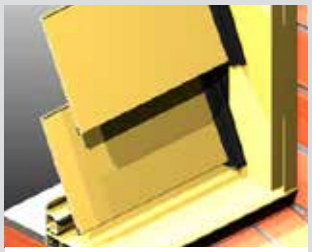
## KEY FEATURES

- Adjustable louvre window system designed to complement the Vantage Designer Series windows and doors. The jambs, head and sill will clip to all Designer Series products.
- The 131mm wide frame allows a flyscreen to be fitted within the frame line without the need for screws, rivets or unsightly turnbuckles – giving a clean flat finish.
- Standard blade heights are 152mm and 102mm, choosing a frame size which allows you to use all full height blades will always give the best appearance (i.e. no need for blades to be cut down).
- Will accept glass, timber or aluminium blades.
- Fixed inlay adaptors make it possible to have adjustable louvres and fixed lights within the same frame.
- 3° fall in sill ensures water, dust and salt are guided out of the window system.
- This window is available with an optional built-in security bar system.
- Louvre mechanisms can be key locked.

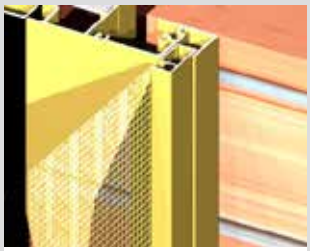


Our louvre mullions have been designed to withstand high wind loads and have a recess on the outside to accept screens when required. Image above shows how we fit fixed lights into the frame.

Vantage LouvreMASTER™ frame can be coupled to any Designer Series door with a large range of custom snap-on couplers. The picture above shows the louvre frame coupled to series 618 Sliding Door.



We offer 102mm and 152mm aluminium blades. Each blade is fitted with a weather seal where the blade meets blade. Blades can be coloured to match main frame if required.



One of the most important features with Vantage LouvreMASTER™ windows is how the flyscreen fits neatly into the window frame.

### GENERAL

**Max Panel Height***
3014mm

**Max Panel Width***
900mm

**Max Glass Thickness**
6.38mm

**Frame Depth**
135mm

### ENERGY

**UW Range**
4.6-6.2

**SHGC Range**
0.32-0.68

### WEATHER

**Maximum Water**
300 Pa.

### ACOUSTICS

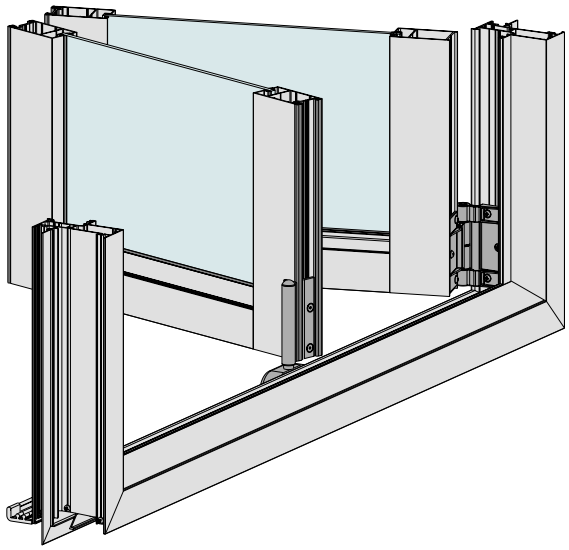
This product has not been acoustics tested.



*Dimensions subject to individual site conditions.

DESIGNER SERIES | SERIES 546

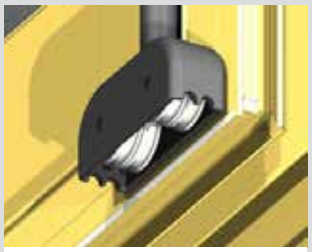
# HIGH PERFORMANCE BI-FOLD WINDOW



## KEY FEATURES

- The Series 546 Bi-Fold window incorporates narrow panel framing.
- Can be fitted with highlights or lowlights.
- Successfully water tested at 300Pa.
- Custom injection moulded flush bolt blocks and flush bolt guides remove the need for expensive and unsightly shims and aluminium angles.
- Custom hinges wrap around the window stile and jamb removing the need for notching and shimming. These custom components dramatically improve appearance.
- For coastal locations we recommend you use the 316 stainless steel roller cowling.
- Bi-fold windows are supported on dual or quad rollers running on heavy duty dual bottom rails.
- Accepts ANDO™, MIRO™ or ICON™ key and non-key bolt activators.
- Compatible with all Vantage Designer Series systems.

ANDO™ bolt activator, used to secure the bi-fold panels in the closed position. Hardware can be colour matched to frame. ANDO™ furniture also available in 316 stainless steel finish.



Bottom rolling bi-fold systems are ideal for residential applications as no load is applied to the head. Roller cowling also available in stainless steel finish – ideal for exposed coastal applications.

Custom hinges nest into the frame and stile. Hinges can be supplied in a large variety of colours. The double hollow frame is designed to resist twist as the window opens and closes.

Detailed above is the alternate ICON™, 316 stainless steel bolt activator. Turn the lever 90° to retract the top and bottom bolts.

### GENERAL

**Max Panel Height***
1600mm

**Max Panel Width***
900mm

**Max Glass Thickness**
20mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
3.6-6.1

**SHGC Range**
0.25-0.57

### WEATHER

**Maximum Water**
300 Pa.

### ACOUSTICS

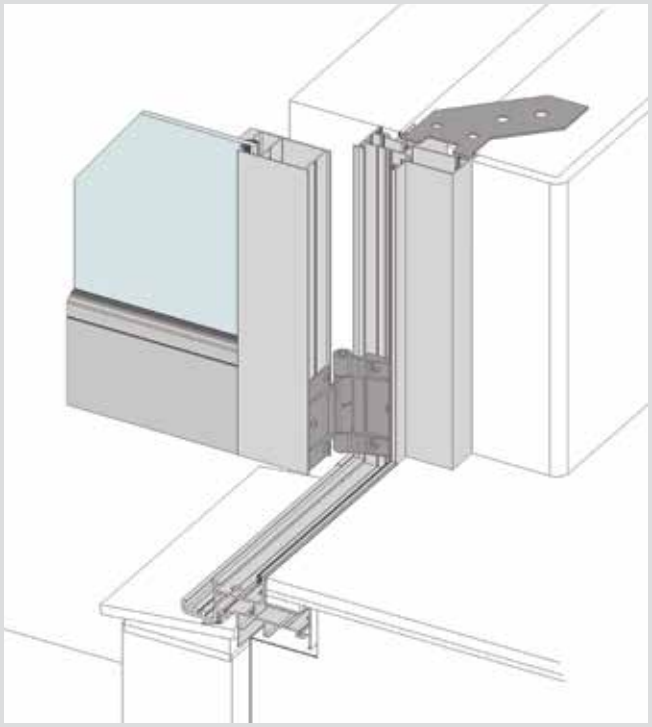
This product has not been acoustics tested.



*Dimensions subject to individual site conditions.

DESIGNER SERIES | SERIES 548

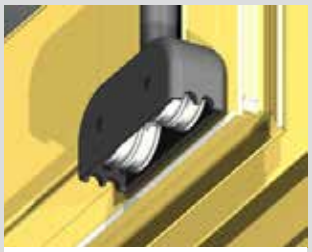
# HIGH PERFORMANCE BI-FOLD DOOR



## KEY FEATURES

- Inspired by European systems, the Series 548 Bi-Fold is bottom rolling. Supporting panels at the base eliminates risk of lintel sag resulting in door binding.
- Doors run smoothly because all the weight is carried on bottom rollers.
- Wide top and bottom rails give the door the bold appearance of traditional timber designs.
- Series 548 doors incorporate specially designed compression blocks and backing plates at the four corner joints of the door. These take the "sloppiness" out of corner joints and make sure that the door stays rigid and square.
- The centre hinge between door panels has a built-in handle to allow panels to be easily pulled back into the closed position.
- Bi-fold panels can be fitted with ClearVENT™ sashless double-hung panels.

ANDO™ bolt activator, used to secure the bi-fold panels in the closed position. This hardware can be coloured to match the main frame. ANDO™ furniture also available in 316 stainless steel finish.



Bottom rollers are ideal for residential projects as top hung panels can run into problems if the head lintel sags. Roller cowling also available in stainless steel finish – ideal for coastal applications.

The above picture shows the optional 316 marine grade stainless steel ICON™ lever lock furniture available for French doors in the Bi-Fold system. We offer 3 different design options for lever lock sets and bi-fold activators.

Detailed above is the alternate ICON™, 316 stainless steel bolt activator. Turn the lever 90° to retract the top and bottom bolts.

### GENERAL

**Max Panel Height***
2600mm

**Max Panel Width***
900mm

**Max Glass Thickness**
20mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
3.4-6.1

**SHGC Range**
0.25-0.57

### WEATHER

**Maximum Water**
300 Pa. (Open out)

150p Pa. (Open in)

### ACOUSTICS

This product has not been acoustics tested.

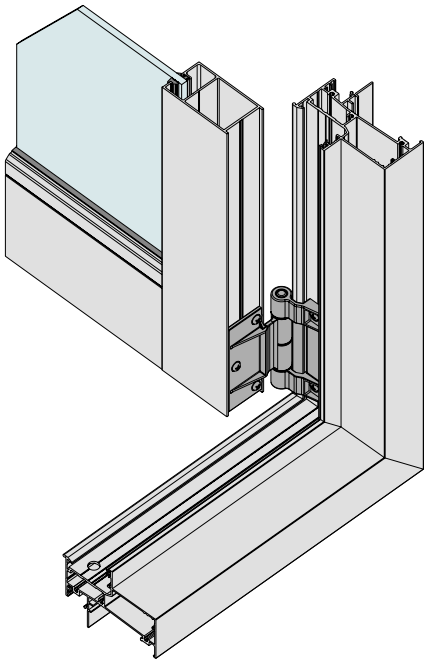
AS2047 BAL40 LIVABLE WINDOW ENERGY RATING

vantagealuminium.com.au/548b

*Dimensions subject to individual site conditions.

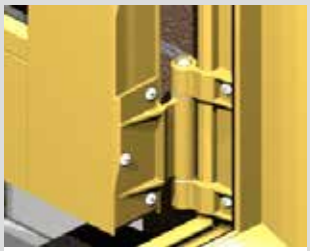
DESIGNER SERIES | SERIES 548

# HIGH PERFORMANCE HINGED DOOR

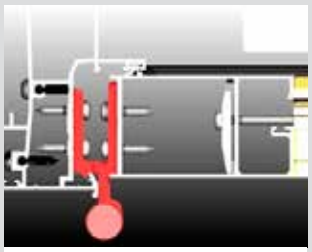


## KEY FEATURES

- Vantage Series 548 external swing hinged door has been successfully tested to 300Pa water resistance and the internal swing door to 200Pa. These two water ratings would allow you to install these doors in exposed locations.
- Lowline sills available for high traffic areas.
- Extra wide top and bottom rails give the bold appearance of traditional timber designs.
- Specially designed backing plates at the four corner joints of the door to make sure that the door stays rigid and square.
- Rebated door stiles give a flush appearance when the two doors meet and provide superior weather protection. Unsightly applied rebates are eliminated.
- Concealed lock keeper specially designed to fit in the cavity on the leading edge of the "lazy side" door and eliminates unsightly holes milled in the aluminium for latch and lock bolt.
- Doors can be supplied with standard or multi-point lever lock installed in the door stile or with a tulip knob lock placed in a door chair rail.



Heavy duty hinges: Custom light zinc die-cast or heavy duty extruded hinge nests into the frame and door stile. This significantly increases the hinge strength which is important when doors are large and/or heavy.



The heavy duty extruded aluminium hinge nests into the frame recess. We offer a large range of standard and special powder coat colours to match the main frame.

Optional 316 marine grade stainless steel ICON™ lever lock furniture available. We offer 3 different design options for lever lock sets.

Fitting custom parliament hinges to French doors (80mm frame) allows panels to be opened back 180° to the wall lining when positioned correctly in building.

### GENERAL

**Max Panel Height***
2350mm

**Max Panel Width***
900mm

**Max Glass Thickness**
20mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
3.4-6.0

**SHGC Range**
0.25-0.59

### WEATHER

**Maximum Water**
300 Pa. (open-out)
200 Pa. (open-in)

### ACOUSTICS

This product has not been acoustics tested.

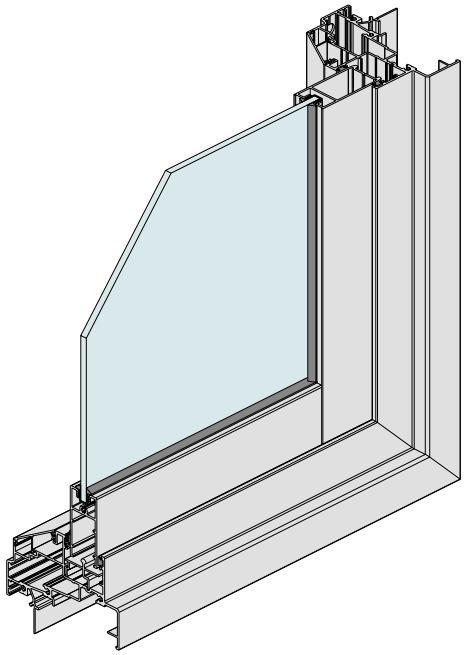
AS2047 BAL40 WINDOW ENERGY RATINGS

vantagealuminium.com.au/548h

*Dimensions subject to individual site conditions.

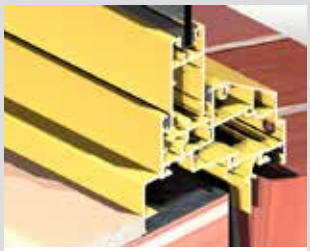
DESIGNER SERIES | SERIES 601

# MAGNUM™ SLIDING WINDOW (SINGLE SASH)

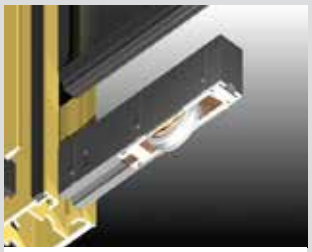


## KEY FEATURES

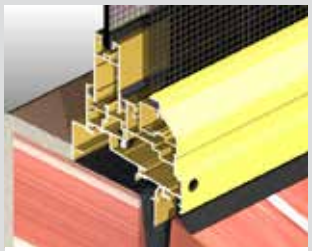
- This 102mm wide high performance sliding window has a soft 2mm diameter radius on the inner edge and a mitred main frame.
- Very high water resistance of 450Pa.
- Single sash design – fixed sidelight beaded into main frame.
- The extra strong meeting stiles allow large sliding windows to be fabricated in high wind load areas.
- Clean splayed and rounded lines for improved appearance.
- A large variety of window combinations are possible (SF, FS, SFS or FSSF) with and without highlights/lowlights.
- Is compatible with all Designer Series windows and doors.
- Opening sashes can be fitted with surface or mortice deadlocks.
- Sashes run on large diameter, heavy duty wheel carriages, including double bogey for very heavy sashes.
- Co-extruded PVC sill seal keeps water out of the system.
- We have a custom splayed flyscreen that matches the adjoining splayed fixed sidelight.



Sliding and fixed options maintain visual consistency. This illustration highlights the 2mm soft radius on the inner edge.



The key to making high performance sliding windows is to use large diameter, high performance wheels. We use sliding door wheels in the 601 and when the panels are double glazed or extra heavy, we use double bogey wheels.



We have designed a custom splayed flyscreen frame to match the adjoining splayed fixed light glazing beads.

This ICON™ mortice lock has a stainless steel face plate. Alternatively we also offer an ANDO™ mortice lock with a cast aluminium powder coated face plate.

### GENERAL

**Max Panel Height***
1600mm

**Max Panel Width***
1350mm

**Max Glass Thickness**
20mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
3.8-6.5

**SHGC Range**
0.23-0.63

### WEATHER

**Maximum Water**
450 Pa.

### ACOUSTICS

**4mm Float**
31 (-1;-2)

**10.38mm Lam**
35 (0;-1)

**6.38mm Lam**
33 (0;-1)

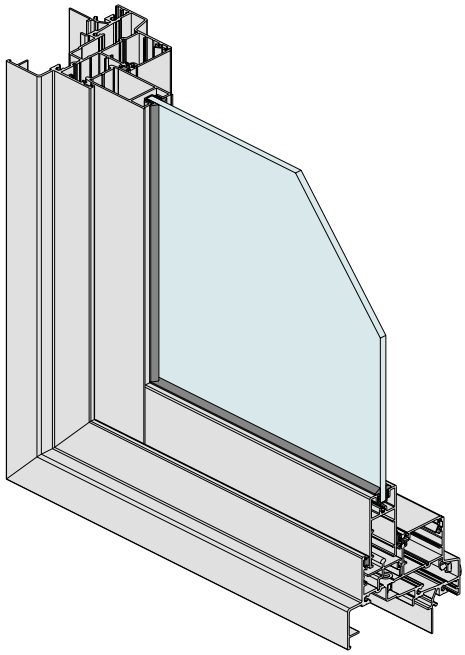
**4mm /8mm /4mm**
32 (0;-2)



*Dimensions subject to individual site conditions.

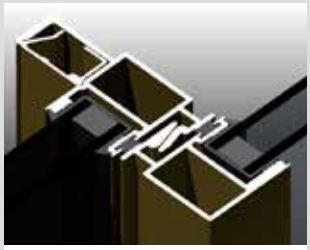
DESIGNER SERIES | SERIES 602

# MAGNUM™ SLIDING WINDOW (DOUBLE SASH)

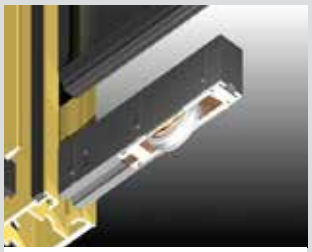


## KEY FEATURES

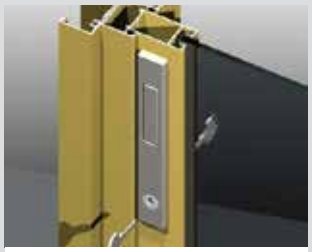
- This 102mm wide high performance sliding window has a soft 2mm diameter radius on the inner edge and a mitred main frame. The 2mm inner radius gives a soft appearance and gives a cleaner frame to mullion/transom junction.
- Very high water resistance of 660Pa.
- The extra strong meeting stiles allow large sliding windows to be fabricated in high wind load areas.
- Double sash design with the external sash fixed.
- Both fixed and opening sashes can be installed, replaced and/or reglazed from inside the building.
- Sashes run on heavy duty wheel carriages.
- Opening sashes can be fitted with surface or mortice locks.
- Co-extruded PVC sill seal keeps water out of the system. We have built-in our proprietary ball valve drainage to transfer any water that may get into the drainage trough to the tubular sump sill. This valve also reduces blowback through the external drainage holes.
- Cyclone rated.



We have dedicated panels that will accept a variety of glass thicknesses. The 16mm IGU shown above is one of the options.



The key to making high performance sliding windows is to use large diameter, high performance wheels. We use sliding door wheels in the 602 and when the panels are double glazed or extra heavy, we use double bogey wheels.



This ICON™ mortice lock has a stainless steel face plate. Alternatively we also offer an ANDO™ mortice lock with a powder coated cast aluminium face plate.

Double sash design with external sash fixed. Both fixed and opening sashes can be installed, replaced and/or reglazed from inside the building.

### GENERAL

**Max Panel Height***
1600mm

**Max Panel Width***
1356mm

**Max Glass Thickness**
20mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
3.8-6.5

**SHGC Range**
0.23-0.63

### WEATHER

**Maximum Water**
660 Pa.

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 601.

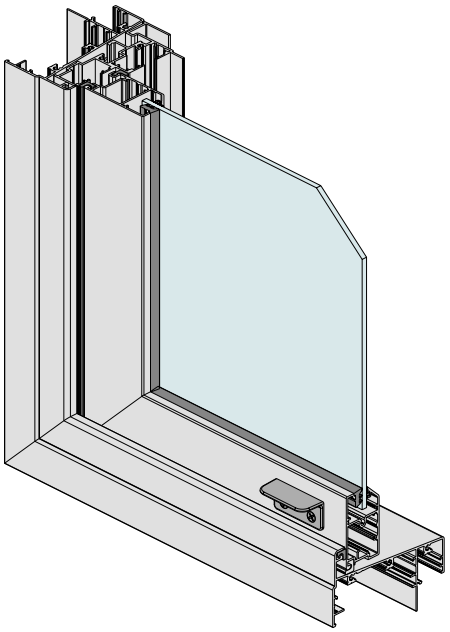
ACOUSTICS AS2047 BAL40 CYCLONE SAFE4KIDS WINDOW ENERGY RATING



*Dimensions subject to individual site conditions.

DESIGNER SERIES | SERIES 613

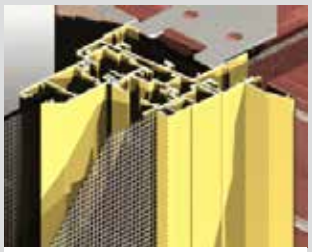
# MAGNUM™ DOUBLE-HUNG WINDOW



## KEY FEATURES

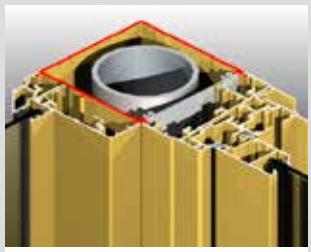
- Series 613 Double-Hung Windows give the solid appearance of timber with all the benefits of aluminium: strength, weather performance, sound reduction, high performance powder coat and anodised finishes, security and flyscreening.
- The window has been tested for compliance with the relevant Australian Standards achieving a high water resistance of 300Pa.
- 102mm frame, mullion and transom have a soft 2mm internal radius.
- Both sashes can be hinged back into the room to allow cleaning of both sides of the glass from inside, without having to remove the flyscreen.
- Sashes can be secured with the Vantage custom key or non-key locking cam handle.
- Can be fitted with external flyscreens within the frame line.
- This window will accept glass from 4mm to 20mm thick. Dedicated sashes to accept the 20mm IGUs (double glazed sashes are not splayed).

The wide sashes have been designed to accept a variety of glass thicknesses including 20mm insulating glass.



The window is designed to accept flyscreens within the main frame. The screen is kept secure with custom nylon spring clips – no rattling and no rust.

Custom designed locking mechanism. Roll the operation handle over 180° to lock/unlock. Lock can be coloured to match sash as detailed.



There are numerous snap couplers that allow us to join window to window or window to door. The illustration above shows the 90° corner coupler designed to wrap around support posts. No unsightly rivets or screws required.

### GENERAL

**Max Panel Height***
1009mm

**Max Panel Width***
1090mm

**Max Glass Thickness**
20mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
3.7-6.5

**SHGC Range**
0.19-0.57

### WEATHER

**Maximum Water**
300 Pa.

### ACOUSTICS

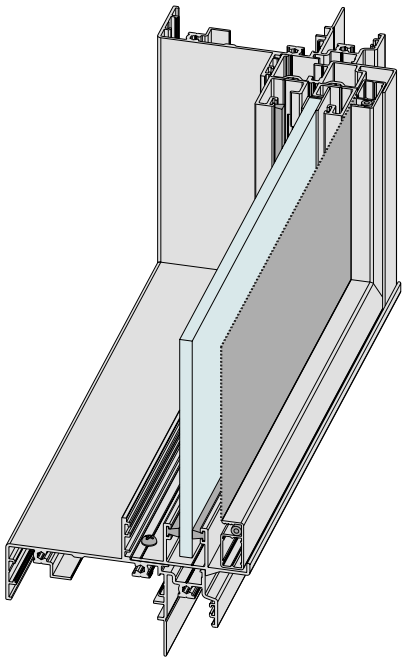
**6.38mm Lam**
30 (0;-1)



*Dimensions subject to individual site conditions.

DESIGNER SERIES | SERIES 614

# ClearVENT™ DOUBLE-HUNG WINDOW



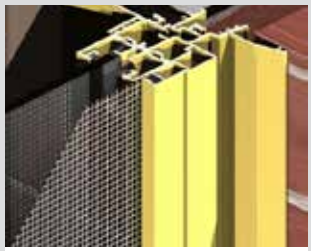
## KEY FEATURES

- This full vision vertical sliding sashless double-hung window has been designed to complement our Designer Series range of high performance windows and doors.
- The window has been tested for compliance with the relevant Australian Standards and achieved a high water resistance of 300Pa.
- Offers clear unobtrusive vision as there are no horizontal central sash rails. As one sash is lifted the other lowers (the sashes are counterbalanced via cords and pulleys).
- ClearVENT™ windows can be fitted with external flyscreens.
- Ideal for incorporation into bi-fold or hinged doors where ventilation is required when doors are not in an open position.
- The window is compatible with Designer Series windows and doors, a large range of snap couplers allow these windows to be joined at 90°, 135° and 180° without unsightly rivets or screws.

One sheet of glass counterbalances the weight of the other via a heavy duty ball bearing pulley (rated to 300kg) and high strength cord (rated to 300kg).

Key press lock standard on ClearVENT™ windows.

Two panes of glass slide silently past each other within aluminium guides which fit neatly into the perimeter frame.



Flyscreen fits neatly into screen receptor channels leaving no unsightly recesses for spiders or dust. Screens are secured with custom nylon spring clips that stop the screens from rattling.

### GENERAL

**Max Panel Height***
1010mm

**Max Panel Width***
1210mm

**Max Glass Thickness**
6mm

**Frame Depth**
102mm

### ENERGY

This system has not been WERS rated.

### WEATHER

**Maximum Water**
300 Pa.

### ACOUSTICS

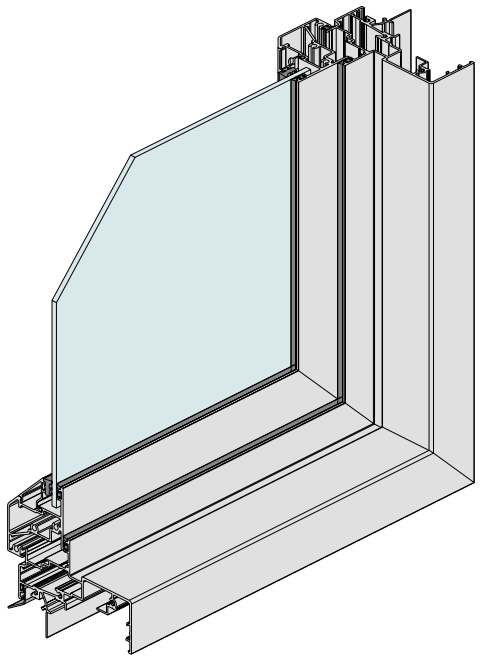
**6mm Float**
26 (0;0)



*Dimensions subject to individual site conditions.

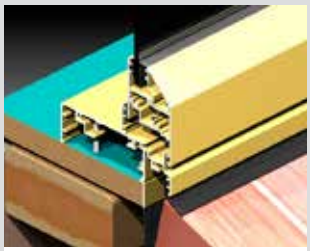
DESIGNER SERIES | SERIES 616

# MAGNUM™ AWNING/CASEMENT WINDOW

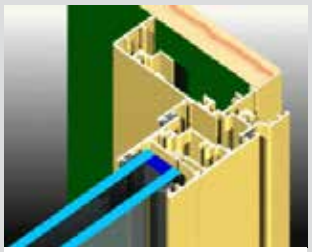


## KEY FEATURES

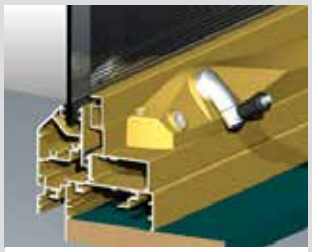
- This high performance awning/casement window has been designed to complement our existing high performance range of Designer Series windows and doors.
- The window has been tested for compliance with the relevant Australian Standards and achieved a very high water resistance, making the product suitable for most applications including multi-storey apartments.
- Low air infiltration, makes the product suitable for air-conditioned buildings.
- The extra strong sashes allow large sash windows to be fabricated for high wind load areas.
- 102mm frames, mullion and transom have a soft 2mm internal radius.
- Awning sashes can be fitted with cam handles, manual chain winders, concealed electric winders or Truth™ hardware. The winder options suit fixed flyscreen installation.
- Cyclone rated.
- Can be fabricated as fixed window.



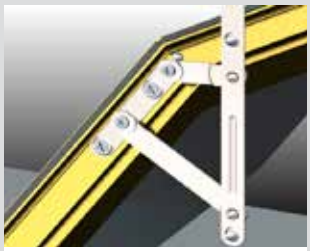
The frame is 102mm thick with 40mm thick sashes that are strong enough for exposed locations. We have several sash options to choose from – the full range can be viewed on the website.



Beaded sashes will accept glass from 4mm to 24mm thick. The picture above shows a 24mm IGU in a standard 102 x 30mm frame.



The standard chain winder used on the 616 comes with a stainless steel chain and Polesium™ cover and base. These corrosion resisting features make the winder suitable for exposed locations.



Series 616 sashes are hung on heavy duty four bar stays (aluminium or stainless steel).

### GENERAL

NB: Maximum panel height and width of Awning sashes are interdependent.

**Max Panel Height***
A/ @2400w = 800H
C/ 1800mm

**Max Panel Width***
A/ @2100h = 900w
C/ 1400mm

**Max Glass Thickness**
24mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
4.1-6.9

**SHGC Range**
0.14-0.56

### WEATHER

**Maximum Water**
600 Pa.

### ACOUSTICS

**4mm Float**
32 (-2;-3)

**6.38mm Lam**
34 (-1;-2)

**10.38mm Lam**
36 (-1;-2)

**6mm/12mm/6mm**
35 (-1;-3)

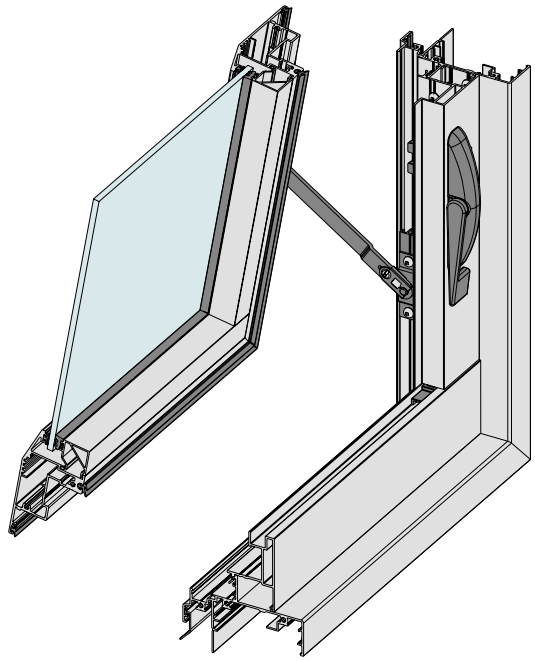
ACOUSTICS AS2047 BAL40 CYCLONE SAFE4KIDS WINDOW ENERGY RATING

vantagealuminium.com.au/616

*Dimensions subject to individual site conditions. Based on awning window configuration. A = Awning Configuration. C = Casement Configuration.

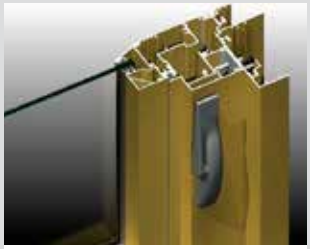
DESIGNER SERIES | SERIES 616TR

# MAGNUM™ AWNING/CASEMENT WINDOW WITH TRUTH™

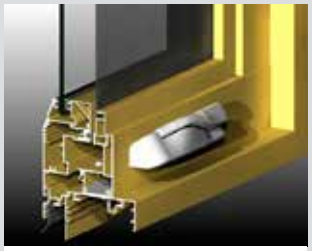


## KEY FEATURES

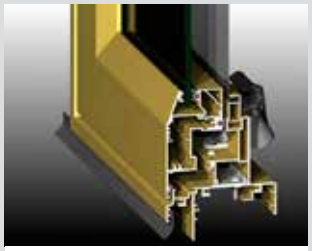
- This high performance awning/casement window has been designed to complement our existing high performance range of Designer Series windows and doors.
- Designed to accept Truth™ hardware. This allows us to offer very large casements and awnings fitted with scissor type winders with jamb to stile latches that secure the sashes in the closed position.
- The Truth™ hardware can resist very high negative wind loads with the use of winders and side latches.
- Low air infiltration, makes the product suitable for air-conditioned buildings.
- 102mm frames, mullion and transom have a soft 2mm internal radius.
- On casements it's possible to clean the external glass face when the sash is in the 90° open position.
- Truth™ awning/casement can be fitted with flyscreens.



Truth™ side latching mechanisims secure the sashes in the closed position, allowing the window to resist high negative wind loads.



The compact Truth™ winder has a foldaway handle for a sleek appearance.



Truth™ awning and casement windows can be fitted with flyscreens.

Series 616TR sashes are hung on heavy duty four bar stays (aluminium or stainless steel).

### GENERAL

NB: Maximum panel height and width of Awning sashes are interdependent.

**Max Panel Height***
A/ @2400w = 800H
C/ 2100mm

**Max Panel Width***
A/ @2100h = 900w
C/ 1200mm

**Max Glass Thickness**
24mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
4.2-6.9

**SHGC Range**
0.14-0.56

### WEATHER

**Maximum Water**
450 Pa.

### ACOUSTICS

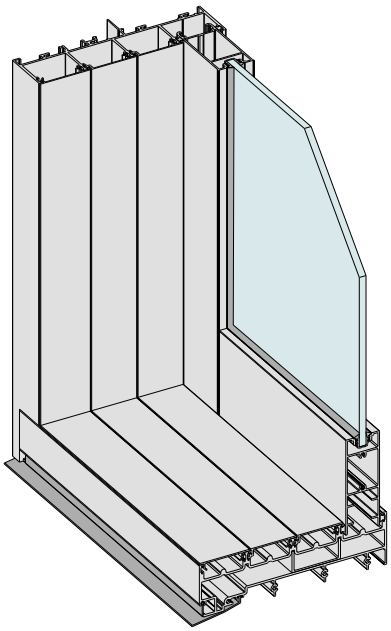
This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 616.



*Dimensions subject to individual site conditions. Based on awning window configuration. A = Awning Configuration. C = Casement Configuration.

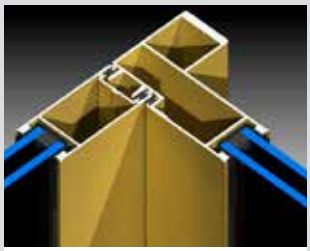
DESIGNER SERIES | SERIES 618

# MAGNUM™ SLIDING DOOR

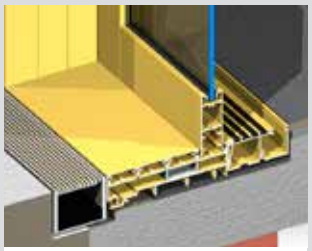


## KEY FEATURES

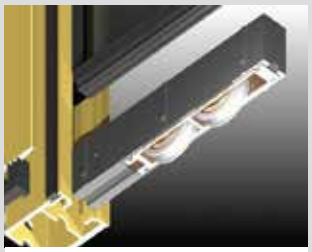
- Stacking sliding door offering 2, 3 and 4 panel configurations or bi-parting doors up to 8 panels with dedicated cavity sliding option.
- The flat sill design allows the door frame to be recessed completely into the floor for the ultimate finish.
- The 33mm thick stiles are ideal for extra large doors (up to 2900mm) in high wind load areas.
- Tested to very high water resistance of 300Pa standard sill and 660Pa cyclone sill, allowing these doors to be installed into most residential projects.
- 90° corner sliding option – no central meeting post.
- Optional stacking flydoor system nests into the main frame.
- For the ultimate screen this door system can be fitted with Centor™ S1E retractable screen behind the glass doors.
- Unused frame recesses are closed off with snap-in flat fillers for improved appearance and water resistance.
- Heavy door panels use double bogey wheels.



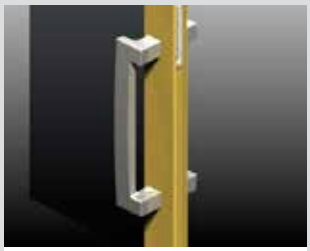
We offer this door in many configurations, including the 90° corner opening shown above. This illustration also shows the double glazing option.



The above illustration shows the completely flat sill design. It features a four track XXXF flat sill with recessed sump on the outside and Centor™ S1E roller screen on the inside.



Heavy doors require heavy duty rollers. We fit double bogey wheels under heavy doors to ensure they slide smoothly for years to come.



Mortice lock option with ANDO™ or ICON™ (shown above) pull handles and matching cylinder escutcheons, ANDO™ shown above. On heavy doors we recommend D-pulls.

### GENERAL

**Max Panel Height***
2941mm

**Max Panel Width***
1500mm

**Max Glass Thickness**
20mm

**Frame Depth**
135mm-220mm

### ENERGY

**UW Range**
3.0-6.2

**SHGC Range**
0.22-0.67

### WEATHER

**Maximum Water**
300 Pa. (standard sill)

450 Pa (high performance sill)

660 Pa. (cyclone sill)

### ACOUSTICS

**6.38mm VLam Hush™**
32 (0;-2)

**10.5mm VLam Hush™**
34 (0;-2)

**6.5mmVLam Hush™ /8/ 5Tgh**
35 (-1;-4)

ACOUSTICS AS2047 BAL40 CYCLONE LIVABLE WINDOW ENERGY RATING

vantagealuminium.com.au/618

*Dimensions subject to individual site conditions.

DESIGNER SERIES | FEATURE PROJECT

# POSSUM CREEK

## DESIGNER SERIES WINDOWS AND DOORS CREATE BOLD WIDE OPENINGS IDEAL FOR TROPICAL CLIMATES AND MAXIMISING CROSS VENTILATION

This property is located in the Byron hinterland on a small hill, which allowed the house to be orientated perfectly for optimal passive design.

Part of the brief was that the clients have a significant art and book collection so whilst they wanted a house that had a strong connection to the landscape, they needed wall space in the living area and bedrooms.

The owners wanted a contemporary house but didn't like the 'glass box' appearance of the modern housing design. Jason Trisley and Sarah Aldridge from SPACEstudio developed an idea that the roof would open up to the north and would include a 3/4 glazed façade as opposed to a completely glazed façade.

The home is located in a subtropical climate, therefore the designers needed to ensure protection from the elements. It was essential to have sheltered and protected windows allowing for ventilation and a connection to the outdoors.

Jason and Sarah specified the Vantage Aluminium Joinery range of aluminium windows and doors due to their flexibility and durability. Designed and tested purposely for the tough Australian climate, they are well suited to perform in a demanding tropical climate, offering excellent weathering performance and strength.

SPACEstudio strategically placed windows to ensure the home would maximise year round ventilation and reduce radiant heat gain. By using high level louvres under eaves surrounding the entire house, even in the worst conditions the clients can still get ventilation through their home.

Jason and Sarah also strategically placed mid-level Vantage aluminium awning windows above sliding doors to shelter the doors from the weather plus keep the sun out of the home.

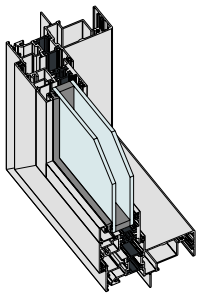
The entire living space is lined with 4.5 metre Vantage aluminium sliding doors which gives the clients an outdoor feeling when they are sitting in the comforts of their home.

Architect: SPACEstudio
Photographer: David Taylor

VANTAGE

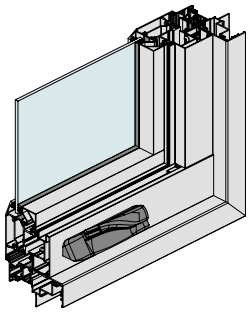
# DESIGNER SERIES ThermalHEART®

Photo courtesy of MidCity Windows



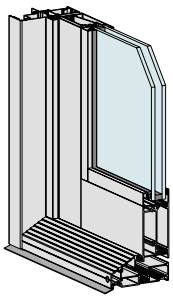


Thermally Broken Awning Window



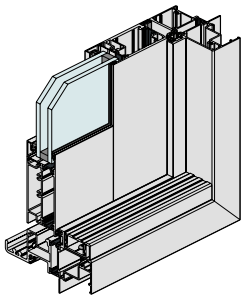


Thermally Broken Awning Window with TRUTH™ hardware



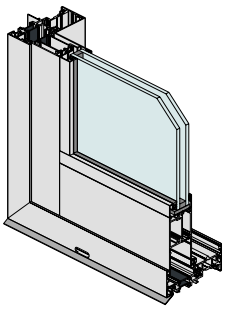


Thermally Broken Hinged Door





Thermally Broken Bi-Fold Door





Thermally Broken Sliding Door

Based on the innovative Designer Series platform, Designer Series with ThermalHEART® technology is a unique suite of thermally broken aluminium window and door systems for improved energy efficiency.

Designer Series with ThermalHEART® is the latest addition to the Vantage range of high performance windows and doors.

Developed in response to growing environmental concern and requirement for energy efficient building designs, Designer Series with ThermalHEART® offers significantly improved thermal performance and energy efficiency.

Ideal for those applications where minimising cold and heat transfer is a priority, this innovative range is 32% more thermally efficient than standard double glazed windows and doors.

## What is ThermalHEART®

ThermalHEART® systems include a glass fibre-reinforced nylon insulator or thermal break between the aluminium exterior and interior elements. The thermal break minimises the transfer of heat or cold through the frame delivering a 32% improvement in thermal efficiency over standard double glazed windows and doors.

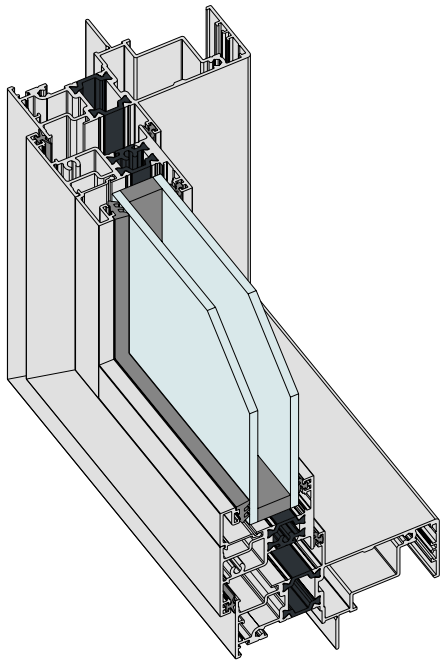
The polyamide thermal break incorporated into profiles will appear as black. These breaks are only seen when windows or doors are in an open position and even then they are relatively unobtrusive.

Double glazing will be used as standard with Designer Series ThermalHEART® products to obtain maximum thermal benefit from the insulated window system. Glass panel thickness of up to 32mm is possible. Typically standard double glazed panels are 24mm thick.

The unique thermal insulator jointing method allows a different choice of colour to complement both internal and external colour palettes resulting in one colour on the outside and another on the inside.

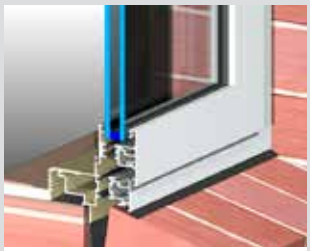
DESIGNER SERIES ThermalHEART®| SERIES 726

# THERMALLY BROKEN AWNING WINDOW

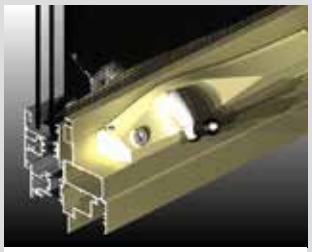


## KEY FEATURES

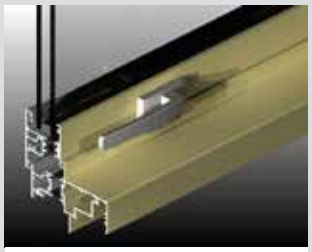
- Series 726 awning window is designed to suit Australian building-in conditions. Nailing fins (weather bars), building-in lugs and the PVC sill flap assist in installation.
- Series 726 incorporates ThermalHEART® technology giving a true wide thermal break between the outside and inside faces. ThermalHEART® systems perform up to 32% better than traditional aluminium windows and doors.
- The extra strong sash allows large opening windows to be fabricated for high wind load areas.
- The bold clean frame gives a contemporary appearance with sharp square external glazing beads standard.
- Awning sashes can be fitted with cam handles, manual chain winders, concealed electric winders or Truth™ hardware. The winder options suit fixed flyscreen installation.
- The window is compatible (appearance, strength and performance) with the high performance ThermalHEART® hinged, sliding and bi-fold doors.
- ThermalHEART® will accept insulating glass units up to 32mm thick. The typical IGU thickness is 24mm.



