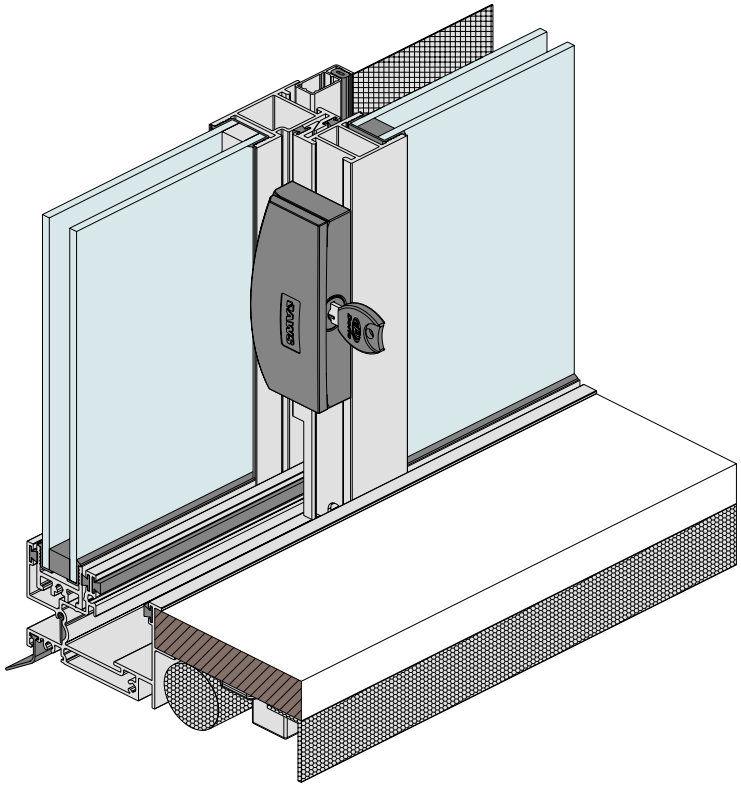
VANTAGE WINDOWS & DOORS



AWS
ARCHITECTURAL WINDOW SYSTEMS

RESIDENTIAL SERIES | SERIES 753

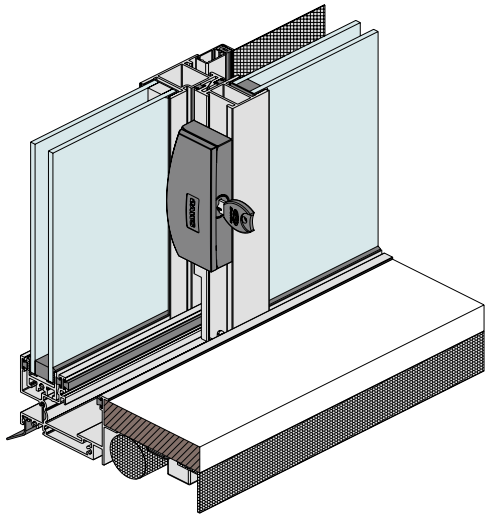
ComfortEDGE™ SLIDING WINDOW

SAFE4KIDS

COMFORTEDGE™ SLIDING WINDOW

OVERVIEW

- Series 753 ComfortEDGE™ sliding window is an energy efficient sliding windows designed to have a minimised sightline from the aluminium frame and sash.
- The design was developed through the use of thermal simulation software and physically tested to confirm perfromance.
- Series 752 sliding windows have been successfully tested for compliance with Australian Standard AS2047.
- Many Features of this product are patented or registered designs such as the custom quad rollers. The sash is concealed below the reveal and maintains the same sightlines and fixed lights. This greatly enhances thrermal performance by reducing the exposed aluminium on the internal face.
- Water resistance rating for 300Pa allows fabricators to use this sliding window in most exposed locations in Australia.
- Optional meeting stiles, mullions and transoms strengths cover a large variety of design wind load areas.
- Wrap around sash will accept 20mm IGU.
- Sliding sashes are fitted with custom key mullion lock.
- Flyscreens tuck into the head and sill, held by custom nylon molded clips on the sides.
- Proprietary condensation ball valve drainage option for fixed light sills.
- Sashes can be re- handed on site (slide direction reversed).
- Several sash sizes have been independently tested in NATA accredited laboratories for Safe4Kids compliance with BCA restricted openings.



GENERAL

Max Panel Height*
1500mm

Max Panel Width*
1000mm

Max Glass Thickness
20mm

Frame Depth
75mm

ENERGY

UW Range
2.6 - 3.6

SHGC Range
0.23 - 0.61

WEATHER

Maximum Water
300Pa

ACOUSTICS

TBA
TBA

* Dimensions subject to individual site conditions.

TABLE OF CONTENTS

SAMPLE SPECIFICATION

Aluminium windows should be manufactured using VANTAGE® Series 753 siding window system.

Refer to wind load tables for maximum panel heights and widths.

Hardware

- All other hardware and components as per Series 753 Technical Manual

Finishes

- All powder coated material shall be produced to AS3751
- All anodised material shall be produced to AS1231

Testing

Product shall have a test report to show compliance

All products are available from approved AWS fabricators as detailed in AWS literature or on the internet www.awsaustralia.com.au. All such framing is to be constructed assembled and fixed to meet the requirements of AS2047 (windows in building), AS1170 (Loading code). All glass, glazing, rubbers, seals and gaskets shall be applied in accordance with the requirements of AS1288 (glass in buildings - selection and installation).

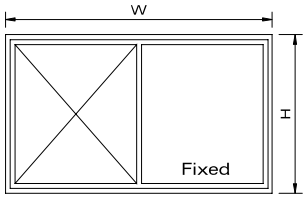
* Dimensions subject to individual site conditions.

COMFORTEDGE™ SLIDING WINDOW

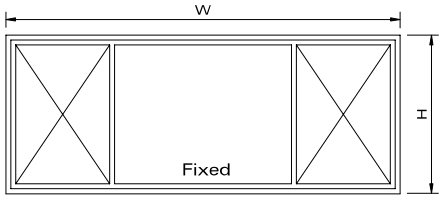
CONFIGURATIONS

Series 753 sliding window can be fabricated as a sliding with fixed sash, sidelights and or lowlights.

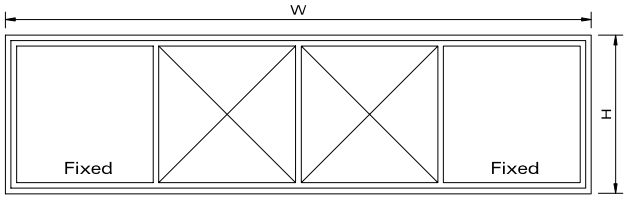
Sliding windows can be fabricated in many configurations . The overall size of non transom windows will be limited by strength or meeting stiles and glass.



