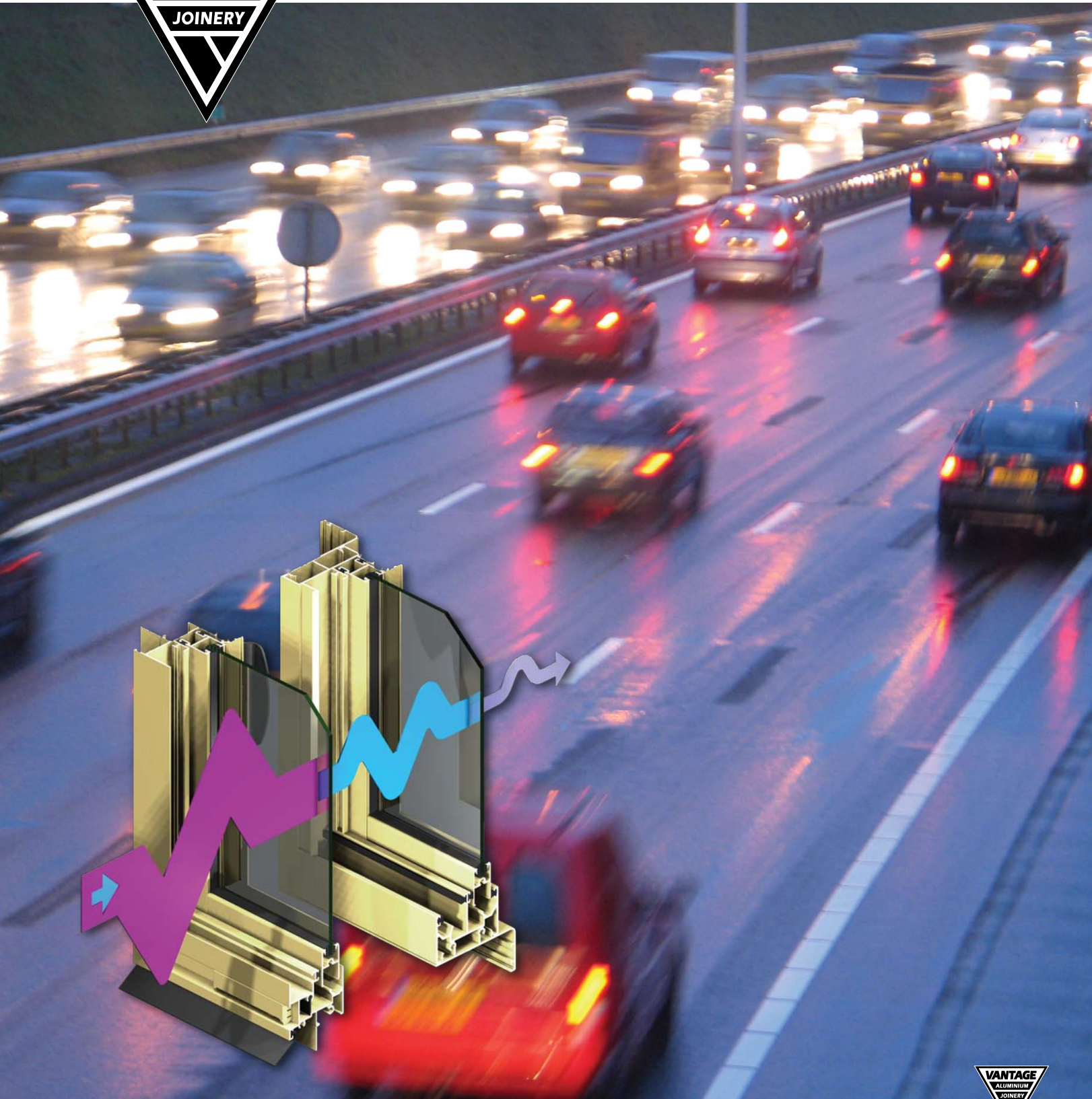


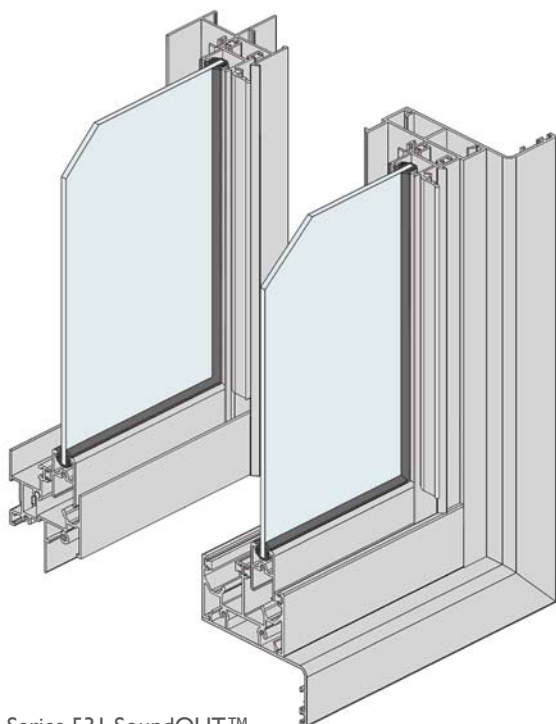
Series 531  
SoundOUT™ Sliding Window



# Series 531 SoundOUT™ Sliding Window

DATE: NOV 09  
REPLACES: AUG 03  
SCALE: NOT TO SCALE

## KEY FEATURES / PERFORMANCE CHARACTERISTICS



Series 531 SoundOUT™  
Sliding window internal view

- 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.
- Sashes are double sealed at all joints for maximum soundproofing.
- Several locks to choose from including centre multi point locking as shown on the following page.
- 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, 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 wrap around PVC glazing channel or if preferred SoundOUT™ sashes can be double glazed.
- Installing this product will create a thermally broken double glazed window that will significantly reduce heating and cooling costs.

Maximum Panel Height*	1500mm
Maximum Panel Width*	Various
Maximum Glass Thickness	≤ 20mm

\* Subject to individual site conditions and wind loads. Contact AWS Technical Support for more information, e-mail [techsupport@awsaustralia.com.au](mailto:techsupport@awsaustralia.com.au)



## WERS RATINGS

### Secondary Glazed

Glass Description	COOLING	HEATING	U <sub>w</sub>	SHGC <sub>w</sub>	T <sub>vw</sub>	Inf
3Clr/100/3Clr	25%	39%	2.4	0.68		
3Clr/100/6.38Clr	27%	38%	2.4	0.66		
4EG/100/6.38Clr	47%	25%	2.4	0.46		