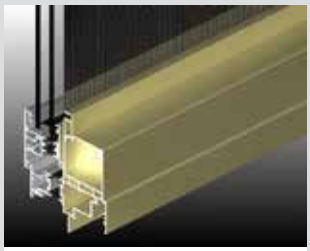
Double glazing is used as standard to obtain maximum thermal performance. Dual colour option available as shown above.



Can be fitted with manual winder and keyed to match other Vantage window locks. Corrosion resistant cover and base, along with stainless steel chain to withstand the harshest environments.



ICON™ furniture in 316 marine grade stainless steel is available.



Awning sashes can be opened and closed with optional concealed electric winders. The window box will also accept fly screens as shown above.

### GENERAL

NB: Maximum panel height and width of Awning sashes are interdependent.

**Max Panel Height***
A/ @2400w = 800H
C/ 1200mm

**Max Panel Width***
A/ @2100h = 900w
C/ 800mm

**Max Glass Thickness**
32mm

**Frame Depth**
100mm

**ENERGY**
**UW Range**
2.7-5.5

**SHGC Range**
0.13-0.47

### WEATHER

**Maximum Water**
600 Pa.

### ACOUSTICS

**8.5mm VLam Hush™ /10/6.5 VLam Hush™**
41 (-1;-5)

**6.5mm VLam Hush™ /12/6 Tgh**
40 (-1;-5)

ACOUSTICS AS2047 BAL40 SAFE4KIDS WINDOW ENERGY RATINGS

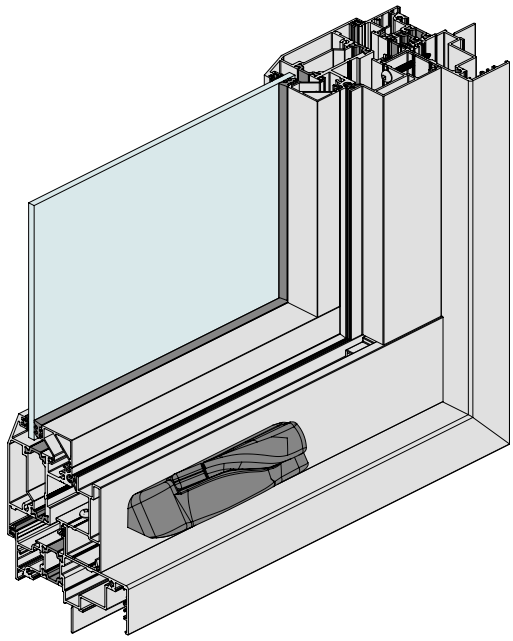
vantagealuminium.com.au/726

*Dimensions subject to individual site conditions. A = Awning Configuration. C = Casement Configuration.

AWS

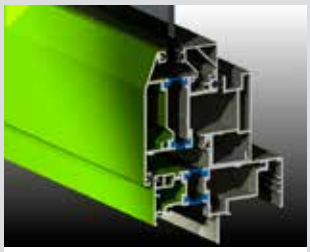
DESIGNER SERIES ThermalHEART® | SERIES 726TR

# THERMALLY BROKEN AWNING WINDOW (TRUTH™)

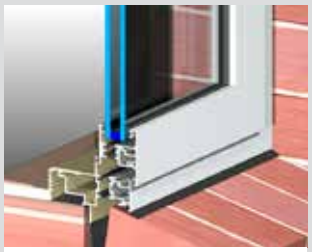


## KEY FEATURES

- Series 726 awning window is designed to suit Australian building-in conditions. Nailing fins (weather bars), building-in lugs and the PVC sill flap assist in installation.
- Series 726 incorporates ThermalHEART® technology giving a true wide thermal break between the outside and inside faces. ThermalHEART® systems perform up to 32% better than traditional aluminium windows and doors.
- Designed to accept Truth™ hardware. This allows us to offer very large casements and awnings fitted with scissor type winders with jamb to stile latches that secure the sashes in the closed position.
- The Truth™ hardware can resist high negative wind loads with the use of winders and side latches.
- The window is compatible (appearance, strength and performance) with the high performance ThermalHEART® hinged, sliding and bi-fold doors.
- ThermalHEART® will accept insulating glass units up to 32mm thick. The typical IGU thickness is 24mm.
- Truth™ awning and casement will accept flyscreens.



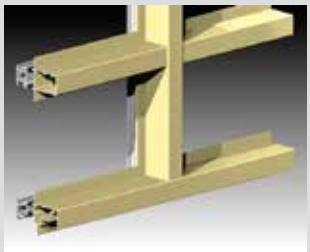
Sash designed to accept Truth™ hardware. An added benefit of colour separation possible with ThermalHEART® products - one colour inside and another outside.



Double glazing is used as standard to obtain maximum thermal performance. Dual colour option available as shown above.

Custom building-in lugs secure the jamb to cavity brick wall.

2mm Radius on the internal corners softens the appearance.



Mullions stop 2mm short of perimeter to suit the 2mm radius on perimeter. Likewise the transoms stop 2mm short of the mullions for the same reason

### GENERAL

NB: Maximum panel height and width of Awning sashes are interdependent.

**Max Panel Height***
A/ @2400w = 800H
C/ 2030mm

**Max Panel Width***
A/ @2100h = 900w
C/ 1000mm

**Max Glass Thickness**
32mm

**Frame Depth**
100mm

### ENERGY

**UW Range**
2.7-5.5

**SHGC Range**
0.13-0.47

### WEATHER

**Maximum Water**
450 Pa.

### ACOUSTICS

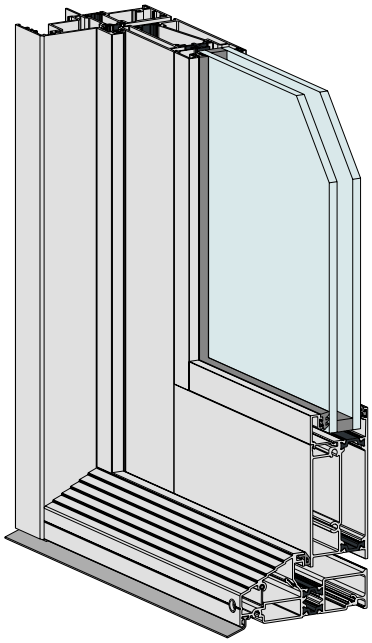
This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 726.

vantagealuminium.com.au/726TR

*Dimensions subject to individual site conditions. A = Awning Configuration. C = Casement Configuration.

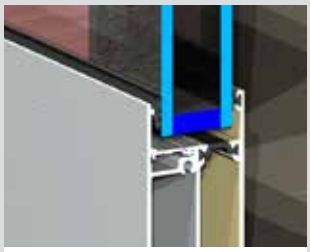
DESIGNER SERIES ThermalHEART®| SERIES 729

# THERMALLY BROKEN HINGED DOOR



## KEY FEATURES

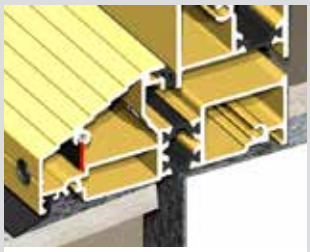
- Available as both internally or externally opening hinged door to suit a range of applications.
- Series 729 incorporates ThermalHEART® technology giving a true wide thermal break between the outside and inside faces. ThermalHEART® systems perform up to 32% better than traditional aluminium windows and doors.
- The doors have been tested for compliance with the relevant Australian Standards and achieved a high water resistance of 380Pa for external swing doors and 150Pa water resistance for internal opening doors, making the product suitable for most residential applications.
- Low air infiltration suitable for air-conditioned buildings.
- The extra strong door facilitates oversize door panels.
- Doors can be fitted with a variety of custom lever sets (ICON™ or MIRO™) with Lever Compression Lock (LCL) motor as standard.
- ThermalHEART® will accept insulating glass units up to 32mm thick. The typical IGU thickness is 24mm.



Double glazing is used as standard to obtain maximum thermal performance. Dual colour option available as illustrated above.

The hardware used on the 729 has been specifically designed for the product. Hinges nest into stile and frame – no shims required. The illustration above shows our parliament hinge that will allow panels to open against the wall.

We offer 4-point lever compression as standard. This ensures high performance seals and improves air infiltration resistance. ICON™ 316 stainless steel furniture shown above.



We have designed and tested hinged doors that open in and doors that open out with custom thermally broken sills that keep water out.

### GENERAL

**Max Panel Height***
2600mm

**Max Panel Width***
900mm

**Max Glass Thickness**
32mm

**Frame Depth**
100mm

### ENERGY

**UW Range**
2.5-5.2

**SHGC Range**
0.13-0.46

### WEATHER

**Maximum Water**
380 Pa. (open-out)
150 Pa. (open-in)

### ACOUSTICS

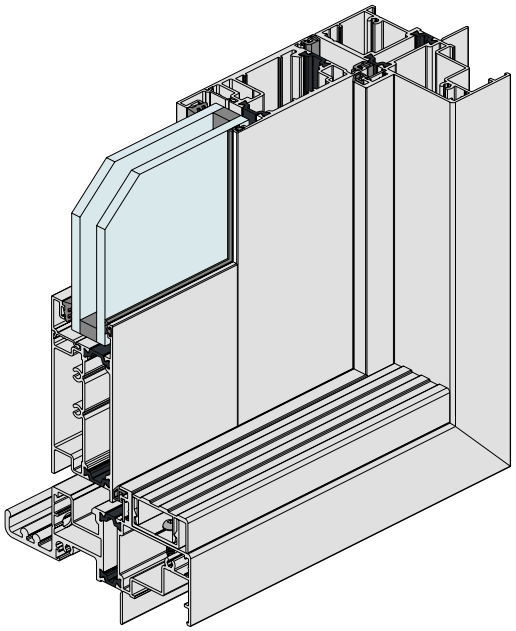
This product has not been acoustics tested.



*Dimensions subject to individual site conditions.

DESIGNER SERIES ThermalHEART® | SERIES 730

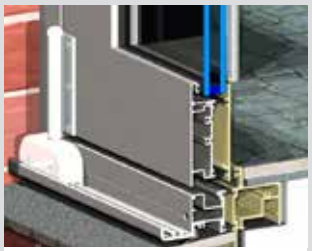
# THERMALLY BROKEN BI-FOLD DOOR



## KEY FEATURES

- Series 730 incorporates ThermalHEART® technology. ThermalHEART® systems perform up to 32% better than traditional aluminium windows and doors.
- Series 730 is a bottom rolling bi-fold system ideal for residential applications. Can be fitted with optional highlights.
- This bi-fold door has been tested for compliance with the relevant Australian Standards and achieved a high water resistance of 380Pa, making the product suitable for most residential applications.
- Low air infiltration suitable for air-conditioned buildings.
- Sharp square external glazing beads are standard.
- 100mm frame and transom have a soft 2mm internal radius.
- Doors can be fitted with a variety of custom lever and bi-fold activator sets (ICON™ or MIRO™) with Lever Compression Lock (LCL) motor as standard.
- ThermalHEART® will accept insulating glass units up to 32mm thick. The typical IGU thickness is 24mm.

Doors are fitted with heavy duty bottom rolling gear running on double tracks, ideal for supporting the weights of heavy double glazed door panels.



316 stainless steel roller cowling – designed for coastal applications. Bottom rollers allow us to have heavy door panels as the weight is supported by the sill as well as the option of highlights being fitted above.

We offer 4-point lever compression locking as standard. This ensures high performance seals and improves air infiltration resistance. ICON™ stainless steel furniture shown above.

The bi-fold activator secures the folding panels tight into the frame when closed. By turning the level 90° shoot bolts top and bottom are retracted to allow panels to open. We offer this furniture in two custom designs.

### GENERAL

**Max Panel Height***
2600mm

**Max Panel Width***
900mm

**Max Glass Thickness**
32mm

**Frame Depth**
100mm

### ENERGY

**UW Range**
2.6-5.2

**SHGC Range**
0.19-0.46

### WEATHER

**Maximum Water**
380 Pa.

### ACOUSTICS

This product has not been acoustics tested.

AS2047 BAL40 LIVABLE WINDOW ENERGY RATING

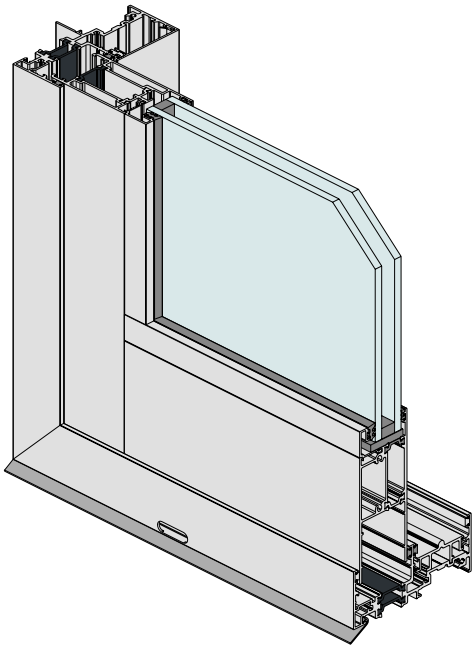
vantagealuminium.com.au/730

*Dimensions subject to individual site conditions.

AWS

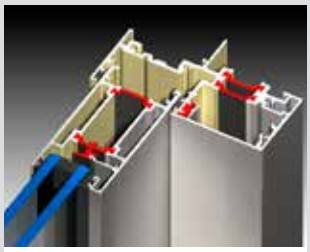
DESIGNER SERIES ThermalHEART®| SERIES 731

# THERMALLY BROKEN SLIDING DOOR

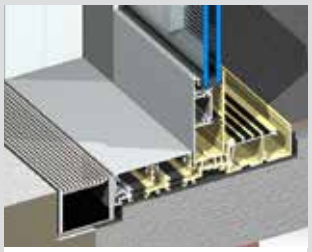


## KEY FEATURES

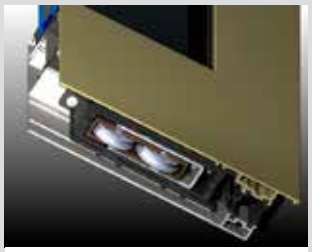
- Series 731 incorporates ThermalHEART® technology giving a true wide thermal break between the outside and inside faces. ThermalHEART® systems perform up to 32% better than traditional aluminium windows and doors.
- ThermalHEART® will accept insulating glass units up to 32mm thick. The typical IGU thickness is 24mm.
- The door panels run on heavy duty double bogey wheels as standard. Quad rollers used for very heavy panels.
- For the ultimate finish the perimeter frame has snap-in flat fillers to close off all unwanted recesses. These fillers are isolated to prevent thermal transmission from inside to outside.
- The flat sill is ideal for recessing into the floor.
- This sliding door has been tested for compliance with the relevant Australian Standards and achieved a high water resistance of 300Pa, making the product suitable for most residential applications.



This illustration highlights the thermal break through the frame and on the flat filler. This frame is also available in a dual colour finish.



The door sill can be completely recessed into the floor as shown above. For the ultimate finish you can fit a recessed lineal drain on the outside and a retractable roller screen on the inside.



These heavy doors are supported on custom double bogey wheels that are designed to support panels up to 150kg. For very heavy panels up to 250kg quad rollers are used.

Mortice lock with bold ANDO™ or ICON™ pull handles and matching cylinder escutcheons, ICON™ shown above. On heavy doors we recommend D-Pulls as shown above.

### GENERAL

**Max Panel Height***
2640mm

**Max Panel Width***
1550mm

**Max Glass Thickness**
32mm

**Frame Depth**
110mm (2 track), 163mm (3 track), 217mm (4 track)

### ENERGY

**UW Range**
2.3-5.1

**SHGC Range**
0.14-0.59

### WEATHER

**Maximum Water**
300 Pa.

### ACOUSTICS

**8.5 Vlam Hush/ 10 / 6.5mm Vlam Hush™**
37 (-1,-3)

**6mm Tgh/ 12 / 6.5mm Vlam Hush™**
37 (-1,-4)

ACOUSTICS AS2047 BAL40 LIVABLE WINDOW ENERGY RATING

vantagealuminium.com.au/731

*Dimensions subject to individual site conditions.

AWS

# COOTAMUNDRA HOUSE



## DESIGNER SERIES ThermalHEART® SYSTEMS USED TO MAXIMISE EFFICIENCY, COMFORT AND PICTURESQUE SURROUNDINGS

This amazing light-filled farmhouse is located in Cootamundra, which is in the South West Slopes region of New South Wales.

This home is encompassed by picturesque surroundings in a fantastic location, so an important aspect of the build was to ensure that the landscape was transferred into the home. The clients had a strong brief for the design of this inspiring home and realised they needed an architect who was able to envisage their design brief and ensure it could come to life.

Architect Andrew Verri of Andrew Verri Architects was chosen by the clients to carry out the enormous task of designing their dream home – a farmhouse which was fit for their entire family. Through incorporating many windows and doors, the home took full advantage of the surrounding natural beauty. Andrew took the clients' brief of a functional, designer farmhouse and inverted the idea.

Due to Cootamundra's typically cooler weather all year round, Andrew didn't want to go with a conventional farmhouse. He decided to make the middle of the home feature a central courtyard, allowing the house to have a double northern frontage that ensured the bedrooms at the back would soak in some of the sun and create warmth throughout the home. The clients also wanted a pool in their new home. This was a difficult task for the architect as the local climate would require the pool area to be enclosed in winter, and open in summer. This would enable year-round swimming. Andrew Verri looked into various window systems that would be required to create this environment in the pool. There was also the consideration to be made regarding condensation within the pool area. Andrew required a frame that allowed all of the functional requirements as well as preventing condensation build up when temperatures differed inside and out. It is for this reason that Andrew decided to choose the AWS range of ThermalHEART® systems in the pool area. Andrew then continued to use the ThermalHEART® systems throughout the home as it enabled him to incorporate many windows and doors whilst maintaining thermal efficiency throughout. This aluminium system ensured the design brief of capturing the outdoors was met without compromising the thermal efficiency of the home. For maximum design flexibility, Andrew appreciated that due to the large AWS range, he was able to combine standard aluminium frames with the ThermalHEART® profiles. Throughout the home, Andrew utilised various awning windows, large panel bi-fold doors and sliding windows to maximise viewing angles and levels of natural light.

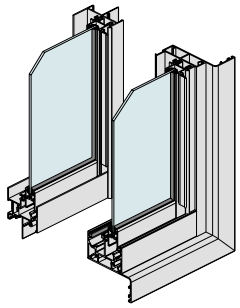
The clients were delighted with the completed project and are thankful for the thermal efficiency and comfort of their home due to the use of ThermalHEART® systems.

Fabricator: Taylors Window Supplies
Architect: Andrew Verri Architects
Photographer: Geoff Comfort

vantagealuminium.com.au/project-cootamundra-house

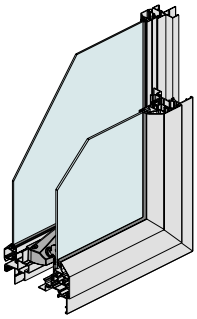
VANTAGE
# SPECIALTY


Photo courtesy of Lifestyle Windows. Builder: David Reid Homes



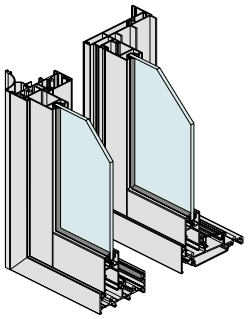


SoundOUT™ Sliding Window





SoundOUT™ Casement Window





SoundOUT™ Sliding Door

Looking for a commercial framing system with improved acoustic performance. Full details for Series 646 SoundOUT™ FrontGLAZE™ Framing can be found later in this booklet.

**12.5 VLam Hush™/12.5 Vlam Hush™**
Rw 51

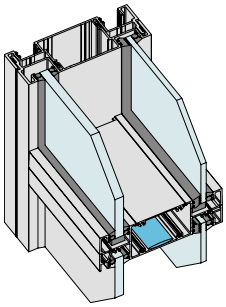
**10.5 VLam Hush/10.5 Vlam Hush**
Rw 50

**10.50 VLam Hush™/6.5 Vlam Hush**
Rw 50

**6.5mm VLam Hush™/6.5mm Vlam Hush™**
Rw 48

**10.38 lam/10.38 lam**
Rw 46

**6.38 lam/6.38 lam**
Rw 43





SOUNDOUT™ FrontGLAZE™ Framing

Innovative products purposely designed to provide maximum sound reduction for your project.

Within the Vantage range of aluminium window and door systems, there are a number of specialty products. The SoundOUT™ range of secondary glazing windows and doors are purposely designed to improve the acoustic performance of the building envelope. Tested in accordance with Australian Standards by the National Acoustic Laboratories in Chatswood, NSW, the SoundOUT™ range can be used to dramatically reduce sound penetration into a building.

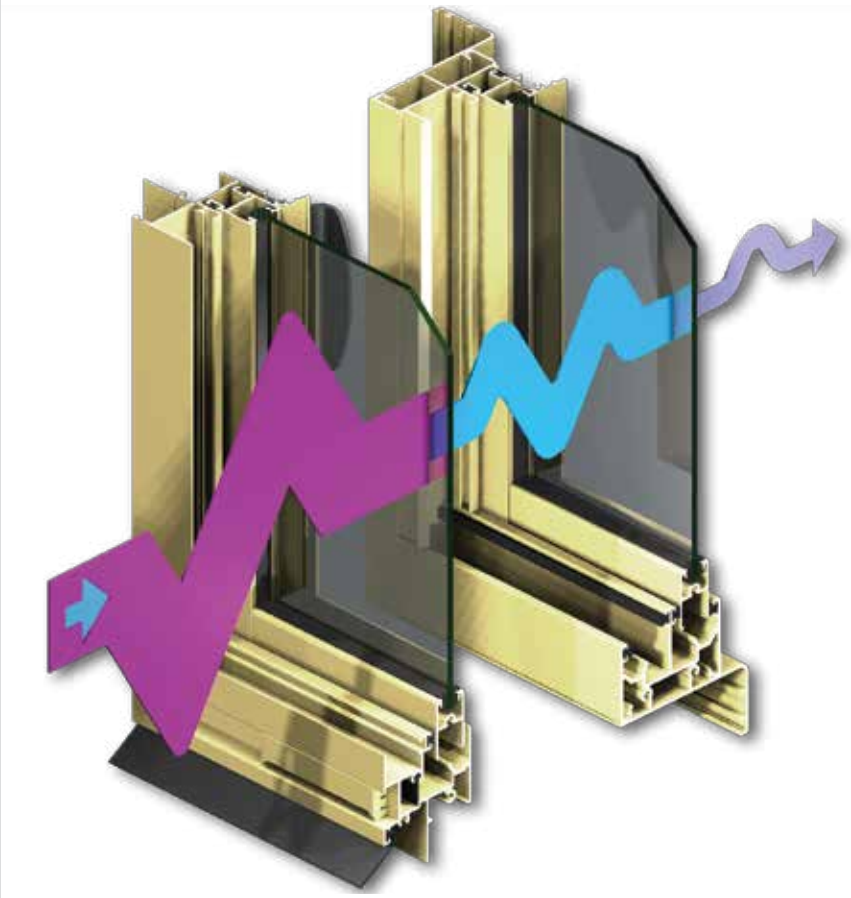
## SoundOUT™ Windows and Doors

Does your project present a sound problem? Vantage offer a range of innovative solutions to provide enhanced acoustic performance for your windows and doors.

Sound reduction can be achieved with opening windows and doors in two ways:

1. The best results are achieved using a secondary glazing system – a SoundOUT™ window located behind the first or primary window.
2. Good sound reduction numbers can also be achieved with a well sealed single windows glazed with laminated glass 6.38mm or greater. All Vantage window and door systems will accept 6.50mm laminated glass. Systems within the Vantage Designer Series will also accept 10.38mm.

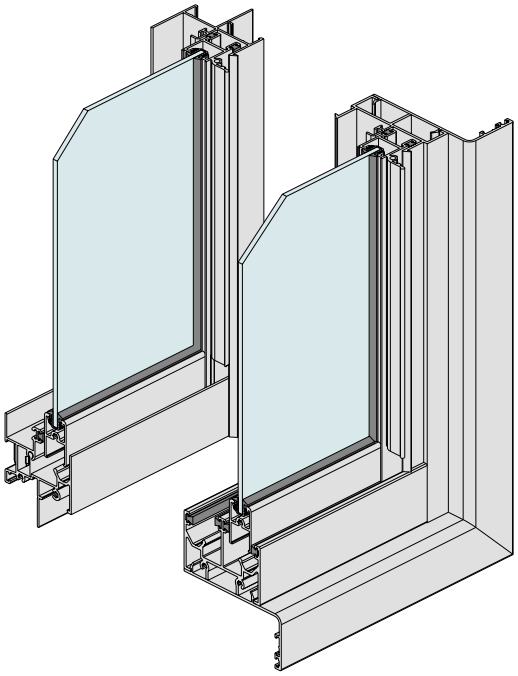
Hear the difference a SoundOUT™ window can make at vantagealuminium.com.au/sound



SoundOUT™ secondary glazing products sit behind the primary window or door providing improved acoustic performance and minimising sound transfer.

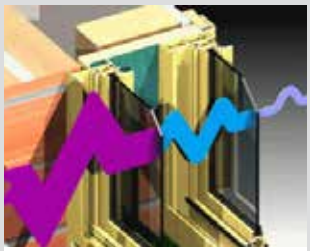
SPECIALTY | SERIES 531

# SoundOUT™ SLIDING WINDOW

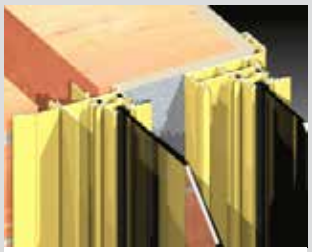


## KEY FEATURES

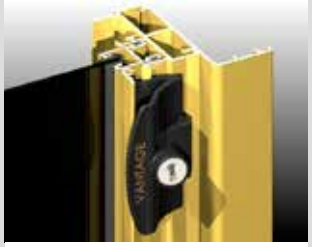
- The Series 531 SoundOUT™ Sliding Window has been specially designed to reduce noise infiltration through window openings. The SoundOUT™ sliding sash system is designed to be installed behind existing or new windows, usually on the reveals within the wall dimension. Product has been tested at the National Acoustic Laboratories, Chatswood NSW.
- Sashes are double sealed at all joints for maximum soundproofing.
- Several locks to choose from including centre multi-point locking.
- All sashes on the SoundOUT™ system can be opened to allow cleaning of the inner face of the outer window.
- Sashes run on large diameter heavy duty wheels, with nylon tyred ball bearing wheels used on the heavier sashes. These wheels are height adjustable to allow sashes to be squared up in the frame.
- Sashes will accept glass up to 7.52mm thick with full wraparound PVC glazing channel or if preferred SoundOUT™ sashes can be double glazed.



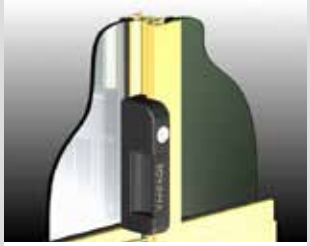
For serious sound reduction, use Vantage SoundOUT™. In some cases, the Vantage SoundOUT™ window may perform better than the wall it is being built into.



The best results are achieved by fitting the SoundOUT™ sliding windows behind a well sealed conventional window with a 75mm to 100mm gap between windows.



The standard latch/lock on the 531 secures the panel behind the external opening panel to the jamb. This latch can be keyed to match other Vantage windows and can be colour matched to the window framing.



SoundOUT™ sashes can be fitted with a custom centre lock. This lock throws an aluminium rod into a head keeper for maximum security.

### GENERAL

**Max Panel Height**
1500mm

**Max Panel Width**
930mm

**Max Glass Thickness**
20mm

**Frame Depth**
55mm

### ACOUSTICS

SoundOUT™ Sliding Window with primary 504 Awning window (3mm float) and 100mm air gap

**6.38mm Lam**
STC38

### ACOUSTICS

SoundOUT™ Sliding Window with primary 504 Sliding window (3mm float) and 100mm air gap

**7.52mm Lam**
41 (-2; -8)

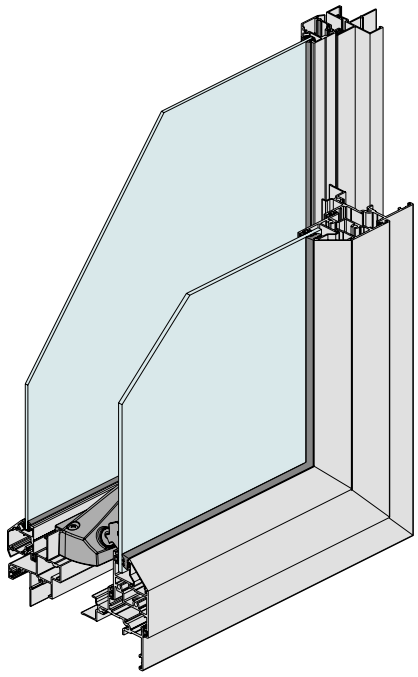
### ACOUSTICS

SoundOUT™ Sliding Window with primary 504 Sliding window (3mm float) and 100mm air gap

**6.38mm Lam**
41 (-2; -7)

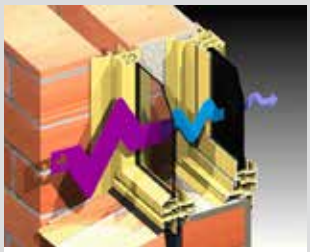
SPECIALTY | SERIES 532

# SoundOUT™ CASEMENT WINDOW

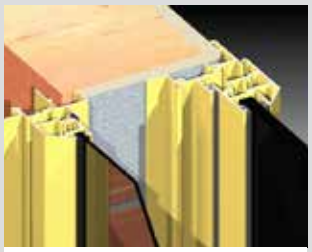


## KEY FEATURES

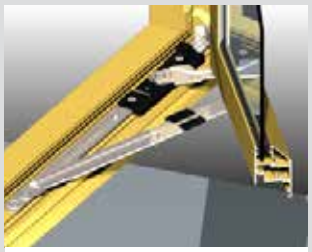
- The Vantage Series 532 secondary glazed casement system has been designed to dramatically reduce noise infiltration when installed behind existing or new windows. Product has been tested at the National Acoustic Laboratories, Chatswood NSW.
- SoundOUT™ casement sashes can be glazed with glass up to 10.38mm thick and are supported on heavy duty stainless steel stays. We achieved sound reduction results up to 50dB(A).
- The co-extruded seal fitted to SoundOUT™ casements is made up of a soft Santoprene seal welded to a hard backing material that slides into a retention groove in the extrusion. This hard backing prevents shrinkage which would result in gaps. SoundOUT™ sashes are double sealed to the frame with this dual durometer seal to maximise the airtightness (soundproofing) of this critical joint.
- Glass is separated from the sash and glazing bead with soft wedges to reduce sound transfer and glass vibration. The sash leg dual durometer Santoprene seal is captive to simplify glazing and reduce the chance of shrinkage.



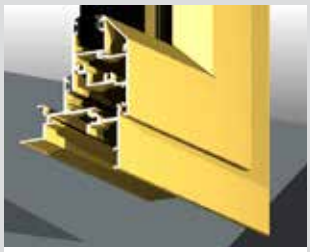
For serious sound reduction, use Vantage SoundOUT™. In some cases, the Vantage SoundOUT™ window may perform better than the wall it is being built into.



The SoundOUT™ frame nests onto the wall as detailed above.



Stainless steel casement stays used on the 532 are designed to accept heavy casement sashes with ride-up nylon wedges to assist when opening and closing the sash.



The stepped frame on the 532 allows the frame to nest onto the internal wall linings and conceal the joint between the window and wall.

### GENERAL

**Max Panel Height**
2100mm

**Max Panel Width**
1000mm

**Max Glass Thickness**
24mm

**Frame Depth**
74mm

### ACOUSTICS

SoundOUT™ Sliding Window with primary 516 Awning window (3mm float) and 100mm air gap

**6.38mm Lam**
STC45

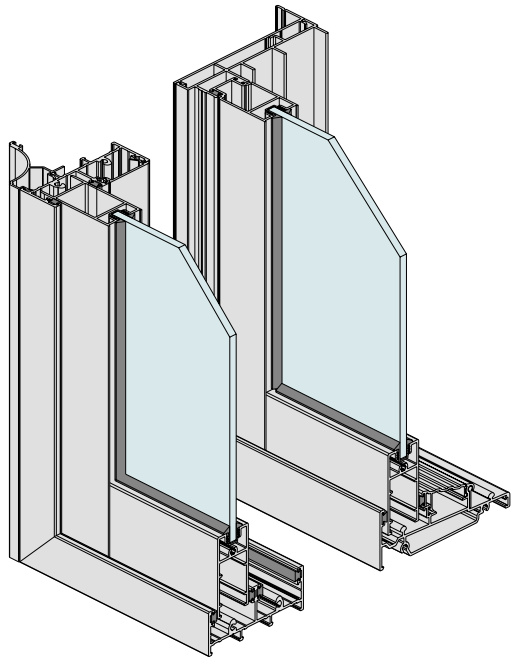
### ACOUSTICS

SoundOUT™ Sliding Window with primary 516 Awning window (3mm float) and 100mm air gap

**10.38mm Lam**
STC50

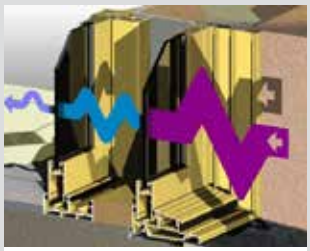
SPECIALTY | SERIES 533

# SoundOUT™ SLIDING DOOR

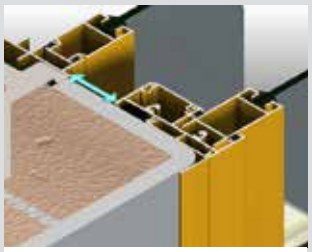


## KEY FEATURES

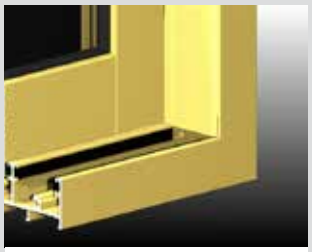
- This product has been specially designed to reduce noise infiltration through sliding door openings. The SoundOUT™ sliding door system is designed to be installed behind existing or new sliding doors. Product has been tested at the National Acoustic Laboratories, Chatswood NSW.
- The panels are double weatherpile sealed on all sides for maximum soundproofing.
- Slimline meeting stiles are less obtrusive and allow maximum vision. The meeting stiles on SoundOUT™ will align directly behind Series 541 or 542 main door meeting stiles.
- All sashes on the SoundOUT™ system can be opened to allow cleaning of the inner face of the outer door panels.
- Panels run on the same large diameter heavy duty wheels used on Series 541. Double bogey wheels can also be used on SoundOUT™. These wheels are height adjustable to allow panels to be squared up in the frame.
- Sashes will accept glass up to 7.52mm thick with full wraparound PVC glazing channel or if preferred SoundOUT™ sashes can be double glazed.



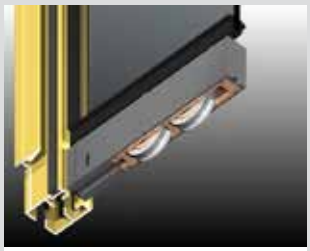
For serious sound reduction, use Vantage SoundOUT™. In some cases, the Vantage SoundOUT™ window may perform better than the wall it is being built into.



Installing this product will create a thermally broken double glazed door that will significantly reduce heating and cooling costs.



The custom mitred SoundOUT™ frame is designed specifically for this product. Unwanted recesses are closed off with flat fillers as shown above.



Vantage wheels have been custom designed to fit snugly into the door bottom rail. Nothing slides as smooth as a Vantage sliding door. Double bogey wheels are used on heavy doors, as show above.

### GENERAL

**Max Panel Height**
2360mm

**Max Panel Width**
1200mm

**Max Glass Thickness**
20mm

**Frame Depth**
74mm

### ACOUSTICS

**6.38mm Lam**
30 (1;-1)

**7.52mm Lam**
31 (1;-1)

### ACOUSTICS

SoundOUT™ Sliding Door with primary 541 Sliding Door (4mm Tgh) and 100mm air gap

**6.38mm Lam**
42 (-1;-6)

### ACOUSTICS

SoundOUT™ Sliding Door with primary 541 Sliding Door (4mm Tgh) and 100mm air gap

**4mm Tgh**
41 (-2;-7)

### Typical Sound Transmission Class (STC) ratings for building materials

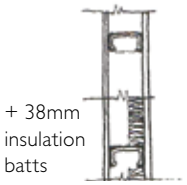
Many elements impact on noise infiltration into a room, all of these must be considered when you plan to improve the acoustic rating. Secondary glazing can be used to improve the acoustic performance of your project, but this will always be subject to building materials existing within the project; in some projects, secondary glazing will not achieve the acoustic outcomes you are looking for.

The information contained in these notes is only a guide. On many projects a sound engineer/consultant may need to be involved and will nominate the numbers and product make-up to suit the project.

## WALLS

STC: 33

Timber frame with flat cellulose-cement sheets and 10mm Gyprock™




STC: 33

Steel frame + 5mm fibrous cement and 13mm plasterboard on other side

Double the wall lining on one side adds 3 to STC

Double the wall lining on both sides add 5 to STC

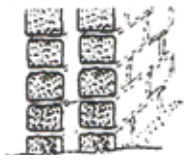
STC: 36

Timber frame with flat cellulose-cement sheets and two layers of 10mm Gyprock™ internally

STC: 39

Conventional brick veneer

## WALLS



STC: 42

270mm thick double-skin (cavity) brick wall

STC: 42

Conventional brick veneer with two layers of 13mm Gyprock™ plasterboard

STC: 45

150mm hollow, dense concrete block

STC: 48

200mm hollow, dense concrete block

## WINDOW

STC: 22

3mm glass in Vantage sliding window

## DOORS

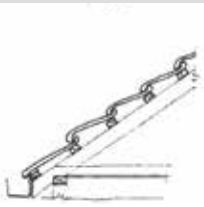
STC: 15

Ordinary hollow core door

STC: 30

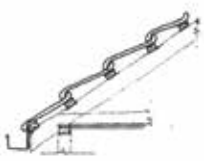
Solid core 42mm thick plywood door, soft plastic gasket on top and sides and drop seal at base

## ROOFS



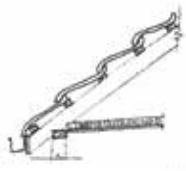
STC: 33

Pitched roof clad with tiles over 10mm Gyprock™ plasterboard



STC: 36

Pitched roof clad with tiles, but with two layers of Gyprock™ plasterboard



STC: 39

Pitched roof clad with tiles, plus 50mm thick 12kg/m$^3$ glass fibre blanket between ceiling joists

Values as per Australian Standard AS3671-1989

ELEVATE
ALUMINIUM SYSTEMS

# SYSTEM PORTFOLIO

## COMMERCIAL FRAMING

### Innovative framing solutions for commercial and residential applications

The Elevate™ Aluminium Systems Commercial Framing range includes CentreGLAZE™, FrontGLAZE™ and FaceLINE™ framing systems designed to meet the ever-growing needs of the commercial building sector. Elevate™ Commercial Framing systems can be fully integrated with a variety of Architectural and Vantage Designer Series products, offering versatile solutions for your building project.

Available in 80mm, 102mm, 150mm and 225mm platforms and designed to accept single and double glazing, Elevate™ Commercial Framing incorporates strong, bold profiles enabling large expanses of glazing to be achieved.


## COMMERCIAL | ThermalHEART®

### Thermally broken commercial framing systems for improved energy efficiency

Elevate™ Commercial Framing with ThermalHEART® is the latest addition to the Elevate™ Aluminium Systems range of high-performance windows and doors.

Developed in response to growing environmental concern and requirement for energy efficient building designs, Elevate™ Commercial Framing with ThermalHEART® offers significantly improved thermal performance and energy efficiency.

Ideal for those applications where minimising cold and heat transfer is a priority, this innovative range is 32% more thermally efficient than standard double glazed windows and doors.

The Elevate™ Aluminium Systems philosophy is simple: to create commercial window and door systems that offer streamlined and efficient solutions to the commercial construction and high-end residential market.

The Elevate™ Aluminium Systems range is an innovative selection of commercial framing and architectural products that deliver superior performance, reliability, expansive panel sizes and contemporary architectural styling. Designed and tested for Australian conditions, Elevate™ Aluminium Systems offer enormous design flexibility, making them ideal for any climate or environment.

All Elevate™ Architectural and Commercial Series systems are compatible with our comprehensive range of framing solutions offering flexibility in design for a range of applications.

Our market leading selection of ThermalHEART® commercial aluminium systems are created to maximise efficiency and comfort and provide an ideal solution for commercial applications where Section J energy compliance is a driving factor.

For high-quality, high-performance solutions which enhance your building project and deliver satisfaction for generations, look to Elevate™ Aluminium Systems.

## ARCHITECTURAL SERIES

### Strong, bold, stylish profiles for commercial architectural projects

The Architectural Series of high-performance windows and doors is both modern and meticulous in design. Its shapes reflect the designer preference for clean, flush surfaces, continuous sightlines and square-edge 'cubist' forms.

These systems have been developed with aesthetic unity in mind – similar looks and lines for windows and doors, and common frame edges to simplify architectural detailing.

The Architectural Series has been designed with the strength and versatility to allow the choice of large formats and sizes increasingly favoured by architects.

## COMMERCIAL SERIES

### Dedicated, high performance commercial window and door systems

The Commercial Series offers a selection of locally designed and tested dedicated commercial systems. These systems were developed for use in commercial, institutional and light industrial applications and offer economical, high-performance glazing solutions. Designed to integrate seamlessly with Elevate™ Aluminium Systems framing suites, the range includes sliding, awning, and double-hung windows along with sliding and hinged doors.

Commercial Series window and door systems can be used in conjunction with Commercial Framing and Architectural Series systems to achieve your ideal glazing solution.