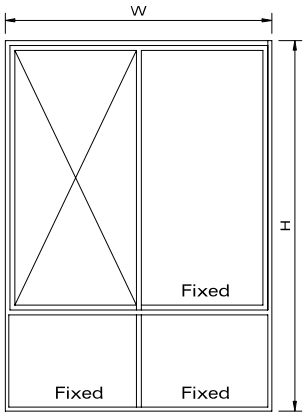
Type: SF
Minimum Height 450m
Maximum Height: 1500mm
Minimum Width: 500mm
Maximum Width 2000mm



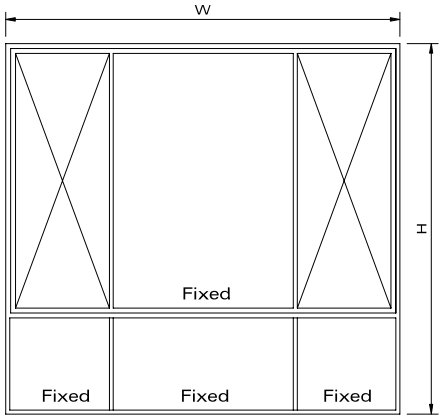
Type: SFS
Minimum Height 450m
Maximum Height: 1500mm
Minimum Width: 1000mm
Maximum Width 3600mm



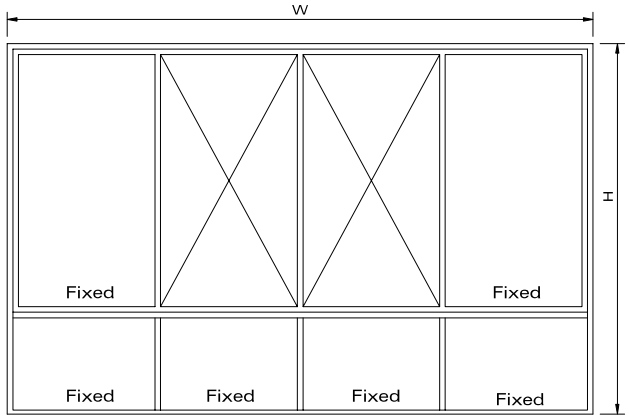
Type: FSSF
Minimum Height 450m
Maximum Height: 1500mm
Minimum Width: 1200mm
Maximum Width 4000mm



Type: SF/FF
Maximum Height: 2400mm
Maximum Width 2000mm



Type: SFS/FFF
Maximum Height: 2400mm
Maximum Width 3600mm

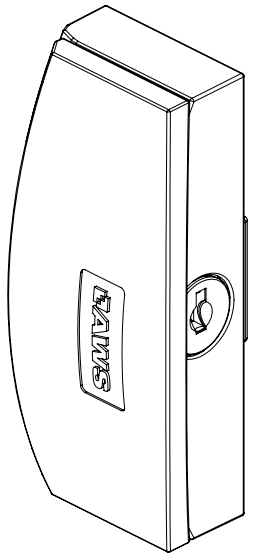


Type: FSSF/FFFF
Maximum Height: 2400mm
Maximum Width 3600mm

SCALE: NTS

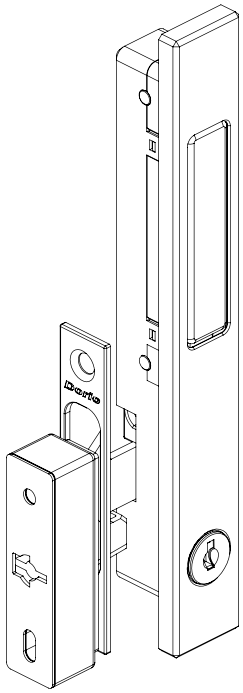
* Dimensions subject to individual site conditions.

HARDWARE OPTIONS

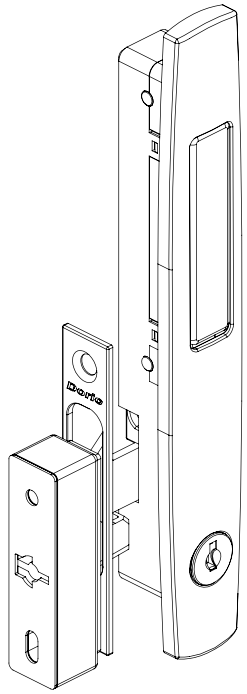


Self Latching Mullion Lock

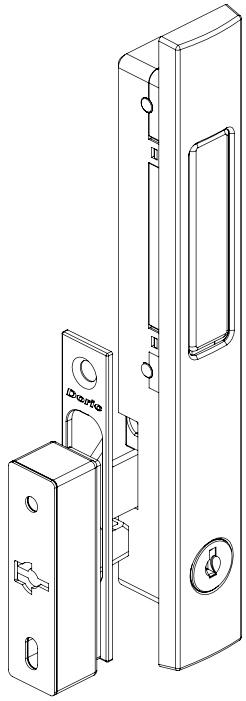
- Available in black plastic finish only
- Provides ecconomical locking at the centre mullion
- Key lockable



ICON™
Stainless Steel



ANDO™
Colour matched



MIRO™
Enduratec Matt Black
high performance finish

Sliding Window Mortice Lock

- Available with your choice of cover, the sliding window mortice lock provides stylish and secure key locking on the window stile and into the jamb. This lock option is not available where window sashes are fulley embeded wihtin the frame.

  NB. When this lock is specified the lock stile will be viasble having a negative impact on the thermal performance of the window.

* Dimensions subject to individual site conditions.

MEETING STILE STRENGTH - SLIDE FIXED CONFIGURATION

S = Serviceability limit state (deflection = L/250).

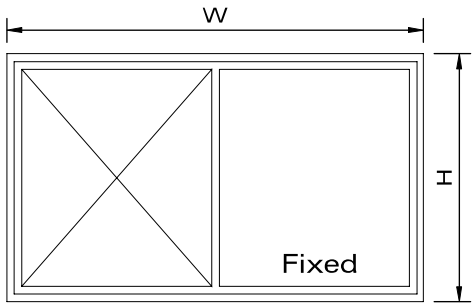
U = Ultimate strength limit state (factored yield strength = 110 MPa).

These tables have been calculated using nominal section properties.

These tables have been calculated using section properties. Windows have been tested as per the requirements of AS2047.

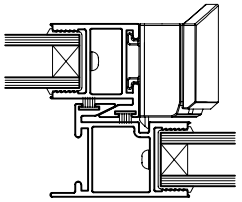
Ultimate strength rating has been limited to 4500Pa, 50% higher than the highest serviceability rating nominated.

Blank denotes Servicibility (S) rating under 400Pa

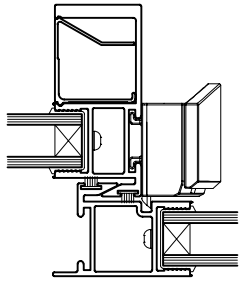


	Window (mm)		Light Meeting Stiles		Heavy Meeting Stiles	
Type	Height	Width	S	U	S	U
SF	1200	900	3000	4500	3000	4500
SF	1200	1200	2475	4500	3000	4500
SF	1200	1500	2088	4500	3000	4500
SF	1200	1800	1875	4500	3000	4500
SF	1200	2000	1795	4500	3000	4500
SF	1300	1200	1892	4500	3000	4500
SF	1300	1500	1580	4258	3000	4500
SF	1300	1800	1399	3742	3000	4500
SF	1300	2000	1324	3524	3000	4500
SF	1400	900	1942	4500	3000	4500
SF	1400	1200	1481	4351	3000	4500
SF	1400	1500	1227	3581	3000	4500
SF	1400	1800	1075	3116	3000	4500
SF	1400	2000	1009	2911	3000	4500
SF	1500	900	1557	4500	3000	4500
SF	1500	1200	1181	3735	3000	4500
SF	1500	1500	972	3057	3000	4500
SF	1500	1800	845	2641	3000	4500
SF	1500	2000	788	2451	3000	4500

Table AWS32.1 Wind Ratings (Ps) Meeting Stiles
S = Serviceability limit state (deflection = L/250)



Light Meeting Stile



Heavy Meeting Stile

MEETING STILE STRENGTH - SLIDE FIXED SLIDE CONFIGURATION

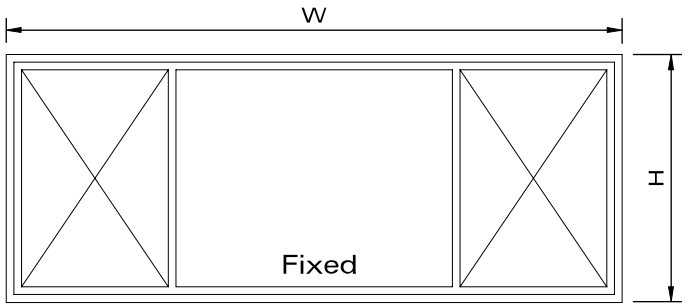
S = Serviceability limit state (deflection = L/250).