4Clr/100/4EA	32%	41%	2.0	0.63		
4EA/100/4EG	52%	27%	2.0	0.42		

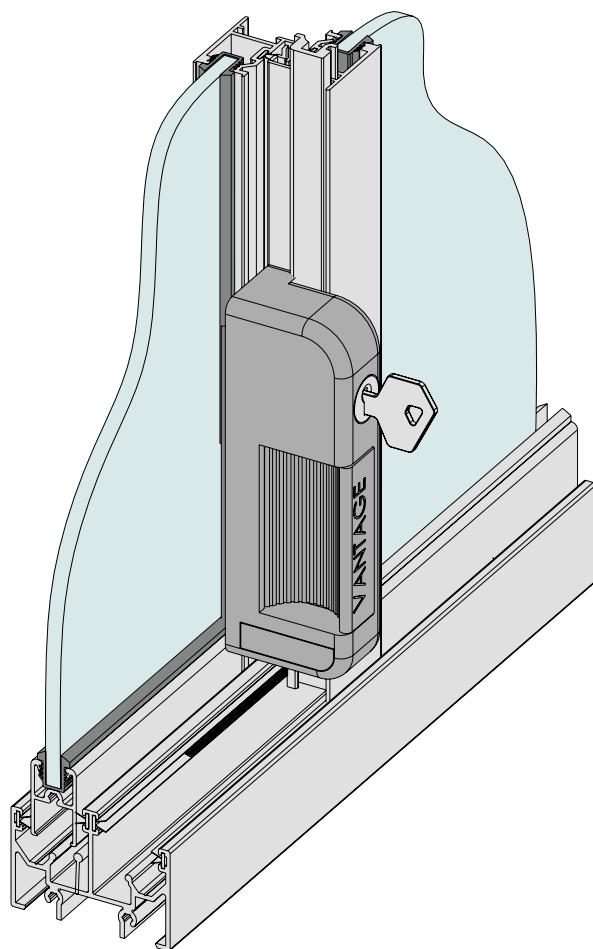
# Series 531 SoundOUT™ Sliding Window

DATE: NOV 09  
REPLACES: AUG 03  
SCALE: NOT TO SCALE

## OPTIONAL VENTILATION KEY LOCK

When you turn the key to lock part of the sash meeting stile moves up into heavy duty keeper located in the had channel.

Sashes can be locked closed or partly open (50mm or 100mm)



## HOW TO SPECIFY

### SYSTEM NAME

Vantage Series 531 SoundOUT™  
Sliding Window

### FINISH

Powder Coat

Anodised

### COLOUR

Select from the Vantage range of approved powder coat or anodising colours

### GLASS

Specify thickness ≤ 20mm

Specify thermal performance where applicable (Uv & SHGC)

Specify acoustic performance where applicable (RW)

### HARDWARE

Refer to hardware selection guide for compatible options



### 2D & 3D CAD FILES AVAILABLE

GO TO: [www.vantagealuminium.com.au](http://www.vantagealuminium.com.au) > CAD & Revit 3D Files  
CAD file: DWG or DXF VAN\_531



### MORE INFORMATION

For the latest updates regarding this product visit our website  
[www.vantagealuminium.com.au](http://www.vantagealuminium.com.au)



### Specification Assistance

Need help specifying this product? email [techsupport@awsaustralia.com.au](mailto:techsupport@awsaustralia.com.au) and our qualified technical advisors will assist you with product selection and specification for your project.