ELEVATE™
# SYSTEM PORTFOLIO

| | Series | Description | Page Number | Centre Glaze | Front Glaze | Face Glaze | Offset Glaze | Thermally Broken | 80mm Framing | 100/101.6mm Framing | 150mm Framing | 225mm Framing |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COMMERCIAL FRAMING | 400 | CentreGLAZE™ | 76 | ■ | | | | | | ■ | | |
| | 620 | CentreGLAZE™ | 84 | ■ | | | | | | | ■ | |
| | 424 | CentreGLAZE™ | 79 | ■ | | | | | | ■ | | |
| | 624 | CentreGLAZE™ | 85 | ■ | | | | | | | ■ | |
| | 406 | FrontGLAZE™ | 77 | | ■ | | | | | ■ | | |
| | 606 | FrontGLAZE™ | 82 | | ■ | | | | | | ■ | |
| | 426 | FrontGLAZE™ | 80 | | ■ | | | | | ■ | | |
| | 626 | FrontGLAZE™ | 86 | | ■ | | | | | | ■ | |
| | 936 | FrontGLAZE™ | 88 | | | | | | | | | ■ |
| | 80 | Offset | 74 | | | | ■ | | ■ | | | |
| | 600 | Offset | 81 | | | | ■ | | | | ■ | |
| | 407 | FaceLINE™ | 78 | | | ■ | | | | ■ | | |
| | 607 | FaceLINE™ | 83 | | | ■ | | | | | ■ | |
| | 646 | SoundOUT™ FrontGLAZE™ | 87 | | | | | | | | ■ | |
| | 105 | Office Partition System | 75 | | | | | | | | | |
| COMMERCIAL ThermalHEART™ | 804 | Thermally Broken CentreGLAZE™ | 92 | ■ | | | | ■ | | ■ | | |
| | 806 | Thermally Broken CentreGLAZE™ | 93 | ■ | | | | ■ | | | ■ | |
| | 824 | Thermally Broken FrontGLAZE™ | 94 | | ■ | | | ■ | | ■ | | |
| | 826 | Thermally Broken FrontGLAZE™ | 95 | | ■ | | | ■ | | | ■ | |
| | 831 | Thermally Broken Bi-fold Door | 96 | | | | | ■ | | ■ | | |
| | 832 | Thermally Broken Bi-fold Door | 97 | | | | | ■ | | ■ | | |
| | 852 | Thermally Broken Door | 98 | | | | | ■ | | | | |

* Subject to individual site conditions. Contact AWS Technical Support for more information.

| | Single Glazed | Double Glazed | Double Glazed Option | Thick Glass Option | Structurally Glazed Option | High Weather Performance | Screening Option | Powder Coated Finish | Anodised Finish | Twin Colour Option | WERS Rated | Fully Tested | Full Sub-framing Available | Australian Designed, Tested and Fabricated | Max Panel Height* | Max Panel Width* | Max Glass Thickness |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ■ | | | | | ■ | | ■ | ■ | | ■ | ■ | ■ | ■ | Various | Various | 10.38 |
| | ■ | | | ■ | | ■ | | ■ | ■ | | ■ | ■ | ■ | ■ | Various | Various | 15.50 |
| | | ■ | | ■ | | ■ | | ■ | ■ | | ■ | ■ | ■ | ■ | Various | Various | 28 |
| | | ■ | | ■ | | ■ | | ■ | ■ | | ■ | ■ | ■ | ■ | Various | Various | 28 |
| | ■ | | | | | ■ | | ■ | ■ | | ■ | ■ | ■ | ■ | Various | Various | 10.38 |
| | ■ | | | | | ■ | | ■ | ■ | | ■ | ■ | ■ | ■ | Various | Various | 10.38 |
| | | ■ | | ■ | ■ | ■ | | ■ | ■ | | ■ | ■ | ■ | ■ | Various | Various | 28 |
| | | ■ | | ■ | ■ | ■ | | ■ | ■ | | ■ | ■ | ■ | ■ | Various | Various | 28 |
| | ■ | | ■ | ■ | | ■ | | ■ | ■ | | | ■ | ■ | ■ | Various | Various | 30 |
| | ■ | | | | | | | ■ | ■ | | | ■ | ■ | ■ | Various | Various | 10.38 |
| | ■ | | | | | ■ | | ■ | ■ | | ■ | ■ | ■ | ■ | Various | Various | 10.38 |
| | ■ | | | | | ■ | | ■ | ■ | | ■ | ■ | ■ | ■ | Various | Various | 10.38 |
| | ■ | | | | ■ | ■ | | ■ | ■ | | ■ | ■ | ■ | ■ | Various | Various | 10.38 |
| | | ■ | | ■ | | ■ | | ■ | ■ | | | ■ | ■ | ■ | Various | Various | 12.50 |
| | | ■ | | | | | | ■ | ■ | | | ■ | | ■ | Various | Various | 12.50 |
| | ■ | ■ | | ■ | | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | Various | Various | 28 |
| | ■ | ■ | | ■ | | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | Various | Various | 28 |
| | ■ | ■ | | ■ | | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | Various | Various | 28 |
| | ■ | ■ | | ■ | | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | Various | Various | 28 |
| | ■ | | ■ | ■ | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | Various | Various | 28 |
| | ■ | | ■ | ■ | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 3000 | 1000 | 28 |
| | ■ | ■ | | ■ | | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 3000 | 1000 | 28 |

ELEVATE™
# SYSTEM PORTFOLIO

| | Series | Description | Page Number | 102mm Framing | 150mm Framing | 200mm Framing | Single Glazed | Double Glazed | Double Glazed Option | Thick Glass Option | High Weather Performance |
|---|---|---|---|---|---|---|---|---|---|---|---|
| COMMERCIAL SERIES | 50 | Door | 104 | | | | ■ | | | | ■ |
| | 51 | Door | 105 | | | | ■ | | | | ■ |
| | 52 | Door | 106 | | | | | ■ | | ■ | ■ |
| | 452 | Sliding Window | 107 | ■ | | | ■ | | ■ | | ■ |
| | 453 | Double-Hung Window | 108 | ■ | | | ■ | | | | ■ |
| | 456 | Awning Window | 109 | ■ | | | ■ | | ■ | ■ | ■ |
| | 461 | Sliding Window | 110 | ■ | | | ■ | | ■ | ■ | ■ |
| | 471 | Sliding Door | 111 | ■ | | | ■ | | ■ | ■ | ■ |
| ARCHITECTURAL SERIES | 417 | LouvreMASTER™ | 117 | | | | | | | | |
| | 410 | Bi-fold Door | 114 | ■ | | | ■ | | ■ | ■ | ■ |
| | 411 | Bi-fold Door | 115 | ■ | | | ■ | | ■ | ■ | ■ |
| | 412 | Bi-fold Door | 116 | ■ | | | ■ | | ■ | ■ | ■ |
| | 462 | Sliding Window | 118 | ■ | | | ■ | | ■ | ■ | ■ |
| | 463 | Double-Hung Window | 119 | ■ | | | ■ | | ■ | | ■ |
| | 464 | ClearVENT™ Sashless | 120 | ■ | | | ■ | | | | ■ |
| | 466 | Awning/Casement Window | 121 | ■ | | | ■ | | ■ | ■ | ■ |
| | 467 | Awning/Casement Window | 122 | ■ | | | ■ | | ■ | ■ | ■ |
| | 468 | Awning/Casement Window | 123 | ■ | | | ■ | | ■ | ■ | ■ |
| | 650 | Hinged Door | 124 | | ■ | | ■ | | ■ | ■ | ■ |
| | 662 | Sliding Window | 125 | | ■ | | ■ | | ■ | ■ | ■ |
| | 668 | Awning/Casement Window | 126 | | ■ | | ■ | | ■ | ■ | ■ |
| | 701 | Sliding Window | 127 | ■ | | | ■ | | ■ | ■ | ■ |
| | 702 | SlideMASTER™ Door | 128 | ■ | ■ | | ■ | | ■ | ■ | ■ |
| | 704 | SlideMASTER™ Door | 129 | ■ | ■ | ■ | ■ | | ■ | ■ | ■ |

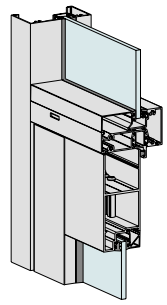
* Subject to individual site conditions. Contact AWS Technical Support for more information.

| | Integrated Screening Option | Powder Coated Finish | Anodised Finish | Twin Colour Option | WERS Rated | Fully Tested | Hinged Option | Pivot Option | Auto Door Option | Internal Cleaning Feature | Full Sub-framing Available | Australian Designed, Tested and Fabricated | Max Panel Height•* | Max Paanel Width* | Max Glass Thickness |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | | | ■ | Various | Various | 10.38 |
| | | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | | | ■ | Various | Various | 10.38 |
| | | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | | | ■ | Various | Various | 28 |
| | ■ | ■ | ■ | | ■ | ■ | | | | | ■ | ■ | 1500 | 1050 | 6.76 |
| | ■ | ■ | ■ | | ■ | ■ | | | | | ■ | ■ | 1050 | 1168 | 6.76 |
| | ■ | ■ | ■ | | ■ | ■ | | | | | ■ | ■ | Various | Various | 20 |
| | ■ | ■ | ■ | | ■ | ■ | | | | | ■ | ■ | 1500 | 1350 | 20 |
| | ■ | ■ | ■ | | ■ | ■ | | | | | ■ | ■ | 2630 | 1470 | 20 |
| | | ■ | ■ | | | ■ | ■ | ■ | | | | ■ | Various | Various | na |
| | ■ | ■ | ■ | | ■ | ■ | | | | | ■ | ■ | 3000 | 1000 | 28 |
| | ■ | ■ | ■ | | ■ | ■ | | | | | ■ | ■ | 3000 | 1000 | 28 |
| | ■ | ■ | ■ | | ■ | ■ | | | | | ■ | ■ | 3000 | 1000 | 28 |
| | ■ | ■ | ■ | | ■ | ■ | | | | | ■ | ■ | 1600 | 1350 | 20 |
| | ■ | ■ | ■ | | ■ | ■ | | | | ■ | ■ | ■ | 1050 | 1155 | 20 |
| | ■ | ■ | ■ | | ■ | ■ | | | | | ■ | ■ | 1050 | 1210 | 6.38 |
| | ■ | ■ | ■ | | ■ | ■ | | | | | ■ | ■ | Various | Various | 24 |
| | ■ | ■ | ■ | | ■ | ■ | | | | | ■ | ■ | Various | Various | 24 |
| | ■ | ■ | ■ | | ■ | ■ | | | | | ■ | ■ | Various | Various | 24 |
| | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | | ■ | ■ | 3000 | 1000 | 10.38 |
| | ■ | ■ | ■ | | ■ | ■ | | | | | ■ | ■ | 1500 | 1350 | 24 |
| | ■ | ■ | ■ | | ■ | ■ | | | | | ■ | ■ | Various | Various | 20 |
| | ■ | ■ | ■ | | ■ | ■ | | | | | ■ | ■ | 1600 | 1500 | 24 |
| | ■ | ■ | ■ | | ■ | ■ | | | | | | ■ | 3000 | 1800 | 24 |
| | ■ | ■ | ■ | | ■ | ■ | | | | | | ■ | 3000 | 2500 | 24 |

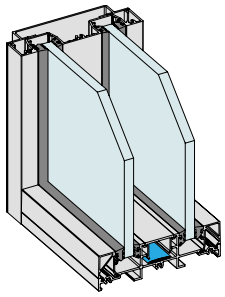
COMMERCIAL FRAMING

# COMMERCIAL FRAMING

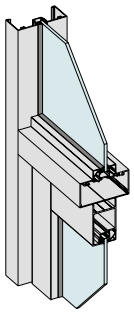
Photo courtesy of Manly Aluminium Windows



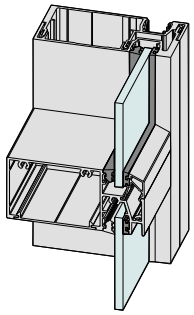




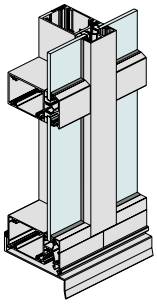




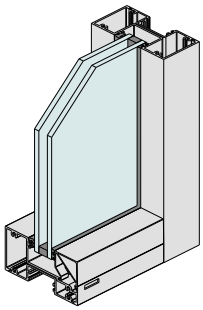




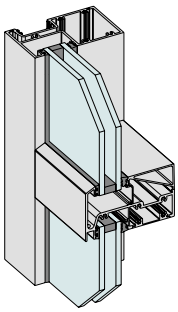




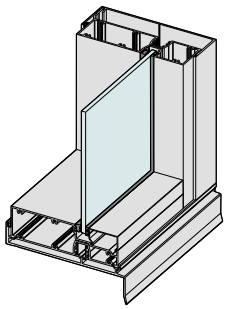






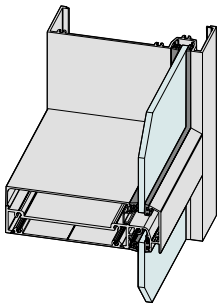






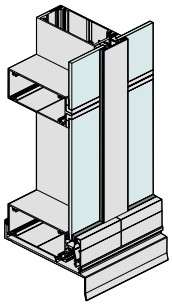
Innovative framing solutions for commercial and residential applications. The Elevate™ Aluminium Systems Commercial Framing range includes CentreGLAZE™, FrontGLAZE™ and FaceLINE™ framing systems designed to meet the ever-growing needs of the commercial building sector. Elevate™ Commercial framing systems can be fully integrated with a variety of Architectural and Vantage Designer Series products offering versatile solutions for your building project.

Elevate™ Commercial framing incorporates strong, bold profiles enabling large expanses of glazing to be achieved. Available in 80mm, 102mm and 150mm platforms and designed to accept single and double glazing.



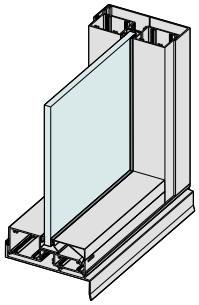


SG FrontGLAZE™
150mm Framing



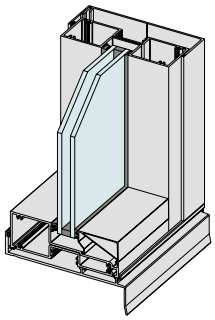


FaceLINE™ 150mm
Framing



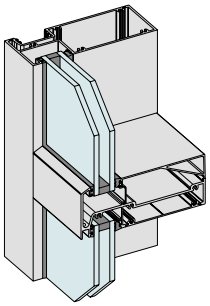


SG CentreGLAZE™
150mm Framing



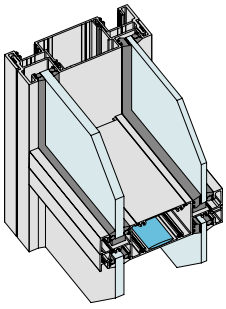


DG CentreGLAZE™
150mm Framing



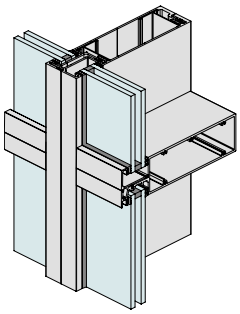


DG FrontGLAZE™
150mm Framing





SoundOUT™
FrontGLAZE™ Framing

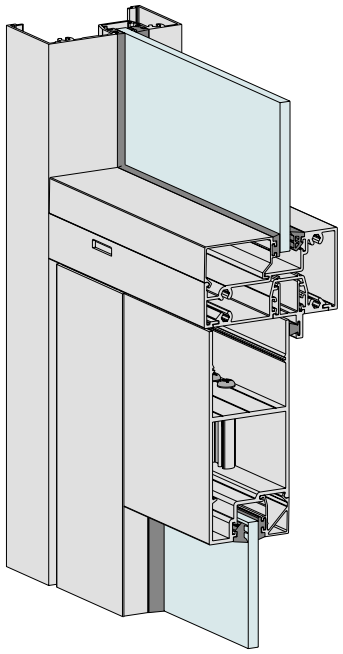




DG FrontGLAZE™
225mm Framing

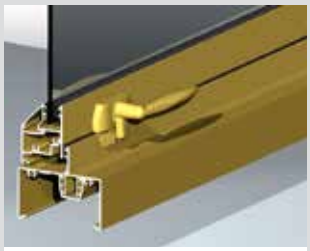
COMMERCIAL FRAMING | SERIES 80

# NARROW OFFSET 80mm FRAMING

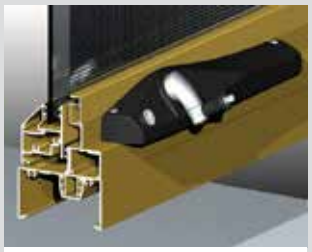


## KEY FEATURES

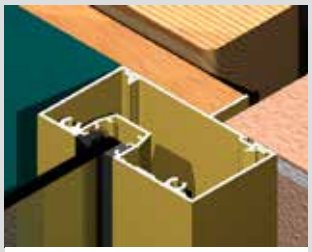
- Series 80 narrow shopfront framing is 80mm thick by 44mm wide with the glazing pocket offset, suitable for commercial framing that's not too high and ideal for internal partitioning.
- Truly captive glazing wedge feature. In elevated installations you can glaze and reglaze from one side. The captive wedge will resist vandalism in ground floor (arcade) installations.
- Series 80 has a deep glazing pocket.
- Sub-sill included as we always recommend sub-sills under commercial framing.
- Sub-head to allow for building settlement.
- Hinged door threshold.
- Nailing fin adaptor and a narrow frame for residential applications.
- Awning sash inlay adaptor.
- Adjustable wall trims to suit internal applications.



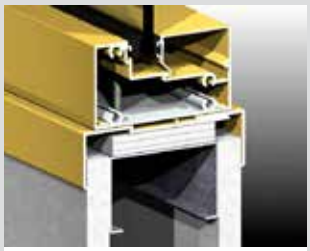
Awning sash inlay can be operated with cam handles as shown above or manual chain winders as shown on next illustration.



The chain winder we use comes standard with a stainless steel winder and a Polesium™ cover and base. These corrosion resisting features make the winder suitable for exposed locations.



Series 80 maintains the same glazing line as 400 series framing, with a variety of jamb options.



Series 80 framing is also extremely well suited for high quality internal partitioning. These adjustable trims will cater for a wall thickness variation from 84mm to 110mm.

### GENERAL

**Max Panel Height**
Various

**Max Panel Width**
Various

**Max Glass Thickness**
10.38mm

**Frame Depth**
80mm

### ENERGY

**UW Range**
N/A

**SHGC Range**
N/A

### WEATHER

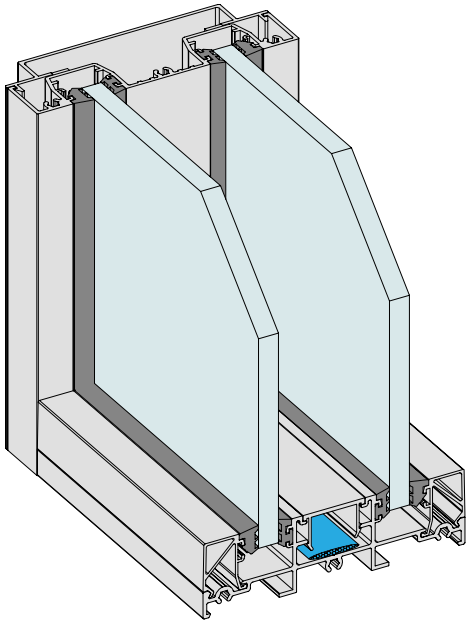
**Maximum Water**
300 Pa

### ACOUSTICS

This product has not been acoustics tested.

COMMERCIAL FRAMING | SERIES 105

# OFFICE PARTITIONING SYSTEM

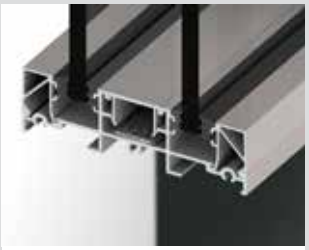


## KEY FEATURES

- Series 105 Partition framing system has been designed to be single or double glazed.
- The wide glazing pocket (16.50mm) will accept glass up to 12.50mm thick with 8mm bite.
- The 105mm wide frame will give us about 44mm gap between glass, varies slightly depending on the glass thickness.
- Three glazing bead options: 90 degree square bead, 45 degree splayed bead, 25 degree splayed bead.
- The splayed beads shed dust – ideal for projects where dust collection platforms are a problem.
- The slica gel crystals are fitted under the snap-on cover. This cover is designed to be removed in the future when crystals need to be replaced.
- Slimline, wideline or shadowline perimeter frame options.
- Hinge doors can be awung off mullions.
- Not designed for external weather resisting applications.

Double glazed mullion will accept two monolithic sheets of glass up to 12.50mm thick. This creates approximately 44mm gap between for improved acoustic performance.

Single glazed mullion option for traditional partitioning applications.



Souble glazed sill shown above.

Single glazed sill shown above.

### GENERAL

**Max Panel Height**
Various

**Max Panel Width**
Various

**Max Glass Thickness**
12.50mm

**Frame Depth**
105mm

### ENERGY

**UW Range**
N/A

**SHGC Range**
N/A

### WEATHER

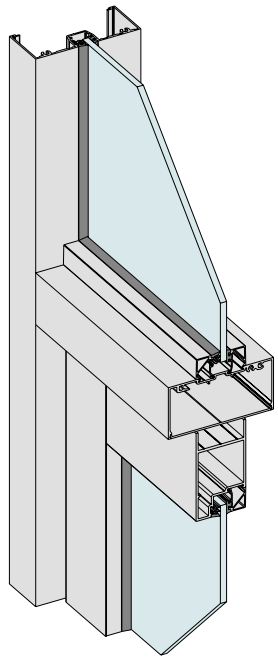
Not designed for external weather resisting applications.

### ACOUSTICS

This product will undergo acoustics testing early 2015. for more information regarding the acoustic performance of this system contact AWS.

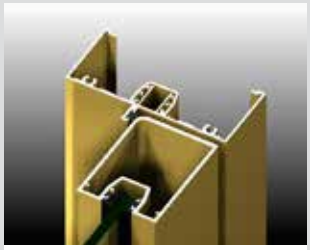
COMMERCIAL FRAMING | SERIES 400

# SINGLE GLAZED CentreGLAZE™ 102mm FRAMING

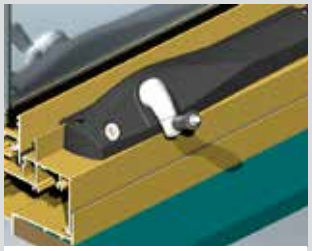


## KEY FEATURES

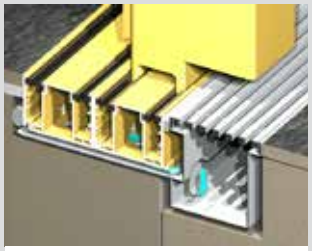
- Versatile commercial CentreGLAZE™ framing system ideal for commercial or residential applications.
- True captive glazing wedge on one side. In elevated installations with bead on the inside at head this allows you to glaze and reglaze from inside the building, no need for scaffolding.
- External wet top Silicone glazing also available.
- Numerous custom designed extrusions to cater for specific applications. A range of sub-sills cover most installations including residential installations into cavity brick and brick veneer walls.
- Sub-head and two piece sub-jambs.
- Numerous door thresholds including weather resisting thresholds for external and internal swing doors.
- Top hung and bottom rolling sliding door track systems.
- Compatible with Series 50, 51 and 52 doors.



Our 50mm thick doors are about 70% stronger than industry standard 44mm thick panels. This is important if you want to make doors higher than 2100mm.



Series 400 framing is the building block of commercial applications and will accept a variety of opening sash options from sliders to double-hung to awning and casement.



Can accept sliding door panels in a variety of commercial applications. This fully recessed sill is completely flat and still keeps water out. Complies with AS1428.

We offer a range of internal trim options to make installation into a variety of building materials possible.

### GENERAL

**Max Panel Height**
Various

**Max Panel Width**
Various

**Max Glass Thickness**
10.38mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
4.1-6.0

**SHGC Range**
0.25-0.61

### WEATHER

**Maximum Water**
600 Pa.

### ACOUSTICS

**6.5mm VLam Hush™**
34 (0;-3)

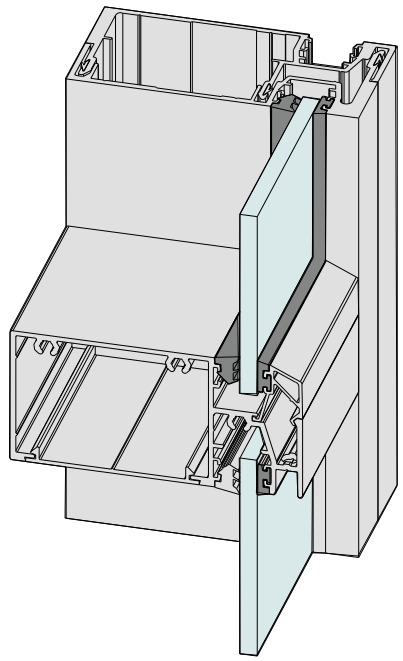
**10.52mm VLam Hush™**
37 (0;-3)

**10.38mm Lam**
34 (-1;-2)

**6.38mm Lam**
32 (-2;-3)

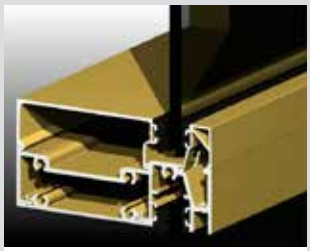
COMMERCIAL FRAMING | SERIES 406

# SINGLE GLAZED FrontGLAZE™ 102mm FRAMING

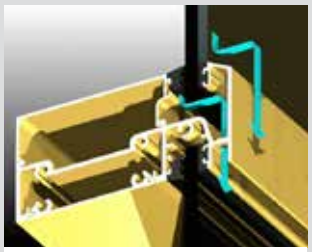


## KEY FEATURES

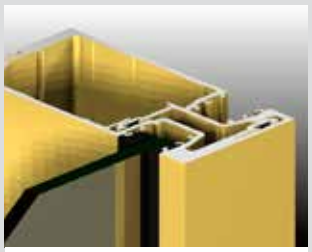
- Series 406 FrontGLAZE™ shopfront framing 102mm x 50mm with the glazing pocket close to the front face.
- True captive glazing wedge. A significant advantage in elevated situations where you can glaze from inside without scaffolding when internally beaded sill/transom is selected.
- External wet top silicone glazing also available.
- The drainage holes along the front face are concealed in the recessed drip groove.
- Large range of transom options – internal or external glazed.
- Numerous custom designed extrusions to cater for specific applications. A range of sub-sills cover most installations.
- Sub-head and two piece sub-jambs.
- Numerous door thresholds including weather resisting thresholds for external and internal swing doors.
- Top hung and bottom rolling sliding door track systems.
- Compatible with Series 50, 51 and 52 doors.
- Will accept awning sashes.



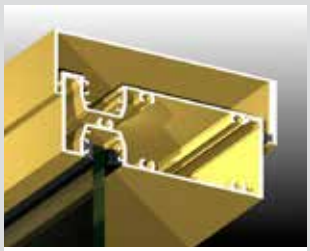
Front glazed framing with a variety of transom details, including double beads as shown above.



Concealed drainage designed to shed water more efficiently. Very high water performance 600 Pa.



Various mullion details for site wind load conditions. The expansion mullion above shows extra weather leg behind the glazing for very high water resistance.



Sub-sill, sub-head and sub-jambs available.

### GENERAL

**Max Panel Height**
Various

**Max Panel Width**
Various

**Max Glass Thickness**
10.38mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
4.5-6.1

**SHGC Range**
0.25-0.74

### WEATHER

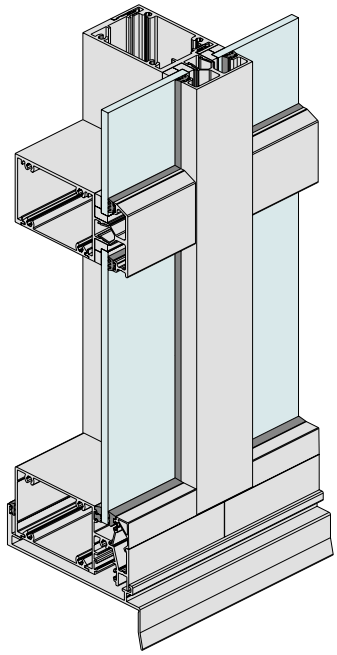
**Maximum Water**
600 Pa.

### ACOUSTICS

This product has not been acoustics tested.

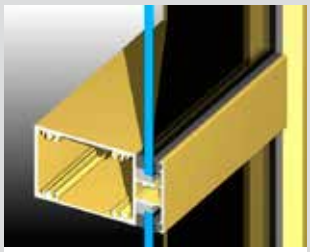
COMMERCIAL FRAMING | SERIES 407

# FaceLINE™ 102mm FRAMING

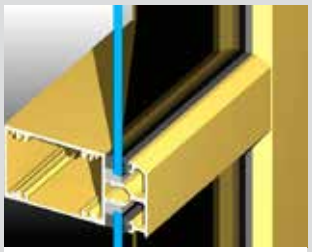


## KEY FEATURES

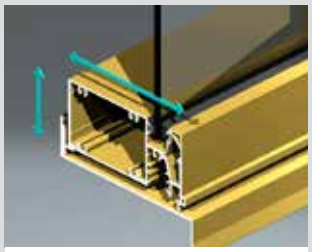
- Series 407 FaceLINE™ framing 102mm x 50mm with the glazing pocket close to the front face.
- We have designed this FrontGLAZE™ framing system with a full depth perimeter frame enabling the frame to be installed into sub-frames without compromising the glazing covers.
- Range of mullion and transom treatments from raised covers through flat covers to structural glazing (no covers).
- Numerous custom designed extrusions to cater for specific applications. A range of sub-sills cover most installations.
- Sub-head and two piece sub-jambs that don't compromise the glazing system.
- Numerous door thresholds including weather resisting thresholds for external and internal swing doors.
- Compatible with Series 50, 51 and 52 doors.
- Designed for 1 or 2-story shopfronts.
- High water resistance using interlocking mullions.



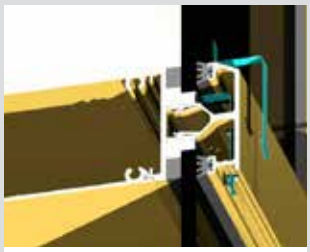
Series 407 will accept flat or raised snap-on cover bead.



Interlocking mullion can be reinforced. Raised or flat cover bead options available.



Series 407 has been designed to go into sub-head, sub-sill and sub-jambs. Sub-sill shown above.



Concealed drainage designed to shed water more efficiently.

### GENERAL

**Max Panel Height**
Various

**Max Panel Width**
Various

**Max Glass Thickness**
10.38mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
4.3-6.1

**SHGC Range**
0.33-0.73

### WEATHER

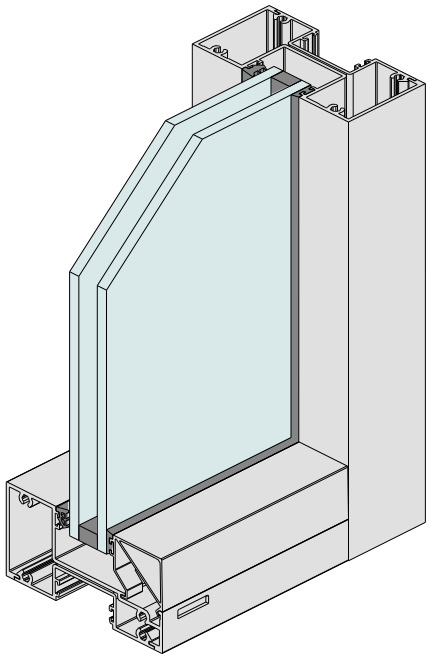
**Maximum Water**
600 Pa.

### ACOUSTICS

This product has not been acoustics tested.

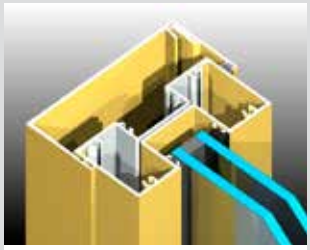
COMMERCIAL FRAMING | SERIES 424

# DOUBLE GLAZED CentreGLAZE™ 102mm FRAMING

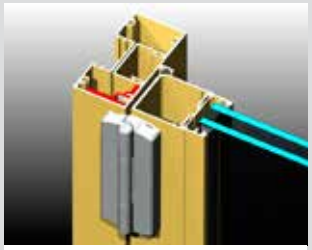


## KEY FEATURES

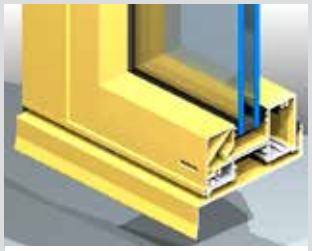
- Series 424 CentreGLAZE™ shopfront framing 102mm x 50mm has been designed specifically to accept 24mm (IGUs).
- The 28mm deep glazing pocket caters for glass installation and 12mm bite as required by IGU manufacturers.
- Reinforced tall glazing bead at sill.
- External wet top silicone glazing also available.
- True captive glazing wedge on one side. In elevated installations with bead on the inside this allows you to glaze and reglaze from inside, no need for scaffolding.
- Numerous custom designed extrusions to cater for specific applications. A range of sub-sills cover most installations.
- Sub-head and two piece sub-jambs.
- Numerous door thresholds including weather resisting thresholds for external and internal swing doors.
- Top hung and bottom rolling sliding door track systems.
- Compatible with Series 52 doors.



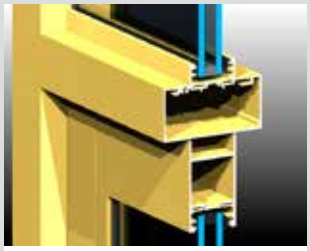
All 424 framing is designed to accept IGUs up to 28mm.



Series 424 double glazed door panels will be heavy. For this reason we offer hinge backing plates and adjustable hinges.



Sub-sill, sub-head and sub-jambs available. We always recommend sub-sills under commercial frames that are exposed to the elements on the perimeter wall.



We can also double glaze doors and COC highlights.

### GENERAL

**Max Panel Height**
Various

**Max Panel Width**
Various

**Max Glass Thickness**
28mm

**Frame Depth**
101.6mm

### ENERGY

**UW Range**
2.6-3.6

**SHGC Range**
0.17-0.63

### WEATHER

**Maximum Water**
600 Pa.

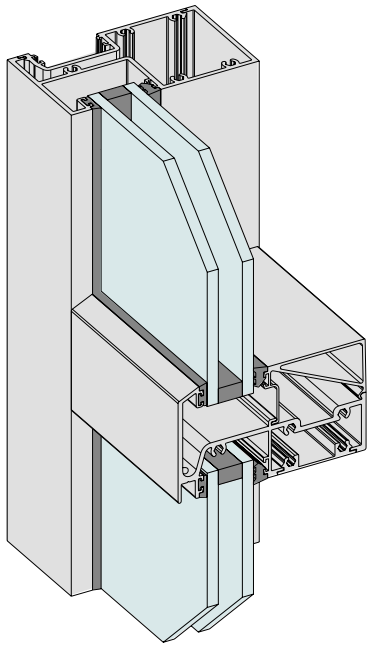
### ACOUSTICS

**8.5mm VLam Hush™ /10mm Air/6.5 VLam Hush™**
39 (-2;-6)

**6.5mm Vlam Hush™ /12mm Air/6mm Tgh**
36 (-1;-5)

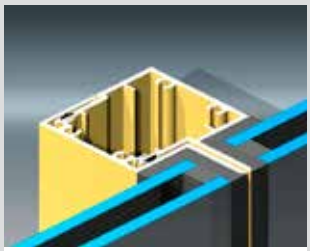
COMMERCIAL FRAMING | SERIES 426

# DOUBLE GLAZED FrontGLAZE™ 102mm FRAMING

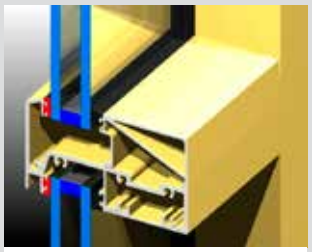


## KEY FEATURES

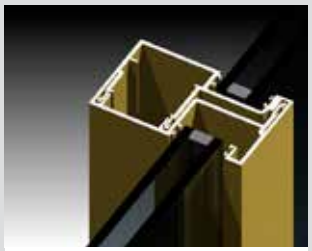
- Series 426 FrontGLAZE™ shopfront framing 102mm x 60mm with the glazing pocket close to the front face.
- The 28mm deep glazing pocket caters for glass installation and 12mm bite as required by IGU manufacturers.
- Reinforced tall glazing beads at sill.
- We can fit a true captive glazing wedge on one side. In elevated installations this allows you to glaze and reglaze from inside, with no need for scaffolding when internally beaded sill/transom is selected.
- External wet top Silicone glazing also available.
- The drainage holes along the front face are concealed.
- There are numerous custom designed extrusions to cater for specific applications. A range of sub-sills cover most installations. Sub-head and two piece sub-jambs.
- Numerous door thresholds including weather resisting thresholds for external and internal swing doors.
- Compatible with Series 52 doors.



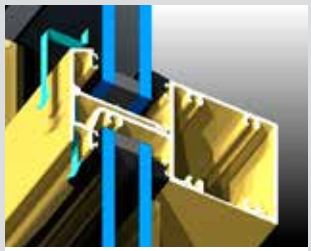
426 framing offers a structurally glazed option.



Full captive wedge glazing is a feature of 426 framing. We can use silicone wet top on the outside in lieu of the captive wedge.



Various mullion details for site wind load conditions. We recommend expansion mullions on long runs of framing (over 6m).



Concealed drainage designed to shed water more efficiently and improve aesthetics without runs of visible holes along the face. Very high water performance > 600 Pa.

### GENERAL

**Max Panel Height**
Various

**Max Panel Width**
Various

**Max Glass Thickness**
28mm

**Frame Depth**
101.2mm

### ENERGY

**UW Range**
2.7-3.6

**SHGC Range**
0.18-0.66

### WEATHER

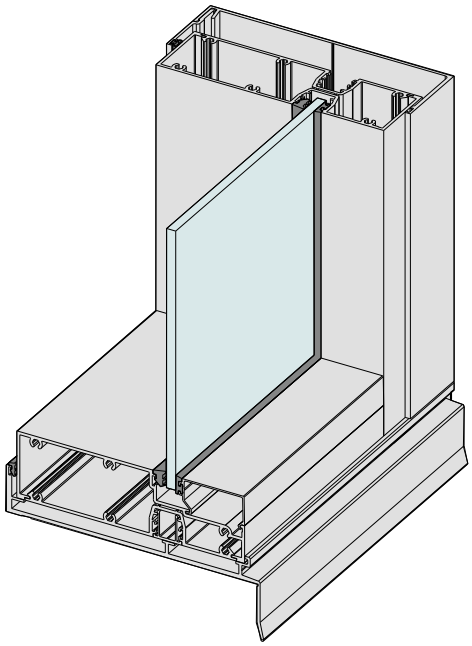
**Maximum Water**
600 Pa.

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this products acoustic performance will be inline with Series 424.

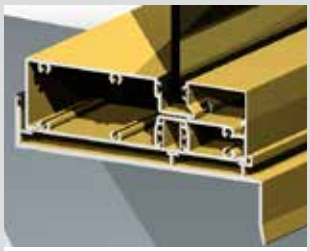
# WIDE OFFSET 150mm FRAMING



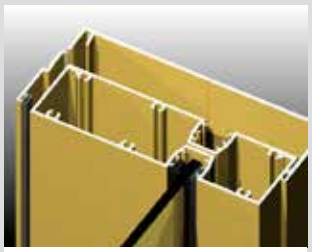


## KEY FEATURES

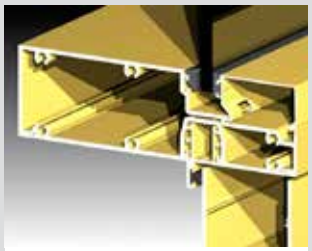
- Series 600 wide shopfront framing is 150mm thick by 44mm wide with the glazing pocket offset. The product is ideal for frames spanning more than 3m high.
- The glazing pocket is set forward to allow use of 102mm or 80mm transoms from Series 400 and Series 80.
- We can fit a true captive glazing wedge on one side. This reduces the chance of vandalism.
- External wet top silicone glazing also available.
- There are several custom designed extrusions to cater for specific applications.
- Sub-sill included as we always recommend sub-sills under commercial framing.
- Sub-head to allow for building settlement.
- Two piece sub-jambs to simplify installation.
- Hinged door threshold.
- Awning sash inlay adaptors.
- Compatible with Series 50, 51 and 52 doors.



150mm offset glazing that maintains glazing line to Series 400 and 80 suites. Sub-sill has additional support leg under glass, to carry weight of heavy glass preventing frame dishing.



Sub-sill, sub-head and sub-jambs available.



This detail shows the standard 150mm wide transom from Series 600. We can also fit the narrower transoms for Series 400 (102mm) or Series 80 (80mm).

Various mullion details for site wind load conditions. We recommend expansion mullions on long runs of framing (over 6m).

### GENERAL

**Max Panel Height**
Various

**Max Panel Width**
Various

**Max Glass Thickness**
10.38mm

**Frame Depth**
150mm

### ENERGY

**UW Range**
4.6-6.4

**SHGC Range**
0.25-0.75

### WEATHER

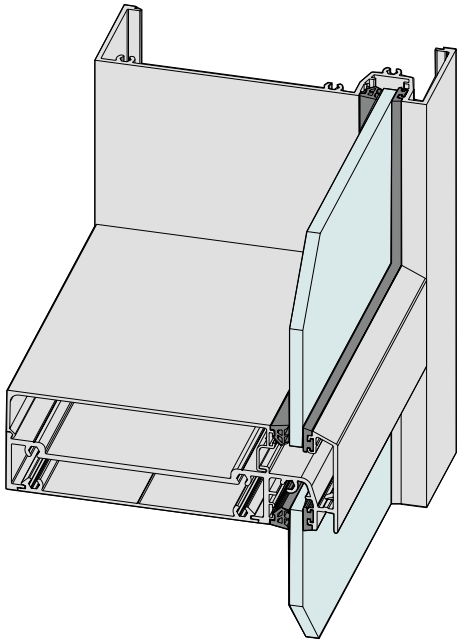
**Maximum Water**
600 Pa.

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 400.

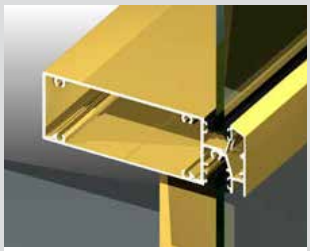
COMMERCIAL FRAMING | SERIES 606

# SINGLE GLAZED FrontGLAZE™ 150mm FRAMING

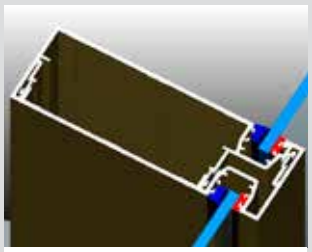


## KEY FEATURES

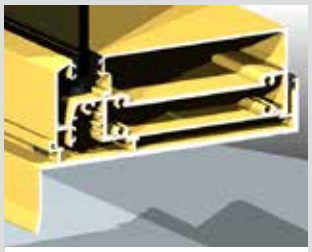
- Series 606 FrontGLAZE™ framing 150mm x 50mm with the glazing pocket close to the front face.
- Truly captive glazing wedge feature. A significant advantage in elevated situations where you will be able to glaze from the inside without scaffolding – if you select an internally beaded sill/transom.
- External wet top Silicone glazing also available.
- The drainage holes along the front face are concealed in the recess drip groove.
- Large range of transom options – internal or external glazed.
- Numerous custom designed extrusions to cater for specific applications. A range of sub-sills cover most installations.
- Sub-head and two piece sub-jambs.
- Numerous door thresholds including weather resisting thresholds for external and internal swing doors.
- Top hung and bottom rolling sliding door track systems.
- Compatible with Series 50, 51 and 52 doors.



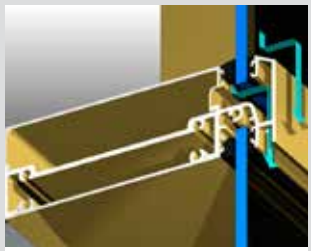
Various transoms including external glazed or internal glazed. Various transoms including externally glazed shown above. The illustration far right shows the internally beaded transom.



Expansion mullion shown above with extra weather leg behind glazing pocket, providing high water resistance. We can use silicone wet top on the outside in lieu of the captive wedge.



Sub-sill, sub-head and sub-jambs available. The sub-sill has additional support leg under the glass, designed to carry weight of heavy glass unit and prevent frame dishing.



Concealed drainage designed to shed water more efficiently and improve aesthetics without runs of visible holes along the face. Very high water performance greater than 600 Pa.