U = Ultimate strength limit state (factored yield strength = 110 MPa).

These tables have been calculated using nominal section properties. Many window sizes have been tested as per the requirements of AS2047.

Ultimate strength rating has been limited to 4500Pa, 50% higher than the highest serviceability rating nominated.

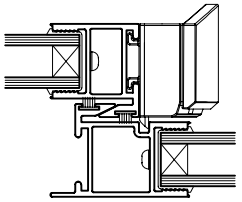
Blank denotes Servicibility (S) rating under 400Pa



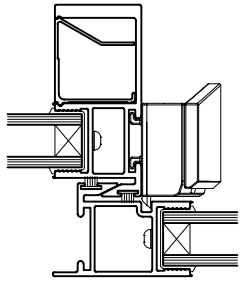
1/4 | 1/2 | 1/4

	Window (mm)		Light Meeting Stiles		Heavy Meeting Stiles	
Type	Height	Width	S	U	S	U
SFS	1200	1800	2365	4500	3000	4500
SFS	1200	2100	2162	4500	3000	4500
SFS	1200	2400	2047	4500	3000	4500
SFS	1200	2700	1967	4500	3000	4500
SFS	1200	3000	1902	4500	3000	4500
SFS	1300	2100	1613	4324	3000	4500
SFS	1300	2400	1507	4024	3000	4500
SFS	1300	2700	1444	3850	3000	4500
SFS	1300	3000	1394	3713	3000	4500
SFS	1400	1800	1384	4039	3000	4500
SFS	1400	2100	1239	3597	3000	4500
SFS	1400	2400	1145	3309	3000	4500
SFS	1400	2700	1086	3132	3000	4500
SFS	1400	3000	1048	3018	3000	4500
SFS	1500	1800	1095	3443	3000	4500
SFS	1500	2100	974	3046	3000	4500
SFS	1500	2400	892	2778	3000	4500
SFS	1500	2700	832	2600	3000	4500
SFS	1500	3000	804	2491	3000	4500

Table AWS32.2 Wind Ratings (Ps) Meeting Stiles
S = Serviceability limit state (deflection = L/250)



Light Meeting Stile



Heavy Meeting Stile

MEETING STILE STRENGTH - FIXED SLIDE SLIDE FIXED CONFIGURATION

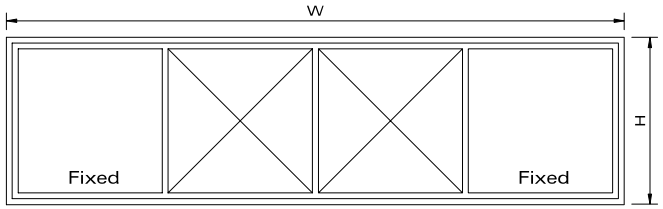
S = Serviceability limit state (deflection = L/250).

U = Ultimate strength limit state (factored yield strength = 110 MPa).

These tables have been calculated using nominal section properties. Many window sizes have been tested as per the requirements of AS2047.

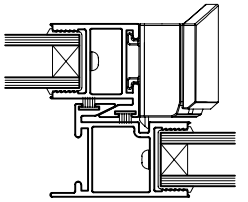
Ultimate strength rating has been limited to 4500Pa, 50% higher than the highest serviceability rating nominated.

Blank denotes Servicibility (S) rating under 400Pa

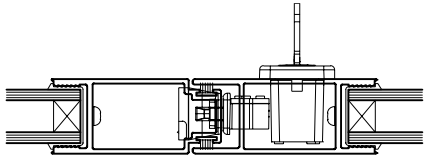


	Window (mm)		Centre Locking Meeting Stiles	
Type	Height	Width	S	U
FSSF	1200	1800	3000	4500
FSSF	1200	2100	2684	4500
FSSF	1200	2400	2392	4500
FSSF	1200	2700	2178	4500
FSSF	1200	3000	2018	4500
FSSF	1300	1800	2385	4500
FSSF	1300	2100	2061	4500
FSSF	1300	2400	1829	4500
FSSF	1300	2700	1657	4500
FSSF	1400	3000	1527	4500
FSSF	1400	1800	1877	4500
FSSF	1400	2100	1618	4500
FSSF	1400	2400	1431	4500
FSSF	1400	2700	1292	4500
FSSF	1500	3000	1185	4407
FSSF	1500	2100	1294	4500
FSSF	1500	2400	1141	4500
FSSF	1500	2700	1027	4126
FSSF	1500	3000	940	3762

Table AWS32.3 Wind Ratings (Ps) Meeting Stiles
S = Serviceability limit state (deflection = L/250)



Light Meeting Stile



Centre Meeting Stile

* Dimensions subject to individual site conditions.

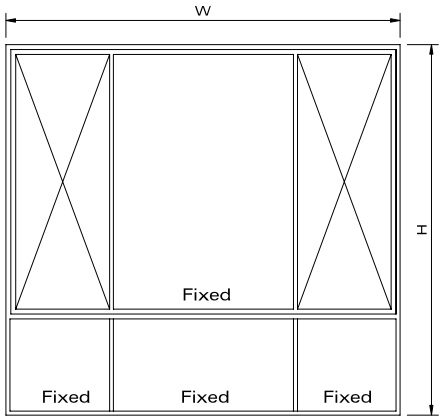
TRANSOM STRENGTH - FIXED SLIDE SLIDE FIXED CONFIGURATION

S = Serviceability limit state (deflection = L/250).

U = Ultimate strength limit state (factored yield strength = 110 MPa).

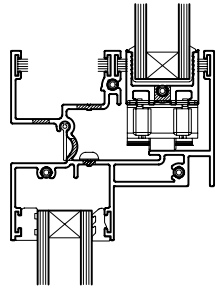
These tables have been calculated based on strength of transom only, refer to previous pages for meeting stile strength.

The values in the tables below ae based on lowlight height = 800mm



Height		Frame Width mm						
		1400	1500	1600	1700	1800	1900	2000
1800	S	3333	3096	2535	2080	1729	1454	1235
	U	5000	4644	4013	3503	3091	2747	2459
2000	S	3333	2925	2390	1950	1614	1352	1144
	U	5000	4387	3765	3272	2872	2544	2270
2100	S	3333	2872	2342	1904	1571	1313	1109
	U	5000	4309	3682	3188	279	2466	2197
2200	S	3333	2841	2309	1870	1538	1282	1080
	U	5000	4261	3622	3123	2725	2402	2135
2300	S	3333	2830	2289	1846	1513	1257	1056
	U	5000	4245	3586	3077	2675	2350	2083
2400	S	3333	2830	2282	1831	1495	1238	1038
	U	5000	4245	3574	3050	2639	2310	2042

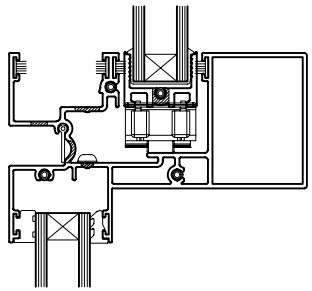
Table AWS32.4 Wind Ratings (Pa) Light Transom



Light Transom

Height		Frame Width mm						
		1800	2100	2400	2700	3000	3300	3600
1800	S	3333	2484	1780	1235	892	666	510
	U	5000	3726	2808	2195	1765	1450	1213
2000	S	3221	2287	1635	1129	813	606	463
	U	4831	3431	2571	2002	1605	1317	1100
2100	S	3129	2209	1576	1086	780	580	444
	U	4694	3314	2474	1923	1539	1261	1053
2200	S	3056	2143	15825	1047	751	558	426
	U	4584	3214	2390	1852	1480	1211	1010
2300	S	2999	2087	1481	1014	726	538	410
	U	4499	3131	2317	1790	1427	1166	971
2400	S	2959	2041	1443	984	703	520	-
	U	4439	3061	5545	1735	1380	1126	-

Table AWS32.5 Wind Ratings (Pa) Heavy Transom



Heavy Transom

* Dimensions subject to individual site conditions.