# Series 53 I

## SoundOUT™ Sliding Window

DATE: NOV 09  
 REPLACES: AUG 03  
 SCALE: NOT TO SCALE

### SPECIFIERS CHECKLIST

If you plan to install a secondary glazing system behind existing / new windows there are some very important factors that need to be considered.

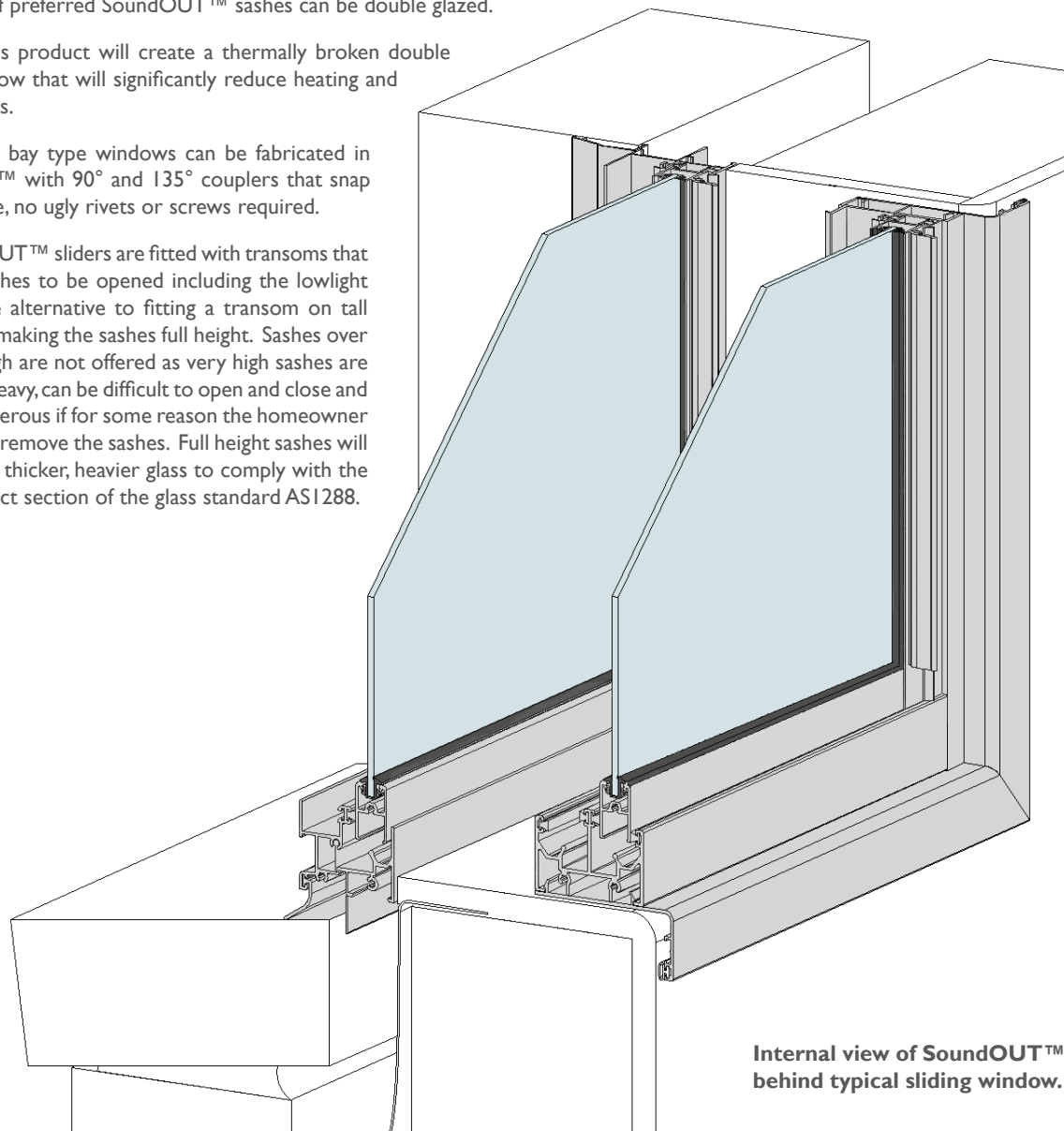
Features	SoundOUT™	Opposition
<p><b>Has the system been tested by an authorised sound laboratory?</b>            This is an important expensive addition to your home, so ask to see the test report.            SoundOUT™ slider has been tested at the National Acoustic Laboratories, Chatswood.            The highest result obtained was 42dB(A), refer table earlier in these notes.</p>	YES	
<p><b>Does the system have any internal projections that can catch your curtains ?</b>            The SoundOUT™ finger pull is as short as possible and has rounded corners.            Some systems have lock systems that project a significant distance into the room and will almost certainly catch and damage your vertical drapes.</p>	NO	
<p><b>All sashes on the secondary glazing system can be opened.</b>            It's very important that all sashes on the secondary glazing system can be opened to allow access to the inner face of the existing (external) window glass for cleaning.</p>	YES	
<p><b>SoundOUT™ full height frame over (1550mm high) fitted with transom.</b>            Many modern homes have full height windows on the front elevation. The SoundOUT™ secondary glazing system has a transom detail that can be aligned directly behind the existing window transom.            If the secondary glazing sashes were full height they would be very heavy and hard to open and close, this would be a major problem on the larger centre sash on type 'SFS' windows that are say 1800 or 2100mm high.            If the sashes were 2100mm high by say 1200mm wide they would be very heavy and almost impossible for the homeowner to safely remove the sashes for cleaning and / or maintenance.</p>	YES	
<p><b>Sash locking system.</b>            SoundOUT™ sashes can be fitted with centre cam type cam catch or jamb latch.</p>	YES	
<p><b>Key locking.</b>            The centre cam catch has a built-in aluminium shoot bolt that allows the main sash to be locked in the closed and partly open (ventilation) position.            The lock has large smooth corners and there are no ugly locking bars that can catch on curtains and blinds, illustrated on previous page.</p>	YES	
<p><b>Large diameter (14mm) wheels in height adjustable wheel carriage.</b>            SoundOUT™ sashes are fitted with large diameter smooth running rollers and the heavier sashes are fitted with nylon tyred ball bearing wheels.            Large diameter wheels turn easier and therefore will last longer.            If a wheel stops turning it will usually wear very quickly and the bearing shaft can quickly start damaging the running rail - if running rails get damaged they are expensive to repair.</p>	YES	
<p><b>Double weatherpile sealed.</b>            All sashes are sealed both sides on all four edges for maximum sound reduction.            There are no holes at the meeting stiles.</p>	YES	
<p><b>Rounded corner on the frame and sash members wherever possible.</b>            Modern paint finishes don't like sharp corners.</p>	YES	