### GENERAL

**Max Panel Height**
Various

**Max Panel Width**
Various

**Max Glass Thickness**
10.38mm

**Frame Depth**
150mm

### ENERGY

**UW Range**
4.5-6.4

**SHGC Range**
0.33-0.74

### WEATHER

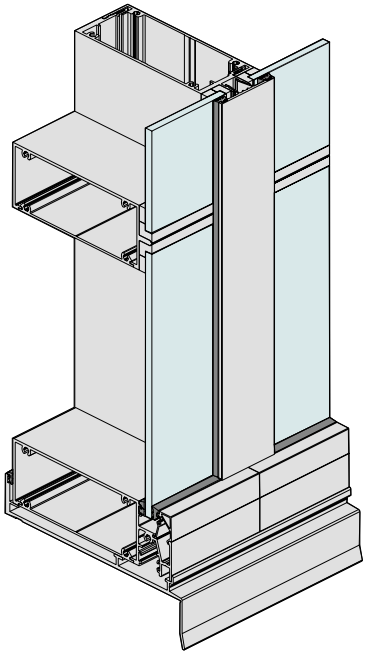
**Maximum Water**
600 Pa.

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be inline with Series 400.

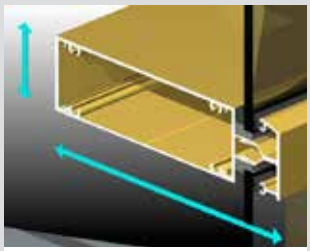
# FaceLINE™ 150mm FRAMING



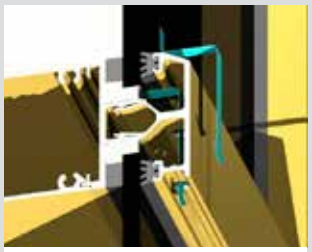


## KEY FEATURES

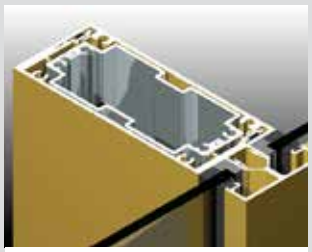
- Series 607 FaceLINE™ shopfront framing 150mm x 50mm with the glazing pocket close to the front face.
- We have designed this front cover framing system with a full depth perimeter frame. This allows us to install the frame into sub-frames without compromising the glazing covers.
- We offer a range of mullion and transom treatments from raised covers through flat covers to structural glazing (no covers).
- There are numerous custom designed extrusions to cater for specific applications. A range of sub-sills cover most installations.
- Sub-head and two piece sub-jambs that don't compromise the glazing system.
- Numerous door thresholds including weather resisting thresholds for external and internal swing doors.
- Compatible with Series 50, 51 and 52 doors.
- Suitable for 1 and 2-storey buildings.



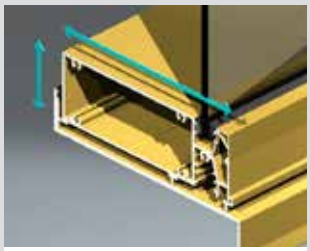
Consistent glazing line is a feature of all AWS Commercial products.



Concealed drainage holes are designed to shed water more efficiently.



Various mullion details for site wind load conditions.



Sub-sill shown above. The central support leg in sub-sill shown above helps support the weight of heavy glass units.

### GENERAL

**Max Panel Height**
Various

**Max Panel Width**
Various

**Max Glass Thickness**
10.38mm

**Frame Depth**
150mm

### ENERGY

**UW Range**
4.2-6.0

**SHGC Range**
0.27-0.76

### WEATHER

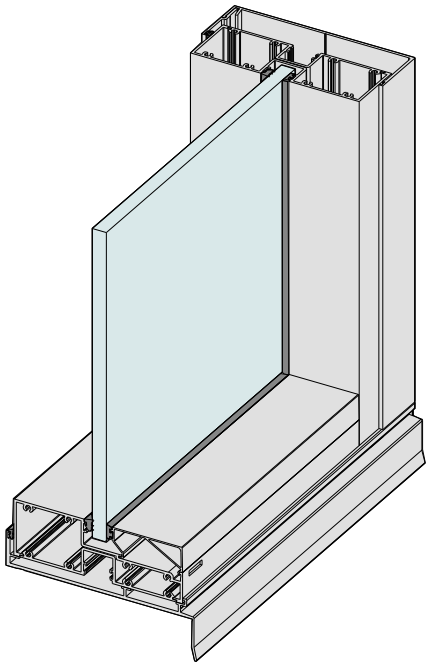
**Maximum Water**
600 Pa.

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 400.

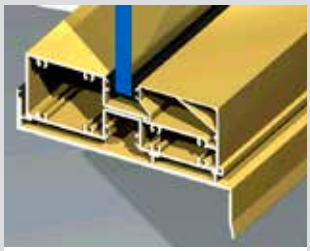
COMMERCIAL FRAMING | SERIES 620

# SINGLE GLAZED CentreGLAZE™ 150mm FRAMING

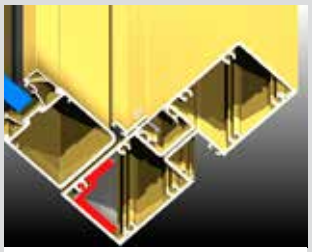


## KEY FEATURES

- Series 620 wide shopfront framing is 150mm thick by 50mm wide with a wide central glazing pocket to accept thick glass.
- We have included additional central screw ports to keep the joints tight and waterproof and support the weight of extra heavy glass units.
- True captive glazing wedge on one side. In elevated installations with bead on the inside at head this allows you to glaze and reglaze from inside, no need for scaffolding
- External wet top silicone glazing also available.
- There are several custom designed extrusions to cater for specific applications including sub-sills, sub-heads to allow for building settlement, two piece sub-jambs to simplify installation and hinged door thresholds.
- The sub-sill has central support leg to support the weight of the heavy glass panel and prevent sill dishing.
- Compatible with Series 52 doors.
- Centre pivot doors can be fitted into Series 624 with dedicated closer head/transom.

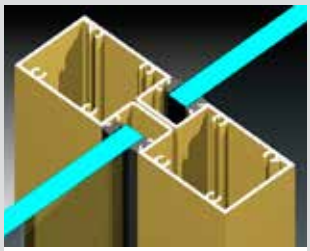


All 620 framing is designed to accept thick glass up to 15.38mm. The central support leg in sub-sill shown above helps support the weight of heavy glass units and prevent frame dishing.



Can accept all commercial hinged doors. Extra strength gained by hinge backing plate. Heavy hinged doors can be fitted with heavy duty adjustable hinges.

Frame designed to accept captive wedge or spacer. We can use Silicone wet top on the outside in lieu of the captive wedge.



Various mullion details for site wind load conditions. We recommend expansion mullions on long runs of framing (over 6m).

### GENERAL

**Max Panel Height**
Various

**Max Panel Width**
Various

**Max Glass Thickness**
15.50mm

**Frame Depth**
150mm

### ENERGY

**UW Range**
4.4-6.3

**SHGC Range**
0.23-0.72

### WEATHER

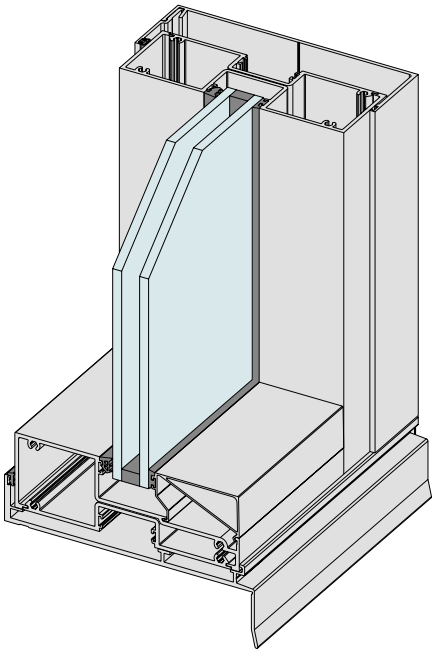
**Maximum Water**
600 Pa.

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 400.

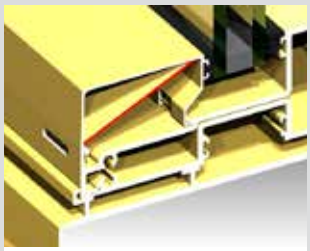
COMMERCIAL FRAMING | SERIES 624

# DOUBLE GLAZED CentreGLAZE™ 150mm FRAMING

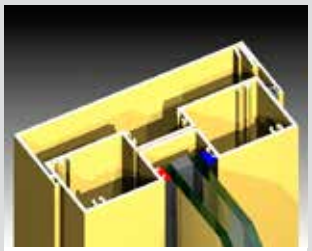


## KEY FEATURES

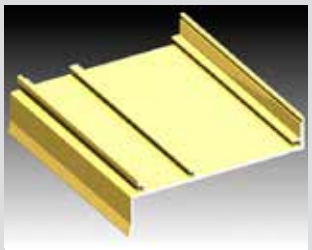
- Versatile 150mm CentreGLAZE™ framing designed to accept 28mm insulating glass units (IGUs).
- Glazing pocket delivers the required 12mm bite plus 4mm to cater for glass production and installation tolerances.
- True captive glazing wedge on one side. In elevated installations with bead on the inside at head this allows you to glaze and reglaze from inside, no need for scaffolding
- External wet top silicone glazing also available.
- Compatible with Elevate™ framing, and Series 52 doors.
- Snap-together and interlocking expansion mullions.
- Matching 50mm thick hinged, pivot or sliding door designed to accept double glazing and industry standard hardware.
- Two midrail sizes to choose from (125mm and 200mm).
- Concealed overhead transom also designed to accept 24mm IGUs. Centre pivot doors can be fitted into Series 624 with dedicated closer head/transom.
- We can insert double glazed awning sashes into the framing.



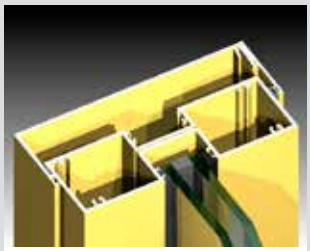
Sill beads are reinforced for extra strength and security.



Can accept both captive and roll-in wedges for the ease of site glazing. We can use silicone wet top on the outside in lieu of the captive wedge.



Specifically designed sub-sill with central support leg.



Sub-jambs and sub-heads designed for easy installation.

### GENERAL

**Max Panel Height**
Various

**Max Panel Width**
Various

**Max Glass Thickness**
28mm

**Frame Depth**
150mm

### ENERGY

**UW Range**
2.9 - 3.8

**SHGC Range**
0.22 - 0.65

### WEATHER

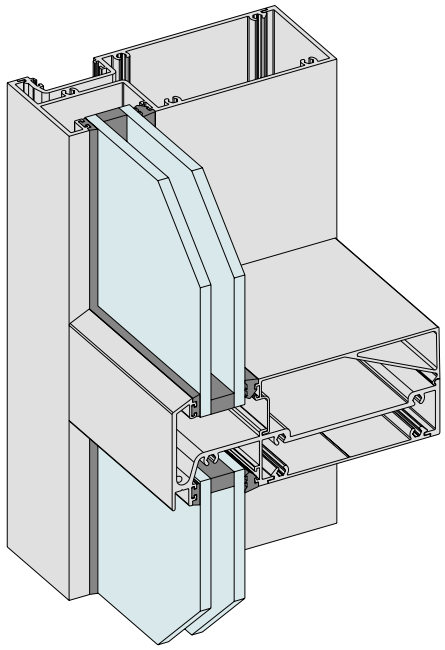
**Maximum Water**
600 Pa.

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 424.

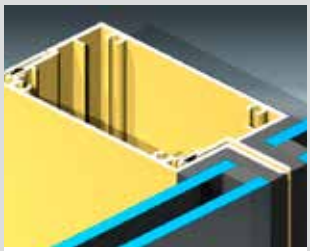
COMMERCIAL FRAMING | SERIES 626

# DOUBLE GLAZED FrontGLAZE™ 150mm FRAMING

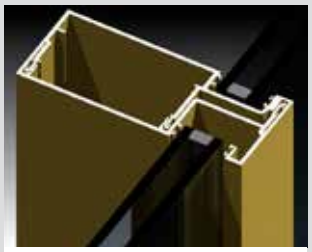


## KEY FEATURES

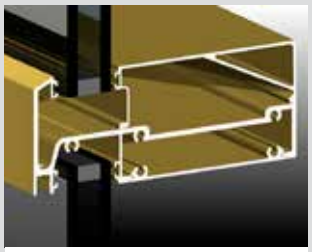
- Series 626 FrontGLAZE™ shopfront framing 150mm x 60mm with the glazing pocket close to the front face.
- The 28mm deep glazing pocket caters for glass installation and 12mm bite as required by IGU manufacturers.
- Reinforced tall glazing beads to tolerate high wind loads.
- True captive glazing wedge on one side. In elevated installations this allows you to glaze and reglaze from inside the building, no need for scaffolding – if you select the internally beaded sill/transom as shown left.
- External wet top silicone glazing also available.
- Drainage holes along the front face are concealed.
- We offer both internal or externally glazed transom/sills.
- Custom designed extrusions to cater for specific applications. A range of sub-sills cover most installations.
- Numerous door thresholds including weather resisting thresholds for external and internal swing doors.
- Compatible with Series 52 doors.



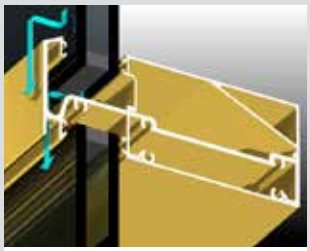
626 framing offers a structurally glazed option.



A variety of different framing options. We recommend expansion mullions on long runs of framing (over 6m).



Specifically designed transoms for varying applications and conditions.



Concealed drainage designed to shed water more efficiently. Very high water performance greater than 600 Pa.

### GENERAL

**Max Panel Height**
Various

**Max Panel Width**
Various

**Max Glass Thickness**
28mm

**Frame Depth**
150mm

### ENERGY

**UW Range**
2.7 - 3.7

**SHGC Range**
0.19 - 0.70

### WEATHER

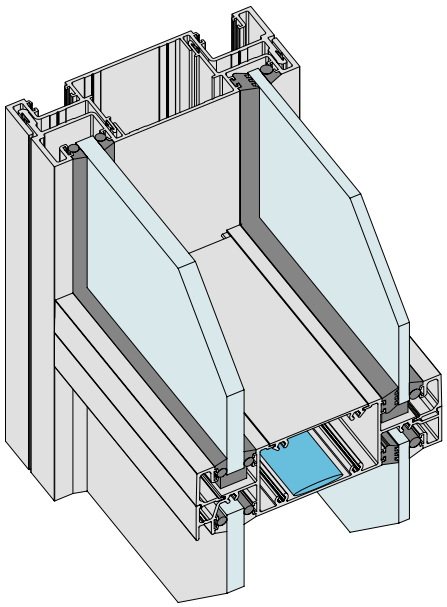
**Maximum Water**
600 Pa.

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 426.

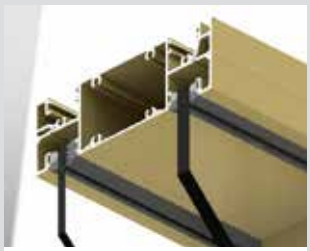
# SoundOUT™ FrontGLAZE™ FRAMING



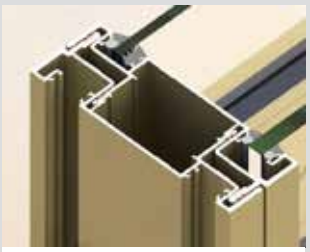


## KEY FEATURES

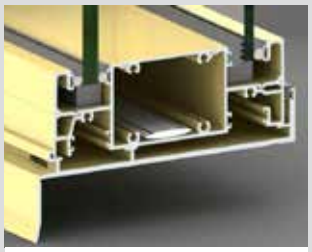
- Elevate™ SoundOUT™ FrontGLAZE™ shopfront framing system with 20.50mm wide glazing pocket is designed to accept glass up to 12.50mm thick with 10mm bite.
- The 24mm deep glazing pocket allows 20mm for pocketing the glass and 4mm for tolerances and installation clearance.
- The 150 x 50mm framing system is designed for sound reduction with glass on external and internal faces.
- Very high water resistance can be achieved. Has been successfully tested at 1275 Pa water resistance with standard interlocking mullion.
- Sound reduction numbers up to Rw 51.



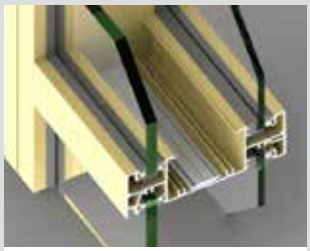
This 150 x 50mm framing system has been designed to give very high sound reduction, twin glazed with 100mm air gap between glass. Accepts glass up to 12.5mm thick.



Self-mating mullion with four full width interlocking legs. Deep/wide glazing pocket to comply with glass manufacturer tolerances.



Sill/transom has silica gel crystals inserted at the time of glazing to remove moisture from the trapped air cavity between the glass panels.



Sill/transom fillers stop short both ends to allow the silica gel to work.

### GENERAL

**Max Panel Height**
Various

**Max Panel Width**
Various

**Max Glass Thickness**
12.50mm

**Frame Depth**
150mm

### ENERGY

**UW Range**
2.6 - 3.2

**SHGC Range**
0.32 - 0.59

### WEATHER

**Maximum water**
1275 Pa

### ACOUSTICS

**12.5mm VLam Hush™ /12.5mm VLam Hush™**
51

**10.5mm VLam Hush™ /10.5mm Vlam Hush™**
50

**10.50mm VLam Hush™ / 6.5mm VLam Hush™**
50

### ACOUSTICS

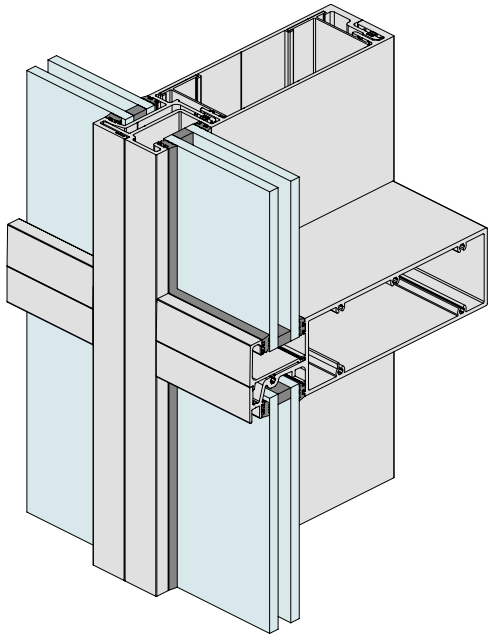
**6.5mm VLam Hush™/ 6.5mm VLam Hush™**
48

**10.38mm Lam/ 10.38mm Lam**
46

**6.38mm Lam/ 6.38 Lam**
43

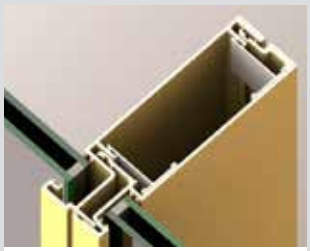
COMMERCIAL FRAMING | SERIES 936

# Double Glaze FrontGLAZE™ 225mm FRAMING

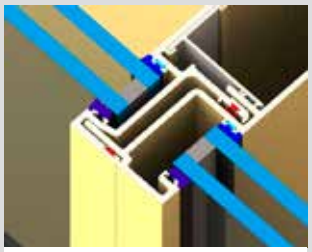


## KEY FEATURES

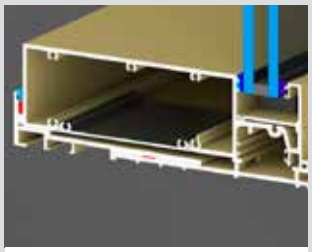
- Elevate™ Double glazed FrontGLAZE™ shopfront framing system with 36mm wide glazing pocket is designed to accept up to 30mm thick Insulating Glass Units (IGUs) with the required 12mm bite.
- Frames have been tested for compliance with Australian Standard AS2047. Achieved 1200 Pa. water resistance and compliance with air-conditioning requirement.
- The 225 x 60mm framing system is designed for high wind load areas with an extra strong interlocking mullion. The product is ideal for car showrooms, foyers and messanine installations.
- Mullions supported with heavy duty angle brackets.
- Heavy duty transom designed to carry heavy pieces of glass.
- Glazing pocket reducers allow thinner glass (as low as 6mm thick) to be installed.
- Framing will accept pivot swing doors using 150mm wide COC closer transom.
- Double glazed awning sashes inserts available.



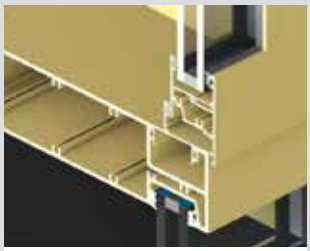
225mm x 60mm mullion is significantly stronger than Series 626.



Full width interlocking legs both sides of glazing pocket provides added strength and support for heavy double glazing up to 30mm.



We recommend all commercial framing systems are installed with sub-sill.The sill is fixed to to sub-sill for improved performance under ultimate negative wind loads.



Will accept double glazed awning window sashes.

### GENERAL

**Max Panel Height**
Various

**Max Panel Width**
Various

**Max Glass Thickness**
30mm

**Frame Depth**
225mm

### ENERGY

**UW Range**
3.2 - 6.8

**SHGC Range**
0.22 - 0.64

### WEATHER

**Maximum Water**
1200Pa.

### ACOUSTICS

This product has not been acoustics tested.

COMMERCIAL FRAMING | FEATURE PROJECT

# INNOVATION AT BEST

## ELEVATE™ FRAMING USED TO CREATE A SPACIOUS LIGHT FILLED LIBRARY & LEARNING CENTRE.

The city of Orange is located in the Central West region of New South Wales approximately 200 kilometres west of the bustling state capital, Sydney. Once known as a small, quiet country town, Orange is currently in the midst of a population boom with growth rates exceeding those of many major metropolitan centres. To address the needs of a growing community, changes to the city's facilities needed to occur. One of these facilities is the Orange Christian School Library. The school understood that there was a need for a new Library Learning Centre to ensure top notch facilities for their students.

Greg Swankie of Geolyse Orange Architects worked alongside builders Hines Constructions to create a new and dynamic venue for Orange Christian School. The school had a strict brief which was to ensure the new Library Learning Centre propelled the school into the 21st century, with an enhanced learning environment for all of their students. It was important for the school that the Library embraced the latest technology and created an innovative facility that engaged both students and staff. Greg Swankie at Geolyse Orange Architects came up with a unique design that presented a number of opportunities for attractive and functional learning spaces.

The design incorporated a large glass wall that allowed the school to take advantage of the brilliant landscape that surrounds them. The design incorporated large expanses of glazing as well as uniquely shaped frames, so an experienced window manufacturer was required to create the windows with the same perfection the rest of the building was created with. Taberner Glass was used for the job due to their exceptional 85 years of experience in the window manufacturing industry as well as their ability to custom make frames with sharp, unconventional angles. The Elevate™ Aluminium Systems Series 426 FrontGLAZE™ framing also enabled Taberner's success with this project. The ability of the frames to be double glazed appealed to the architect, builder and client alike. The completed project was a success with Taberner Glass being congratulated on their ability to create such unique frames.

The striking look of the windows fits well with the architecturally inspired new Library Learning Centre. Light now spills into the new Library which allows for a bright, cheerful learning environment. The large glass wall promoted a comfortable and relaxing space for students as well as staff. High performance insulated glass units were used throughout the project to maximise thermal efficiency. Thermal efficiency also allows for less artificial heating and cooling methods, therefore reducing electricity consumption. The entire project has been completed to perfection and is now home to an inspiring learning environment for the students at Orange Christian School.

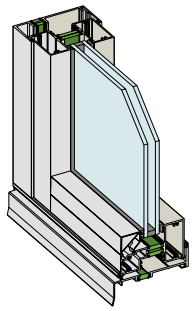
Fabricator: Taberner Glass

Architect: Geolyse Orange Architects

Builder: Hines Constructions

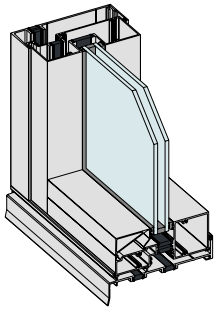
ELEVATE™
# COMMERCIAL ThermalHEART®

Photo courtesy of Hanlon Windows Australia



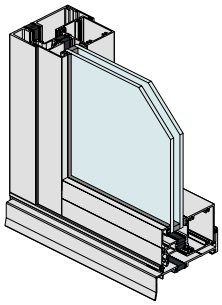


Thermally Broken 100mm CentreGLAZE™ Framing



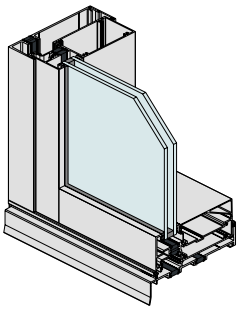


Thermally Broken 150mm CentreGLAZE™ Framing



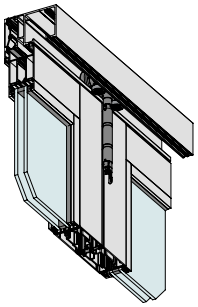


Thermally Broken 100mm FrontGLAZE™ Framing



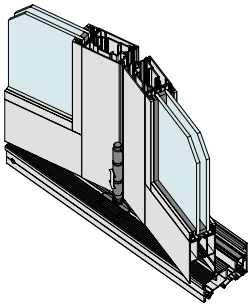


Thermally Broken 150mm FrontGLAZE™ Framing



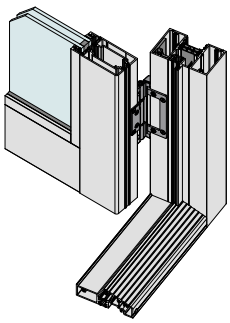


Thermally Broken Bi-fold Door (Top Hung)



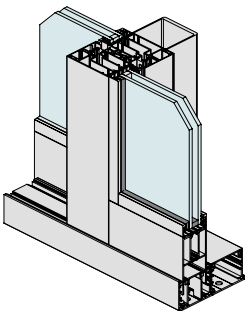


Thermally Broken Bi-fold Door (Bottom rolling)





Thermally Broken Door (50mm thick)





Thermally Broken Door System (50mm thick)

Dedicated commercial framing incorporating ThermalHEART® technology to create a thermal break in the aluminium frame. This break dramatically improves the thermal performance of the system minimising the transfer of heat and cold between the internal and external frame elements.

Developed in response to growing environmental concern and the requirement for energy efficient building designs, Elevate™ Commercial Framing with ThermalHEART® offers significantly improved thermal performance and energy efficiency.

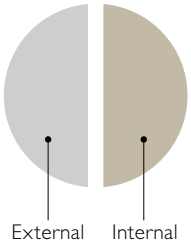
Ideal for those applications where minimising cold and heat transfer is a priority, this innovative range is 24% more thermally efficient than standard double glazed commercial framing.

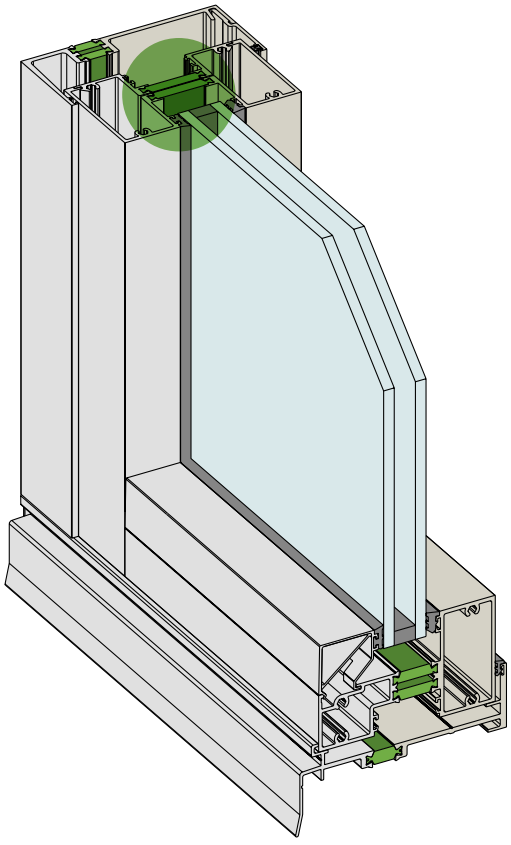
New government requirements on energy efficiency in commercial buildings make choosing the right building products essential. If you want to minimise cold and heat transfer whilst maximising efficiency and comfort, our ThermalHEART® framing systems are the perfect solution.

ThermalHEART®is the technology that lies at the core of a new thermally-efficient range of commercial aluminium framing systems developed by AWS. In fact, the ThermalHEART® Commercial range is 24% more thermally efficient than standard aluminium commercial framing.

### Dual Colour Option

The unique ThermalHEART® joining method allows for one finish on the outside and one on the inside, to complement both internal and external palettes.

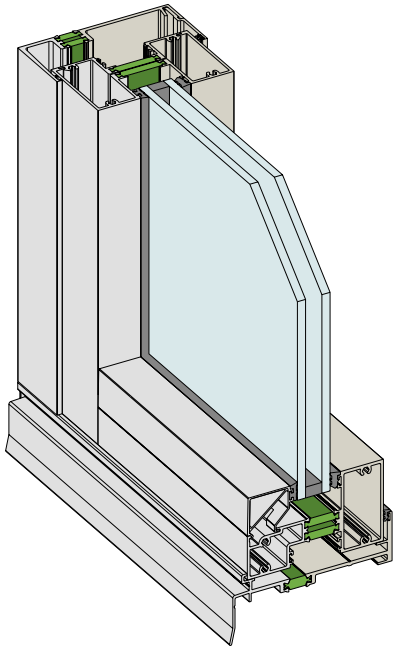


The thermal break in ThermalHEART® extrusions is created using a polyamide strip. Polyamide is an excellent thermal insulator. It has very similar expansion rates to aluminium, ensuring ThermalHEART® extrusions maintain excellent structural integrity.

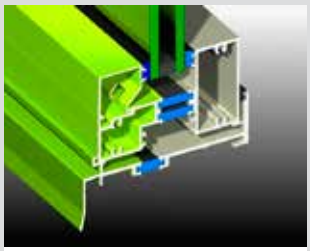
COMMERCIAL ThermalHEART® | SERIES 804

# THERMALLY BROKEN 100mm CentreGLAZE™ FRAMING

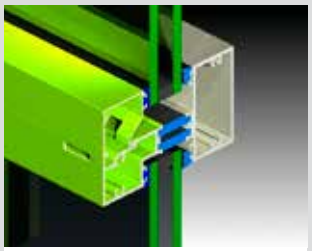


## KEY FEATURES

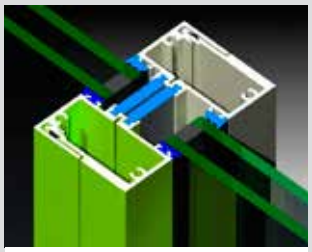
- Incorporating ThermalHEART® technology, Series 804 delivers excellent thermal performance and is ideal for commercial and high-end residential applications.
- The 28mm deep glazing pocket caters for glass installation and 12mm bite as required by IGU manufacturers.
- Reinforced tall glazing bead at sill tolerates high negative wind loads.
- True captive glazing wedge on the outside reduces the chance of vandalism.
- External wet top silicone glazing also available.
- Glazing wedges are recessed into the framing for a clean aesthetic appearance.
- Wide range of thermally broken sub-frames to cover most installations, including sub-sills with integrated nailing fin ideal for residential installations.
- Internal and external swing hinged door thresholds are also thermally broken.
- 50mm thick doors designed to accept wide backset locks.



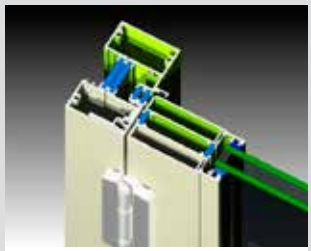
Sub-sill designed to support heavy double glazed frames and maintain the thermal break – dual colour option.



Designed to accept 24mm IGUs. Glazing pocket offers the required 12mm glass bite on IGUs. A variety of pocket closer extrusions are available should thinner glass be required.



We offer both snap-together and expansion mullions. We recommend expansion mullions on long runs of framing (over 6m).



Will accept hinged, pivot or sliding doors. Doors are 50mm thick. Heavy duty adjustable hinges with extruded aluminium backing plates designed to support heavy door panels. The wide stiles allow us to fit wide backset locks.

### GENERAL

**Max Panel Height**
Various

**Max Panel Width**
Various

**Max Glass Thickness**
28mm

**Frame Depth**
100mm

### ENERGY

**UW Range**
1.9-3.0

**SHGC Range**
0.29-0.66

### WEATHER

**Maximum Water**
600 Pa.

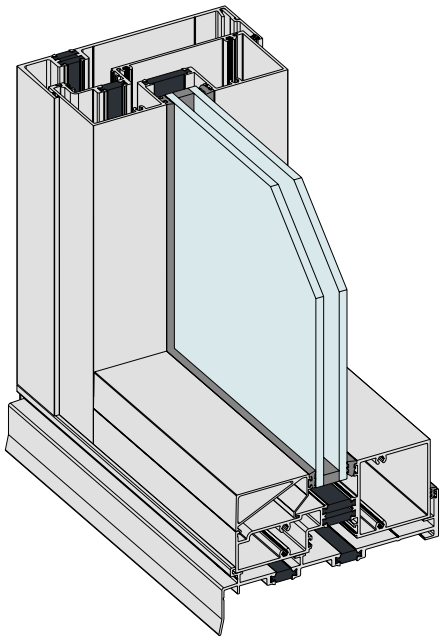
### ACOUSTICS

**8.5mm VLam Hush™ /10mm Air/6.5 Vlam Hush™**
39 (-1;-6)

**6.5mm VLam Hush™ /12mm Air/6mm Tgh**
37 (-1;-5)

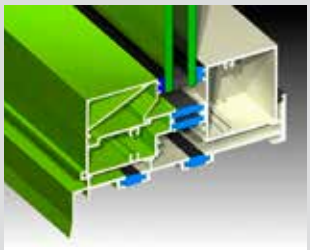
COMMERCIAL ThermalHEART® | SERIES 806

# THERMALLY BROKEN 150mm CentreGLAZE™ FRAMING

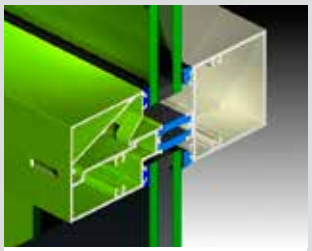


## KEY FEATURES

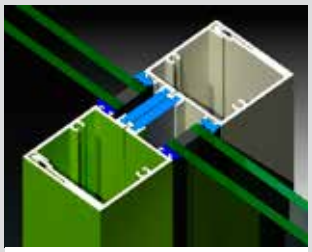
- Incorporating ThermalHEART® technology, Series 806 delivers excellent thermal performance and is ideal for tall commercial frames.
- The 28mm deep glazing pocket caters for glass installation and 12mm bite as required by IGU manufacturers.
- Reinforced tall glazing bead at sill tolerates high negative wind loads.
- True captive glazing wedge on the outside reduces the chance of vandalism.
- External wet top silicone glazing also available.
- Glazing wedges are recessed into the framing for a clean aesthetic appearance.
- Wide range of thermally broken sub-frames to cover most installations, including sub-sills with integrated nailing fin ideal for residential installations.
- Internal and external swing hinged door thresholds are also thermally broken.
- 50mm thick doors designed to accept wide backset locks.



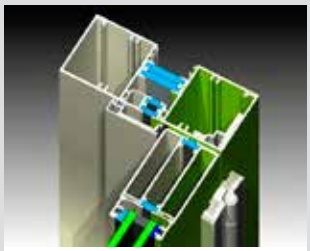
Sub-sill designed to support heavy double glazed frames and maintain the thermal break – dual colour option. One of the main features with this sub-sill is the central support directly under the glass.



Designed to accept 24mm IGUs. Glazing pocket offers 12mm glass bite on Insulating Glass Units (IGUs). A variety of pocket closer extrusions are available should monolithic glass be required.



We offer both snap-together and expansion mullions. We recommend expansion mullions on long runs of framing (over 6m).



Will accept hinged, pivot or sliding doors. Doors are 50mm thick. Heavy duty adjustable hinges with extruded aluminium backing plates designed to support heavy door panels. The wide stiles allow us to fit wide backset locks.

### GENERAL

**Max Panel Height**
Various

**Max Panel Width**
Various

**Max Glass Thickness**
28mm

**Frame Depth**
150mm

### ENERGY

**UW Range**
2.1-3.0

**SHGC Range**
0.26-0.61

### WEATHER

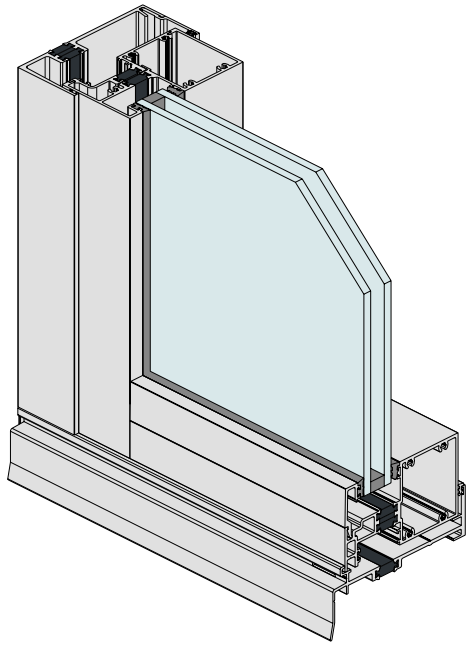
**Maximum Water**
600 Pa.

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 804.

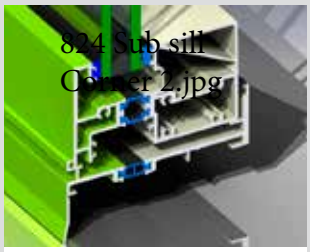
COMMERCIAL ThermalHEART® | SERIES 824

# THERMALLY BROKEN 100mm FrontGLAZE™ FRAMING

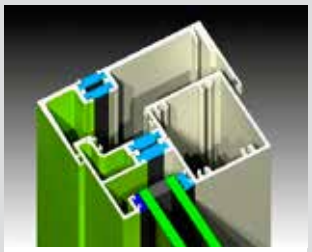


## KEY FEATURES

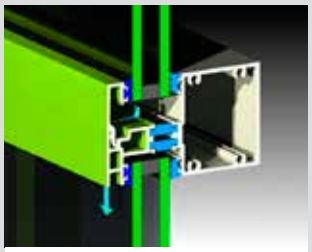
- Incorporating ThermalHEART® technology, Series 824 delivers excellent thermal performance and is ideal for commercial and high-end residential applications.
- The 28mm deep glazing pocket caters for glass installation and 12mm bite as required by IGU manufacturers.
- Reinforced tall glazing bead at sill tolerates high negative wind loads.
- Available as internally glazed or externally glazed.
- True captive glazing wedge allows reglazing from inside – ideal in elevated applications and offers increased security.
- External wet top silicone glazing also available.
- Glazing wedges are recessed for a clean appearance.
- Wide range of thermally broken sub-frames, including sub-sills with integrated nailing fin ideal for residential installations.
- Internal and external swing hinged door thresholds.
- 50mm thick doors designed to accept wide backset locks.



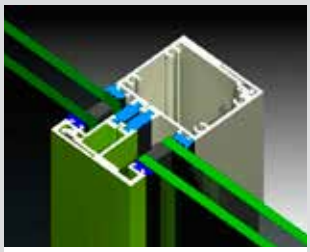

Sub-sill designed to support heavy double glazed frames and maintain the thermal break – dual colour option. We offer FrontGLAZE™ in both internal and external glazing.



Sub-jamb available to make installation easier. The sub-jamb has pressure bead on the inner face.



Designed to accept 24mm IGUs. Glazing pocket offers the required 12mm glass bite on IGUs. A variety of pocket closer extrusions are available should thinner glass be required.



We offer both snap-together and expansion mullions. We recommend expansion mullions on long runs of framing (over 6m).

### ENERGY

**Max Panel Height**
Various

**Max Panel Width**
Various

**Max Glass Thickness**
28mm

**Frame Depth**
100mm

### ENERGY

**UW Range**
2.3-3.1

**SHGC Range**
0.21-0.62

### WEATHER

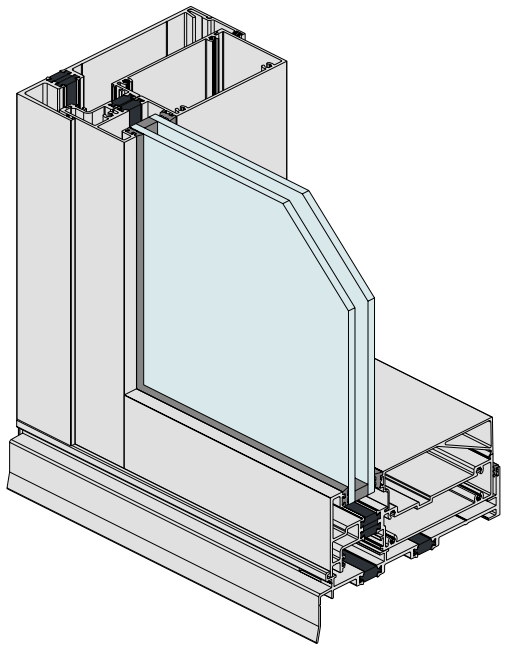
**Maximum Water**
600 Pa.

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 804.

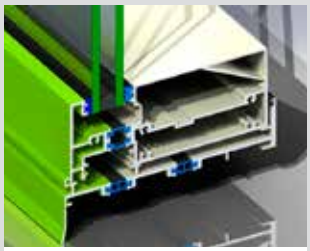
COMMERCIAL ThermalHEART® | SERIES 826

# THERMALLY BROKEN 150mm FrontGLAZE™ FRAMING

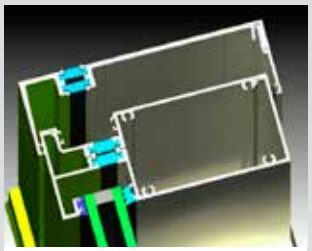


## KEY FEATURES

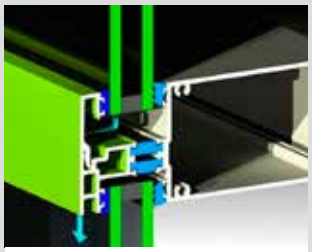
- Incorporating ThermalHEART® technology, Series 826 delivers excellent thermal performance and is ideal for tall commercial frames.
- The 28mm deep glazing pocket caters for glass installation and 12mm bite as required by IGU manufacturers.
- Available as internally glazed or externally glazed.
- True captive glazing wedge allows reglazing from inside – ideal in elevated applications. The captive wedge also offers increased security.
- Glazing wedges are recessed into the framing for a clean aesthetic appearance.
- Wide range of thermally broken sub-frames to cover, including sub-sills with integrated nailing fin ideal for residential installations.
- Internal and external swing hinged door thresholds.
- 50mm thick doors designed to accept wide backset locks.



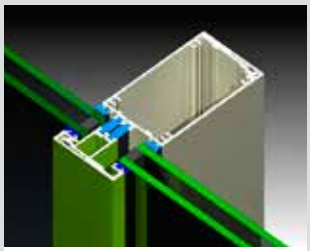
Sub-sill designed to support heavy double glazed frames and maintain the thermal break – dual colour option. We offer FrontGLAZE™ in both internal or external glazing.



Sub-jamb available to make installation easier. The sub-jamb has pressure bead on the inner face.



Designed to accept 24mm IGUs. Glazing pocket offers the required 12mm glass bite on Insulating IGUs. A variety of pocket closer extrusions are available should thinner glass be required.