FIXED MULLION STRENGTH

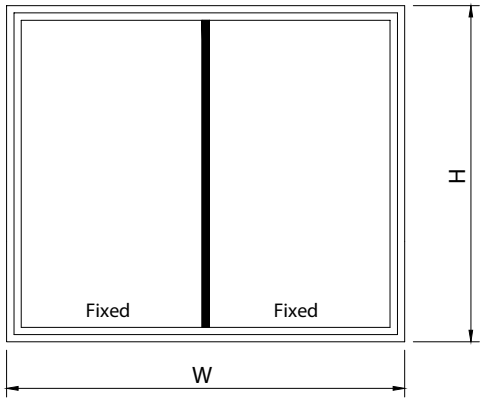
S = Serviceability limit state (deflection = L/250).

U = Ultimate strength limit state (factored yield strength = 110 MPa).

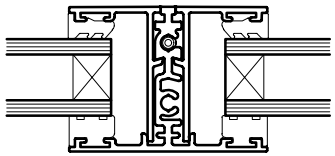
These tables have been calculated using nominal section properties.

Ultimate strength rating has been limited to 4500Pa, 50% higher than the highest serviceability rating nominated.

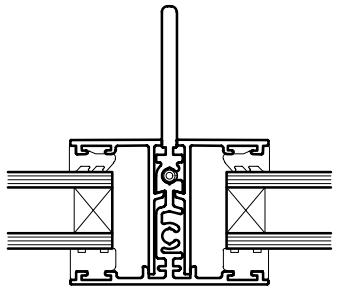
Blank denotes Servicibility (S) rating under 400Pa



	Window (mm)		Light Meeting Stiles		Heavy Meeting Stiles	
Type	Height	Width	S	U	S	U
FF	800	1000	2955	4433	3000	4500
FF	800	1200	2647	3971	3000	4500
FF	800	1500	2458	3686	3000	4500
FF	800	1800	2499	3748	3000	4500
FF	800	2000	2623	3935	3000	4500
FF	900	1000	2245	3368	3000	4500
FF	900	1200	1976	2964	3000	4500
FF	900	1500	1762	2644	3000	4500
FF	900	1800	1708	2562	3000	4500
FF	900	2000	1733	2599	3000	4500
FF	1000	1000	1769	2654	3000	4500
FF	1000	1200	1539	2308	3000	4500
FF	1000	1500	1338	2008	3000	4500
FF	1000	1800	1249	1873	3000	4500
FF	1000	2000	1237	1855	3000	4500
FF	1100	1000	1322	2149	3000	4500
FF	1100	1200	1147	1854	3000	4500
FF	1100	1500	989	1585	3000	4500
FF	1100	1800	908	1442	3000	4500
FF	1100	2000	882	1397	3000	4500
FF	1200	1000	999	1778	3000	4500
FF	1200	1200	861	1524	3000	4500
FF	1200	1500	733	1288	2887	4330
FF	1200	1800	661	1152	2583	3874
FF	1200	2000	633	1099	2463	3695
FF	1300	1000	774	1497	3000	4500
FF	1300	1200	663	1277	2864	4295
FF	1300	1500	559	1069	2397	3596
FF	1300	1800	498	945	2118	3178
FF	1300	2000	472	892	1999	2999
FF	1400	1000	612	1278	2865	4298
FF	1400	1200	523	1087	2437	3655
FF	1400	1500	437	904	2026	3039
FF	1400	1800	-	-	1174	2260
FF	1400	2000	-	-	1661	2491



Light Meeting Stile



Heavy Meeting Stile

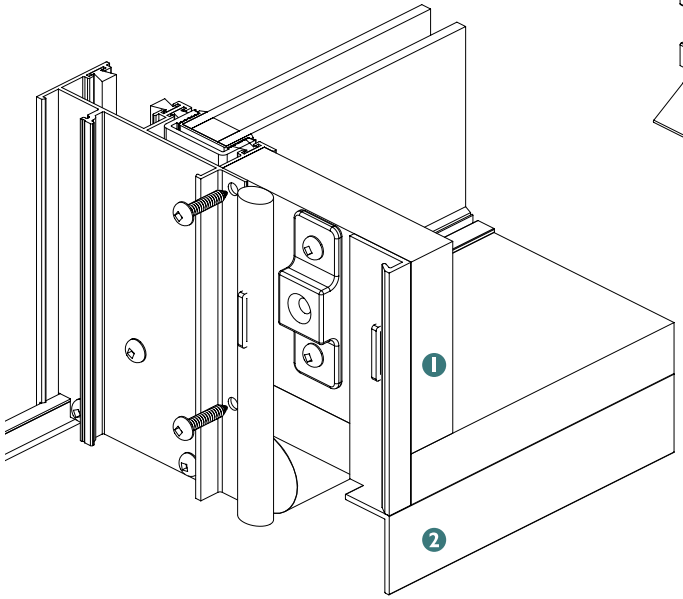
Table AWS32.6 Wind Ratings (Ps) Mullions
S = Serviceability limit state (deflection = L/250)

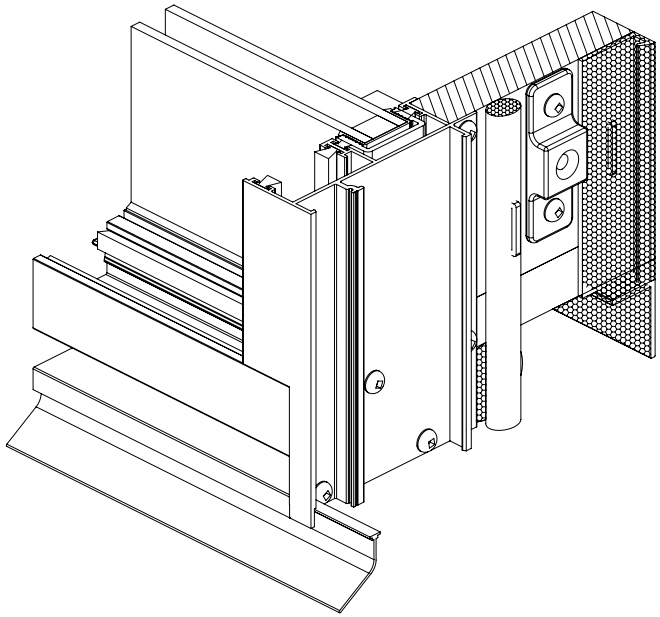
* Dimensions subject to individual site conditions.

COMFORTEDGE™ SLIDING WINDOW

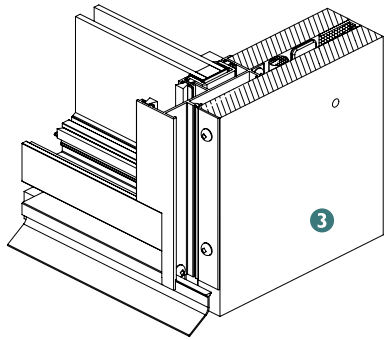
COMFORTEDGE™ REVEAL

The incorproation of an integral ComfortEDGE™ reveal on the series 753 sliding window works to improve the thermal efficiency of the window system by shielding the internal aluminium face of the window with timber to reduce thermal transmission.