# Series 531 SoundOUT™ Sliding Window

DATE: NOV 09  
REPLACES: AUG 03  
SCALE: NOT TO SCALE

## DESIGN FEATURES

1. This product 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.
2. The sashes are double sealed at all joints for maximum soundproofing.
3. Several locks to choose from including centre multi point locking.
4. All sashes on the SoundOUT™ system can be opened to allow cleaning of the inner face of the outer window.
5. Sashes run on large diameter heavy duty wheels, 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.
6. Sashes will accept glass up to 7.52mm thick with full wrap around PVC glazing channel or if preferred SoundOUT™ sashes can be double glazed.
7. Installing this product will create a thermally broken double glazed window that will significantly reduce heating and cooling costs.
8. Corner and bay type windows can be fabricated in SoundOUT™ with 90° and 135° couplers that snap to the frame, no ugly rivets or screws required.
9. Tall SoundOUT™ sliders are fitted with transoms that allow all sashes to be opened including the lowlight sashes. The alternative to fitting a transom on tall windows is making the sashes full height. Sashes over 1500mm high are not offered as very high sashes are extremely heavy, can be difficult to open and close and may be dangerous if for some reason the homeowner attempts to remove the sashes. Full height sashes will also require thicker, heavier glass to comply with the human impact section of the glass standard AS1288.



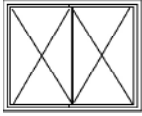
Internal view of SoundOUT™  
behind typical sliding window.



# Series 531 SoundOUT™ Sliding Window

DATE: NOV 09  
REPLACES: AUG 03  
SCALE: HALF FULL SIZE

## TYPICAL CONFIGURATIONS AND HALF SCALE SECTIONS



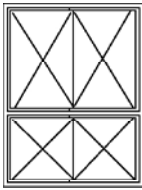
### type. 'SS'

Maximum recommended sizes  
1550mm high x 1900mm wide.



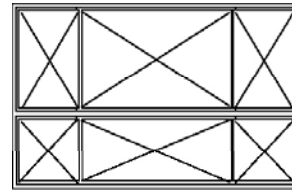
### type. 'SSS'

Maximum recommended sizes  
1550mm high x 2710mm wide.