We offer both snap-together and expansion mullions. We recommend expansion mullions on long runs of framing (over 6m).

### GENERAL

**Max Panel Height**
Various

**Max Panel Width**
Various

**Max Glass Thickness**
28mm

**Frame Depth**
150mm

### ENERGY

**UW Range**
2.2-3.2

**SHGC Range**
0.21-0.62

### WEATHER

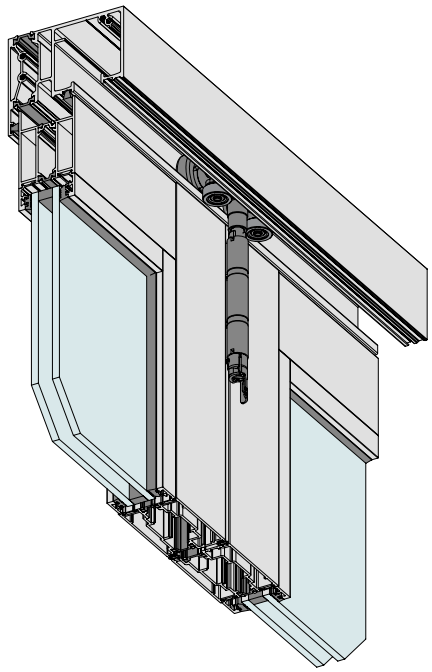
**Maximum Water**
600 Pa.

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 804.

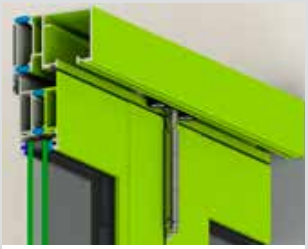
COMMERCIAL ThermalHEART®| SERIES 831

# THERMALLY BROKEN BI-FOLD DOOR (TOP HUNG)

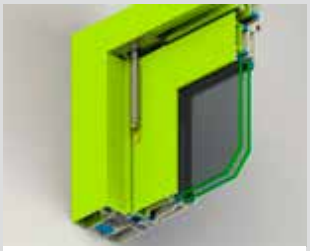


## KEY FEATURES

- Top hung bi-fold door designed to suit ThermalHEART® 100mm x 50mm CentreGLAZE™ and FrontGLAZE™ framing.
- Frames can also be fabricated with 17mm Slimline jambs.
- 50mm thick door panel accepts thick glass and can achieve large panel sizes.
- Wide door stiles accept 40mm backset locks that allow easier access to the lock cylinder.
- The standard locks for Series 831 are lever compression locks with ICON™ 316 stainless steel furniture.
- AWS Centor™ twin stainless steel roller bearings running in heavy duty dual overhead tracks. The E3 rollers will support panels up to 80kg.
- There is a variety of sill options to choose from. Weather resisting through to recessed sill channel.
- Extra deep glazing beads designed to give 12mm glass bite and 15mm glass cover with 4mm installation/fabrication tolerance.



Top-hung rollers designed to carry heavy panels up to 80kg. Rollers can be adjusted up or down.



Doors can be adjusted up or down for head or sill clearance.

Bi-parting rollers nest snugly into custom heady duty head.

Accepts 316 grade stainless steel ICON™ bi-fold door locks.

### GENERAL

**Max Panel Height**
3000mm

**Max Panel Width**
1000mm

**Max Glass Thickness**
28mm

**Frame Depth**
100mm

### ENERGY

**UW Range**
2.4-3.0

**SHGC Range**
0.21-0.50

### WEATHER

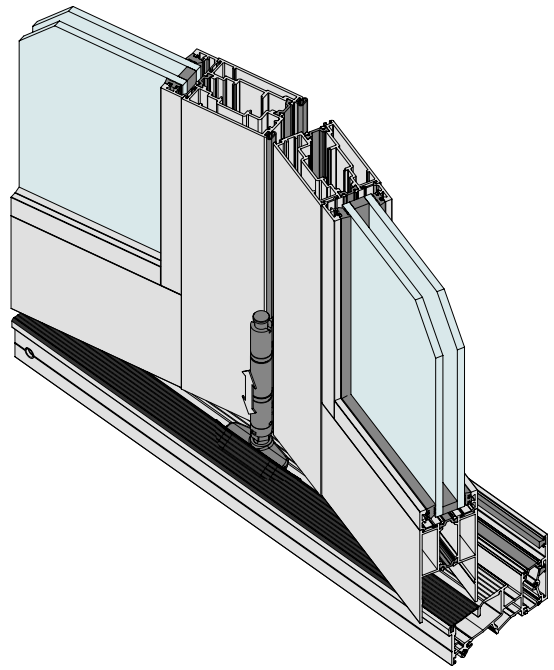
**Maximum Water**
200 Pa.

### ACOUSTICS

This product has not been acoustics tested.

COMMERCIAL ThermalHEART® | SERIES 832

# THERMALLY BROKEN BI-FOLD DOOR (BOTTOM ROLLING)

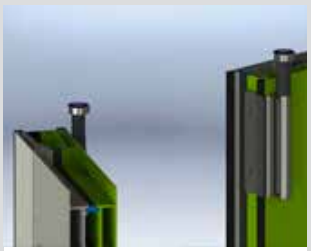


## KEY FEATURES

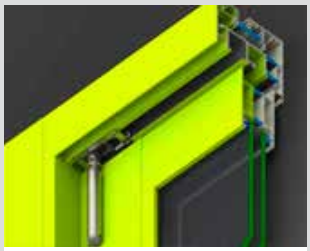
- Bottom rolling commercial bi-fold door system designed to suit ThermalHEART® 100mm x 50mm CentreGLAZE™ and FrontGLAZE™
- Frames can also be fabricated with 17mm Slimline jambs.
- 50mm thick door panels accept thick glass and can achieve very large panel sizes.
- Wide door stiles accept 40mm backset locks that allow easier access to the lock cylinder.
- The standard locks for Series 832 are lever compression locks with ICON™ 316 stainless steel furniture.
- AWS/Centor™ quad stainless steel roller bearings running in heavy duty concealed sill track. The F3 rollers will support panels up to 80Kg.
- Rollers and pivots can be height adjusted as required.
- There is a variety of sill options to choose from. Weather resisting and flush.
- True French meeting stiles for type BFD3+1 doors.

Custom extruded flexible cover flap keeps dust and water out of track.

Heavy duty rollers will support panels up to 80kg



Stainless steel floating head guide running in rigid PVC sleeve to reduce noise.



Hinges can be adjusted sideways, up or down.

### GENERAL

**Max Panel Height**
3000mm

**Max Panel Width**
1000mm

**Max Glass Thickness**
28mm

**Frame Depth**
100mm

### ENERGY

**UW Range**
2.4-3.0

**SHGC Range**
0.21-0.50

### WEATHER

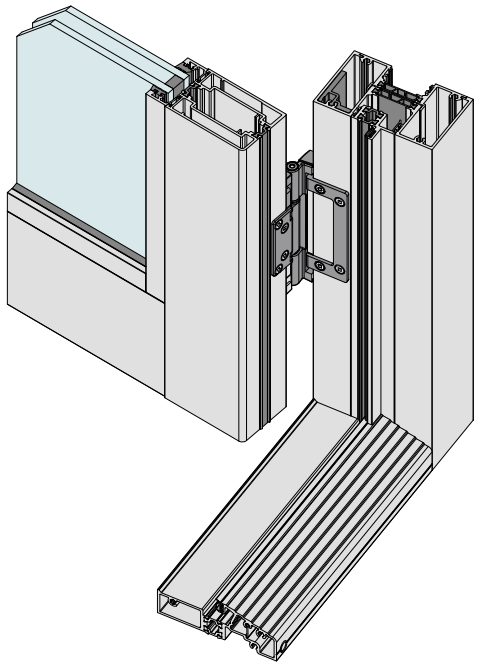
**Maximum Water**
200 Pa.

### ACOUSTICS

This product has not been acoustics tested.

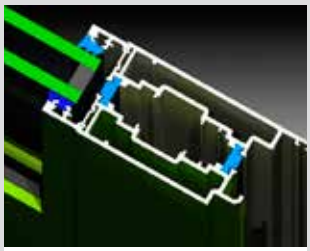
COMMERCIAL ThermalHEART® | SERIES 852H

# THERMALLY BROKEN HINGED DOOR

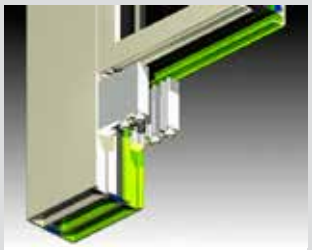


## KEY FEATURES

- Incorporating ThermalHEART® technology, Series 852 delivers excellent thermal performance and is ideal for commercial and high-end residential applications.
- Incorporates fully beaded 50mm thick heavy duty door stiles and rails designed to accept 24mm IGUs.
- Door stiles have been designed to accept wide backset (34mm and 38mm) locks. The greater the backset, the easier it is to access the key.
- Double glazed hinged doors will be heavy and for this reason we offer an adjustable heavy duty hinge.
- Captive co-extruded glazing wedge option (illustrated) reduces the chance of vandalism.
- Available as hinged or pivot configuration with various threshold options.
- Top and bottom rails are secured to stiles with heavy duty spigot fixed to thick backing plate with high tensile bolts.

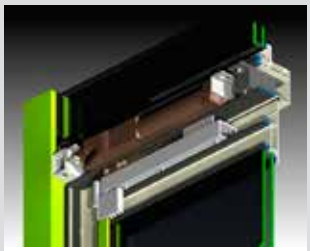


Series 852 doors have several wide door stiles to choose from, including true French meeting stiles.



Commercial doors are only as good as the joinery system. Series 852 doors have custom extruded aluminium spigots and backing plates that ensure the joint between the stiles and rails stays tight.

The doors have been designed to accept a heavy adjustable hinge. Screw cover plates removed to show the adjustment screws.



Custom thermally broken head and transom to accept COC cover and doors.

### GENERAL

**Max Panel Height**
2800mm

**Max Panel Width**
1000mm

**Max Glass Thickness**
28mm

**Frame Depth**
50mm

### ENERGY

**UW Range**
2.6-3.4

**SHGC Range**
0.16-0.45

### WEATHER

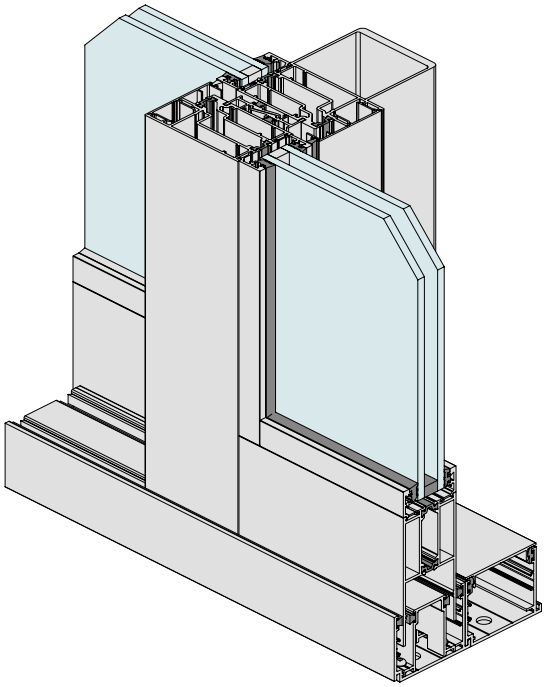
Weather performance of this system will depend upon selected framing, configuration and sill. For more information contact AWS.

### ACOUSTICS

This product has not been acoustics tested.

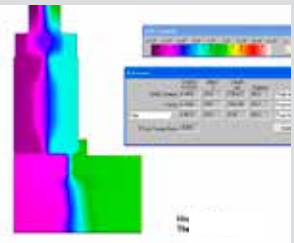
COMMERCIAL ThermalHEART® | SERIES 852S

# THERMALLY BROKEN SLIDING DOOR

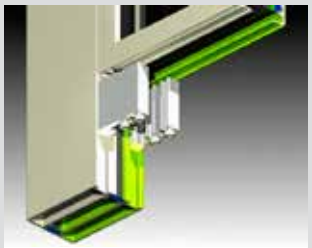


## KEY FEATURES

- Incorporating ThermalHEART® technology, Series 852 delivers excellent thermal performance and is ideal for commercial and high-end residential applications.
- Incorporates fully beaded 50mm thick heavy duty door stiles and rails designed to accept 24mm IGUs.
- Door stiles have been designed to accept wide backset (34mm and 38mm) locks. The greater the backset, the easier it is to access the key.
- Double glazed hinged doors will be heavy and for this reason we offer an adjustable heavy duty hinge.
- Captive co-extruded glazing wedge option (illustrated) reduces the chance of vandalism.
- Available as sliding or stacking panels.
- Heavy duty bottom rolling running gear or alternative Centor E3 top-hung rollers deliver smooth reliable operation.
- Top and bottom rails are secured to stiles with heavy duty spigot fixed to thick backing plate with high tensile bolts.



ThermalHEART™ frames perform significantly better than traditional aluminium frames.



Commercial doors are only as good as the joinery system. Series 852 doors have custom extruded aluminium spigots and backing plates that ensure the joint between the stiles and rails stays tight.

The wide stiles allow us to fit extra wide 34mm backset mortice locks.

Thermally broken top-hung sliding doors running on E3 quad rollers are easy to open and close.

### GENERAL

**Max Panel Height**
2800mm

**Max Panel Width**
2500mm

**Max Glass Thickness**
28mm

**Frame Depth**
50mm

### ENERGY

**UW Range**
2.6-3.4

**SHGC Range**
0.16-0.45

### WEATHER

Weather performance of this system will depend upon selected framing, configuration and sill. For more information contact AWS.

### ACOUSTICS

This product has not been acoustics tested.

## How ThermalHEART® Performs

The following tables are extracts from the AWS product listings on the WERS certified products database. They illustrate the significant performance gains achieved by ThermalHEART®systems.

| SERIES 400 CENTREGLAZE™ FRAMING – NON-THERMALLY BROKEN SINGLE GLAZE | | | | |
|---|---|---|---|---|
| Window ID | Glass Type | Uw | SHGCw | Tvw |
| AWS-027-02 | 6SnClr | 4.6 | 0.54 | 0.60 |
| AWS-027-12 | 6.38CPClr | 4.2 | 0.61 | 0.73 |

WERS data for a typical non-thermally broken CentreGLAZE™ commercial framing system with a common monolithic glass type – this glass and frame combination achieves a U-Value of 3.9.

| SERIES 424 CENTREGLAZE™ FRAMING – NON-THERMALLY BROKEN DOUBLE GLAZE | | | | |
|---|---|---|---|---|
| Window ID | Glass Type | Uw | SHGCw | Tvw |
| AWS-028-10 | 6.38CPClr/12Ar/6 | 2.7 | 0.54 | 0.64 |
| AWS-028-14 | 6.38CPGy/12Ar/6 | 2.7 | 0.37 | 0.30 |
| AWS-028-26 | 6EVanGy/12Ar/6 | 2.8 | 0.30 | 0.25 |
| AWS-028-18 | 6.38SnGy/12Ar/6 | 2.9 | 0.31 | 0.25 |
| AWS-028-09 | 6.38CPClr/12/6 | 2.9 | 0.54 | 0.64 |
| AWS-028-13 | 6.38CPGy/12/6 | 2.9 | 0.37 | 0.30 |

WERS data for a typical non-thermally broken CentreGLAZE™ double glazed commercial framing system with a variety of glass combinations – this system achieves a U-Value of 2.5.

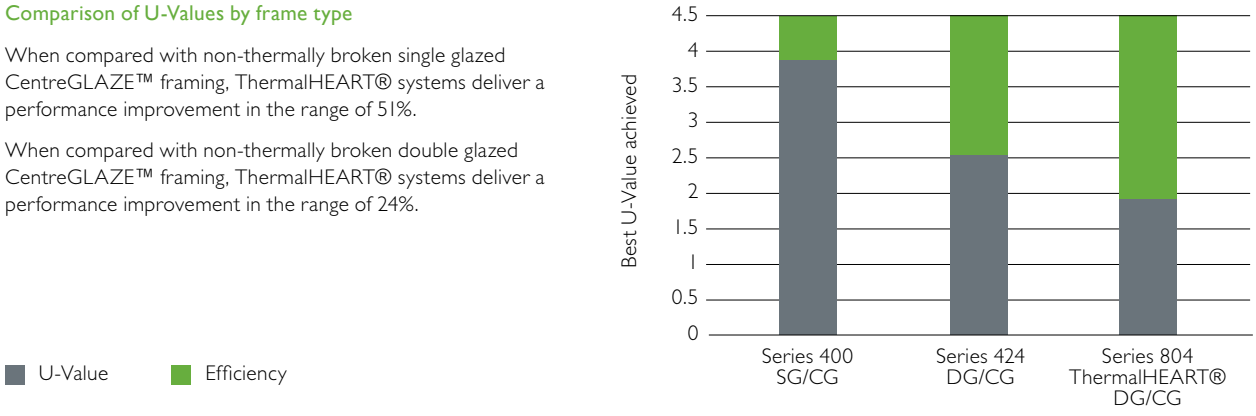
| SERIES 804 THERMALHEART® CENTREGLAZE™ FRAMING DOUBLE GLAZE | | | | |
|---|---|---|---|---|
| Window ID | Glass Type | Uw | SHGCw | Tvw |
| AWS-054-06 | 6.38CPClr/12Ar/6 | 1.9 | 0.51 | 0.62 |
| AWS-054-04 | 6.38CPGy/12Ar/6 | 1.9 | 0.35 | 0.29 |
| AWS-054-17 | 6EVGy/12Ar/6 | 2.0 | 0.28 | 0.25 |
| AWS-054-15 | 6.38SnGy/12Ar/6 | 2.1 | 0.29 | 0.24 |
| AWS-054-05 | 6.38CPClr/12/6 | 2.1 | 0.51 | 0.62 |
| AWS-054-03 | 6.38CPGy/12/6 | 2.1 | 0.36 | 0.29 |

WERS data for a ThermalHEART® CentreGLAZE™ system using the same glass alternatives as demonstrated in the previous table. This system achieves a U-Value of 1.9.

## Comparison of U-Values by frame type

When compared with non-thermally broken single glazed CentreGLAZE™ framing, ThermalHEART® systems deliver a performance improvement in the range of 51%.

When compared with non-thermally broken double glazed CentreGLAZE™ framing, ThermalHEART® systems deliver a performance improvement in the range of 24%.



# THE FLANNERY CENTRE



## THERMALHEART™ SYSTEMS ENSURE SUSTAINABILITY REQUIREMENTS ARE MET

With the help of the Federal Government, Skillset, one of Australia's largest Group Training organisations, has created a world-class green skills and sustainability centre in the New South Wales Central Tablelands, in Bathurst.

The Flannery Centre, named after renowned environmental advocate and 2007 Australian of the Year Tim Flannery, was built under the Green Star program run by the Green Building Council of Australia. Crawford Architects were appointed with the significant task of designing a sustainable, practical and memorable architectural work. It is now the home of education in sustainability for the region, teaching and showcasing leading edge sustainable building solutions to the problems that building professionals face today and will face well into the future.

Built with a reduced 'ecological footprint', the result is a building with a remarkably low energy demand for heating, cooling and lighting. The brief for the building was simple. To create a green skills and sustainability centre for apprentices in regional Australia, with an all-encompassing design that promotes biodiversity, encourages recycling, adopts numerous water conservation techniques, has a reduced reliance on energy sourced from fossil fuels and limits soil-site displacement. The paramount building requirement was to implement sustainable building techniques, with corresponding appropriate material and product selections that assist in the ongoing endeavour of ensuring the stock of natural resources is managed. Reverse veneer construction detailing, rammed earth walls and commercial thermally broken window frames are all contributing techniques and systems implemented in the building by Crawford Architects' Director Paul Godsell, to ensure The Flannery Centre maintains its exceptional sustainable and green rating.

Every part of The Flannery Centre's envelope fabric was required to have outstanding thermal performance – the glazing solution was no exception. The building required a large number of aluminium windows and doors, all in varying sizes and shapes. The glazing brief was a product that was to be thermally efficient, durable, aesthetically satisfying, and matched the modern appearance of the rest of the building – an interpretation of the rural shed – split with galleries and a student hub. AWS's ThermalHEART™ range of thermally broken aluminium windows and doors was chosen for the job.

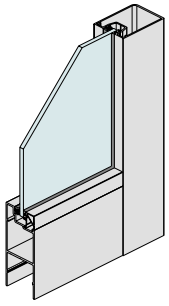
Bathurst Glass Service, an experienced AWS fabricator was chosen to supply and install the aluminium windows and doors throughout the building due to its reputation for high quality products. The completed project is a building with a reduced ecological footprint and a dramatically low energy demand.

Architect: Crawford Architects

Fabricator: Bathurst Glass Service

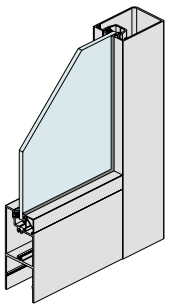
ELEVATE™
# COMMERCIAL SERIES


Photo courtesy of Superior Windows



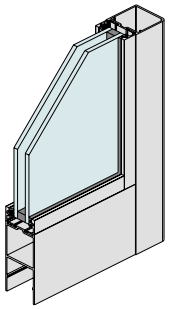


Commercial Door – Single Glazed
(Heavy-duty spigot joinery)



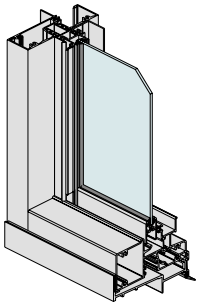


Commercial Door



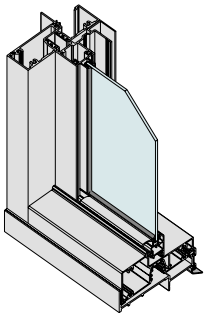


Commercial Door – Double Glazed
(Heavy-duty spigot joinery)



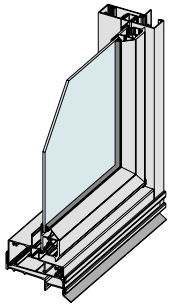


Commercial Sliding Window





Commercial Double-Hung Window

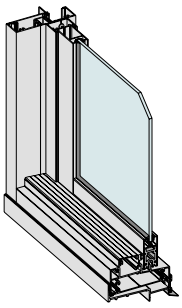




Commercial Awning Window

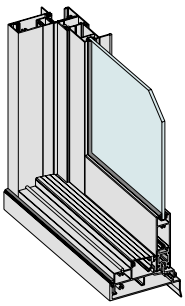
The Elevate™ Commercial Series offers a selection of locally designed and tested dedicated commercial systems. These systems were developed for use in commercial, institutional and light industrial applications and offer economical, high-performance glazing solutions. Designed to integrate seamlessly with Elevate™ Commercial framing suites, the range includes sliding, awning, and double-hung windows along with sliding and hinged doors.

Commercial Series window and door systems can be used in conjunction with Commercial Framing and Architectural Series systems to achieve your ideal glazing solution.



SERIES 461 110

Apartment Sliding Window

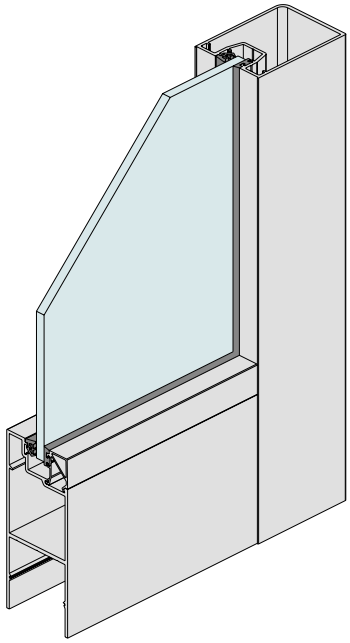


SERIES 471 111

Apartment Sliding Door

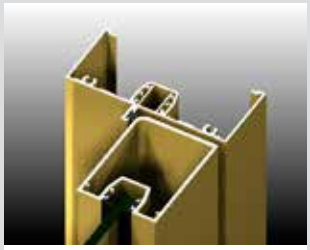
COMMERCIAL SERIES | SERIES 50

# COMMERCIAL DOOR (SPIGOTED)

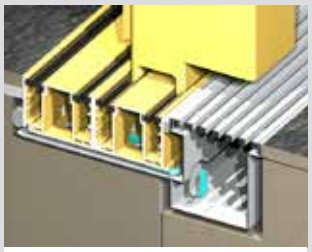


## KEY FEATURES

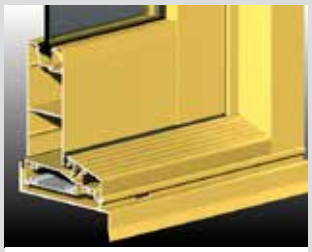
- Series 50 doors with 50mm thick stiles are significantly stronger than industry standard 44mm thick doors.
- 50mm thick doors are ideal for overheight doors.
- Series 50 doors have removable snap-on glazing beads on horizontals and wraparound stiles.
- Stile to rail joint is securely fixed with custom heavy duty spigot assembly.
- Horizontal rails can be fitted with square or splayed beads.
- When configured as sliding panels, heavy duty bottom rolling running gear or alternative Centor E3 top-hung rollers deliver smooth reliable operation.
- 19mm high glazing beads ensure good glass gets bite.
- Can be security glazed with captive external glazing wedge.
- Midrail options 50mm, 115mm, 125mm and 200mm deep.
- Rebated French meeting stiles option available.
- For double glazing or thick glass go to Series 52 door.



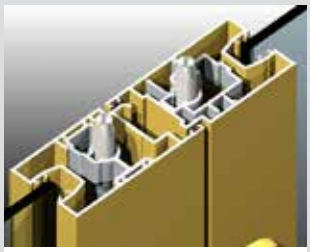
Series 50 doors are approximately 70% stronger than conventional 44mm aluminium doors.



The sliding door detail shown above is ideal for high-end residential or commercial applications where you want a low flat sill that will keep water out.



A variety of thresholds to suit different applications.



Custom true hinge door French meeting stiles designed to improve water resistance. Stainless steel multi-point lock tips and custom bolt guides complete the package.

### GENERAL

**Max Panel Height***
H/S 3000mm

**Max Panel Width***
H/1000mm
S/2500mm

**Max Glass Thickness**
10.38mm

### ENERGY

**UW Range**
4.3-6.0

**SHGC Range**
0.26-0.60

### WEATHER

Weather performance of this system will depend upon selected framing, configuration and sill. For more information contact AWS.

### ACOUSTICS

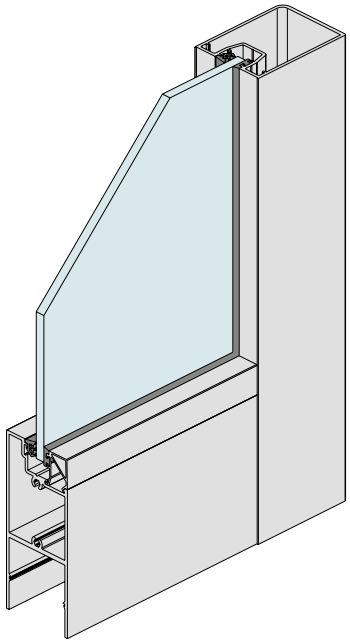
This product has not been acoustics tested.



*Dimensions subject to individual site conditions. H = Hinged Configuration. S = Sliding Configuration.

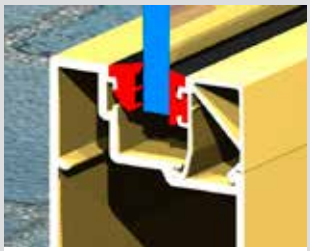
COMMERCIAL SERIES | SERIES 51

# COMMERCIAL DOOR (NON-SPIGOTED)

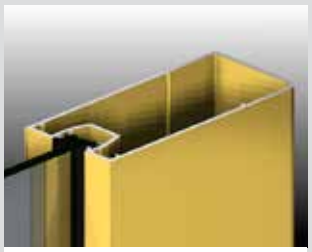


## KEY FEATURES

- 50mm thick door stiles are significantly stronger than industry standard 44mm thick stiles.
- Series 51 doors have removable snap-on glazing beads on horizontals and wraparound stiles.
- Horizontal rails can be fitted with square or splayed beads.
- 19mm high glazing beads ensure good glass bite.
- Can be security glazed with captive external glazing wedge.
- External wet top Silicone glazing also available.
- Four midrail options 50mm, 115mm, 125mm and 200mm deep.
- Rebated French meeting stiles option available.
- Series 50 and 52 door joinery is stronger than Series 51.

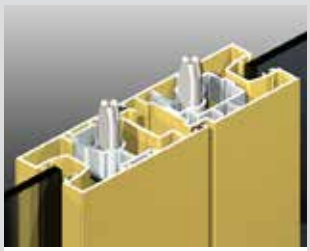


Series 51 doors are screwed together with #10 stainless steel screws and heavy duty extruded aluminium backing plates.



Selection of stiles for varying applications including a wide stile as shown above.

Commercial doors can be heavy, for this reason we offer heavy duty hinge backing plates to make sure the door stays connected to the frame for years to come.



Custom true hinge door French meeting stiles designed to improve water resistance. Stainless steel multi-point lock tips and custom bolt guides that complete the package.

### GENERAL

**Max Panel Height***
H/S 3000mm

**Max Panel Width***
H/900mm
S/2500mm

**Max Glass Thickness**
10.38mm

### ENERGY

**UW Range**
N/A

**SHGC Range**
N/A

### WEATHER

Weather performance of this system will depend upon selected framing, configuration and sill. For more information contact AWS.

### ACOUSTICS

This product has not been acoustics tested.

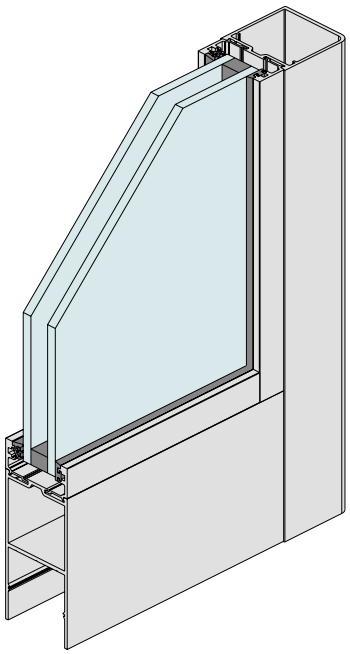
AS2047



*Dimensions subject to individual site conditions. H = Hinged Configuration. S = Sliding Configuration.

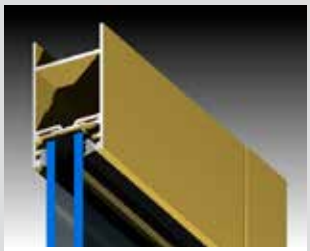
COMMERCIAL SERIES | SERIES 52

# DOOR (DOUBLE GLAZED, SPIGOTED)



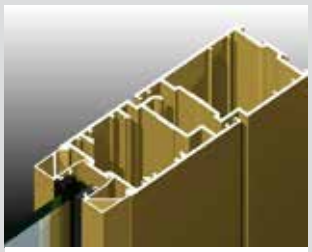
## KEY FEATURES

- Series 52 doors are 50mm thick for added strength.
- Series 52 doors have removable glazing beads on horizontals and verticals (both sides).
- Stile to rail joint is securely fixed with custom spigot assembly.
- Horizontal rails can be fitted with square or splayed beads.
- 19mm high glazing beads ensure good glass bite.
- Can be security glazed with captive external glazing wedge.
- Heavy duty bottom rolling running gear or alternative Centor E3 top-hung rollers deliver smooth reliable operation.
- External wet top silicone glazing also available.
- Two midrail options 50mm and 115mm deep with single external bead – suitable for single glazing. Plus 125mm and 200mm midrails with four glazing beads – suitable for double glazing.
- Rebated French meeting stiles.

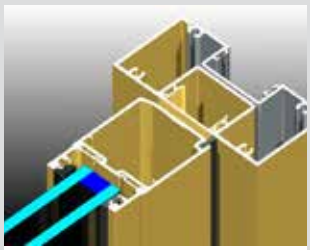


Series 52 doors will accept a variety of glazing beads including beads to accept double glazing as shown above.

The transparent image above shows the heavy duty spigot and backing plate door corner joinery package used on Series 52 doors.



True French meeting stiles available. Series 52 doors will also accept single 6.38mm thick glazing as shown above.



The image above shows a double glazed door panel installed into a framing system (Series 424) that will also accept double glazing.

### GENERAL

**Max Panel Height***
H/S 3000mm

**Max Panel Width***
H/1000mm
S/2500mm

**Max Glass Thickness**
28mm

### ENERGY

**UW Range**
3.1-4.0

**SHGC Range**
0.14-0.54

### WEATHER

Weather performance of this system will depend upon selected framing, configuration and sill. For more information contact AWS.

### ACOUSTICS

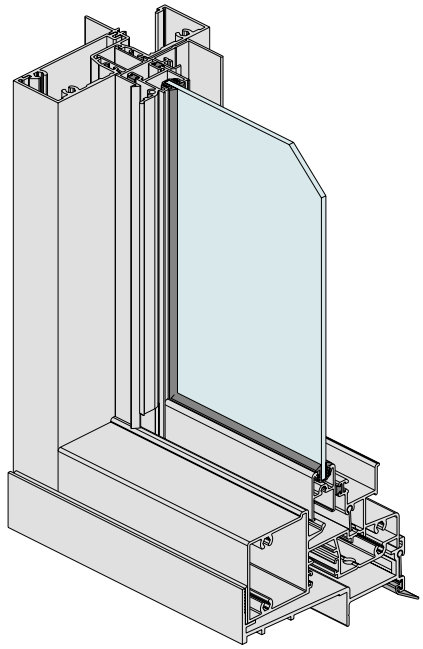
This product has not been acoustics tested.



*Dimensions subject to individual site conditions. H = Hinged Configuration. S = Sliding Configuration.

COMMERCIAL SERIES | SERIES 452

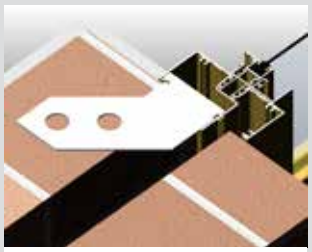
# COMMERCIAL SLIDING WINDOW



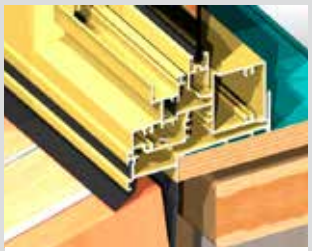
## KEY FEATURES

- 17mm thick sliding window sashes fitted into CentreGLAZE™ commercial framing using custom head, sill and an inlay adaptor.
- Double sash design with the external sash fixed.
- Both fixed and opening sashes can be installed, replaced or reglazed from inside the building.
- Sliding sashes can be fitted with a variety of latches and locks including centre multi-point lock or vent lock.
- Flyscreens can be clipped into the frame without unsightly rivets, metal clips or turnbuckles.
- Fixed lowlights can be glazed from the inside in elevated situations by reversing the removable glazing beads and fitting a custom captive wedge to the outside.
- 30mm nailing fin frame is standard and protects the internal linings and wall from water intrusion. The nailing fin (weather bar) provides fixing points for timber reveals on brick veneer wall construction.
- Frame accepts height adjustable building-in lugs.

30mm jamb with built-in nailing fin/weather bar into brick veneer wall illustrated above.



Alternative bold 44mm wide jamb with built-in nailing fin/weather bar. Both 30mm standard and 44mm wide nailing fin frames will accept height adjustable galvanised building-in lugs.



The nailing fin sub-sill shown above is standard on Series 452 windows. Ideal for brick veneer (shown above) or cavity brick wall construction.

Multi-point key lock option can be fitted to the centre meeting stiles. When you turn the key, part of the centre meeting stile is thrown into a keeper located in the head. Window can be locked closed or partly open.

### GENERAL

**Max Panel Height***
1500mm

**Max Panel Width***
1050mm

**Max Glass Thickness**
10.50mm (20 w/adaptor)

**Frame Depth**
102mm

### ENERGY

**UW Range**
3.9-6.7

**SHGC Range**
0.21-0.66

### WEATHER

**Maximum Water**
300 Pa.

### ACOUSTICS

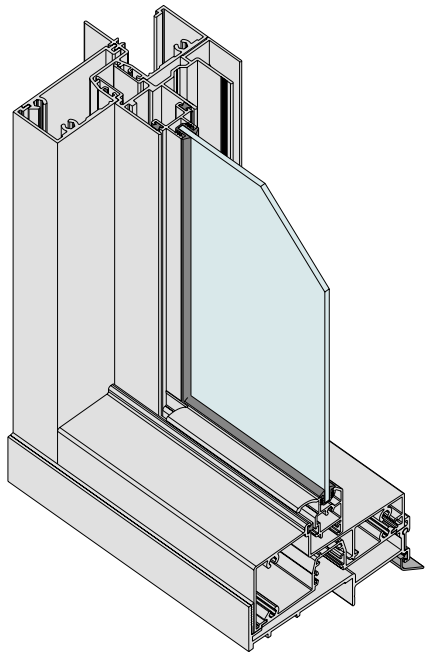
This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 504.



*Dimensions subject to individual site conditions.

COMMERCIAL SERIES | SERIES 453

# COMMERCIAL DOUBLE-HUNG WINDOW

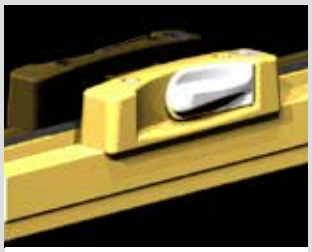


## KEY FEATURES

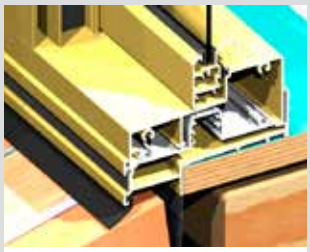
- Vertical sliding double-hung sashes inlaid directly into commercial framing.
- Flyscreens tuck into dedicated recess in the jamb inlay adaptor, supported with concealed nylon clips.
- Sashes will bypass each other to allow cleaning of all glass from inside the building.
- Custom heavy duty key-lockable catch with die-cast keeper.
- Standard 30mm nailing fin jamb as illustrated left or alternative 44mm wide jamb.
- Fixed lowlights can be glazed from the inside in elevated situations by reversing the removable glazing beads and fitting a custom captive wedge to the outside.
- Nailing fin frame makes the product suitable for cavity brick and brick veneer construction.
- Matching horizontal sliding sashes into commercial framing, refer Series 452.
- Dedicated 90° and 135° corner mullions available.

Standard 30mm jamb with built-in nailing fin/ weather bar into brick veneer wall illustrated above.

Alternative bold 44mm wide jamb with built-in nailing fin/weather bar illustrated above. Both 30mm and 40mm frames will accept height adjustable galvanised building-in lugs.



Custom lock option. Roll the handle over 180° to lock/unlock. This illustration also shows the heavy meeting stiles used on Series 453 double-hung windows.



The nailing fin sub-sill shown above is standard on Series 453 windows. Ideal for brick veneer (shown above) or cavity brick wall construction.

### GENERAL

**Max Panel Height***
1050mm

**Max Panel Width***
1155mm

**Max Glass Thickness**
7.50mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
4.9-6.5

**SHGC Range**
0.29-0.64

### WEATHER

**Maximum water**
200 Pa.

### ACOUSTICS

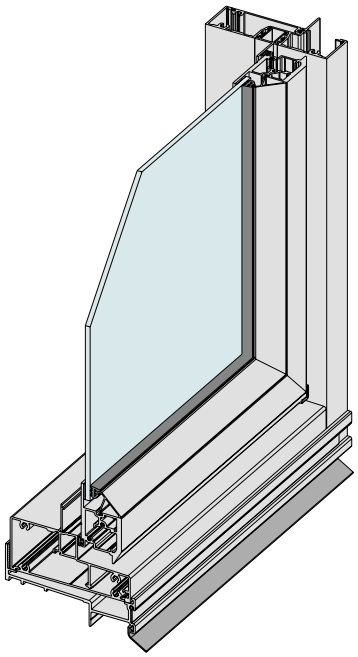
This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 514.



*Dimensions subject to individual site conditions.

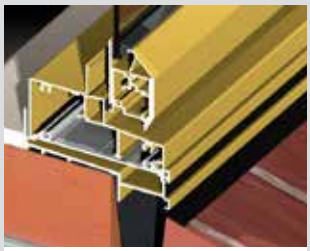
COMMERCIAL SERIES | SERIES 456

# COMMERCIAL AWNING WINDOW

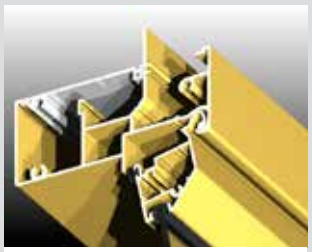


## KEY FEATURES

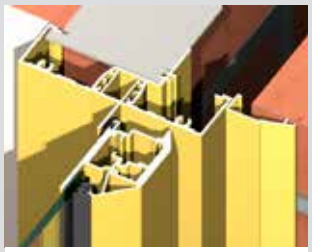
- Residential awning sashes inlaid directly into commercial framing.
- Dedicated head and sill to accept awning sashes with manual chain winders with standard 30mm (illustrated left) or alternative 44mm nailing fin jambs.
- 44mm nailing fin frame for those projects with double glazed fixed lights.
- Complies with AS2047, with a high water resistance of 450 Pa. With a very low air infiltration that makes this product suitable for air-conditioned buildings.
- Awning sashes can be fitted with concealed electric chain winder, manual chainwinder or cam handles.
- Flyscreens can be fitted behind awning sashes with winders.
- Fixed lowlights can be glazed from the inside in elevated situations by reversing the removable glazing beads.
- Nailing fin frame makes the product suitable for cavity brick and brick veneer construction.
- Dedicated 90° and 135° corner mullions available.



Series 456 windows come standard with integrated sub-sill. Heavy duty sash option illustrated.



Sashes hang on built-in hook hinges. Standard single glazed wrap-around sash illustrated.



Standard 30mm jamb with built-in nailing fin/ weather bar into cavity brick wall illustrated above.

Alternative bold 44mm wide jamb with built-in nailing fin/weather bar. Both 30mm standard and 44mm wide nailing fin frames will accept height adjustable galvanised building-in lugs.

### GENERAL

NB: Maximum panel height and width of Awning sashes are interdependent.

**Max Panel Height***
A/ @2400w = 800H
C/ 1200mm

**Max Panel Width***
A/ @2100h = 900w
C/ 600mm

**Max Glass Thickness**
20mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
4.0-6.8

**SHGC Range**
0.27-0.61

### WEATHER

**Maximum water**
450 Pa.

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 516.

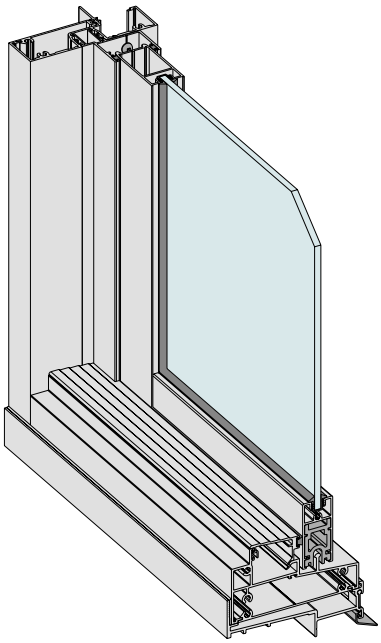
AS2047 BAL40 SAFE4KIDS WINDOW ENERGY RATINGS



*Dimensions subject to individual site conditions. A = Awning Configuration. C = Casement Configuration.