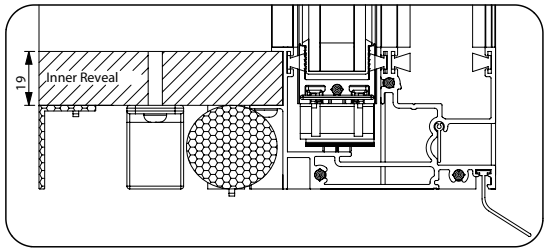


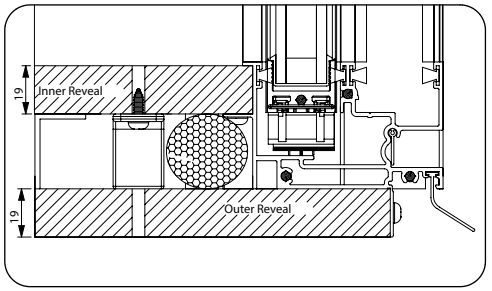


1. Essential inner timber reveal is assembled around the frame perimeter to support installation.
2. Continuous PVC seal fitted to the essential inner timber reveal on all 4 sides for weather proofing.
3. Optional Double reveal also available



DOUBLE REVEAL OPTION





* Dimensions subject to individual site conditions.

COMFORTEDGE™ SLIDING WINDOW

COMFORTEDGE™ REVEAL AND THERMAL PERFORMANCE

The incorporation of an integral ComfortEDGE™ reveal on the series 753 Sliding Window improves the thermal efficiency of the system by shielding the internal aluminium face of the window with timber to reduce thermal transmission.

Aluminium is an excellent conductor of heat. By only exposing a very small amount of aluminium to the interior of a building, we can minimise the ability fof the aluminium window frame to conduct heat. This in effect provides a layer of insulation reducing thermal transmission through the frame.

The innovative design of our ComfortEDGE™ window ensures the sliding sash nests neatly behind the frame. By reducing the exposed aluminium on the sash, we improve the thermal performance of the window.

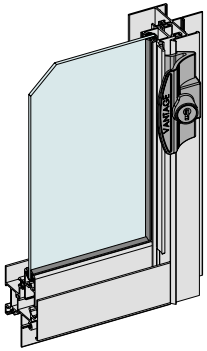
Take a look at the WERS ratings below comparing three Vantage windows all glazed with Viridian LightBridge clear 20mm IGU - 5/10/5.

- Series 504 - a traditional residential aluminium window.
- Series 752 - our high performance residential aluminium window which incorproates a similar frame and sash design to series 755.
- Series 753 - the ComfortEDGE™ Sliding Window with integral ComfortEDGE™ reveal shielding the aluminium frame.

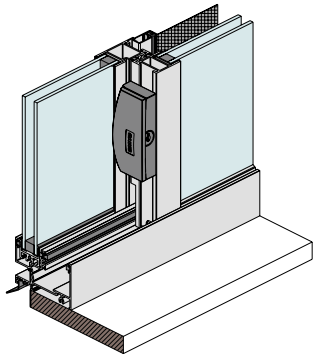
	Uw Value
504 Residential Awning - Double Glazed	3.3
752 High Performance Sliding Window - Double Glazed	3.0
753 ComfortEDGE Sliding Window - Double Glazed	2.8

The benefit of shielding the Aluminium frame is evident with the Series 753 ComfortEDGE™ Sliding Window achieving a Uw value of 2.8, significantly lower than the similar non-shielded equivalents.

To validate the theoretical WERS performance number achieved by ComfortEDGE™ Awning Windows, AWS traveled to the USA to conduct physical testing in an independent NFRC testing laboratory. The performance values achieved with physical testing were equivalent to those generated through thermal modeling, giving us confidence in the ability of this system to deliver thermal comfort.

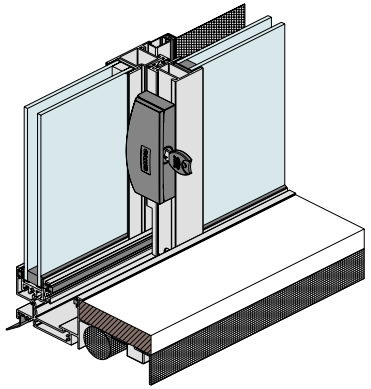


Series 504
Residential SlidingWindow



Series 752
High Performance Sliding Window

SPECIAL NOTE
Glazed with Viridian LightBridge clear 20mm IGU - 4/12/4, the 753 ComfortEDGE™ Sliding Window achieves a 2.6 Uw Value.

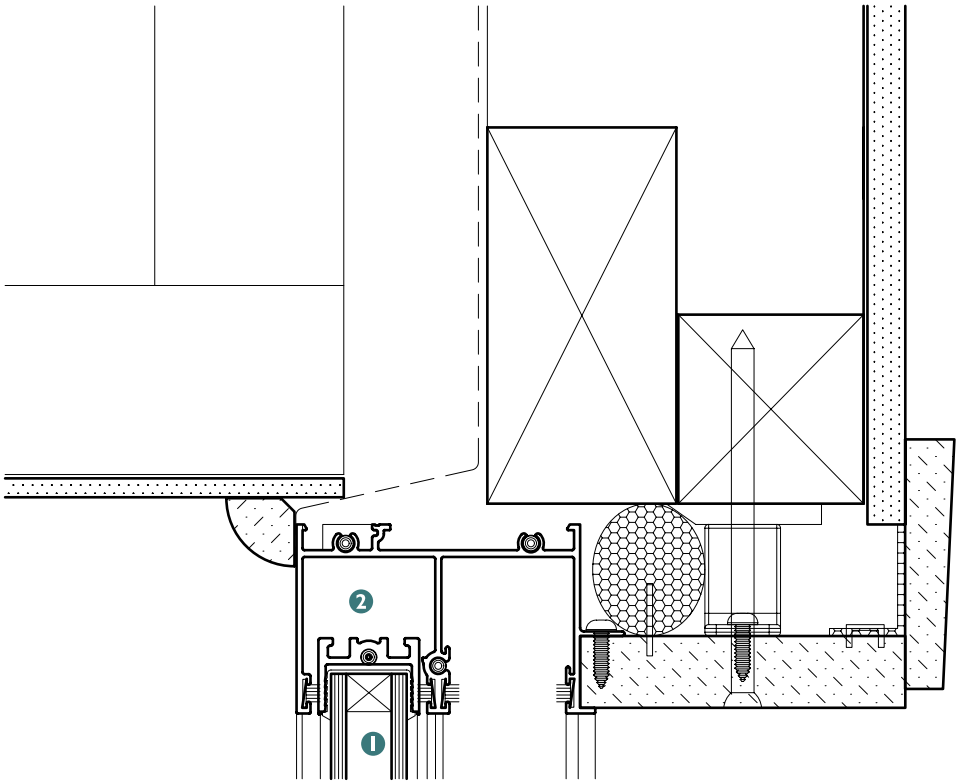


Series 753
ComfortEDGE Sliding Window

* Dimensions subject to individual site conditions.