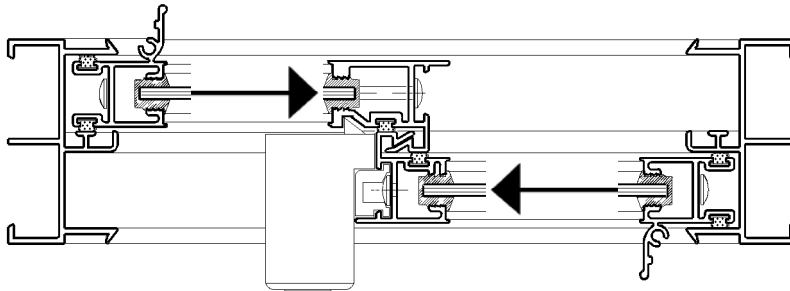
### type. 'SS'

Maximum recommended sizes  
2200mm high x 1900mm wide.



### type. 'SSS'

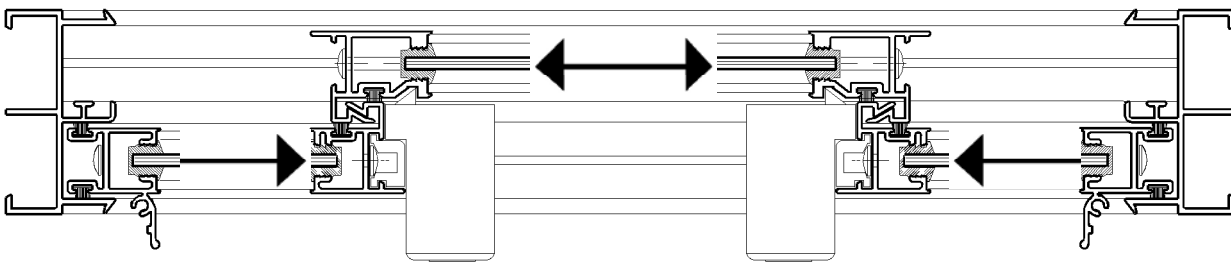
Maximum recommended sizes  
2200mm high x 2710mm wide.



### type. 'SS'

### Limitations

- Maximum sash height 1500mm.
- Maximum two light window 1900mm.
- Maximum STC rating 42 dB(A) with 6.38mm behind 3mm with 100mm air space between glass.
- As this product is located behind the main (external) window no allowance has been made for wind loading.



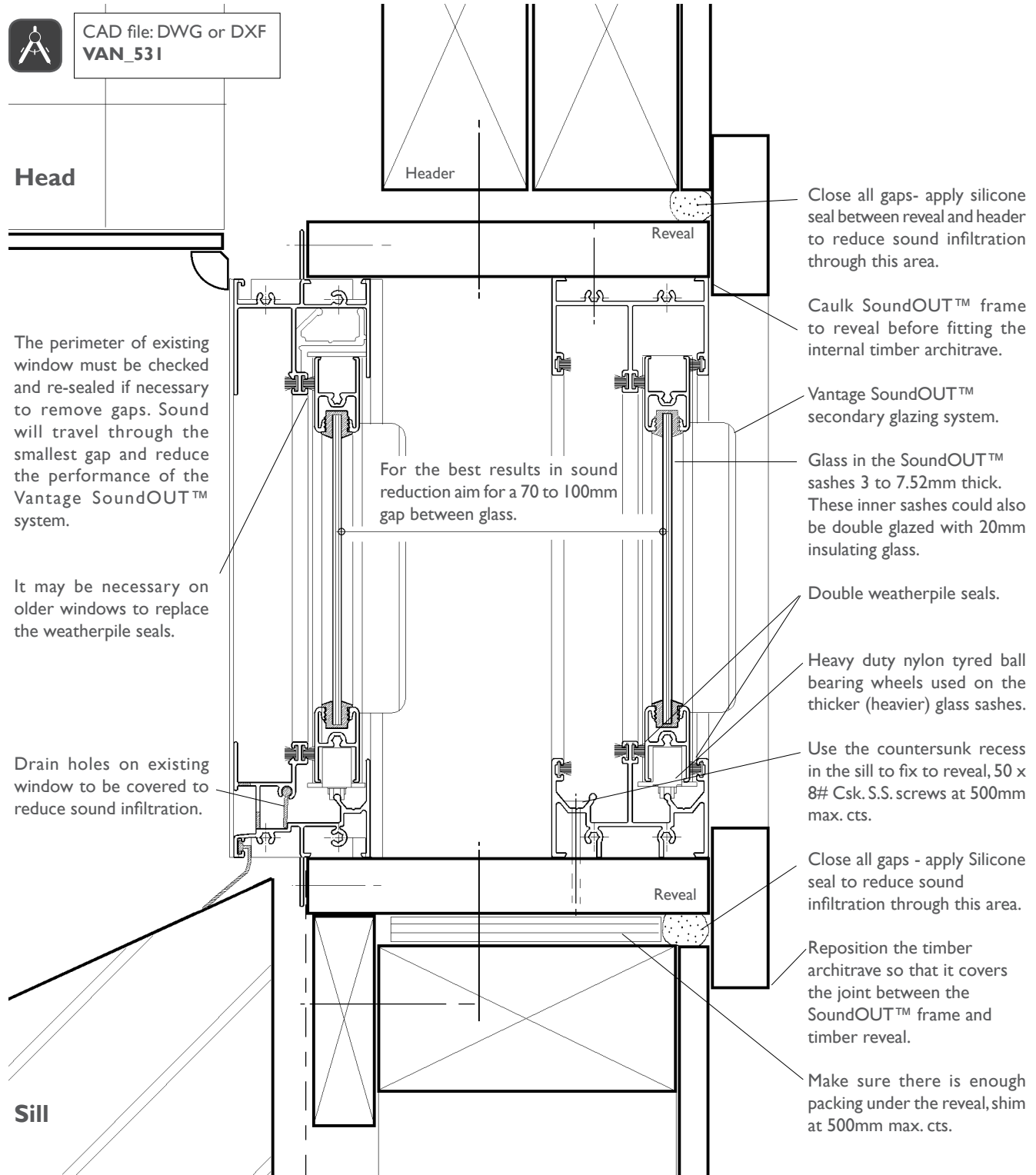
### type. 'SSS'