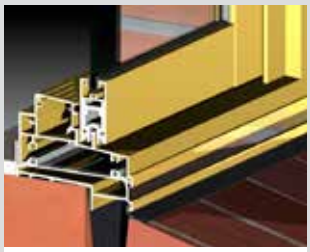
COMMERCIAL SERIES | SERIES 461

# APARTMENT SLIDING WINDOW

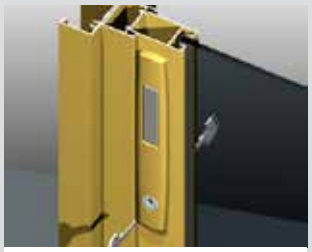


## KEY FEATURES

- High-performance architectural sliding window system designed for high-rise apartments.
- The extra strong sashes allow large sash windows to be fabricated for high wind load areas.
- Double sash design with a fixed internal sash.
- Both fixed and opening sashes can be installed, replaced and/or reglazed from inside the building. This could be an important feature in elevated situations.
- There are a large variety of window combinations possible (SF, FS, SFS or FSSF) with and without highlights/lowlights.
- Sliders can be fitted with surface or mortice deadlocks.
- Sashes run on custom lowline heavy duty double bogey wheel carriages.
- As the moving sash is on the outside we get very high water resistance – 600 Pa. This window also complies with the air-conditioning requirements of the Australian Standard.
- Unwanted head recess is fitted with snap-in flat closer to ensure that the clean looks are maintained and improve air infiltration.



Wide sashes or sashes in high wind load areas can be fitted with rail stiffener when required as shown above.



We offer two types of mortice lock for this window. ICON™ with brushed stainless steel face plate or ANDO™ with powder coated cast aluminium face plate to match window framing.

Series 461 windows are fitted with a tapered buffer stop to ensure the sash does not jump off the rail when opened.

Standard 30mm jamb with built-in nailing fin/weather bar into brick veneer wall illustrated above.

### GENERAL

**Max Panel Height***
1500mm

**Max Panel Width***
1350mm

**Max Glass Thickness**
20mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
3.8-6.3

**SHGC Range**
0.20-0.59

### WEATHER

**Maximum Water**
600 Pa.

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 47.1

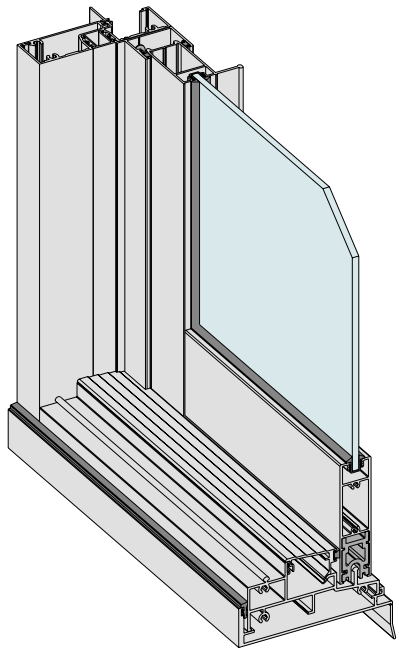
AS2047 BAL40 SAFE4KIDS WINDOW ENERGY RATING



*Dimensions subject to individual site conditions.

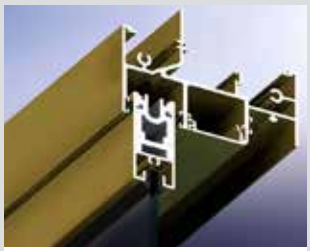
COMMERCIAL SERIES | SERIES 471

# APARTMENT SLIDING DOOR

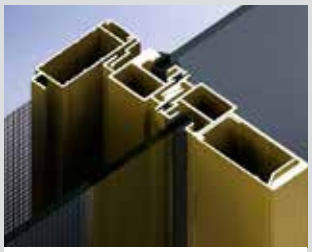


## KEY FEATURES

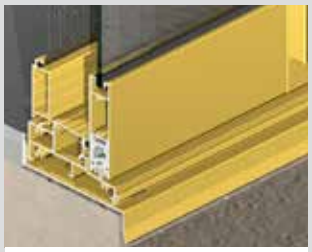
- High-performance architectural sliding door system designed for high-rise apartments.
- The 102mm frame is compatible with CentreGLAZE™ and FrontGLAZE™ framing and can be coupled together in runs of framing and doors.
- The door is ideal for projects that require very high water resistance when the door panels are not excessively big.
- As the moving sash is on the outside we get very high water resistance – 600Pa. Also complies with the air-conditioning requirements of the Australian Standard.
- We can fit sliding flydoors on the inside.
- Doors can be fitted with surface or mortice deadlocks.
- Sashes run on custom lowline heavy duty double bogey wheel carriages.
- Tall bottom rail designed for added strength and makes the doors proportionally correct.
- Unwanted head recess is fitted with snap-in flat closer to ensure that the clean looks are maintained.



Wide sashes or sashes in high wind load areas can be fitted with rail stiffener when required as shown above.



Custom interlocking glass door meeting stiles designed to withstand high wind loads.



This image shows the standard tall bottom rail with rail stiffener (when required) and optional sliding screen door on the inside.

To ensure the opening door panel stays on the track when opened we fit a tapered buffer stop into head frame.

### GENERAL

**Max Panel Height***
2630mm

**Max Panel Width***
1470mm

**Max Glass Thickness**
20mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
4.0-6.0

**SHGC Range**
0.29-0.55

### WEATHER

**Maximum Water**
600 Pa.

### ACOUSTICS

**6.5mm Vlam Hush™**
32 (-1,-3)

**10.5mm Vlam Hush™**
33 (0,-2)

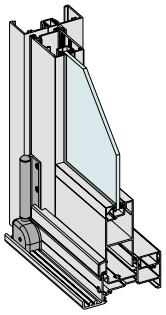
**6.5mm VLam Hush™ / 8Air / 5Toughened**
33 (-1;-2)



*Dimensions subject to individual site conditions.

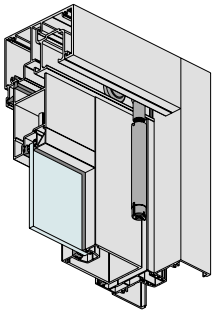
ELEVATE™
# ARCHITECTURAL SERIES

Photography: Brett Boardman. Architect: Richard Cole Architects. Windows supplied by AVS Windows & Doors



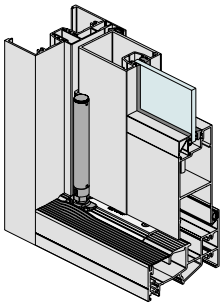
SERIES 410 114

FoldMASTER™ Bi-Fold Door (Bottom Rolling)



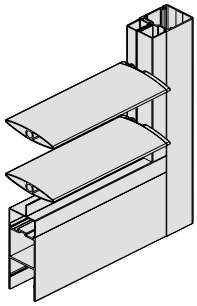
SERIES 411 115

ViewMASTER™ Bi-Fold Door (Top Hung)



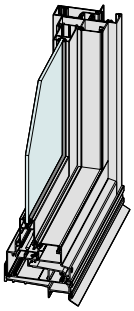
SERIES 412 116

ViewMASTER™ Bi-Fold Door (Bottom Rolling)



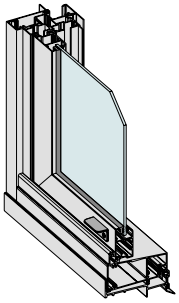
SERIES 417 117

LouvreMASTER™ Sun Control Shutter



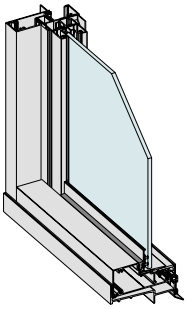
SERIES 462 118

Architectural Sliding Window (Double Sash)



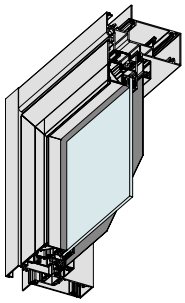
SERIES 463 119

Architectural Double-Hung Window



SERIES 464 120

ClearVENT™ Sashless Double-Hung Window



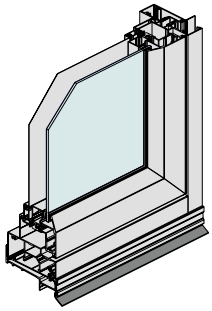
SERIES 466 121

Architectural Awning/ Casement Window

With strong, bold, stylish profiles for commercial architectural projects the Elevate™ Architectural Series of high performance windows and doors is both modern and meticulous in design. Its shapes reflect the designer preference for clean, flush surfaces, continuous sightlines and square-edge 'cubist' forms.

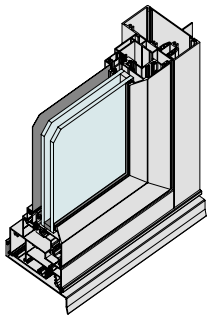
The system has been developed with aesthetic unity in mind – similar looks and lines for windows and doors, and common frame edges to simplify architectural detailing.

The Architectural Series has been designed with the strength and versatility to allow the choice of large formats and sizes increasingly favoured by architects.



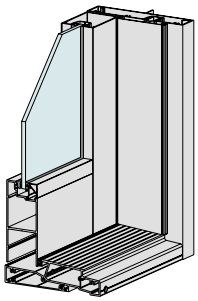
**SERIES 467** 122

Awning/Casement (Truth™)



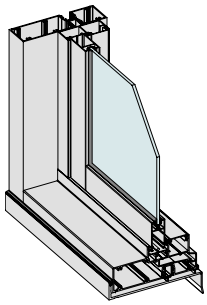
**SERIES 468** 123

Awning/Casement (Truth™)



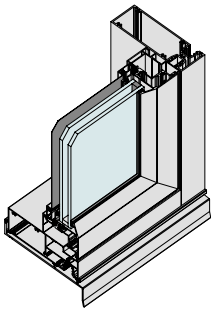
**SERIES 650** 124

Architectural Hinged Doors



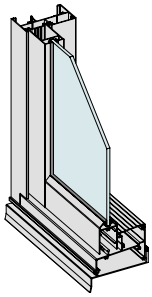
**SERIES 662** 125

Sliding Window (150mm frame)



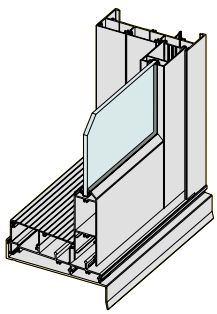
**SERIES 668** 126

Awning/Casement 150mm (Truth™)



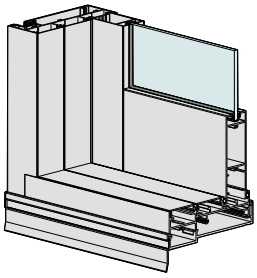
**SERIES 701** 127

SlideMASTER™ Sliding Window



**SERIES 702** 128

SlideMASTER™ Sliding Door (External Sliding)

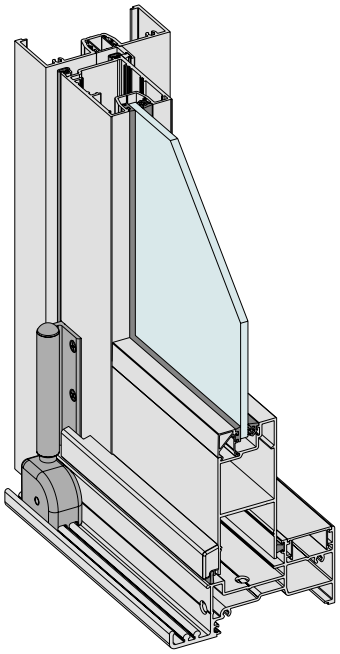


**SERIES 704** 129

SlideMASTER™ Sliding Door (Internal Sliding)

ARCHITECTURAL SERIES | SERIES 410

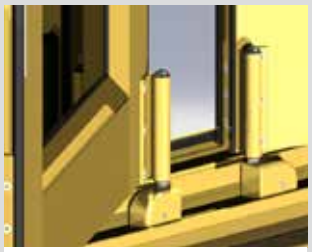
# FoldMASTER™ BI-FOLD DOOR (BOTTOM ROLLING)



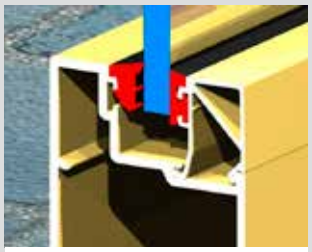
## KEY FEATURES

- The Series 410 bi-fold door is an exceptionally strong bi-fold system designed to accept the heavy duty Series 50 and 52 doors.
- Rebated French door meeting stiles give a flush appearance when the two doors meet eliminating unsightly applied rebates.
- A variety of lever and lock options are available including proprietary multi-point and lever compression locking. Bi-fold panels can be secured with key operated twin bolts.
- Seamless door panel construction conceals the assembly joint giving a clean aesthetic appearance.
- Custom door co-extruded bulb seal for maximum weather performance.
- Door panels are supported on quad rollers running on heavy duty dual bottom rails.
- Opening or fixed highlights can be fitted.
- We can fit Centor™ S1E retractable flyscreens behind Series 410 bi-fold doors.

Heavy duty quad bogey, bottom rolling running gear. Available in powder coated finish to match doors or 316 marine grade stainless steel.



Specially designed runners to inhibit clashing in a bi-parting configuration.



We offer security glazing as shown above. Captive co-extruded glazing wedge on the outside. We can use silicone wet top on the outside in lieu of the captive wedge.

A full range of hardware available including 4-point locking mechanisms. ANDO™ lever furniture illustrated. Available in powder coat or stainless steel finish.

### GENERAL

**Max Panel Height***
3000mm

**Max Panel Width***
1000mm

**Max Glass Thickness**
28mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
3.3-6.2

**SHGC Range**
0.14-0.59

### WEATHER

**Maximum Water**
450 Pa.

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 548.

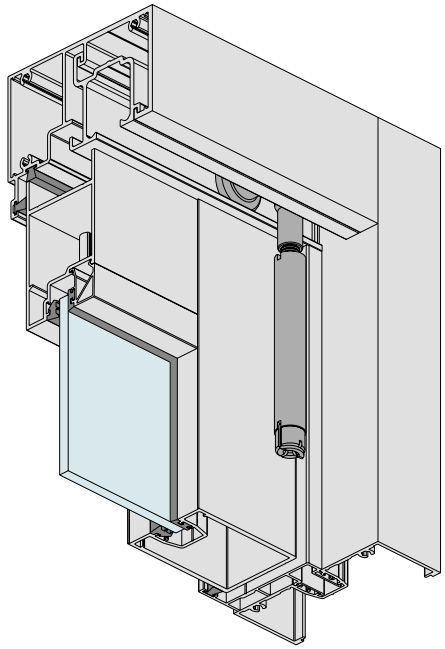
AS2047 BAL40 LIVABLE WINDOW ENERGY RATING

elevatealuminium.com.au/410

*Dimensions subject to individual site conditions.

ARCHITECTURAL SERIES | SERIES 411

# ViewMASTER™ BI-FOLD DOOR (TOP HUNG)

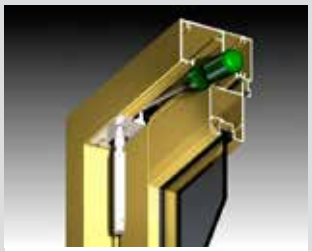


## KEY FEATURES

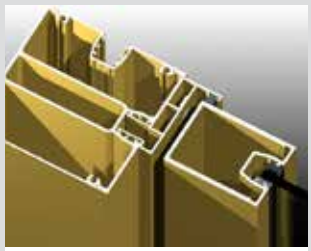
- Designed to accept the 50mm thick heavy duty Series 50 and 52 doors. Bi-fold doors can be manufactured with compliant panels up to 3000mm high.
- Hung on Centor™ stainless steel bearing rollers running in heavy duty dual overhead tracks.
- The standard E2 rollers will carry door panels up to 40kg
- Heavy duty E3 rollers will carry door panels up to 80kg.
- The Surelock™ adjustment on the pivots and carriers allow all panels to be lifted or lowered easily with a flat screwdriver.
- Top carriers are fitted with side-thrust roller/s. This protects the main load-bearing rollers from damage and inside scraping, ensuring silent, smooth rolling action.
- Carriers, pivots, hinges and fixings supplied in 304 SS.
- Seamless type door panel construction (rails nest into stiles) to conceal the assembly joint.
- We can fit Centor™ S1E retractable roller flyscreens behind Series 411 bi-fold doors.

The 411 utilises both Centor™ E2 and E3 running gear. E2 illustrated above.

A full range of hardware available including 4-point locking mechanisms. ANDO™ lever furniture illustrated. Available in powder coat or stainless steel finish.



All pivots are vertically and horizontally adjustable. Hinges and rollers can be adjusted vertically and horizontally.



The 411 incorporates varying profiles to be used as jambs, this includes corner mullion as shown above.

### GENERAL

**Max Panel Height***
3000mm

**Max Panel Width***
1000mm

**Max Glass Thickness**
28mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
3.3-6.2

**SHGC Range**
0.14-0.59

### WEATHER

**Maximum Water**
450 Pa.

### ACOUSTICS

**6.38mm Lam**
28 (0;-2)

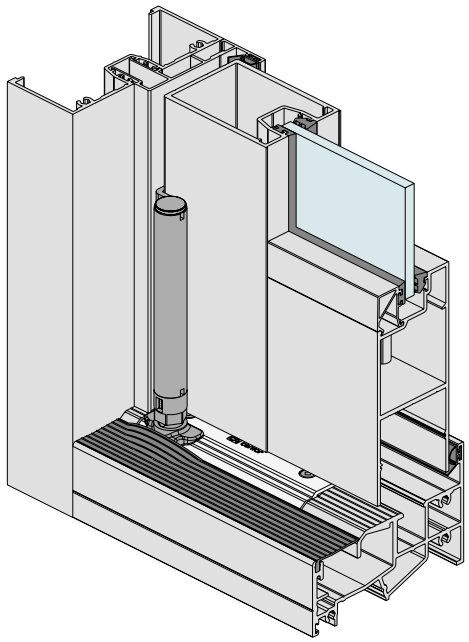
**8.38mm Lam**
31 (-1,-2)



*Dimensions subject to individual site conditions.

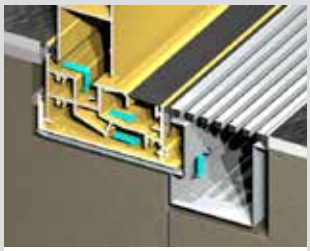
ARCHITECTURAL SERIES | SERIES 412

# ViewMASTER™ BI-FOLD DOOR (BOTTOM ROLLING)



## KEY FEATURES

- Series 412 bi-fold door (bottom rollers) has been designed to accept the 50mm thick heavy duty Series 50 and 52 doors.
- Can be manufactured with panels up to 3000mm high.
- Bi-fold doors roll on Centor™ F3 stainless steel bearing rollers running in a heavy duty concealed sill track.
- Heavy duty F3 will carry door panels up to 80kg.
- The Surelock™ adjustment allows all panels to be lifted or lowered easily.
- Sill rollers are covered with a flexible flap. The sill flap keeps dust and water away from the sill rollers.
- Carriers, pivots, hinges and fixings supplied in 304/316 stainless steel.
- Top guide runs in semi-rigid PVC channel insert to reduce noise.
- A variety of lever and lock options are available including multi-point locking for added security.
- We can fit Centor™ S1E retractable roller flyscreens behind Series 412 bi-fold doors.



The sill can be recessed into floor finish and fitted with stainless steel drainage system.

A full range of hardware available including 4-point locking mechanisms. ANDO™ lever furniture illustrated. Available in powder coat or stainless steel finish.

Series 412 Bi-fold can incorporate Centor S1E roll-away screens. These screens retract away almost completely into the jamb canister as shown above.

Doors supported on concealed articulated rollers with built-in track sweeper.

### GENERAL

**Max Panel Height***
3000mm

**Max Panel Width***
1000mm

**Max Glass Thickness**
28mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
3.4-6.2

**SHGC Range**
0.14-0.59

### WEATHER

**Maximum Water**
300 Pa.

### ACOUSTICS

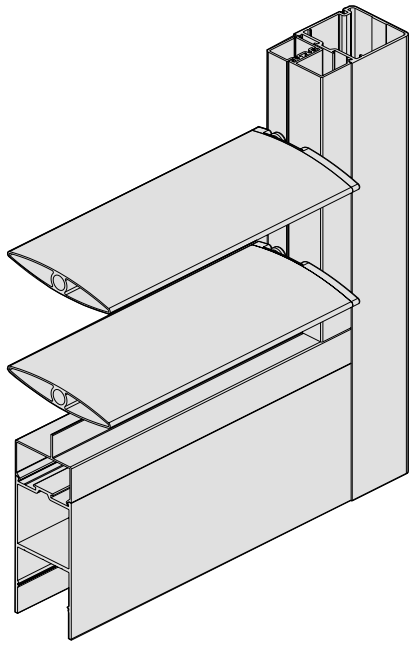
This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 411.

elevatealuminium.com.au/412

*Dimensions subject to individual site conditions.

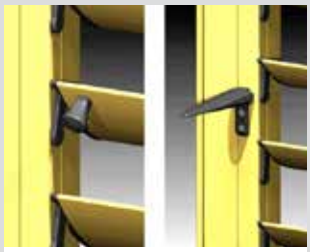
ARCHITECTURAL SERIES | SERIES 417

# LouvreMASTER™ SUN CONTROL SHUTTER



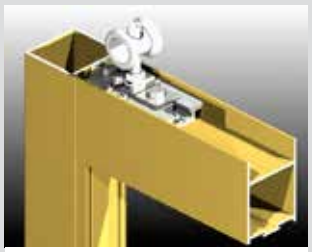
## KEY FEATURES

- The LouvreMASTER™ sun control shutters are designed for external sun and/or privacy control in fixed panels or moving panels in the form of a hinged, sliding or a bi-folding door.
- The LouvreMASTER™ system has been successfully tested for compliance with AS2047 (wind and proof load). 1200mm wide door panel will withstand 2000 Pa serviceability at 1/250 deflection and proof tested to 3000 Pa.
- There is an awning/casement sash that will accept LouvreMASTER™ and can be fitted into Series 400 frames.
- Blades are 88mm by 14mm oval shape. The pitch for the blades can vary from 60mm to 80mm depending on panel height.
- The blades can be clamped in any position between open and closed with the use of an activation handle.



The blade operation features a patented blade control system.

Concealed stainless steel sliding door panel bottom guide.



Sliding door panel top-hung heavy duty stainless steel roller.

Adjustable shutters can be fitted into custom awning sash.

### GENERAL

**Max Panel Height***
3000mm

**Max Panel Width***
1500mm

**Max Glass Thickness**
N/A

**Frame Depth**
102mm

### ENERGY

**UW Range**
N/A

**SHGC Range**
N/A

### WEATHER

**Maximum Water**
N/A

### ACOUSTICS

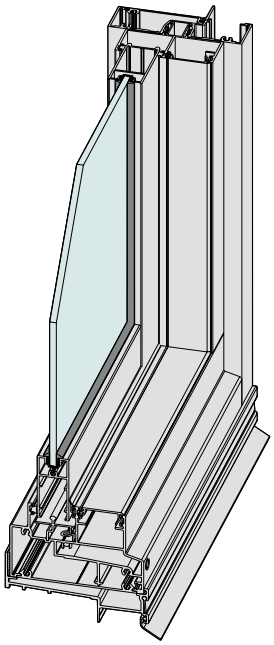
This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 542.



*Dimensions subject to individual site conditions.

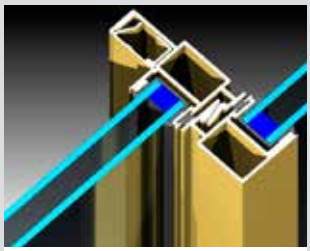
ARCHITECTURAL SERIES | SERIES 462

# ARCHITECTURAL SLIDING WINDOW (DOUBLE SASH DESIGN)

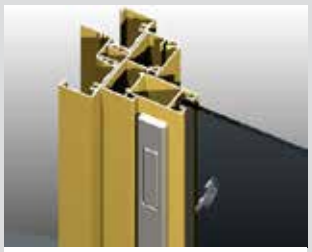


## KEY FEATURES

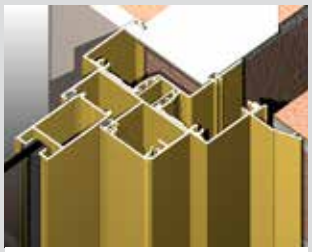
- 102mm wide perimeter frame with built-in nailing fins designed to simplify installation into brick veneer and cavity brick.
- The extra strong sashes allow large sash windows to be fabricated for high wind load areas.
- Double sash design with the external sash fixed.
- Both fixed and opening sashes can be installed, replaced and/or reglazed from inside the building.
- Sliders can be fitted with surface or mortice deadlocks.
- Sashes run on heavy duty wheel carriages.
- Flyscreens can be fitted. When there is no requirement for flyscreens frame is fitted with cavity closers.
- Co-extruded PVC sill seal keeps water out of the system.
- Built-in proprietary ball valve drainage to transfer any water that may get into the drainage trough to tubular sump sill. This valve also reduces blowback through the external drainage holes.



Series 462 sashes will accept glass up to 20mm thick. 16mm Insulated Glass Unit shown above.



We offer two types of mortice lock for this window. ICON™ with brushed stainless steel face plate or ANDO™ with powder coated face plate to match window framing.



Series 462 has bold commercial frame. Alternative 44mm. Both 30mm standard and 44mm wide nailing fin frames will accept height adjustable galvanised building-in lugs.

Standard 30mm jamb with built-in nailing fin/ weather bar into brick veneer wall illustrated above.

### GENERAL

**Max Panel Height***
1600mm

**Max Panel Width***
1350mm

**Max Glass Thickness**
20mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
3.3-6.0

**SHGC Range**
0.18-0.66

### WEATHER

**Maximum Water**
300 Pa.

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 601.

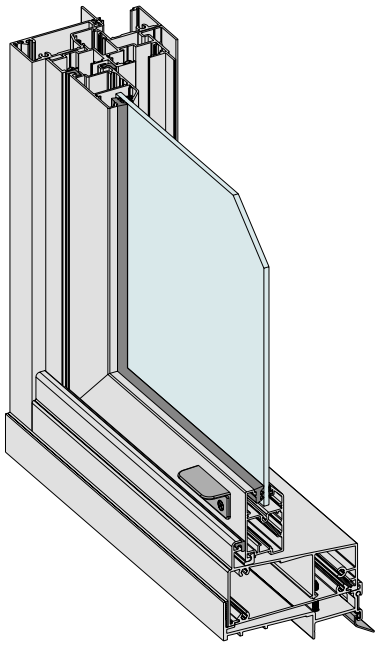
AS2047 BAL40 SAFE4KIDS WINDOW ENERGY RATING

elevatealuminium.com.au/462

*Dimensions subject to individual site conditions.

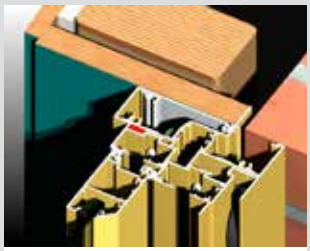
ARCHITECTURAL SERIES | SERIES 463

# ARCHITECTURAL DOUBLE-HUNG WINDOW

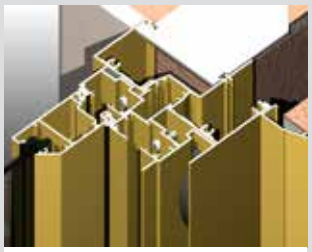


## KEY FEATURES

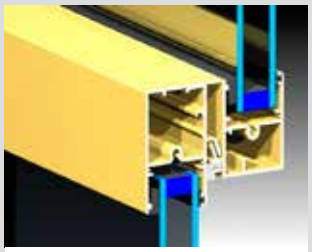
- 102mm wide perimeter frame designed to make installation into brick veneer and cavity brick easier with built-in nailing fins.
- Extra strong sashes allow large sash windows to be fabricated for high wind load areas.
- Both sashes can be hinged back into the room to allow cleaning of both sides of the glass from inside.
- Sashes can be secured with custom key or non-key locking cam handle.
- When windows have a powder coat finish the lower corners on the top sash are fitted with die-cast horns as standard. Series 463 double-hung sashes can also be ordered without Federation horns for a more contemporary look.
- Double-hung windows can be fitted with external flyscreens within the frame line, no turn-buckles required.
- 90° and 135° corner mullions for box and bay windows available.



Standard 30mm jamb with built-in nailing fin/ weather bar into brick veneer wall illustrated above.



Series 463 has bold commercial frame. Alternative 44mm. Both 30mm standard and 44mm wide nailing fin frames will accept height adjustable galvanised building-in lugs.



Accepts all glazing types up to 20mm. The dedicated sashes shown above have been specifically designed to accept 20mm IGUs.

Federation sash horns standard. Also available without sash horns. The bold sashes on Series 463 are significantly stronger than conventional aluminium residential windows.

### GENERAL

**Max Panel Height***
1050mm

**Max Panel Width***
1155mm

**Max Glass Thickness**
20mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
3.6-6.5

**SHGC Range**
0.20-0.58

### WEATHER

**Maximum Water**
450 Pa.

### ACOUSTICS

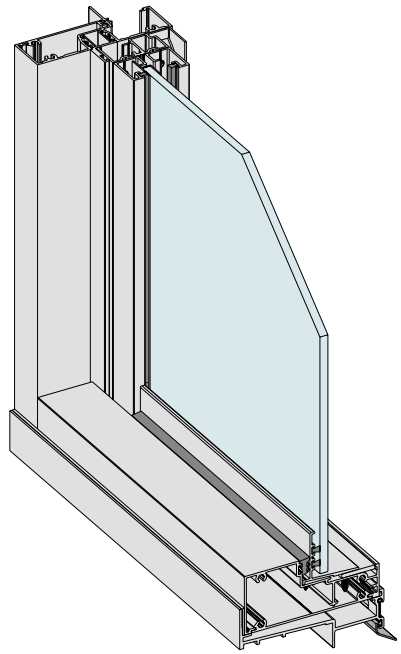
This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 613.

elevatealuminium.com.au/463

*Dimensions subject to individual site conditions.

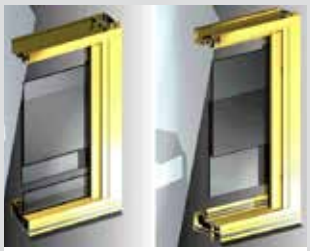
ARCHITECTURAL SERIES | SERIES 464

# ClearVENT™ SASHLESS DOUBLE-HUNG WINDOW



## KEY FEATURES

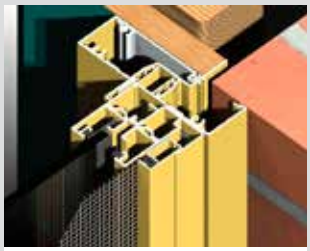
- This full vision vertical sliding, sashless double-hung window has been created in 102mm commercial framing.
- 102mm wide perimeter frame designed to make installation into brick veneer and cavity brick easier with built-in nailing fins.
- Sashes can be secured with key locking shoot bolt.
- ClearVENT™ offers clear unobtrusive vision as there are no horizontal central sash rails. As one sash is lifted the other lowers (the sashes are joined via cords and pulleys).
- A fixed sill glass panel can be fitted into the ClearVENT™ window to make it easy to get top ventilation only.
- ClearVENT™ windows can be fitted with external flyscreens within the main frame. No unsightly screws or turn buckles.
- ClearVENT™ vertical sliding sashes can also be installed into Series 50 or 51 hinged and Bi-fold door panels.



We offer standard double-hung sashes as shown above right and sashes with fixed lower panel to shield the lower opening when sashes are opened.

Press button key lock is standard on Series 464 ClearVENT™ sashes.

Alternative bold 44mm wide jamb with built-in nailing fin/weather bar. Both 30mm standard and 44mm wide nailing fin frames will accept height adjustable galvanised building-in lugs.



Integrated screening option available. Standard 30mm jamb with built-in nailing fin/weather bar into brick veneer wall illustrated above.

### GENERAL

**Max Panel Height***
1010mm

**Max Panel Width***
1210mm

**Max Glass Thickness**
6.38mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
N/A

**SHGC Range**
N/A

### WEATHER

**Maximum Water**
300 Pa.

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 614.

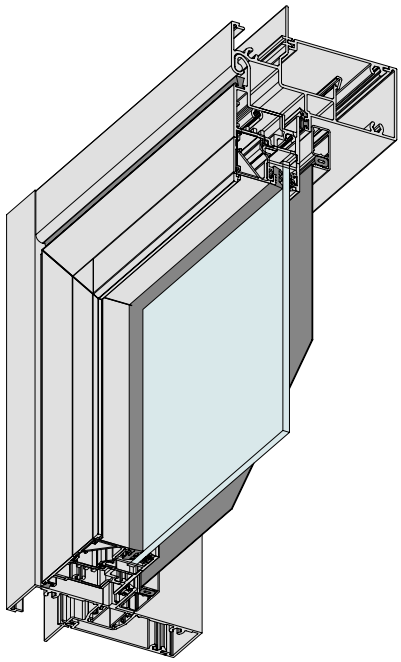
AS2047 SAFE4KIDS

elevatealuminium.com.au/464

*Dimensions subject to individual site conditions.

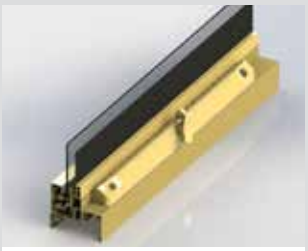
ARCHITECTURAL SERIES | SERIES 466

# ARCHITECTURAL AWNING/CASEMENT WINDOW

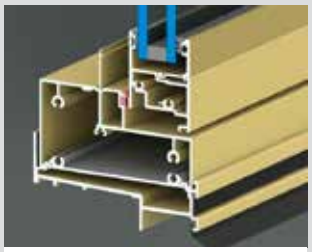


## KEY FEATURES

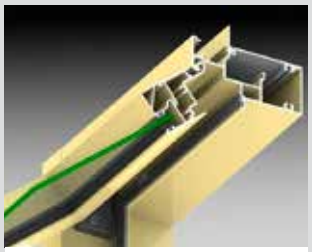
- Series 466 sashes can be fabricated as awning, casement or fixed lights.
- 102mm wide perimeter frame designed to make installation into brick veneer and cavity brick easier with built-in nailing fins.
- Awnings with manual or concealed electric winders have integrated hinge incorporated into sash top rail and head. No stays required.
- The strong sashes allow large opening sash windows to be fabricated for high wind load areas.
- Successfully tested to resist 600 Pa water externally or internally beaded and is suitable for air-conditioned buildings.
- When glazed internally we use square glazing beads. On the externally glazed sash we can also offer splayed beads.
- Awning sashes can be fitted with cam handles (this hardware requires friction stays), manual chain winders or concealed electric winders. The winder options suit fixed flyscreen installation.



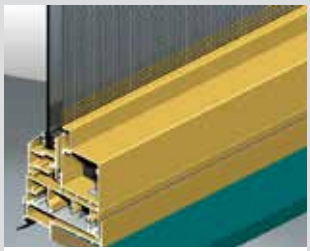
Dual chain chainwinder is fitted where awning sashes are wider than 1200mm to ensure wide sashes are supported



Custom sill design accepts manual chain winder without adaptors. Sill has an up-stand to suit flyscreen.



Integrated aluminium hook hinge gives us higher water resistance and strength.



Custom sub-sill (flashing tray) standard on 466 windows. This sill detail shows our custom concealed electric winder box. Winder box recessed to accept flyscreen as shown above.

### GENERAL

NB: Maximum panel height and width of Awning sashes are interdependent.

**Max Panel Height***
A/ @2400w = 800H
C/ 1800mm

**Max Panel Width***
A/ @2100h = 900w
C/ 1000mm

**Max Glass Thickness**
24mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
4.2-7.0

**SHGC Range**
0.14-0.57

### WEATHER

**Maximum water**
600 Pa.

### ACOUSTICS

**6.5mm VLam Hush™ /10mm Air/8.5mm Vlam Hush™**
41 (-1;-5)

**6mm Tgh/12mm Air/ 6.5mm VLam Hush™**
40 (-1;-5)

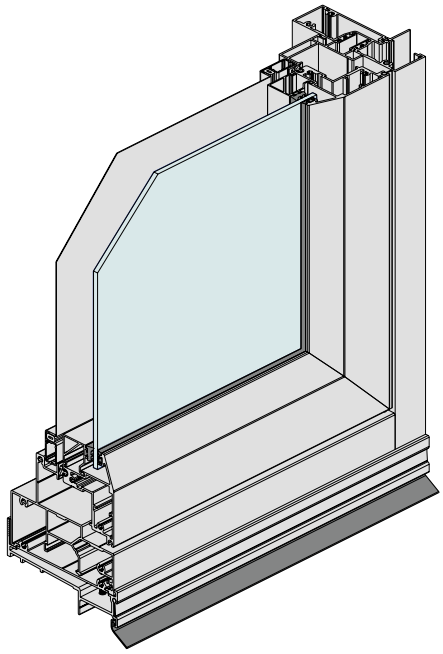
**6.5mm VLam Hush™**
35 (-1;-4)

elevatealuminium.com.au/466

*Dimensions subject to individual site conditions. A = Awning Configuration. C = Casement Configuration.

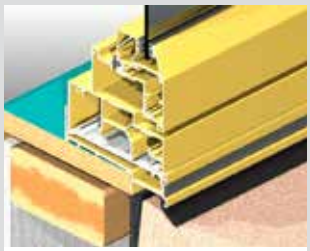
ARCHITECTURAL SERIES | SERIES 467

# ARCHITECTURAL AWNING/CASEMENT WINDOW (TRUTH™ HARDWARE)

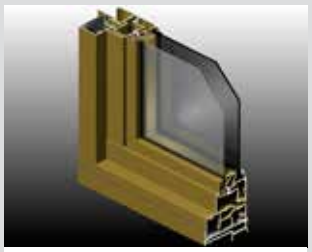


## KEY FEATURES

- This high-performance awning and casement window has been designed to accept Truth™ hardware. This allows us to offer very large casements and awnings fitted with scissor type winders with jamb to stile latches that secure the sashes in the closed position.
- Fixed sidelights/lowlights and highlights can be single or double glazed.
- Perimeter frame designed to make installation into brick veneer and cavity brick easier with built-in nailing fins.
- The Truth™ hardware can resist very negative wind loads with the use of winders and side latches.
- Hardware comes in standard E-GARD™ or for extreme locations we also offer 304 stainless steel stays.
- Series 467 accepts flyscreens.
- On casements it's possible to clean the external glass face when the sash is in the 90° open position.
- Sub-sills are standard on Series 467.

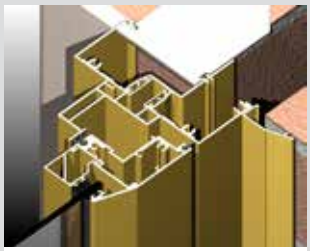


Custom sub-sill (flashing tray) standard on 467 windows.



The heavy duty sash designed for oversize sashes. The image above shows optional screen nested into frame. Flyscreen can be fitted to awnings and casement windows.

Standard 30mm jamb with built-in nailing fin/ weather bar into brick veneer wall illustrated above.



Series 467 has bold commercial frame. Alternative 44mm bold frame shown above.

### GENERAL

NB: Maximum panel height and width of Awning sashes are interdependent.

**Max Panel Height***
A/ @2400w = 800H
C/ 2100mm

**Max Panel Width***
A/ @2100h = 1200w
C/ 1200mm

**Max Glass Thickness**
24mm

**Frame Depth**
102mm

### ENERGY

**UW Range**
4.2-7.0

**SHGC Range**
0.14-0.57

### WEATHER

**Maximum Water**
450 Pa.

### ACOUSTICS

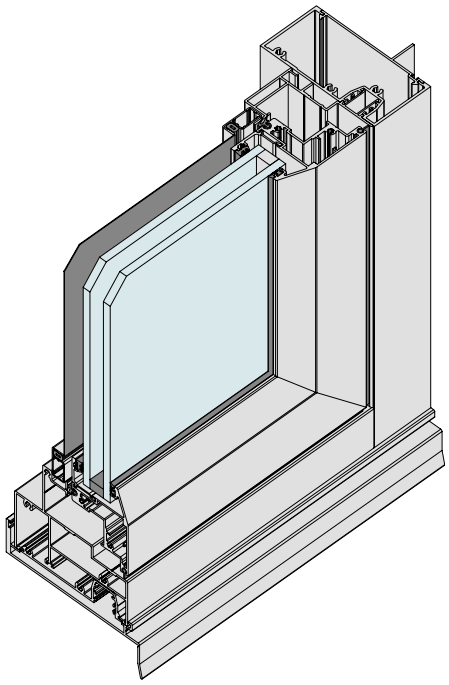
This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 466.



*Dimensions subject to individual site conditions. A = Awning Configuration. C = Casement Configuration.

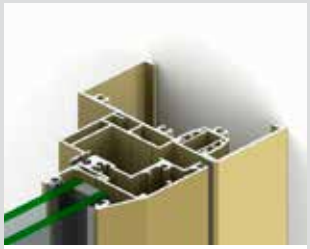
ARCHITECTURAL SERIES | SERIES 468

# ARCHITECTURAL AWNING/CASEMENT WINDOW (TRUTH™ HARDWARE)

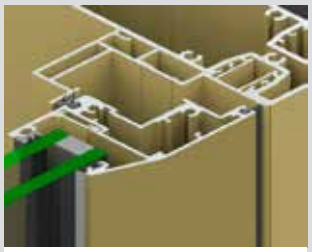


## KEY FEATURES

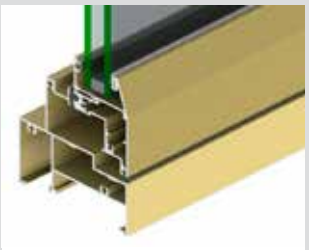
- This high-performance awning and casement window has been designed to accept Truth™ hardware. This allows us to offer very large casements and awnings fitted with scissor type winders with jamb to stile latches that secure the sashes in the closed position.
- The extra strong sashes allow large sash windows to be fabricated for high wind load areas.
- The Truth™ hardware can resist very high negative wind loads with the use of winders and side latches.
- Hardware comes in standard E-GARD™ or for extreme locations we also offer 304 stainless steel stays.
- Casement sashes open to 90° and have an opening gap of approximately 80mm on the hinge side, this allows cleaning of external glass face from inside the building.
- Fixed lowlights/sidelights are designed around Series 406 single glazed and 426 double glazed FrontGLAZE™.



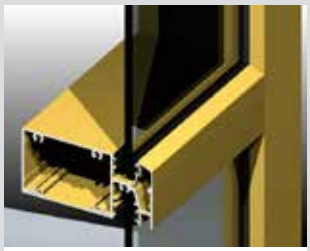
Snap-in jamb adaptors make it possible to have SG or DG fixed highlights and/or lowlights within the same frame.



Will accept glass up to 24mm IGU.



Also available in 150mm frame – see Series 468.



Designed to suit AWS FrontGLAZE™ framing systems

### GENERAL

NB: Maximum panel height and width of Awning sashes are interdependent.

**Max Panel Height***
A/ @2400w = 800H
C/ 2100mm

**Max Panel Width***
A/ @2100h = 1200w
C/ 1200mm

**Max Glass Thickness**
24mm

**Frame Depth**
102mm

### ENERGY

**UW Range**

**SHGC Range**

### WEATHER

**Maximum Water**
450 Pa.

### ACOUSTICS

This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 466.

AS2047 SAFE4KIDS

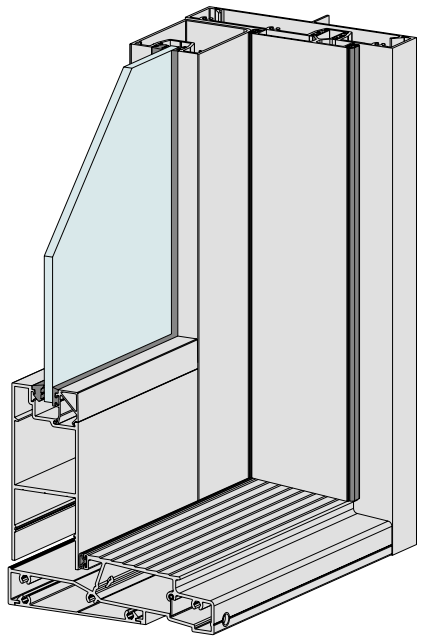
elevatealuminium.com.au/468

*Dimensions subject to individual site conditions. A = Awning Configuration. C = Casement Configuration.