COMFORTEDGE™ SLIDING WINDOW

HEAD DETAIL - BRICK VENEER INSTALLATION

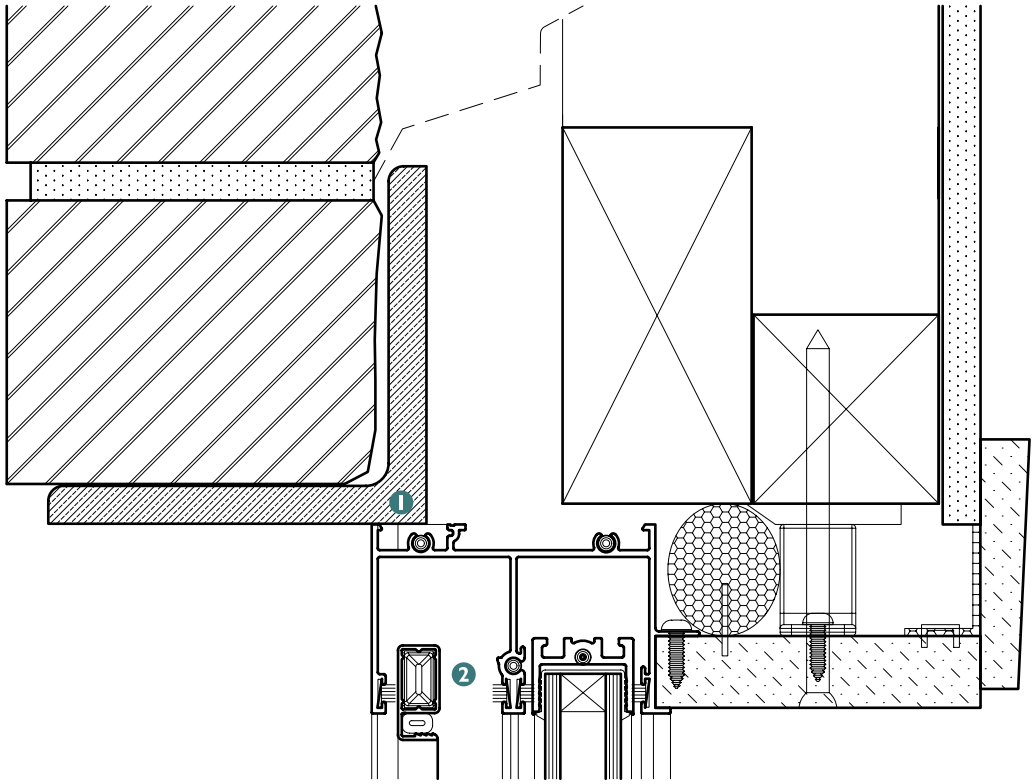


HEAD DETAIL

1. Accepts up to 20mm IGU allowing the use of high performance glazing options
2. Sliding sash nests into frame creating clear glass sightlines

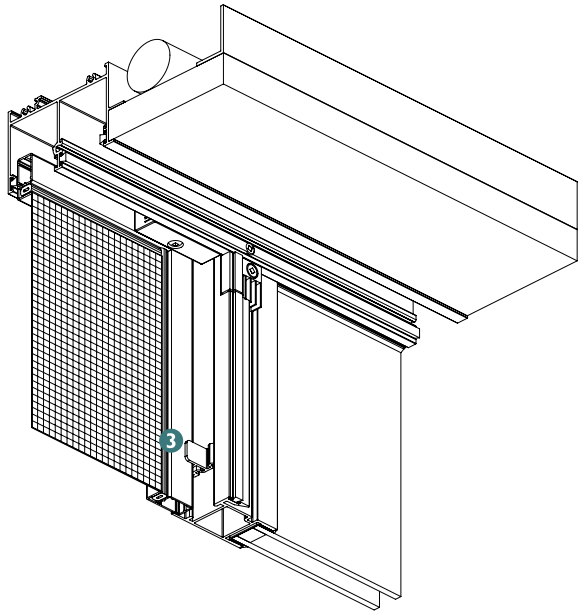
* Dimensions subject to individual site conditions.

HEAD DETAIL WITH FLYSCREENS - BRICK VENEER INSTALLATION



HEAD DETAIL

1. Steel lintal is requried wall and ceiling. The window cannot support any weight from the structure.
2. Optional flyscreens are available.
3. Flyscreens are secured using flexible nylon clips, no unsightly trims requried.



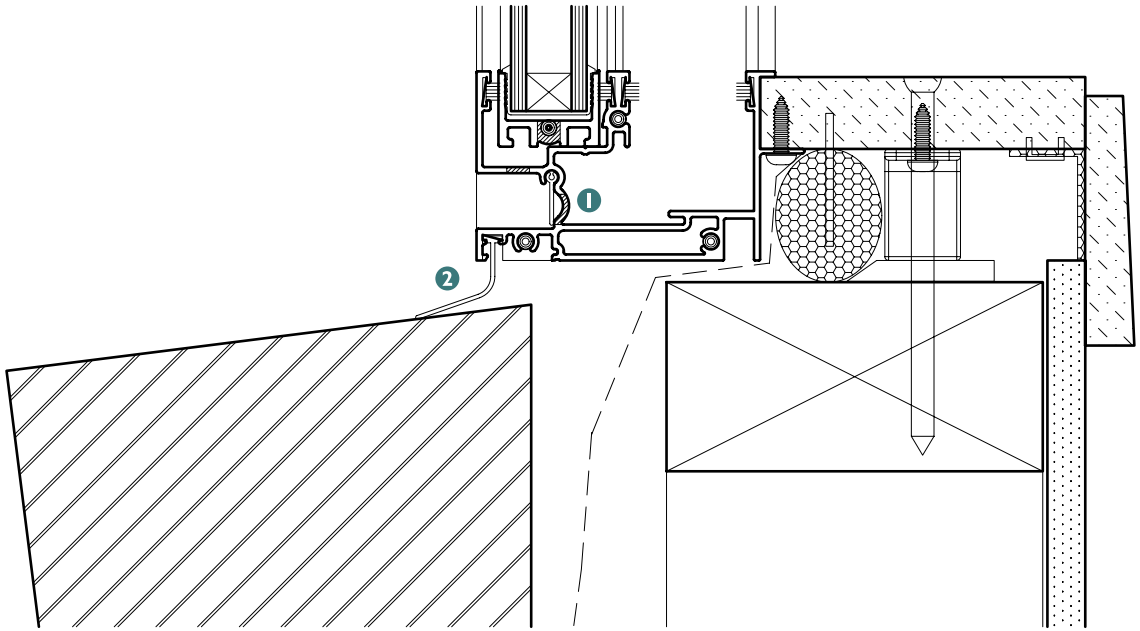
* Dimensions subject to individual site conditions.

COMFORTEDGE™ SLIDING WINDOW

SILL DETAIL - CAVITY BRICK INSTALLATION

1. 8mm drainage holes assist in achieving high water performance. Ideal for exposed locations.
2. PVC sill flap limits water ingress into the structure.