# Series 53 I SoundOUT™ Sliding Window

DATE: NOV 09  
REPLACES: AUG 03  
SCALE: HALF FULL SIZE

## TYPICAL BUILDING IN DETAIL - VERTICAL SECTION

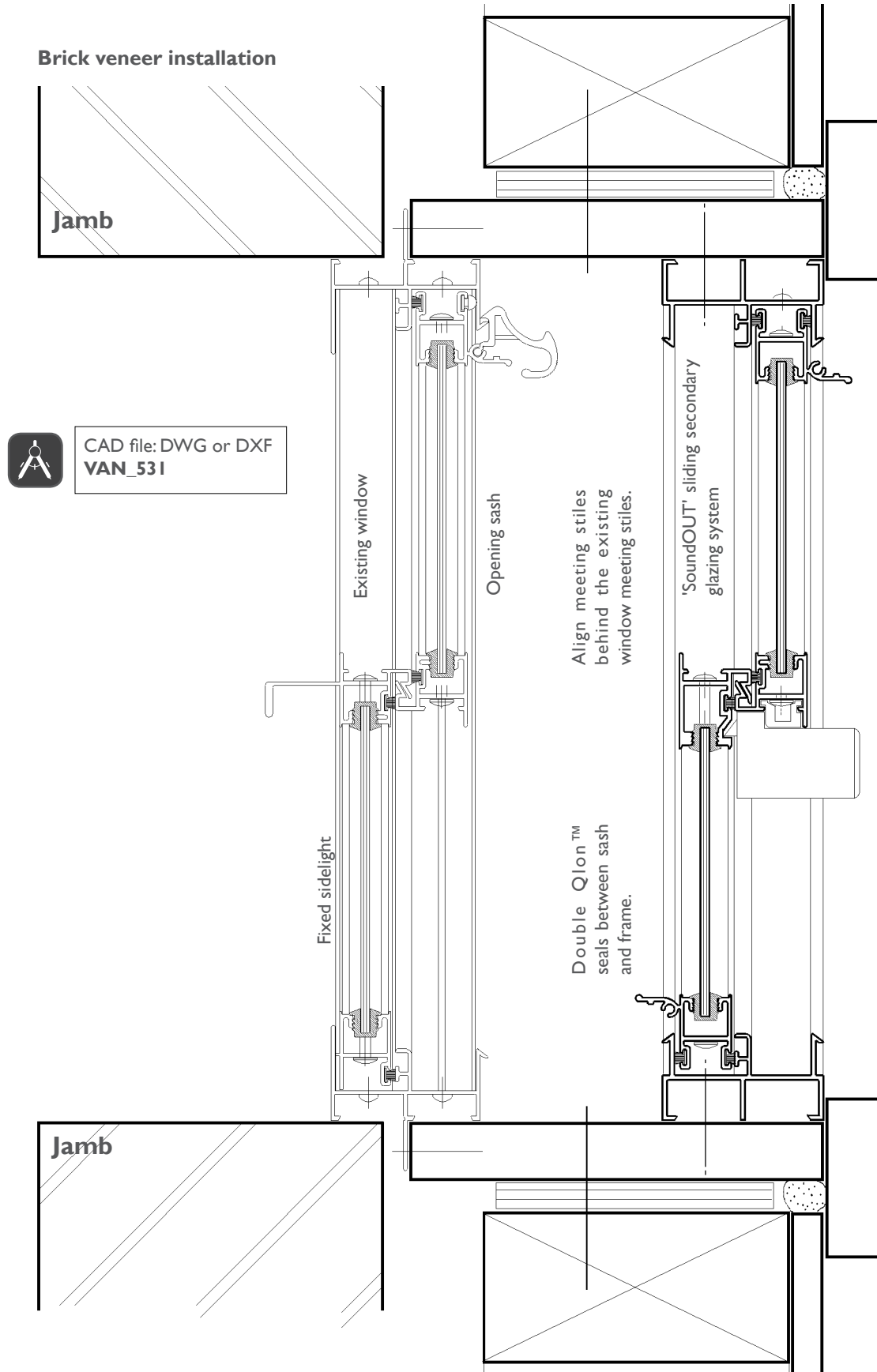
### Brick veneer installation



# Series 531 SoundOUT™ Sliding Window

DATE: NOV 09  
REPLACES: AUG 03  
SCALE: HALF FULL SIZE

## TYPICAL BUILDING IN DETAIL - HORIZONTAL SECTION



SoundOUT™ sliding sashes are locked with a centre type cam catch that prevents both