AWS

ARCHITECTURAL SERIES | SERIES 650

# ARCHITECTURAL HINGED DOOR



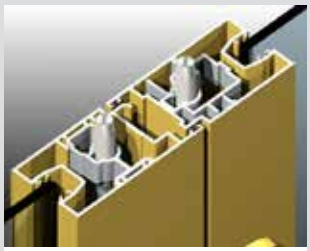
## KEY FEATURES

- Entry door framing system designed to accept heavy duty 50mm thick commercial swing doors.
- These heavy duty 50mm thick commercial doors are ideal for oversize door panels.
- Series 52 swing doors will accept 24mm thick insulating glass.
- Four midrail sizes to choose from (50, 115, 125 and 200mm deep).
- Two door thresholds designed to keep water out cover both internal and external swing hinged doors.
- Sub-sills available for high performance installations.
- Snap-fit nailing fin adaptor for brick veneer and cavity brick installations.
- Sidelights will accept awning and/or casement sashes.
- Recessed clean fixed sidelights and highlights pocket glazed similar to commercial framing.
- Can be fitted with hinged flydoors within the main frame.

Unique double-sided door stops allow for easy fitting of hinged screen doors.

Externally opening door sill.

Internally opening door sill.



Custom true French meeting stiles designed to improve water resistance.

### GENERAL

**Max Panel Height***
3000mm

**Max Panel Width***
1000mm

**Max Glass Thickness**
28mm

**Frame Depth**
150mm

### ENERGY

**UW Range**
4.3-6.0

**SHGC Range**
0.26-0.60

### WEATHER

**Maximum Water**
300 Pa. (open in)

150 Pa. (open out)

### ACOUSTICS

This product has not been acoustics tested.

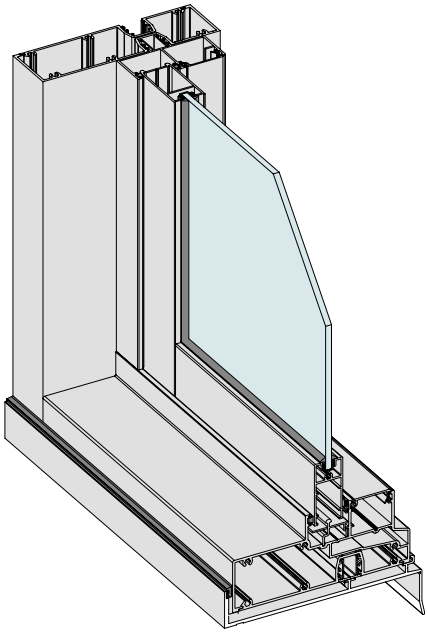
AS2047 BAL40 WINDOW ENERGY RATING

elevatealuminium.com.au/650

*Dimensions subject to individual site conditions.

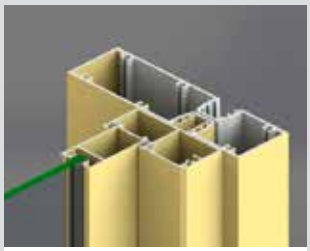
ARCHITECTURAL SERIES | SERIES 662

# ARCHITECTURAL SLIDING WINDOW 150MM FRAME

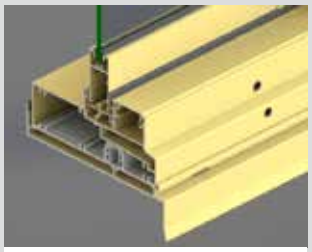


## KEY FEATURES

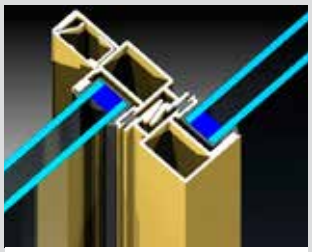
- Custom 150mm Elevate™ horizontal framing with Architectural series sash.
- The extra strong sashes allow large sash windows to be fabricated for high wind load areas.
- Double sash design with a fixed external sash.
- Both fixed and opening sashes can be installed, replaced and/or reglazed from inside the building. This could be an important feature in elevated situations.
- There are a large variety of window combinations possible (SF, FS, SS, SFS or FSSF) with and without highlights/ lowlights.
- Sashes run on heavy duty wheel carriages.
- Unwanted frame recesses are fitted with snap-in flat closers to ensure that the clean looks are maintained.
- Sub-sill is standard on Series 662 commercial sliding windows.



150mm wide perimeter frame suits projects where the cavity is wider than 50mm.



Custom sub-sill has central support leg to carry the weight of heavy sliding sashes.



Sashes will accept glass from 4mm to 20mm thick. The ideal IGU is 16mm thick.

Custom mortice locks with ICON™ stainless steel cover plate or powder coated ANDO™ aluminium covers.

### GENERAL

**Max Panel Height***
1600mm

**Max Panel Width***
1350mm

**Max Glass Thickness**
20mm

**Frame Depth**
150mm

### ENERGY

**UW Range**

**SHGC Range**

### WEATHER

**Maximum Water**
300 Pa.

### ACOUSTICS

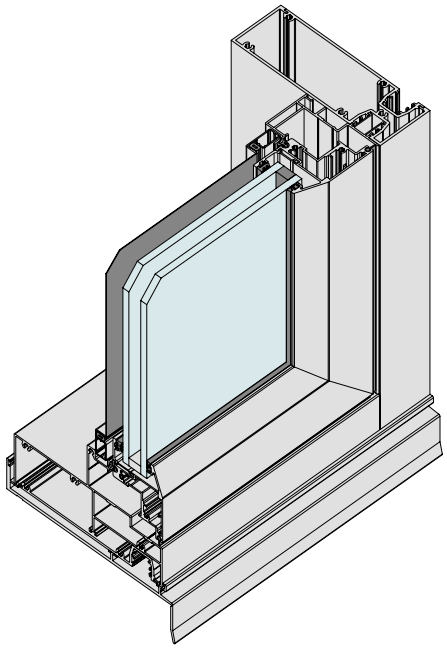
This product has not been acoustics tested.



*Dimensions subject to individual site conditions.

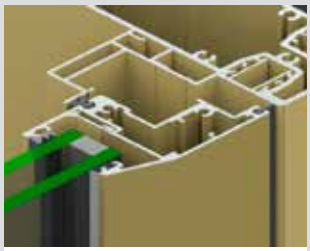
ARCHITECTURAL SERIES | SERIES 668

# AWNING/CASEMENT WINDOW (TRUTH™ HARDWARE) 150MM FRAME

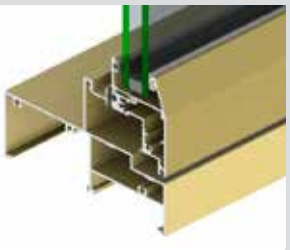


## KEY FEATURES

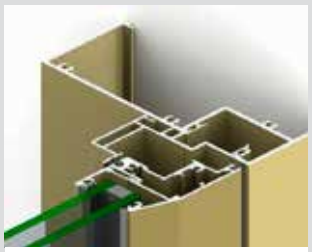
- This high performance awning and casement window has been designed to accept Truth™ hardware.This allows us to offer very large casements and awnings fitted with scissor type winders with jamb to stile latches that secure the sashes in the closed position.
- The extra strong sashes allow large sash windows to be fabricated for high wind load areas.
- Two sash designs cover awnings and casements.
- The Truth™ hardware can resist high negative wind loads with the use of winders and side latches.
- Hardware comes in standard E-GARD™ or for extreme locations we also offer 304 stainless steel stays, winder arms, tie rods and keepers.
- Casement sashes open to 90° and have an opening gap of approximately 80mm on the hinge side, this allows cleaning of external glass face from inside the building.
- Fixed lowlights/sidelights are designed around Series 606 single glazed and 626 double glazed FrontGLAZE™.



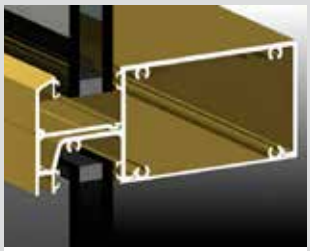
Acccepts glass up to 24mm IGU.



Also available with 100mm frame – see Series 468.



Snap-in jamb adaptors make it possible to have SG or DG fixed highlights and/or lowlights within the same frame.



Designed to suit AWS FrontGLAZE™ framing systems.

### GENERAL

NB: Maximum panel height and width of Awning sashes are interdependent.

**Max Panel Height***
A/ @2400w = 800H
C/ 2100mm

**Max Panel Width***
A/ @2100h = 1200w
C/ 1200mm

**Max Glass Thickness**
24mm

**Frame Depth**
150mm

**ENERGY**
**UW Range**

**SHGC Range**

### WEATHER

**Maximum Water**
450Pa.

### ACOUSTICS

This product has not been acoustics tested.

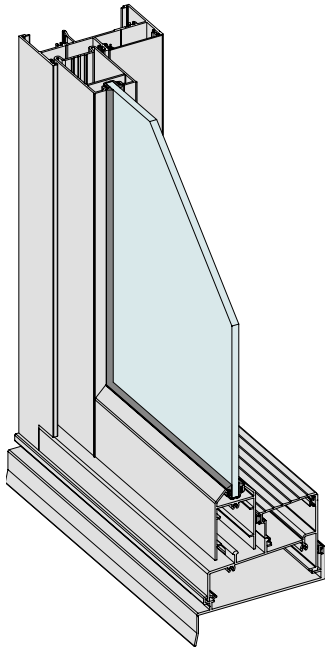
AS2047

elevatealuminium.com.au/668

*Dimensions subject to individual site conditions. A = Awning Configuration. C = Casement Configuration.

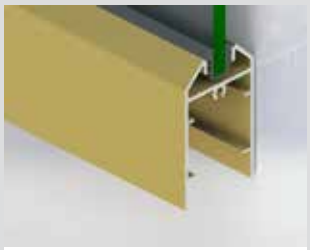
ARCHITECTURAL SERIES | SERIES 701

# SlideMASTER™ SLIDING WINDOW



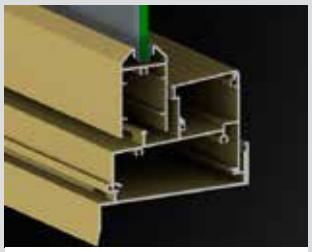
## KEY FEATURES

- Architectural Sliding window with external sliding sash.
- Clean lines for improved visual appearance.
- There is a large variety of window combinations possible (SF, FS, SFS, FSF or FSSF).
- The window is compatible with the high performance Series 406 FrontGLAZE™ and Series 407 FaceLINE™ framing.
- The head and jamb sections have an additional weather leg to ensure that junctions between sliders and fixed sidelights/ highlights maintain the high water resistance.
- Sliders fitted with mortice lock.
- Sashes run on heavy duty double bogey wheel carriages.
- Threshold and snap-in flat filler ensure that the clean looks are maintained.

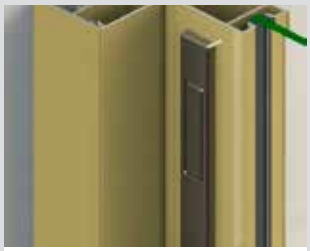


Standard splayed or alternative square rails.

Heavy duty double bogey wheel assembly standard.



Designed to go into commercial sub-sill.



Custom mortice lock is standard. Lock can be fitted with ICON™ stainless steel cover plate or ANDO™ powder coated cast aluminium cover.

### GENERAL

**Max Panel Height***
1600mm

**Max Panel Width***
1500mm

**Max Glass Thickness**
24mm

**Frame Depth**
N/A

### ENERGY

**UW Range**

**SHGC Range**

### WEATHER

**Maximum Water**
600 Pa.

### ACOUSTICS

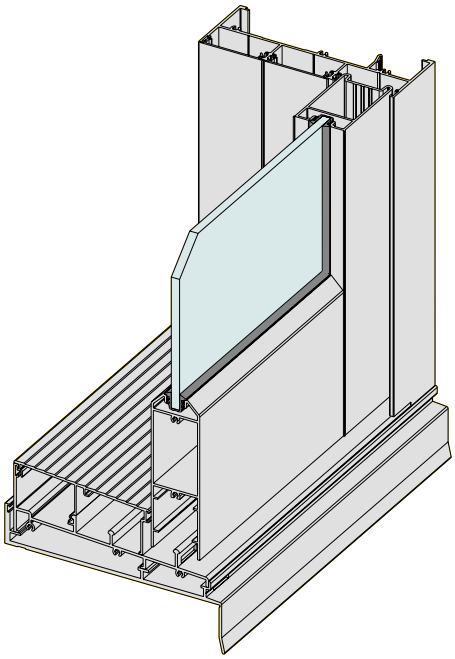
This product has not been acoustics tested.



*Dimensions subject to individual site conditions.

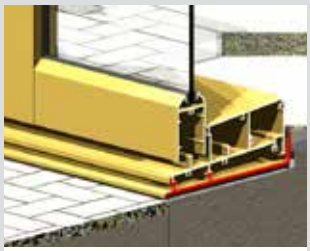
ARCHITECTURAL SERIES | SERIES 702

# SlideMASTER™ SLIDING DOOR (EXTERNAL SLIDING)

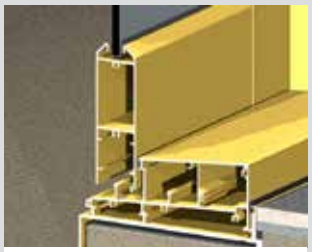


## KEY FEATURES

- This high-performance sliding door has been tested for compliance with the relevant Australian Standards.
- The extra strong multi-hollow meeting stiles allow large sliding doors to be fabricated in high wind load areas.
- There are a large variety of door combinations possible. XXF, FXX, XF, FX, FXF, XFF, FFX, FXXF and FXXXXF. 90° corner unit FX^XF and FXX^XXF are also available.
- Doors can be fitted with surface mounted deadlock, mortice lock or multi-point mortice lock.
- Doors run on heavy duty wheel carriages.
- Variety of bottom rail and mid rail sizes. The tall splayed bottom rail is standard.
- Aluminium sub-sills are available and should be used in all installations.
- Thresholds and snap-in flat filler ensure that the clean looks are maintained.
- Doors can be fitted with internal sliding or Centor™ S1E retractable roller flydoors.

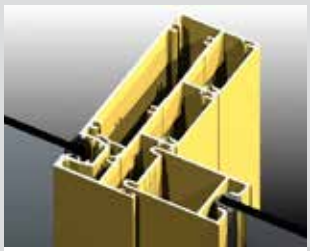


Sub-sill with central support leg designed to support the weight of heavy central door panels.



Standard tall, small, beveled and square rails are all an option. Standard tall splayed bottom rail illustrated above.

The images above show ICON™ D-Pull handle used with commercial mortice lock.



Series 702 frames (102mm and 150mm) will couple with ELEVATE™ FrontGLAZE™ framing.

### GENERAL

**Max Panel Height***
3000mm

**Max Panel Width***
1860mm

**Max Glass Thickness**
24mm

**Frame Depth**
Various

### ENERGY

**UW Range**
3.0-6.2

**SHGC Range**
0.15-0.59

### WEATHER

**Maximum Water**
600 Pa.

### ACOUSTICS

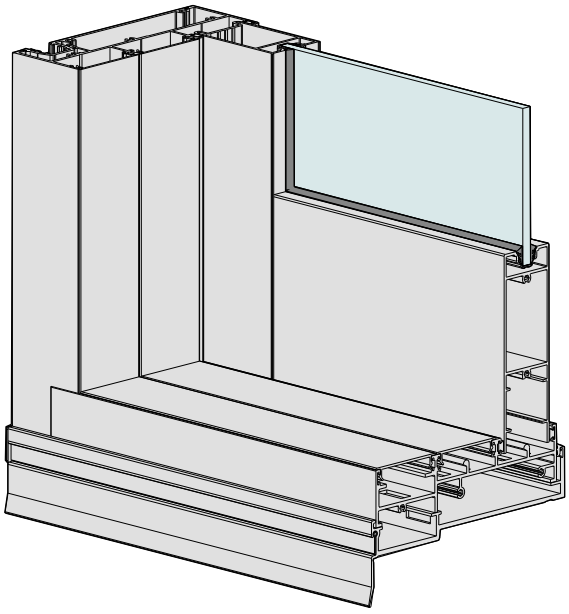
This product has not been acoustics tested. AWS anticipates this product's acoustic performance will be in-line with Series 704.



*Dimensions subject to individual site conditions.

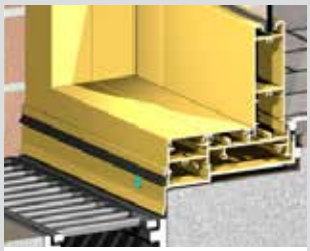
ARCHITECTURAL SERIES | SERIES 704

# SlideMASTER™ SLIDING DOOR (INTERNAL SLIDING)



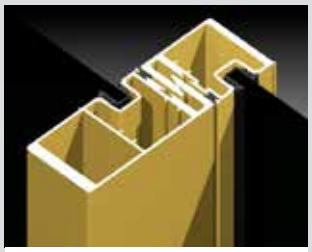
## KEY FEATURES

- This high-performance sliding door has been tested for compliance with the relevant Australian Standards.
- The extra strong multi-hollow meeting stiles allow large sliding doors to be fabricated in high wind load areas.
- There are a large variety of door combinations possible. XF, FX, FXF, FXXF, XXF, FXX, XXXF, FXXX, FXXXXXXF and FXXXXF. 90° corner units FX^XF and FXX^XXF are also available.
- Doors can be fitted with surface mounted deadlock, mortice lock or multi-point mortice lock.
- Doors run on heavy duty double or quad bogey wheel carriages.
- Variety of bottom rail and midrail sizes available. The tall square bottom rail is standard.
- Thresholds and snap-in flat filler ensure that the clean looks are maintained.
- Doors can be fitted with external sliding or internal Centor™ S1E retractable roller fly doors.

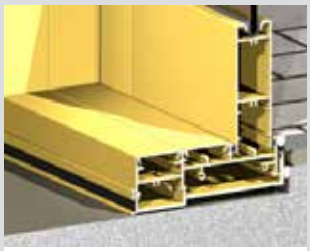


A unique, self-draining sub-sill is a feature of the 704.

The image above shows ICON™ recessed pull handle option used with commercial mortice lock. On heavy doors we recommend D-Pull handles.



We offer a variety of meeting stile combinations to cover most areas in Australia.



Standard tall, small, beveled and square rails are all an option. Standard tall square bottom rail illustrated above.

### GENERAL

**Max Panel Height***
3000mm

**Max Panel Width***
2500mm

**Max Glass Thickness**
24mm

**Frame Depth**
Various

### ENERGY

**UW Range**
3.0-6.2

**SHGC Range**
0.15-0.59

### WEATHER

**Maximum Water**
450 Pa.

### ACOUSTICS

**6.38mm Lam**
30 (0;-1)

**10.38mm Lam**
31 (-1;-1)

**10.5mm VLam Hush™**
33 (0;-2)



*Dimensions subject to individual site conditions.

CENTOR ARCHITECTURAL

# SIE ECO-SCREEN™ FOR ANY DOOR

Photo courtesy of Scope Doors & Windows

## COMPATIBLE WITH

### VANTAGE ALUMINIUM JOINERY

- Series 548 Bi-Fold Door
- Series 618 Sliding Door
- Series 730 Bi-Fold Door
- Series 731 Sliding Door

### ELEVATE ALUMINIUM SYSTEMS

- Series 410, 411, 412, 831, 832 Bi-Fold Door
- Series 702 Sliding Door
- Series 704 Sliding Door
- Series 852 Sliding Door
- Series 50, 52 Sliding Door

### Load Balancing Technology™

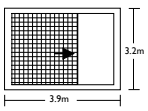
Load Balancing Technology (LBT™) allows for the effortless fingertip control synonymous with Centor™ products. With no crude spring-loading to fight against, the screen's lead stile remains firmly in any chosen position until further pressure is applied. Load-balancing also means far greater tension across the screen or blind, eliminating any tendency for sag.

### Tight Technology™

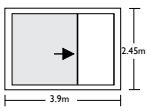
Tight Technology™ manufacturing techniques ensure control of the horizontal edges of the screen so they remain straight and tight across the widest spans.

### Shock Absorption

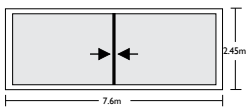
In the majority of cases the shock absorption mechanism prevents system damage by redirecting impact away from the screen.




**Single Function System** Opt 1

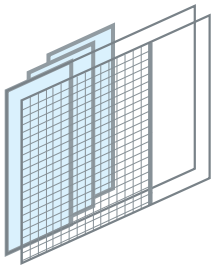



**Single Function System** Opt 2

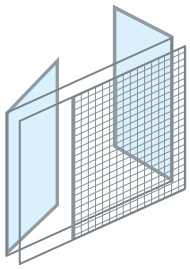



**Double Function System** Opt 1

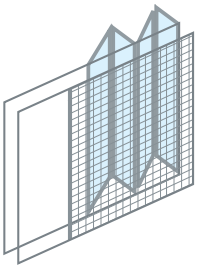
centor® ARCHITECTURAL



Sliding Doors



French Doors



## KEY FEATURES

- The SIE Eco-Screen™ from Centor Architectural is a revolutionary product providing eco-friendly retractable insect screening and solar control with fingertip operation. This product is the evolution of Centor's award-winning SI Insect Screen.
- SIE allows homeowners to have complete control of their living environment. Used singly or paired together SIE is ready for use whatever the season or time of day. SIE retracts horizontally and discreetly into its frame when not in use – a revolutionary solution for those who refuse to compromise on style.
- On openings up to 3.9m wide either single or multi-function options are available.
- Where a single function is required choose from insect screen or sun filter fabric. For a multi-function option select both fabrics to create a two-in-one screening solution.
- Create a multi-function system using sun filter and insect fabrics to provide solar control in the mornings and prevent insects entering the home in the evenings.
- For openings wider than 3.9m and up to 7.6m wide choose one fabric only, either mesh or blind for a double system.
- The solar control blind doubles as a projection screen for either indoor or outdoor viewing. Mechanisms within the system enable the blind to be left partially open, allowing visitors to pass through the doorway without the hassle of opening and closing the blind.
- The considered design of SIE complements any large opening. Available in a clear anodised finish, custom colours and real wood veneers, its mechanisms are concealed within the frame so screen and frame become an integrated unit.
- A range of Centor innovations ensure the whole package functions simply and smoothly.

**Self-Feeding Mechanism**

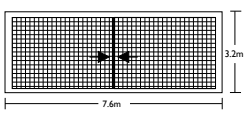
Should winds blow the screen out of the top or bottom channels the fabric will self-feed back onto the roll.

**Testing**

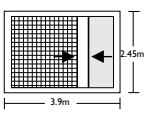
The SIE Eco-Screen™ has undergone cyclic testing to 400,000 operations in a laboratory and extensively exposed to dust, mud, sand and corrosive atmosphere to ensure it is a product for the real world. It has withstood impact testing with a 17kg punching bag 100 times and considerable pushing, poking and prodding to simulate real life usage.

**Materials**

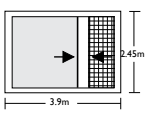
SIE is manufactured in a combination of aluminium, stainless steel, brass and reinforced engineering polymers. The blind is available in sun filter fabric. The tough PVC-coated polyester screen mesh is hardwearing and resistant to damage caused by pets and children.




**Double Function System** Opt 2




**Multi-function System** Opt 1




**Multi-function System** Opt 2

HARDWARE

# SYSTEM PORTFOLIO

Hardware is one of the defining features of windows and doors. The form and function of handles and latches provide a tactile experience that can considerably enhance the appearance and functionality of your windows and doors.

In developing the ANDO™, MIRO™ and ICON™ ranges, we have aimed to achieve three unique and stylish suites of hardware, giving you three distinct and contemporary selections for your windows and doors.

Consistent styling within each range was of paramount concern. Smooth, sleek lines for ANDO™, square contemporary styling for ICON™, and elegant design curves for MIRO™.

## ANDO

Form Follows Feeling

Developed to complement the modern design and clean lines of the Designer Series, the ANDO™ range brings a fresh and sleek look to residential windows and doors. Available across the range of window and door applications and in a wide variety of finishes, ANDO™ hardware offers a family appearance providing consistency throughout your project.

## ICON™

**Strength and Integrity**

The ICON™ hardware range is a fully integrated range of 316-grade stainless steel hardware for aluminium windows and doors.

The range offers superior weathering performance and outstanding durability making it suitable for all environments.

Developed for use with our high performance window systems, ICON™ incorporates a square-edge, rectilinear look which complements the lines of Designer Series or Architectural Series windows and doors.

## MIRO™

Contemporary Style

The MIRO™ range of window and door hardware is a blend of contemporary design and function. It offers a unified look from window to door.

The smooth, ergonomic MIRO™ shapes offer good aesthetics as well as a comfortable hand grip. Secure and convenient locking features have been included.

Manufactured from die-cast zinc and available in a range of contemporary powder coat finishes to match or contrast your aluminium joinery.

## Form Follows Feeling

Developed to complement the modern design and clean lines of the Designer Series, the ANDO™ range brings a fresh and sleek look to residential windows and doors. Available across the range of window and door applications and in a wide variety of finishes, ANDO™ hardware offers a family appearance providing consistency throughout your project.


TWO POINT SLIDING LOCK DOOR


SLIMLINE SLIDING DOOR LOCK


SINGLE POINT SLIDING DOOR LOCK


SLIDING DOOR HANDLE


BI-FOLD OPERATOR


LOCKING LEVER HANDLE


CHAINWINDER


SLIDING WINDOW LOCK


DOUBLE HUNG WINDOW LOCK

HARDWARE
# ICON™

### Strength and Integrity

ICON™ hardware is a fully integrated range of 316-grade stainless steel hardware for aluminium windows and doors.

The range offers superior weathering performance and outstanding durability making it suitable for all environments.

Developed for use with our high-performance window systems, ICON™ incorporates a square-edge, rectilinear look which complements the lines of Designer Series or Architectural Series windows and doors.


TWIN POINT SLIDING DOOR LOCK


SLIDING DOOR FLUSH PULL


SLIDING DOOR HANDLE


BI-FOLD OPERATOR


LEVER HANDLE


CASEMENT LATCH


SLIDING WINDOW LOCK

## Contemporary Style

The MIRO™ range of window and door hardware is a blend of contemporary design and function. It offers a unified look from window to door.

The smooth, ergonomic MIRO™ shapes offer good aesthetics as well as a comfortable hand grip. Secure and convenient locking features have been included.

Manufactured from die-cast zinc and available in a range of contemporary powder coat finishes to match or contrast your aluminium joinery.

SINGLE POINT SLIDING DOOR LOCK

BI-FOLD OPERATOR

SLIDING DOOR HANDLE

LEVER HANDLE

CASEMENT LATCH

HARDWARE
# COMPATIBILITY MATRIX

| | Residential Series | | | | | Designer Series | | | | | | | | Thermal HEART™ | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 514 | 516 | 517 | 541 | 542 | 546 | 548 | 549 | 601/2 | 613 | 616 | 616TR | 618 | 726 | 726TR | 729 | 730 | 731 |
| | D/hung | Awning | Awning | Sliding | Sliding | Bi-fold | Bi-fold | Hinged | Sliding | D/hung | Awning | Awning | Sliding | Awning | Awning | Hinged | Bi-fold | Sliding |
| ANDO™ | | | | | | | | | | | | | | | | | | |
| Single Point Sliding Door Lock | | | | ■ | ■ | | | | | | | | ■ | | | | | |
| Twin Point Sliding Door Lock | | | | ■ | ■ | | | | | | | | ■ | | | | | |
| Slimline Sliding Door Lock | | | | ■ | ■ | | | | | | | | ■ | | | | | |
| Sliding Door Handle (with mortice lock) | | | | | | | | | | | | | ■ | | | | | ■ |
| Bi-fold Operator | | | | | | ■ | ■ | | | | | | | | | | ■ | |
| Locking Lever Handle (2-point) | | | | | | | ■ | ■ | | | | | | | | ■ | ■ | |
| Locking Lever Handle (4-point) | | | | | | | ■ | ■ | | | | | | | | ■ | ■ | |
| Sliding Window Lock | | | | | | | | | ■ | | | | | | | | | |
| Chainwinder | | ■ | ■ | | | | | | | | ■ | | | ■ | | | | |
| Doule-hung Window Lock | ■ | | | | | | | | | ■ | | | | | | | | |
| MIRO™ | | | | | | | | | | | | | | | | | | |
| Single Point Sliding Door Lock | | | | ■ | ■ | | | | | | | | ■ | | | | | |
| Sliding Door D-pull (with mortice lock) | | | | | | | | | | | | | ■ | | | | | ■ |
| Bi-fold Operator | | | | | | ■ | ■ | | | | | | | | | | ■ | |
| Lever Handle (2-point) | | | | | | | ■ | ■ | | | | | | | | ■ | ■ | |
| Lever Handle (4-point) | | | | | | | ■ | ■ | | | | | | | | ■ | ■ | |
| Lever Handle (with lever compression lock) | | | | | | | ■ | ■ | | | | | | | | ■ | ■ | |
| Casement Latch | | ■ | ■ | | | | | | | | ■ | | | ■ | | | | |
| ICON™ | | | | | | | | | | | | | | | | | | |
| Twin Point Sliding Door Lock | | | | ■ | ■ | | | | | | | | ■ | | | | | |
| D-pull with ISEO Lock | | | | | | | | | | | | | ■ | | | | | ■ |
| Flush Pull (with mortice lock) | | | | | | | | | | | | | ■ | | | | | ■ |
| Bi-fold Actuator | | | | | | ■ | ■ | | | | | | | | | | ■ | |
| 2-Point Hinged Door Lock | | | | | | | ■ | ■ | | | | | | | | ■ | ■ | |
| Multi-point (4) Hinged Door Lock | | | | | | | ■ | ■ | | | | | | | | ■ | ■ | |
| Lever Compression Hinged Door Lock | | | | | | | ■ | ■ | | | | | | | | ■ | ■ | |
| Casement Latch | | ■ | ■ | | | | | | | | ■ | | | ■ | | | | |
| Sliding Window Lock | | | | | | | | | ■ | | | | | | | | | |
| TRUTH™ Winder | | | | | | | | | | | | ■ | | | ■ | | | |

| Commercial Thermal HEART™ | | | Commercial Series | | | | | | | Architectural Series | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 831 | 832 | 852 | 50/52 | 452 | 453 | 456 | 461 | 471 | 662 | 462 | 463 | 466 | 467 | 468 | 668 | 410 | 411 | 412 | 650 | 702 | 704 |
| Bi-Fold | Bi-Fold | Door | Hinged | Sliding | D/hung | Awning | Sliding | Sliding | Sliding | Sliding | D/hung | Awning | Awning | Awning | Awning | Bi-fold | Bi-fold | Bi-fold | Hinged | Sliding | Sliding |
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# SOLUTIONS FOCUSED

## BAL-40 BUSHFIRE TESTED SYSTEMS

**BAL-40 tested and certified systems for peace of mind in bushfire prone areas**

AWS has developed and tested an extensive range of Vantage, Elevate™ and ThermalHEART™ aluminium windows and doors to meet and exceed BCA requirements for compliance under Australian Standard AS3959-2009 for windows and doors in a BAL-40 bushfire zone. These products are engineered, tested and certified to withstand the conditions likely to occur in a BAL-40 zone and are designed to help you protect your home whilst still delivering unprecedented style, efficiency and functionality for your lifestyle.

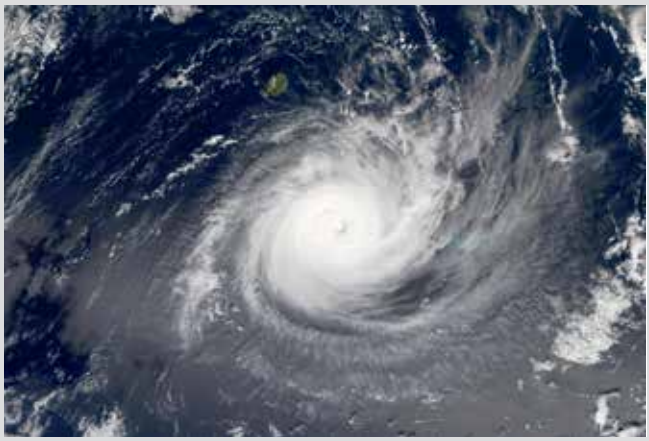
## SAFE4KIDS™

**Windows with restricted openings for use in elevated applications**

Injury and death of children as a result of falls from windows are a tragic and preventable occurrence. The Australian Building Code has been updated in 2013 to establish regulations for the installation of windows with restricted openings in applications where there is a risk of injury or death from accidental falls. AWS supports this initiative and has undertaken extensive research and development to allow the supply and installation of compliant window systems that will reduce the risk of injury.

AWS is committed to offering architects, designers, builders and homeowners window and door solutions which not only provide light and ventilation but help to create unique living spaces protected from harsh environmental elements. All Vantage aluminium window and door systems are tested to meet and exceed Australian Standards.

Throughout our literature and website, products which meet the specific requirements of the BCA for bushfire zones, extreme weather conditions, elevated openings and noise abatement are identified with the tags illustrated below to assist you in selecting the ideal window or door system for your project. Delivering peace of mind always.



## ACOUSTICS TESTED

**Tested systems delivering enhanced acoustic performance**

Through considered innovation, AWS offers a range of windows and doors from the Elevate™, Vantage and ThermalHEART® brands to assist in insulating the building envelope from unwanted noise - making it easier to create beautiful living spaces which meet contemporary aspirations for efficiency and comfort.

These systems are tested by the National Acoustic Laboratories to provide the highest level of assurance in their performance integrity.

## CYCLONE TESTED

**Systems designed to withstand the harshest of environments, tested to meet and exceed requirements for cyclone regions C and D.**

AWS

# TESTED AND CERTIFIED SYSTEMS

## AWS tested and or certified systems

The Building Code of Australia is becoming increasingly stringent, demanding exceptional performance of compliant products. AWS is committed to delivering an extensive suite of window and door systems which comply with the BCA and all relevant Australian Standards.

Throughout our printed literature and website, products which meet the specific requirements of the BCA for bushfire zones, extreme weather conditions, elevated openings and noise abatement are identified with the tags illustrated here to assist you in selecting the ideal window or door system for your project. Delivering peace of mind always.


All AWS window and door systems meet or exceed the requirements of AS2047 for materials, construction, strength, water & airtightness.


BAL-40 tested and certified products meet requirements for windows in BAL-40 zones under AS3959-2009, the Australian Standard for construction in bushfire-prone areas.


AWS SAFE4KIDS™ products have been tested to comply with the requirements set out by the BCA for operable windows in elevated applications.


AWS window and door systems which are acoustics tested have been assessed by the National Acoustic Laboratories for the abatement of airborne sound transmission.


Cyclone tested AWS window and door systems meet and exceed the requirements for windows and doors in cyclone regions C & D under BCA and AS1170-2002.

IMPORTANT NOTE: When specifying AWS systems for bushfire applications, cyclone regions or applications where SAFE4KIDS™ features are required, ensure you inform your fabricator up-front. Products must be manufactured specifically to comply with requirements for these applications.

| | | AS2047 TESTED-CERTIFIED | BAL40 TESTED-CERTIFIED | SAFE4KIDS TESTED-CERTIFIED | CYCLONE TESTED-CERTIFIED | ACOUSTICS TESTED-CERTIFIED |
|---|---|---|---|---|---|---|
| Residential Series | Series 502, 504, 506 Sliding Window | ■ | ■ | ■ | | ■ |
| | Series 514 Double-hung Window | ■ | | ■ | | ■ |
| | Series 516 Awning Window | ■ | ■ | ■ | | ■ |
| | Series 517 Awning Window | ■ | ■ | ■ | | |
| | Series 541 Sliding Door | ■ | | N/A | | ■ |
| | Series 542 D'Stacker™ Sliding Door | ■ | ■ | N/A | | |
| | Series 549 Entry Door | ■ | ■ | N/A | | |
| Designer Series | Series 525 Louvre Windows | ■ | | | | |
| | Series 546 Bi-fold Window | ■ | | | | |
| | Series 548 French Doors | ■ | ■ | N/A | | |
| | Series 548 Bi-fold Doors | ■ | ■ | N/A | | |
| | Series 602 Sliding Window | ■ | ■ | ■ | ■ | ■ |
| | Series 613 Sashless Double-hung Window | ■ | | ■ | | |
| | Series 614 Double-hung Window | ■ | | ■ | | ■ |
| | Series 616 Awning Window | ■ | ■ | ■ | ■ | ■ |
| | Series 616 Casement Window | ■ | | ■ | | ■ |
| | Series 616T Awning/Casement Window | ■ | | ■ | | |
| | Series 618 Sliding Door | ■ | ■ | N/A | ■ | ■ |
| ThermalHEART™ | Series 726 Awning Window | ■ | ■ | ■ | | ■ |
| | Series 726 Casement Window | ■ | | ■ | | ■ |
| | Series 726T Awning/Casement Window | ■ | | ■ | | |
| | Series 729 Hinged Door | ■ | ■ | N/A | | |
| | Series 730 Bi-fold Door | ■ | ■ | N/A | | |
| | Series 731 Sliding Door | ■ | ■ | N/A | | ■ |

■ Denotes system has been tested to comply with relevant standards. N/A = Standard not applicable to this system.

| | | AS2047 TESTED-CERTIFIED | BAL40 TESTED-CERTIFIED | SAFE4KIDS TESTED-CERTIFIED | CYCLONE TESTED-CERTIFIED | ACOUSTICS TESTED-CERTIFIED |
|---|---|---|---|---|---|---|
| SPECIALTY | Series 531 SoundOUT™ Sliding Window | N/A | N/A | N/A | | ■ |
| | Series 532 SoundOUT™ Casement | N/A | N/A | N/A | | ■ |
| | Series 533 SoundOUT™ Sliding Door | N/A | N/A | N/A | | ■ |
| COMMERCIAL FRAMING | Series 400 CentreGLAZE™ SG (102mm) | ■ | ■ | N/A | ■ | ■ |
| | Series 620 CentreGLAZE™ (150mm) | ■ | | N/A | | |
| | Series 424 CentreGLAZE™ DG (102mm) | ■ | ■ | N/A | ■ | ■ |
| | Series 624 CentreGLAZE™ DG (150mm) | ■ | ■ | N/A | ■ | |
| | Series 406 FrontGLAZE™ SG (102mm) | ■ | ■ | N/A | | |
| | Series 606 FrontGLAZE™ SG (150mm) | ■ | ■ | N/A | | |
| | Series 426 FrontGLAZE™ DG (102mm) | ■ | ■ | N/A | ■ | |
| | Series 626 FrontGLAZE™ DG (150mm) | ■ | ■ | N/A | ■ | |
| | Series 646 FrontGLAZE™ | | | | | |
| | Series 80 Narrow Offset (80mm) | ■ | | N/A | | |
| | Series 600 Wide Offset (150mm) | ■ | ■ | N/A | | |
| | Series 407 FaceLINE™ (102mm) | ■ | | N/A | | |
| | Series 607 FaceLINE™ (150mm) | ■ | | N/A | | |
| | Series 936 CentreGLAZE™ (225mm) | ■ | | | ■ | ■ |
| THERMAL | Series 804 Thermally Broken CentreGLAZE™ (100mm) | ■ | ■ | N/A | | ■ |
| | Series 806 Thermally Broken CentreGLAZE™ (150mm) | ■ | ■ | N/A | | |
| | Series 824 Thermally Broken FrontGLAZE™ (100mm) | ■ | ■ | N/A | | |
| | Series 826 Thermally Broken FrontGLAZE™ (150mm) | ■ | ■ | N/A | | |
| | Series 852 Thermally Broken Commercial Door | ■ | ■ | N/A | | |
| COMMERCIAL SERIES | Series 50 Commercial Door | ■ | ■ | N/A | | |
| | Series 51 Commercial Door | ■ | | N/A | | |
| | Series 52 Commercial Door | ■ | ■ | N/A | ■ | |
| | Series 452 Commercial Sliding Window | ■ | ■ | ■ | | |
| | Series 453 Commercial Double-Hung Window | ■ | | ■ | | |
| | Series 456 Commercial Awning Window | ■ | ■ | ■ | | |
| | Series 461 Apartment Sliding Window | ■ | ■ | ■ | | |
| | Series 471 Apartment Sliding Door | ■ | ■ | N/A | | |
| | Series 662 Sliding Window | ■ | | ■ | | |
| | Series 668 Awning/Casement Window | ■ | | ■ | | |
| ARCHITECTURAL SERIES | Series 417 LouvreMASTER™ | | | | | |
| | Series 410 FoldMASTER™ Bi-fold (Bottom rolling) | ■ | ■ | N/A | | |
| | Series 411 ViewMASTER™ Bi-fold (Top Hung) | ■ | | N/A | | |
| | Series 412 FoldMASTER™ Bi-fold (Bottom rolling) | ■ | | | | ■ |
| | Series 462 Architectural Sliding Window | ■ | ■ | ■ | | |
| | Series 463 Architectural Double-Hung Window | ■ | | ■ | | |
| | Series 464 ClearVENT™ Sashless Double-Hung | ■ | | ■ | | |
| | Series 466 Awning Window | ■ | ■ | ■ | | ■ |
| | Series 466 Casement Window | ■ | | ■ | | ■ |
| | Series 467 Awning/Casement Window (Truth™) | ■ | | ■ | | |
| | Series 468 Awning/Casement Window (Truth™) | | | | | |
| | Series 662 Sliding Window | | | | | |
| | Series 668 Awning/Casement Window (Truth™) | | | | | |
| | Series 650 Architectural Hinged Door | ■ | ■ | N/A | | |
| | Series 701 SlideMASTER™ Sliding Window | ■ | | ■ | | |
| | Series 702 SlideMASTER™ Sliding Door | ■ | | N/A | | |
| | Series 704 SlideMASTER™ Sliding Door | ■ | | N/A | | ■ |

■ Denotes system has been tested to comply with relevant standards. N/A = Standard not applicable to this system.