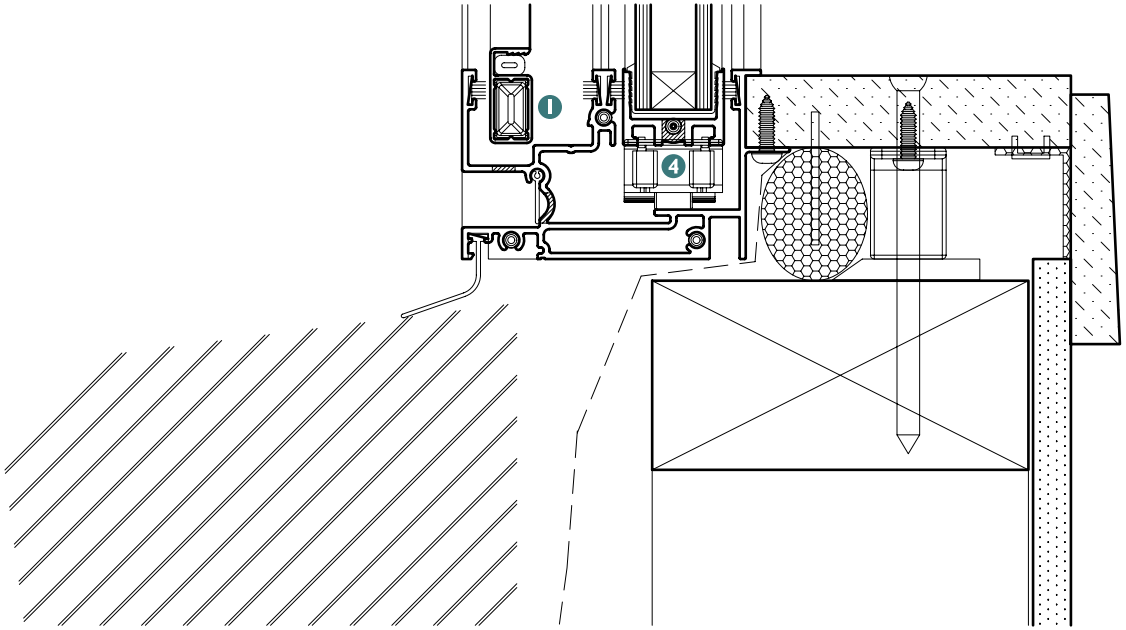
SILL DETAIL



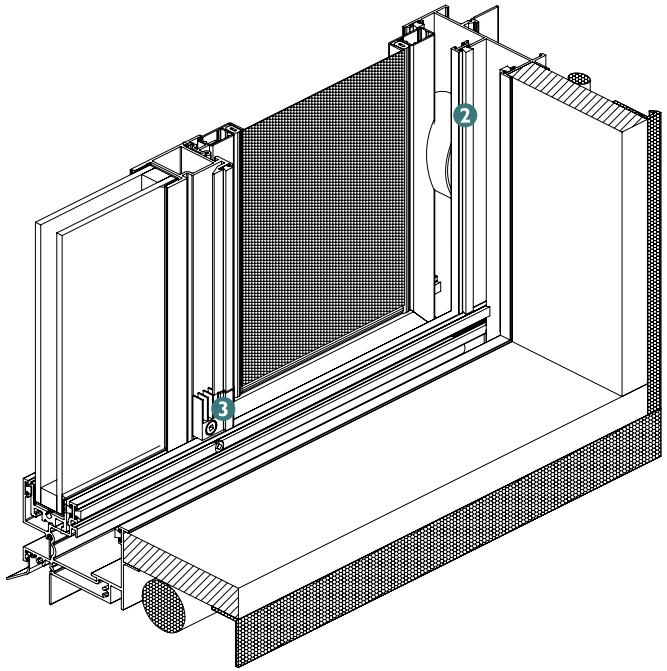
* Dimensions subject to individual site conditions.

SILL DETAIL WITH FLYSCREEN - BRICK VENEER INSTALLATION

SILL DETAIL

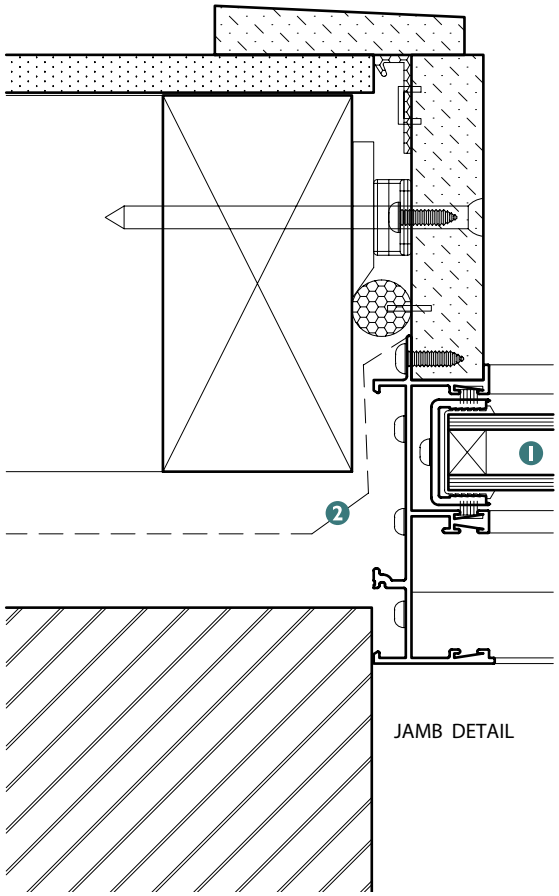


1. Optional flyscreen nests neatly into the frame.
2. Flyscreen clips hold flyscreen in place and allow for easy removal.
3. Sash closer block improves air tighness and weather performance.
4. Quad roller provides smooth operation



* Dimensions subject to individual site conditions.

JAMB DETAIL - BRICK VENEER INSTALLATION

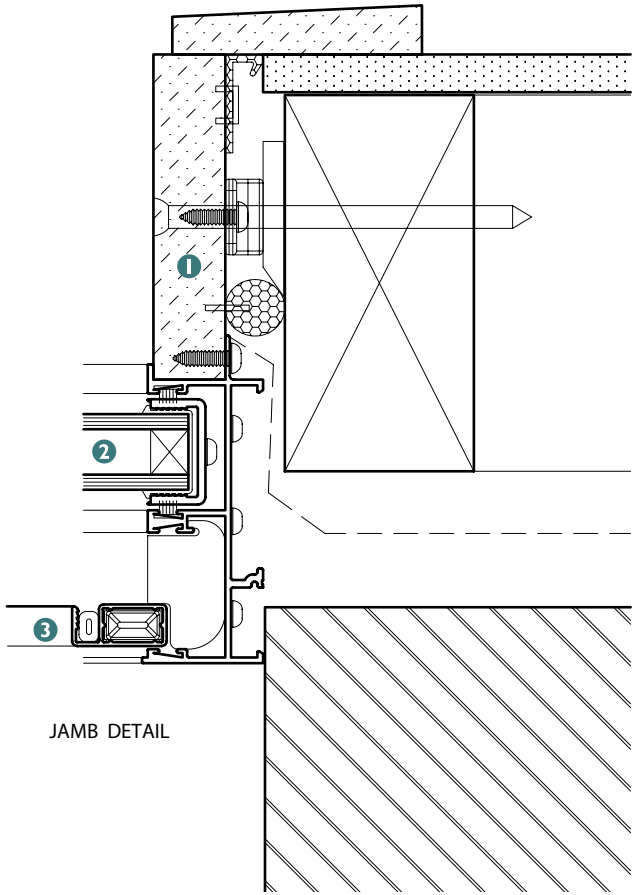


1. Glazing pocket accepts 18-20mm IGUs for improved thermal performance.
2. Recommended jamb flashing

* Dimensions subject to individual site conditions.