sashes from being opened. An added feature is the key activated shoot bolt that will lock the main sash in the closed or partly open (ventilation) position.

This sliding sash located behind the existing window fixed sidelight can be opened to allow cleaning of the inner face of the existing window sidelight.



# Series 53 I SoundOUT™ Sliding Window

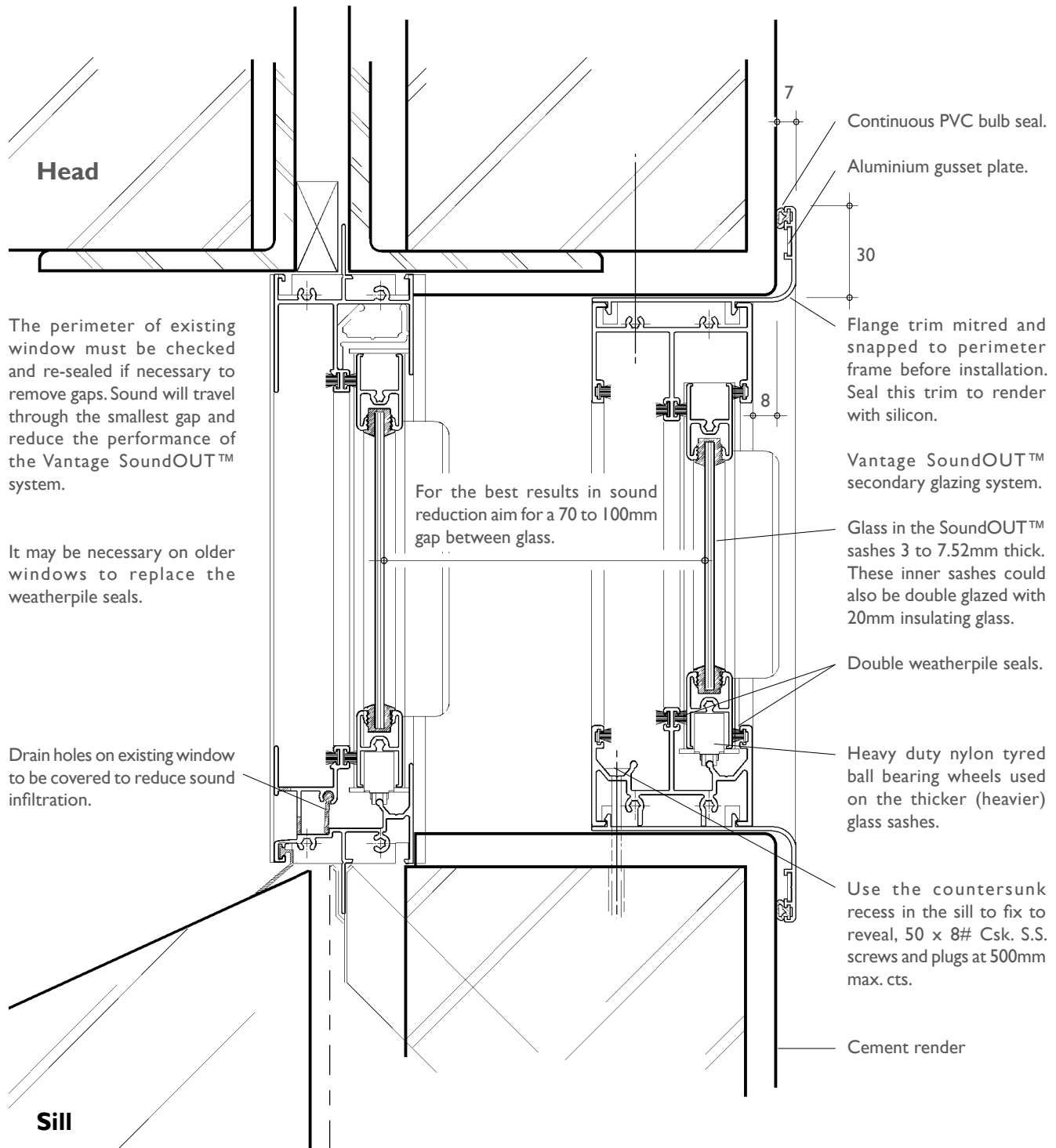
DATE: NOV 09  
REPLACES: AUG 03  
SCALE: HALF FULL SIZE