AWS

# ACOUSTICS TESTED SYSTEMS

| Series | Description | Glass | Rw (C;$C_{tr}$) | Test Report |
|---|---|---|---|---|
| 400 | CentreGLAZE™ | 6.5 VLam Hush™ | 34 (0;-3) | 4867-5 REV A |
| 400 | CentreGLAZE™ | 10.5 VLam Hush™ | 37 (0;-3) | 4867-6 REV A |
| 400 | CentreGLAZE™ | 10.38 Lam | 34 (-1;-2) | 4867-7 REV A |
| 400 | CentreGLAZE™ | 6.38 Lam | 32 (-2;-3) | 4867-8 REV A |
| 411 | Top-hung Bi-fold Door | 6.38 Lam | 28 (0;-2) | 4867-22 |
| 411 | Top-hung Bi-fold Door | 8.38 lam | 31 (-1,-2) | 4867-23 |
| 424 | CentreGLAZE™ | 8.5 VLam Hush™/10mm Air/6.5 VLam Hush™ | 39 (-2;-6) | 4867-1 |
| 424 | CentreGLAZE™ | 6.5 VLam Hush™/12mm Air/6mm Tgh | 36 (-1;-5) | 4867-2 |
| 466 | Commercial Awning Window | 6.5mm VLam Hush™/10mmAir/8.5 VLam Hush™ | 41 (-1;-5) | 4867-10 |
| 466 | Commercial Awning Window | 6mm Tgh/12mmAir/6.5 VLam Hush™ | 40 (-1;-5) | 4867-11 |
| 466 | Commercial Awning Window | 6.5mm VLam Hush™ | 35 (-1;-4) | 4867-9 |
| 471 | Apartment Sliding Door | 6.5 VLam Hush™ | 32 (-1,-3) | 4867-19 |
| 471 | Apartment Sliding Door | 10.5 VLam Hush™ | 33 (0,-2) | 4867-20 |
| 471 | Apartment Sliding Door | 6.5VLam Hush™ / 8Air / 5Toughened | 33 (-1;-2) | 4867-21 |
| 504 | Sliding Window | 3mm float | STC22 | ATF283 |
| 504 | Sliding Window | 6.38mm Lam | 32 (-1;-2) | ATF813 |
| 504 | Sliding Window | 7.52mm Lam | 32 (-1;-2) | ATF814 |
| 514 | Double-hung Window | 7.52mm Lam | 30 (-2;-3) | AFT785 |
| 514 | Double-hung Window | 5mm float | 28 (-2;-3) | ATF783 |
| 514 | Double-hung Window | 6.38mm Lam | 29 (-3;-4) | ATF784 |
| 514 | Double-hung Window | 7.52mm Lam | 30 (-2;-3) | ATF785 |
| 516 | Awning Window | 6.38mm Lam | 34 (-1; -2) | ATF1195 |
| 516 | Awning Window | 3mm | STC30 | ATF262 |
| 516 | Awning Window | 10.38mm Lam | STC36 | ATF265 |
| 531 | SoundOUT™ Sliding Window with primary 504 Awning Window (3mm float) and 100mm air gap | 6.38mm Lam | STC38 | ATF284 |
| 531 | SoundOUT™ Sliding Window with primary 504 Sliding Window (3mm float) and 100mm air gap | 7.52mm Lam | 41 (-2; -8) | ATF816 |
| 531 | SoundOUT™ Sliding Window with primary 504 Sliding Window (3mm float) and 100mm air gap | 6.38mm Lam | 41 (-2; -7) | ATF817 |
| 532 | SoundOUT™ Sliding Window with primary 516 Awning Window (3mm float) and 100mm air gap | 6.38mm Lam | STC45 | ATF263 |
| 532 | SoundOUT™ Sliding Window with primary 516 Awning Window (3mm float) and 100mm air gap | 10.38mm Lam | STC50 | ATF264 |
| 533 | SoundOUT™ Sliding Door with primary 541 Sliding Door (4mm Tgh) and 100mm air gap | 6.38mm Lam | 42 (-1;-6) | ATF798 |
| 533 | SoundOUT™ Sliding Door with primary 541 Sliding Door (4mm Tgh) and 100mm air gap | 6.38mm Lam | 42 (-1;-6) | ATF799 |
| 533 | SoundOUT™ Sliding Door with primary 541 Sliding Door (4mm Tgh) and 100mm air gap | 4mm Tgh | 41 (-2;-7) | ATF800 |
| 533 | SoundOUT™ Sliding Door | 6.38mm Lam | 30 (1;-1) | ATF801 |

AWSwindow and door systems which are acoustics tested have been assessed by the National Acoustic Laboratories for the abatement of airborne sound transmission.

| Series | Description | Glass | Rw ($C;C_{tr}$) | Test Report |
|---|---|---|---|---|
| 533 | SoundOUT™ Sliding Door | 7.52mm Lam | 31 (1;-1) | ATF802 |
| 541 | Sliding Door | 6.38mm Lam | 30 (-3;-4) | ATF792 |
| 541 | Sliding Door | 6.38mm Lam | 32 (-1;-2) | ATF793 |
| 541 | Sliding Door | 10.38mm Lam | 35 (-2;-3) | ATF794 |
| 541 | Sliding Door | 7.52mm Lam | 32 (0;-1) | ATF795 |
| 541 | Sliding Door | 5mm Tgh/9mm Air/5mm Tgh | 33 (-1;-3) | ATF796 |
| 541 | Sliding Door | 4mm Tgh | 28 (-1;-2) | ATF797 |
| 548 | French Door System Outward Opening | 5mm Tgh/9mm Air/5mm Tgh | 33 (-2; -4) | ATF803 |
| 548 | French Door System Outward Opening | 6.38mm Lam | 32 (-2; -3) | ATF804 |
| 601 | Sliding Window | 4mm Float | 31 (-1;-2) | ATF1198 |
| 601 | Sliding Window | 10.38mm Lam | 35 (0;-1) | ATF1199 |
| 601 | Sliding Window | 6.38mm Lam | 33 (0;-1) | ATF1200 |
| 601 | Sliding Window | 4mm float/8mm Air/4mm Float | 32 (0;-2) | ATF1201 |
| 613 | Double-Hung Window | 6.38mm Lam | 30 (0;-1) | ATF1320 |
| 614 | Sashless Double-hung | 6mm float | 26 (0;0) | ATF1202 |
| 616 | Awning Window | 4mm float | 32 (-2;-3) | ATF1210 |
| 616 | Awning Window | 6.38mm Lam | 34 (-1;-2) | ATF1211 |
| 616 | Awning Window | 10.38mm Lam | 36 (-1;-2) | ATF1212 |
| 616 | Awning Window | 6mm/12mm Air/6mm | 35 (-1;-3) | ATF1213 |
| 618 | MAGNUM™ Sliding Door | 6.38mm VLam Hush™ | 32 (0;-2) | 4867-16 |
| 618 | MAGNUM™ Sliding Door | 10.5mm VLam Hush™ | 34 (0;-2) | 4867-17 |
| 618 | MAGNUM™ Sliding Door | 6.5VLam Hush™ / 8Air / 5mm Toughened | 35 (-1;-4) | 4867-18 |
| 646 | SoundOUT™ FrontGLAZE™ | 12.50mm VLam Hush™ / 87.5 Air /12.50mm VLam Hush | 51 (-2,-6) | 14-086-01 |
| 646 | SoundOUT™ FrontGLAZE™ | 10.50mm VLam Hush™ / 87.5 Air /10.50mm VLam Hush | 50 (-1,-5) | 14-086-02 |
| 646 | SoundOUT™ FrontGLAZE™ | 10.38mm VLam Hush™ / 87.5 Air /10.38mm VLam Hush | 46 (-2,-5) | 14-086-03 |
| 646 | SoundOUT™ FrontGLAZE™ | 10.5mm VLam Hush™ / 92.5 Air /6.50mm VLam Hush | 50 (-2,-6) | 14-086-04 |
| 646 | SoundOUT™ FrontGLAZE™ | 6.5mm VLam Hush/97.5Air/6.5mm VLam Hush | 48 (-2,-6) | 14-086-05 |
| 646 | SoundOUT™ FrontGLAZE™ | 6.38mm Lam /97.5mm Air/6.38mm Lam | 43 (-2,-6) | 14-086-06 |
| 704 | SlideMASTER™ Sliding Door | 6.38mm Lam | 30 (0;-1) | ALA10-080 |
| 704 | SlideMASTER™ Sliding Door | 10.38mm Lam | 31 (-1;-1) | ALA10-080 |
| 704 | SlideMASTER™ Sliding Door | 10.5 VLam Hush™ | 33 (0;-2) | ALA10-080 |
| 726 | Thermally Broken Awning Window | 8.5 VLam Hush™/10mm Air/6.5 VLam Hush™ | 41 (-1;-5) | 4867-12 |
| 726 | Thermally Broken Awning Window | 6.5 VLam Hush™/12mm Air/6mm Tgh | 40 (-1;-5) | 4867-13 |
| 731 | Thermally Broken Sliding Door | 8.5 VLam Hush/10mm Air/6.5 VLam Hush™ | 37 (-1,-3) | 4867-14 |
| 731 | Thermally Broken Sliding Door | 6mm Tgh/12mm Air/6.5 VLam Hush™ | 37 (-1,-4) | 4867-15 |
| 804 | Thermally Broken CentreGLAZE™ | 8.5 VLam Hush™/10mm Air/6.5 VLam Hush™ | 39 (-1;-6) | 4867-3 |
| 804 | Thermally Broken CentreGLAZE™ | 6.5 VLam Hush™/12mm Air/6mm Tgh | 37 (-1;-5) | 4867-4 |
| | Sliding Window | 3mm/13mm Air/3mm | 30 (-1;-3) | ATF815 |
| | Sliding Window | 6.38mm Lam | 31 (0;-1) | ATF818 |
| | Sliding Window | 7.52mm Lam | 31 (0;-1) | ATF819 |

GLASS SELECTION

# GLAZING COMPATABILITY

## AWS Glazing Compatibility

There are three main things to consider when selecting glass for your AWS windows and doors: natural light, solar heat gain and thermal conductivity. By choosing the right performance glass, you can enjoy your views and natural light while controlling UV and glare. Benefit from the natural warming effect of solar heat during winter and minimise its impact during summer. And insulate the building envelope against excessive heat loss or gain. By understanding your climate's heating and cooling needs, you can determine your overall glass selection priorities. Performance glass can also help to overcome site limitations so you can still enjoy your views without compromising your home's energy efficiency. You can combine energy efficient glass with other options, including glass that reduces noise, provides protection from intruders and creates shelter from extreme weather to create the perfect windows for your home. The tables below help you understand what glass thicknesses can be glazed into AWS systems.

| | Monolithic Glass | | | | | | Laminated Glass | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Residential Series | 4 | 5 | 6 | 8 | 10 | 12 | 6.38 | 6.50 | 6.76 | 7.52 |
| 504 Sliding Window | ■ | ■ | ■ | | | | ■ | | ■ | ◊ |
| 514 Double Hung | ■ | ■ | ■ | | | | ■ | | ■ | ◊ |
| 516/7 Awning/casements | ■ | ■ | ■ | | | | ■ | | ■ | |
| 525 Louvre | | | ■ | | | | | | | |
| 541 Sliding Door | ■ | ■ | ■ | | | | ■ | | ■ | ■ |
| 542 D-Stacker | ■ | ■ | ■ | | | | ■ | | ■ | ■ |
| 548 Hinged Door | | ■ | ■ | | | | ■ | | | |
| 548 Bi-Fold Door | | ■ | ■ | | | | ■ | | | |
| 549 Entry Door | | ■ | ■ | | | | ■ | | | |

| Designer Series | 4 | 5 | 6 | 8 | 10 | 12 | 6.38 | 6.50 | 6.76 | 7.52 |
|---|---|---|---|---|---|---|---|---|---|---|
| 601 Magnum Sliding | ■ | ■ | ■ | | | | ■ | | ■ | ■ |
| 602 Magnum Sliding | ■ | ■ | ■ | | | | ■ | | ■ | ■ |
| 613 Magnum Double Hung | ■ | ■ | ■ | | | | ■ | | ■ | |
| 614 Magnum Clearvent | | ■ | ■ | | | | | | | |
| 616 Magnum Awning/Casement | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | ■ |
| 616T Magnum Awn/Cas Truth Hardware | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | ■ |
| 618 Magnum Sliding Door | ■ | ■ | ■ | | | | ■ | | | ■ |

| ThermalHEART™ | 4 | 5 | 6 | 8 | 10 | 12 | 6.38 | 6.50 | 6.76 | 7.52 |
|---|---|---|---|---|---|---|---|---|---|---|
| 726 Thermal Heart Awning/Casement | ■ | ■ | ■ | | | | ■ | | | |
| 729 Thermal Heart Hinged Door | ■ | ■ | ■ | | | | ■ | | | |
| 730 Thermal Heart Bi-Fold Door | ■ | ■ | ■ | | | | ■ | | | |
| 731 Thermal Heart Sliding Door | ■ | ■ | ■ | | | | ■ | | | |

◊ Indicated adaptors required

Monolithic glass
(single sheet)

Laminated Glass
(polymer interlayer)

IGU
(2-Sheets of glass
with air or argon gap)

| Laminated Glass | | | | | IGU's | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8.38 | 10.38 | 10.50 | 12.38 | 12.50 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 |
| | ◊ | | | | | ◊ | | ◊ | | | | | | |
| | ◊ | | | | | | | | | | | | | |
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| ■ | ■ | | | | ■ | ◊ | ◊ | ◊ | | | | | | |
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| | | | | | | ■ | | ■ | | | | | | |

| 8.38 | 10.38 | 10.50 | 12.38 | 12.50 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ■ | | | | ■ | ◊ | ◊ | ◊ | | | | | | |
| | ■ | | | | ■ | ◊ | ◊ | ◊ | | | | | | |
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| ■ | ■ | | | | ■ | | | ■ | | | | | | |

| 8.38 | 10.38 | 10.50 | 12.38 | 12.50 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ■ | ■ | | | | | ■ | | ■ | | ■ | | | | ■ |
| ■ | ■ | | | | | ■ | | ■ | ■ | ■ | | | | ■ |
| ■ | ■ | | | | | ■ | | ■ | ■ | ■ | | | | ■ |
| ■ | ■ | | | | | ■ | | ■ | ■ | ■ | | | | ■ |

GLASS SELECTION

# GLAZING COMPATIBILITY

| | Monolithic Glass | | | | | | Laminated Glass | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Commercial Series | 4 | 5 | 6 | 8 | 10 | 12 | 6.38 | 6.50 | 6.76 | 7.52 |
| 50 Series Door | ■ | ■ | ■ | | | | ■ | | | |
| 51 Series Door | ■ | ■ | ■ | | | | ■ | | | |
| 52 Series Door | | | ■ | | | | ■ | | | |
| 452 Res Slider into Commercial | ■ | ■ | ■ | | | | ■ | | ■ | ◊ |
| 453 Res D/Hung into Commercial | ■ | ■ | ■ | | | | ■ | | ■ | ◊ |
| 456 Res Awning into Commercial | ■ | ■ | ■ | | | | ■ | | ■ | |
| 461 Apartment Sliding Window | ■ | ■ | ■ | | | | ■ | | ■ | ■ |
| 471 Apartment Sliding Door | ■ | ■ | ■ | | | | ■ | | ■ | ■ |
| | | | | | | | | | | |
| Architectural Series | 4 | 5 | 6 | 8 | 10 | 12 | 6.38 | 6.50 | 6.76 | 7.52 |
| 462 Commercial Sliding Window | ■ | ■ | ■ | | | | ■ | | ■ | ■ |
| 463 Commercial Double Hung | ■ | ■ | ■ | | | | ■ | | ■ | |
| 464 ClearVENT™ into Commercial | | ■ | ■ | | | | ■ | | | |
| 466 Commercial Awning/Casement | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | ■ |
| 467 Commercial Awning/Casement (Truth™) | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | ■ |
| 468 Commercial Awning/Casement (Truth™) | ■ | ■ | ■ | | | | ■ | | | |
| 662 Commercial sliding window | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | ■ |
| 668 Commercial Awning (Truth™) | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | ■ |
| 410 Bottom Run Bi-Fold Door | | | ■ | | | | ■ | | | |
| 411 Top Hung Bi-Fold Door | | | ■ | | | | ■ | | | |
| 412 Bottom Run Bi-Fold Door | | | ■ | | | | ■ | | | |
| 702 SlideMASTER™ Door | ■ | ■ | ■ | | | | ■ | | | ■ |
| 704 SlideMASTER™ Door | ■ | ■ | ■ | | | | ■ | | | ■ |

| Commercial Framing | 4 | 5 | 6 | 8 | 10 | 12 | 6.38 | 6.50 | 6.76 | 7.52 |
|---|---|---|---|---|---|---|---|---|---|---|
| 105 Office Partition System | | | ■ | | | | ■ | ■ | | |
| 80 Offset Narrow Frame | | ■ | ■ | | | | ■ | | ■ | |
| 400 CentreGLAZE™ | | ■ | ■ | | | | ■ | | ■ | |
| 406/606 FrontGLAZE™ | | | ■ | | | | ■ | | | |
| 424/624 DG CentreGLAZE™ | | | ◊ | ◊ | ◊ | | ◊ | | | |
| 426/626 DG FrontGLAZE™ | | ◊ | ◊ | | | | ◊ | | | |
| 407/607 FaceLINE™ | | | ■ | ■ | ■ | | ■ | | | |
| 600 Wide Offset Framing | | ■ | | | | | ■ | | | |
| 620 CentreGLAZE™ | ■ | ■ | ■ | | | | ■ | | ■ | |
| 646 Commercial SoundOUT™ FrontGLAZE™ | | | ■ | ■ | ■ | | ■ | ■ | | |
| 936 Commercial DG FrontGLAZE™ framing | | | ■ | ■ | ■ | ■ | | | | |

| ThermaHEART™ Commercial | 4 | 5 | 6 | 8 | 10 | 12 | 6.38 | 6.50 | 6.76 | 7.52 |
|---|---|---|---|---|---|---|---|---|---|---|
| 804/806 Centre Glazed | | ◊ | ◊ | ◊ | ◊ | ◊ | ◊ | | | |
| 824/826 Centre Glazed | | ◊ | ◊ | ◊ | ◊ | ◊ | ◊ | | | |
| 831 Bi-Fold Door Top Hung | | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| 832 Bi-Fold door Bottom rolling | | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| 852 Thermal Commercial Hinged/Sliding Door | | ■ | ■ | ■ | ■ | ■ | ■ | | | |

◊ Indicated adapters required

| Laminated Glass | | | | | IGU's | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8.38 | 10.38 | 10.50 | 12.38 | 12.50 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 |
| ■ | ■ | | | | | | | | | | | | | |
| ■ | ■ | | | | | | | | | | | | | |
| ■ | ■ | | | | | | ■ | ■ | | ■ | ■ | ■ | ■ | |
| | ■ | | | | | ◊ | ◊ | ◊ | | | | | | |
| | ◊ | | | | | | | | | | | | | |
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| | ■ | | | | ■ | ◊ | ◊ | ◊ | | | | | | |
| ■ | ■ | | | | ■ | ◊ | ◊ | ◊ | | | | | | |

| 8.38 | 10.38 | 10.50 | 12.38 | 12.50 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ■ | | | | ■ | ◊ | ◊ | ◊ | | | | | | |
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| ■ | ■ | | | | ■ | ◊ | ◊ | ◊ | | | | | | |
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| ■ | ■ | | | | | | ■ | ■ | | ■ | ■ | ■ | ■ | |
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| ■ | ■ | | | | | | ■ | ■ | | ■ | ■ | ■ | ■ | |
| ■ | ■ | | ■ | | | | | ■ | | ■ | | | | |
| ■ | ■ | | ■ | | | | | ■ | | ■ | | | | |

| 8.38 | 10.38 | 10.50 | 12.38 | 12.50 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ■ | ■ | ■ | ■ | ■ | | | | | | | | | | |
| ■ | ■ | | | | | | ◊ | ◊ | | ◊ | ◊ | ◊ | ◊ | |
| ■ | ■ | | | | | | ◊ | ◊ | | ◊ | ◊ | ◊ | ◊ | |
| ■ | ■ | | | | | | | | | | | | | |
| ◊ | ◊ | | ◊ | | | | ■ | ■ | | ■ | ■ | | | |
| ◊ | ◊ | | | | | ■ | | | | ■ | | | | |
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| ■ | ■ | | | | | | ◊ | ◊ | | ◊ | ◊ | ◊ | ◊ | |
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| | | | | | | | | | | ■ | ■ | | ■ | |

| 8.38 | 10.38 | 10.50 | 12.38 | 12.50 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ◊ | ◊ | | ◊ | | | | ■ | ■ | | ■ | | ■ | | |
| ◊ | ◊ | | ◊ | | | ■ | ■ | ■ | | ■ | | ■ | | |
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GLASS SELECTION

# AUSTRALIAN STANDARD AS1288 - 2006

**A note on Australian Standard 1288 – 2006**

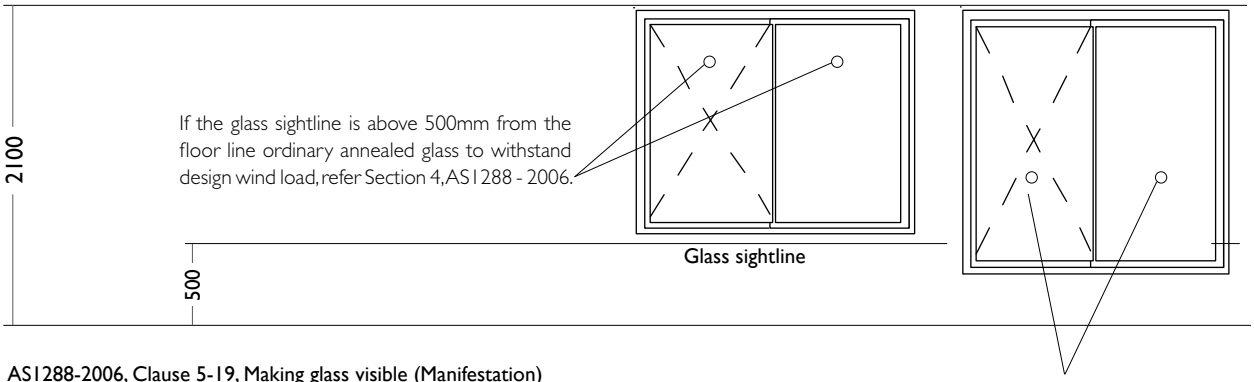
AS1288 – 2006 sets out data and procedures for determining glass types and thickness requirements for all buildings and is referenced in the Building Code of Australia 2006. Glass strength requirements are given for glazing based on the tensile stresses developed on the surface of the glass. The objective of this standard is to provide uniform and safe direction for the use and installation of glazing throughout Australia, to allow its use in legislation and to clarify technical definitions.

This Australian Standard gives particular consideration to human impact safety requirements extensively covered in Section 5 of the Standard. There was recognition that accidents involving glass continue at a high rate and at considerable cost to the community. With these factors in mind, more areas where safety glass is required have been introduced with reduction in the use of ordinary annealed glass.

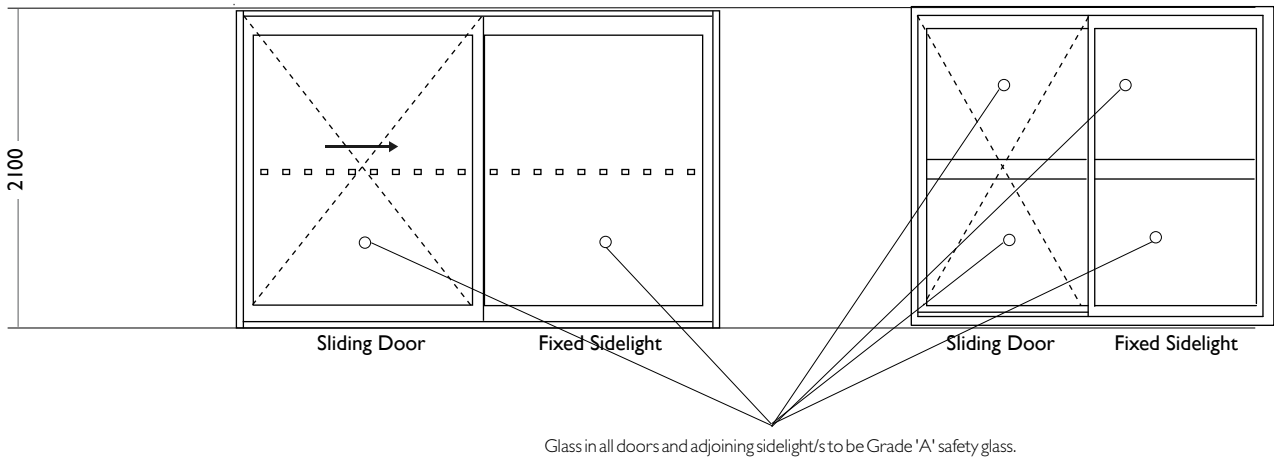
This Standard has been closely aligned with international practice by the adoption of selected criteria from international Standards and the change to ultimate limit state design in the new wind load code AS/NZS1170 has necessitated the corresponding upgrading of the wind loading charts.
All applications of glazing should be carried out in accordance with AS1288-2006 to ensure that the minimum Australian standard is met.
Examples: Door panels and panes of glass that have the potential to obstruct the path of travel require Grade 'A' safety glass (toughened or laminated glass).
Refer Australian Standard AS1288 for full details.

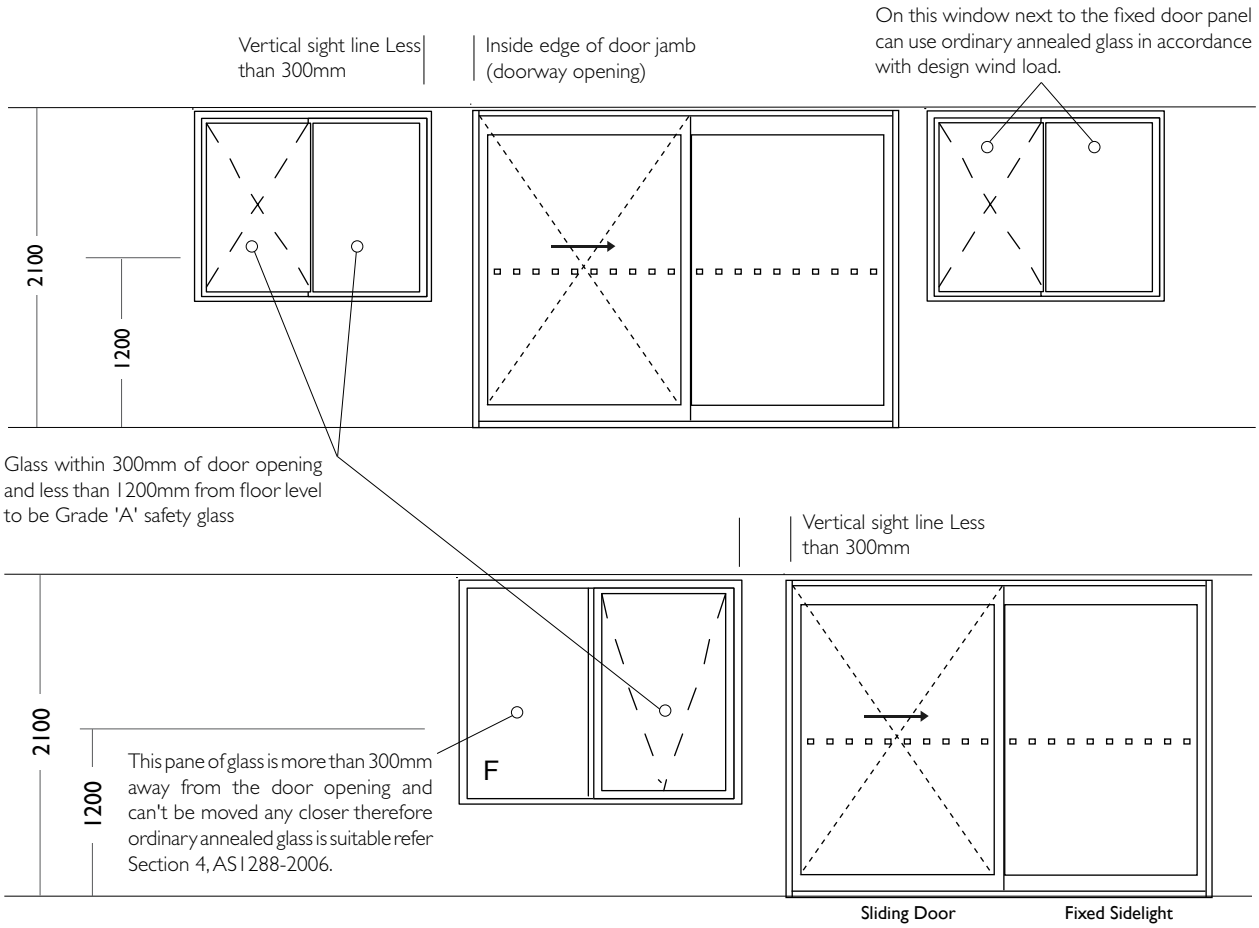
Using laminated glass in other areas also has significant advantages:

- Sound reduction: Our testing has shown that laminated glass is as good as an insulating glass unit (with the same overall glass thickness) in sound reduction.
- Security: Laminated glass is much harder to break through as the laminate keeps the broken glass in position after attack.
- UV Resistance: The PVB film between the glass layers eliminates 99% ultra violet radiation. This reduces carpet and furniture fading.



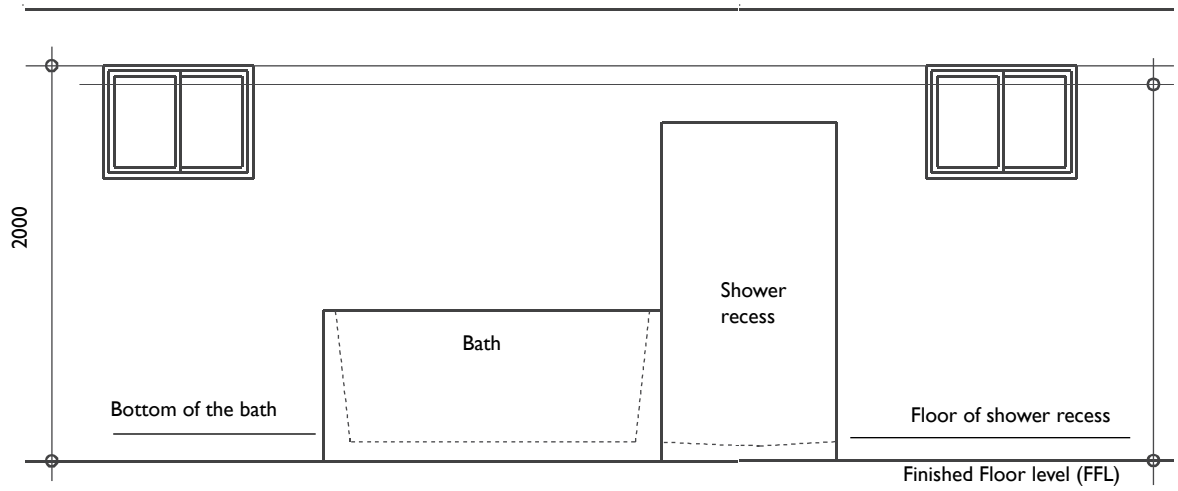

**AS1288-2006, Clause 5-19, Making glass visible (Manifestation)**
If the presence of glass in a door, side panel or panel capable of being mistaken for a doorway or opening is not apparent by transoms, colonial bars, other components of the glazing system, or other decorative treatment, such as being opaque, or patterned, the glass shall be marked to make it visible. Refer AS1288-2006 for details on glass marking and location of this marking.






**These windows require Grade 'A' safety glass**

All glazing within 2000mm off the finished floor level (FFL) in a wet area must be Grade 'A' safety glass
Refer to with Section 5, AS1288-2006.



AWS
# COLOUR SELECTION

Choosing a colour for your window and door systems requires careful thought. All Vantage and Elevate™ window and doors are made to order so you have complete freedom to choose the perfect colour and finish for your project.

## STANDARD COLOURS

| | |
|---|---|
| **Pearl White**<br>Gloss 1004 ○ ◉ 🔑 | **APO Grey**<br>Satin 1001 ○ 🔑 |
| **Primrose**<br>Gloss 1005 ○ 🔑 | **Anotec Natural Pearl**<br>Matt 1009 ○ ◉ |
| **Stone Beige**<br>Matt 1006 ○ 🔑 | **Woodland Grey®** COLOURBOND®<br>Matt 1008 ○ 🔑 |
| **Paperbark®** COLOURBOND®<br>Matt 1012 ○ ◉ 🔑 | **Monument®** COLOURBOND®<br>Matt 1011 ○ |
| **Dune®** COLOURBOND®<br>Matt 1010 ○ ◉ 🔑 | **Custom Black**<br>Matt 1002 ○ 🔑 |

## SELECTED PEARLS

| | |
|---|---|
| **Citi®**<br>Pearl Matt 3002 ○ 🔑 | **Silver Medallist**<br>Pearl Satin 3005 🔑 |
| **Ultra Silver**<br>Pearl Gloss 3006 ○ | **Stormfront**<br>Pearl Matt 3004 ○ |
| **Precious Silver Pearl Kinetic**<br>Pearl Satin 3007 ○ | **Charcoal Metallic**<br>Gloss 3001 ○ 🔑 |

Important Note: Finishes shown on these pages are a guide only and are not accurate representations of actual powder coat finishes. Please request powder coat swatches from your local fabricator for colour matching.

**KEY** ○ ThermalHEART® Single Finish/External Colour ◉ ThermalHEART® Internal Colour 🔑 Colour Matched Hardware Available

## POPULAR COLOURS

Silver Grey
Matt 2021

Notre Dame
Gloss 2014

Charcoal
Satin 2003

Berry Grey
Satin 2001

Ironstone® COLOURBOND®
Matt 2010

Dark Grey
Matt 2005

Blue Ridge® COLOURBOND®
Matt 2002

Windspray® COLOURBOND®
Matt 2024

Wilderness® COLOURBOND®
Matt 2023

Pale Eucalypt® COLOURBOND®
Matt 2015

Basalt
Matt 2027

Jasper® COLOURBOND®
Matt 2011

Rivergum Beige
Gloss 2018

Surfmist® COLOURBOND®
Matt 2022

Classic Cream™ COLOURBOND®
Matt 2004

White Birch
Gloss 2026

Magnolia
Gloss 2012

Doeskin
Satin 2006

Sandbank® COLOURBOND®
Matt 2019

Pottery
Satin 2017

Headland® COLOURBOND®
Matt 2013

Manor Red® COLOURBOND®
Matt 2013

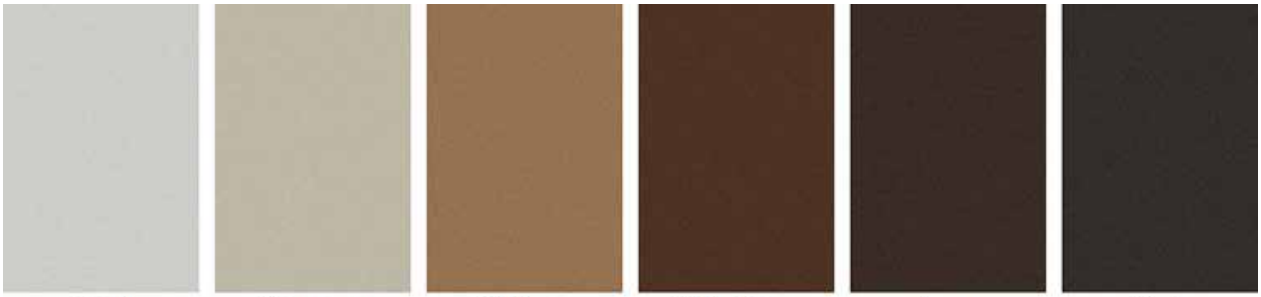
Hammersley Brown
Satin 2008

Wallaby
Satin 2028

AWS
# ANODISED FINISH SELECTION & SPECIFICATION

Anodising is an electro-chemical process used to create a protective film of aluminium oxide on the surface of an aluminium extrusion. Anodising is translucent giving the aluminium a deep metallic lustre.

## TYPICAL ANODISED FINISH COLOUR OPTIONS




## ATMOSPHERIC CLASSIFICATIONS

When specifying an anodised finish or aluminium windows and doors it is important to consider the atmospheric conditions the end product will be subjected to. AS1231-2000 is the Australian Standard for Aluminium and Aluminium alloys-Anodic oxidation coatings and sets out recommendations for anodising thickness and cleaning intervals based on atmospheric conditions. Exterior environments are separated in 3 main classifications:

**Mild to Moderate**

*Mild*

This classification covers areas remote from the cost, industrial activity and tropics. It covers sparsely settled regions such as outback Australia but also includes rural areas other than those on the coast.

*Moderate*

This classification covers areas with light industrial pollution or marine influence, or both. Typically this represents suburbs of cities on sheltered bays such as Melbourne, Adelaide and Hobart (except those areas near the coast) and most inland cities. The suburbs of Brisbane and Pert, away from the cost would also fall into this category.

**Tropical**

A tropical environment includes areas of North Queensland, Northern Territory and North-West Western Australia except where these areas are directly affected by salt spray. The characteristics of a tropical environment are as follows:

- Subject to high rainfall, greater than 120mm annually
- Average humidity high all year rounds, typically 65% to 100%
- No industrial fallout

**Severe**

*Industrial*

This classification includes areas around major industrial complexes inland from the sea, within Australia this classification would be limited to areas such as Port Pirie and Newcastle which are located around smelters.

*Marine*

This classification includes areas influenced to a moderate extend by costal salts. The extent of the area varies significantly depending upon factors such as winds, topography and vegetation. In sheltered areas, for example around Port Phillip Bay it extends from the coastline to about 100m from the beach, but in mode ocean-front areas, such as those occurring along the south western corner of Western Australia and south-eastern corner of South Australia and NSW it generally extends from about 200m from the coast to 5 km inland depending upon conditions. This means large areas of Perth, Wollongong, Sydney and Newcastle are within this environment

## FINISH SELECTION & SPECIFICATION

The flowchart below povides a quick reference to the selection and specification of anodised finish on AWS aluminium joinery. AWS does not recommend AA15 for use on aluminium joinery and supplies AA20 as standard, where AS1213-2000 recommends AA15 anodising thickness AWS has substituted AA20.


## CLEANING, CARE & MAINTENANCE

The life of anodised aluminium in exterior applications depends not only upon the coating thickness but also the frequency with which atmospheric deposits are removed by washing. AS 1231-2000 provides advice on maximum recommended cleaning intervals for anodised aluminium based on the atmospheric conditions element is subjected to. This is illustrated in the table below.

| Description | Atmospheric Classification | Thickness grade | Maximum cleaning interval |
|---|---|---|---|
| Mild | 3 | AA15* | 12 Months |
| Moderate | 3 | AA15*, AA20 and AA25 | 9 Months |
| Tropical | 4 | AA25 | 9 Months |
| Severe | 5 | AA25 | 6 Months |
| Very Severe | - | AA25 | 1 to 3 Months |

* NOTE: AWS does not recommend AA15 thickness and supplies AA20 as standard.

AWS
# WARRANTIES & MAINTENANCE

## PRODUCT WARRANTIES

AWS is a member of the Australian Window Association (AWA) and as such complies with the AWA member code of conduct, including offering a 6 year warranty for all AWS Systems. This warranty is subject to the correct specification, manufacture and installation of AWS systems as per the relevant AWS technical manuals and installation guidelines. Hardware and finish warranties may vary based on supplier, for full details regarding product warrantly please consult your AWS window fabricator for more information.

## CARE & MAINTENANCE

External window and door frames should be washed with clean water. If the product is exposed to salt air or industrial pollutants it should be washed at least every three (3) months. In rural areas where normally there is very little contaminated moisture, you may not need to clean your aluminium joinery more than every six (6) months. In particularly harsh locations such as beachfronts, severe marine environments or areas of high industrial pollution, cleaning should occur monthly.

Aluminium requires only minimal maintenance but, like your motor car, the finish may deteriorate if dirt collects on the surface and is allowed to remain unwashed over a period of time. This is because dirt absorbs moisture present in the atmosphere.

To clean aluminium, use the mildest treatment you can to produce satisfactory results. First with warm water and soap or detergent; or for anodised material try solvent cleaners (e.g. kerosene, turpentine, white spirit) or non-etching chemical cleaners or a wax-based polish cleaner. Please note, solvent based cleaners should never be used on powder coated surfaces or hardware. Keep sills free from dirt and grit and ensure that the weep slots in the window and door tracks are clear to allow maximum drainage.

### NAME PLATES AND IDENTIFICATION PLATES

Please leave name plates, part numbers and rating labels on products for future reference. A permanent performance label is a requirement of the BCA in all states. If your windows are fitted with a BAL40 or SAFE4KIDS compliance label, it is critical you follow the instructions on these labels for window repairing and maintenance.

### CLEANING GLASS

To clean clear float or toughened glass simply wipe over the surface with a few drops of methylated spirits on a damp cloth and then polish the surface dry with a lint-free cloth. Ensure that all cleaning cloths are free of any abrasive substances. Avoid causing extreme temperature changes as this may lead to thermal fracture of the glass (do not direct hot or cold water onto glass). For coated, laminated or tinted glass such as speciality or Low-E glass refer to the glass manufacturer's website for specific cleaning instructions.

### HARDWARE CARE AND MAINTENANCE

Regular maintenance is required for all hardware, even stainless steel, as they are moving parts. In most environments maintenance is recommended every six (6) months and every three (3) months in marine and industrial environments.

Hangers, pivots and brackets should be given a light spray of a corrosion preventative (such as lanolin spray or dry silicone) followed by a light wipe with a dry cloth to remove excess. Exposed surfaces should first be wiped down with warm soapy water and a soft rag, and then rinsed clean before applying preventative.

Visible surfaces of hinges should be wiped down with warm soapy water on a soft rag and then rinsed off by wiping with a clean damp rag. Application of a thin film of light machine oil or one of the corrosion preventative sprays mentioned above will help to maintain the original lustre of the metal finish. Be careful not to get these compounds on any timberwork or finished extrusion as they may cause staining.

Drop bolts should be sprayed with a lubricant such as those mentioned previously at the sliding pin inside the bolt and to the lock cylinder. A tube attached to the nozzle will help to concentrate the spray where you want it to go.

Stainless steel hardware also needs regular cleaning. It is resistant to rust but rust spots can sometimes occur. These can be removed with a mildly abrasive cleaner and rinsed with fresh water. In cases of heavy corrosion a Scotch-Brite hand pad can be used. Stainless steel hardware should not be exposed to bleach products, hydrochloric acid solutions (sometimes used for tile and concrete cleaning), cement dust, soap concentrates and water with high iron content, such as bore water. We recommend regular treatment with 3M Stainless Steel Cleaner and Polish to further protect and enhance stainless steel hardware.

Roller tracks must be kept free of dirt and grime to ensure the continued smoth operation of sliding or bi-fold windows and doors.

AWS
# NOTES

## CARE & MAINTENANCE CONTINUED

### SURFACE FINISHING

### WARRANTIES

The powder coat finish on Vantage and Elevate™ joinery is supplied by market leaders Dulux Powder Coatings and Interpon. AWS offers comprehensive warranties on the finish of your Vantage and Elevate™ joinery for your peace of mind. Depending on your colour choice, you will benefit from warranty cover ranging from a minimum of 10 years up to a maximum of 20 years on high performacne warranty powders. Please consult your AWS fabricator to obtain details of the warranty terms and conditions for the powder coat finish you have selected.

Anodising warranties vary based upon supplier, a minimum of 25um anodising must be specified in coastal environments. Please consult your AWS fabricator to obtain details of the warranty terms and conditions for the anodised finish you have selected.

### CARE & MAINTENANCE

Like any other painted surface, powder coated aluminium performs at its best when it is properly cared for. Keeping the surface free from pollutants and environmental contaminants will give you the maximum benefit and long-lasting performance from your powder coated surface. This is particulary important in harsh locations such as beachfronts, severe marine environments or areas of high industrial pollution

### RECOMMENDED CLEANING

A gentle clean with a soft brush and mild detergent, followed by a fresh water rinse, will maintain the long-term performance of your powder coated products. In rural or normal urban environments, cleaning should occur every six (6) months. In particularly harsh locations such as beachfronts, severe marine environments or areas of high industrial pollution, cleaning should occur every three (3) months. Do not use strong solvents, abrasive cleaning products or any product recommended for thinning paints. If you need to remove splashed paint, sealants or mastics from your powder coated products, use white spirits, Carry out cleaning in shade and during cooler temperatures using a soft cloth and gentle wiping only.

We recommend that prior to using any cleaning agent on your windows or doors, you test a small non-visible area of your powder coated product to ensure that no visual colour change or damage will occur. Ask your fabricator for the care and maintenance information specific to your product choice.

TURRAMURRA HOUSE | ARCHITECT: JUSTIN NOXON - NOXON GIFFEN | WINDOWS BY: GREAT LAKES GLASS & GLAZING | PHOTOS: KATHERINE LU.

AWS
ARCHITECTURAL WINDOW SYSTEMS PTY LTD

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