COMFORTEDGE™ SLIDING WINDOW

JAMB DETAIL - WITH FLYSCREEN

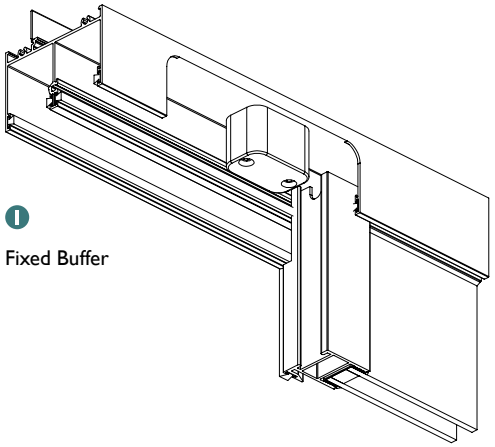


JAMB DETAIL

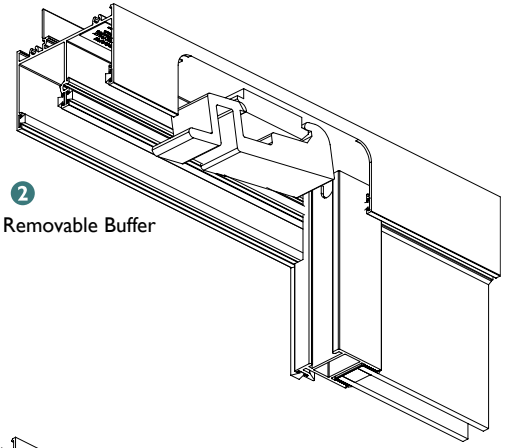
1. Reveal fixing
2. Glazing pocket accepts 18-20mm IGUs for improved thermal performance.
3. Optional Flyscreen

* Dimensions subject to individual site conditions.

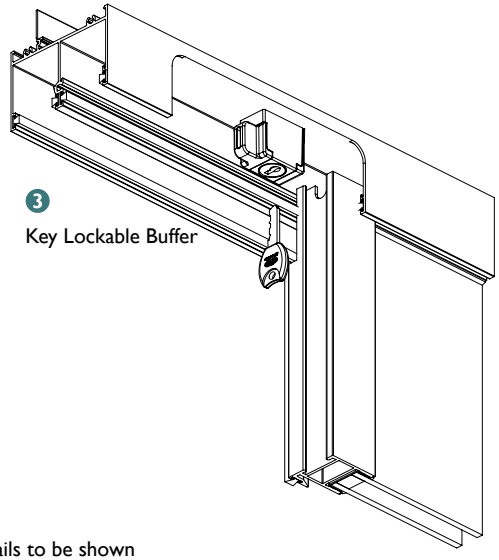
RESTRICTED OPENINGS



1 Fixed Buffer



2 Removable Buffer



3 Key Lockable Buffer

1. Moulded buffer stop permenantly fitted tot he head with screws. Buffer is located to allow a maximum of 100mm sash opening.
2. Removable buffer restrictor, two part restriction device top part can be pealed away from base using the finger grip allowign the sash to open fully. This buffer is desgned for applications where the buffer could be removed by an adult in an emergency situation.
3. Key lockable buffer restrictor. This key lockable buffer can be removed using the key allowing the sash to operate fully.

A NOTE REGARDING SAFE4KIDS COMPLIANCE.

The use of AWS Key lockable and removable buffer stops as SAFE4KIDS window restriction devices is only compliant in applications where the NCC does not call for a permanent restriction device. In applications requiring a permanent restriction device where the buffer won't be removed the Fixed buffer stop must be specified.

SAFE4KIDS TESTED + CERTIFIED

NB. Illustrations above essential reveal removed to enble buffer stop details to be shown

SAFE4KIDS TESTED + CERTIFIED

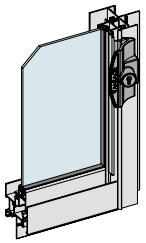
This product complies with BCA requirements for windows in elevated applications.
THE STOPS FITTED TO THIS WINDOW
ARE DESIGNED TO RESTRICT THE SASH OPENING.
Should this product or its components require repair or replacement
contact ARCHITECTURAL WINDOW SYSTEMS to maintain compliance.
techsupport@awsaustralia.com.au

Windows fitted with buffer stops will also be fitted with the above label

* Dimensions subject to individual site conditions.

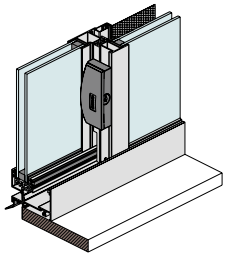
COMFORTEDGE™ SLIDING WINDOW

ALTERNATIVE SYSTEMS



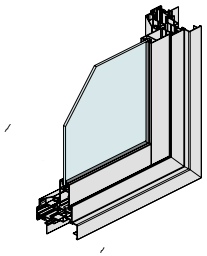
SERIES 504

Residential Sliding Window (50mm Frame)



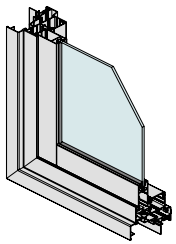
SERIES 752

High Performance Sliding Window



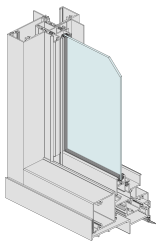
SERIES 601

MAGNUM™ Sliding Window (Beaded Fixed Light)



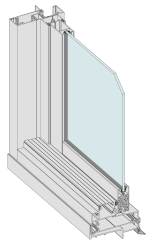
SERIES 602

MAGNUM™ Sliding Window (Double Sash Design)



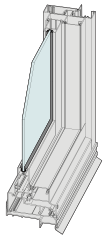
SERIES 452

Commercial Sliding Window



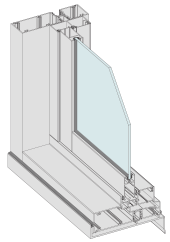
SERIES 461

Apartment Sliding Window



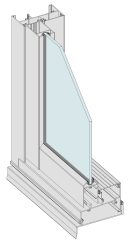
SERIES 462

Architectural Sliding Window (Double Sash Design)



SERIES 662

Architectural Sliding Window (150mm Frame)



SERIES 701

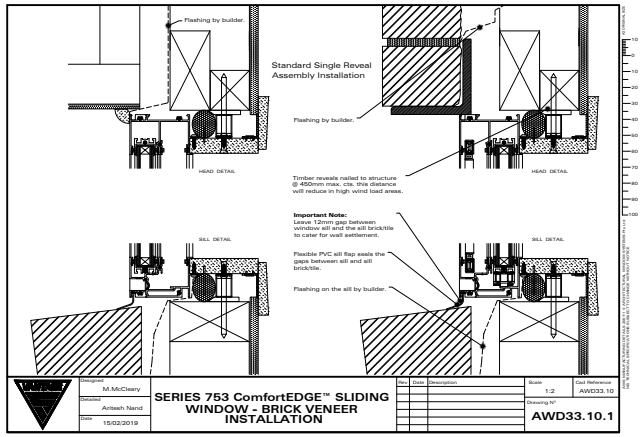
SlideMASTER™ Sliding Window

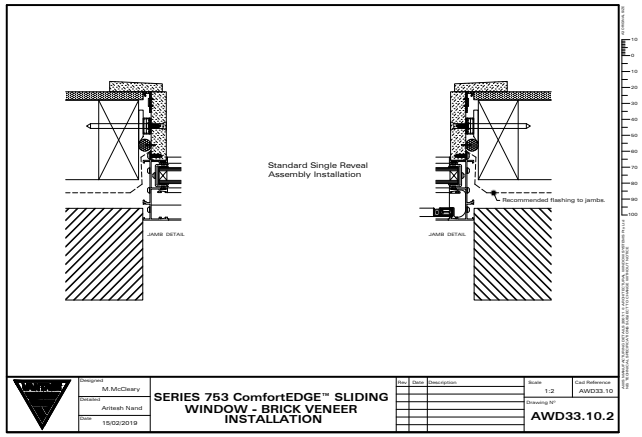
SCALE: NOT TO SCALE

* Dimensions subject to individual site conditions.

COMFORTEDGE™ SLIDING WINDOW

CAD FILES





* Dimensions subject to individual site conditions.