## TYPICAL BUILDING IN DETAIL - VERTICAL SECTION

**Cavity brick installation**  
with internal flange trim



CAD file: DWG or DXF  
**VAN\_53 I**

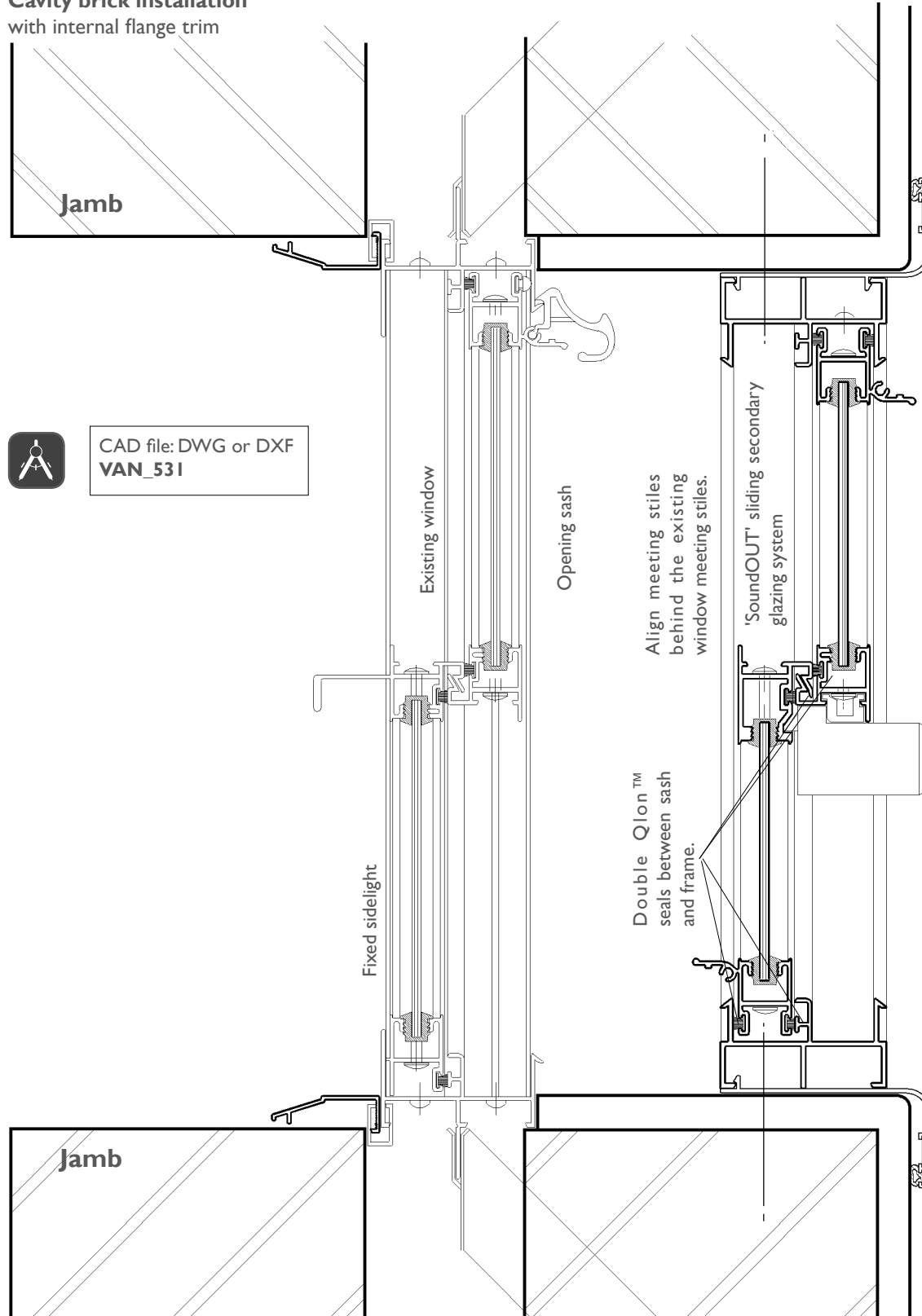


# Series 531 SoundOUT™ Sliding Window

DATE: NOV 09  
REPLACES: AUG 03  
SCALE: HALF FULL SIZE

## TYPICAL BUILDING IN DETAIL - HORIZONTAL SECTION

Cavity brick installation  
with internal flange trim



SoundOUT™ sliding sashes are locked with a centre type cam catch that prevents both sashes from being opened. An added feature is the key activated shoot bolt that will lock the main sash in the closed or partly open (ventilation) position.

This sliding sash located behind the existing window fixed sidelight can be opened to allow cleaning of the inner face of the existing window sidelight.

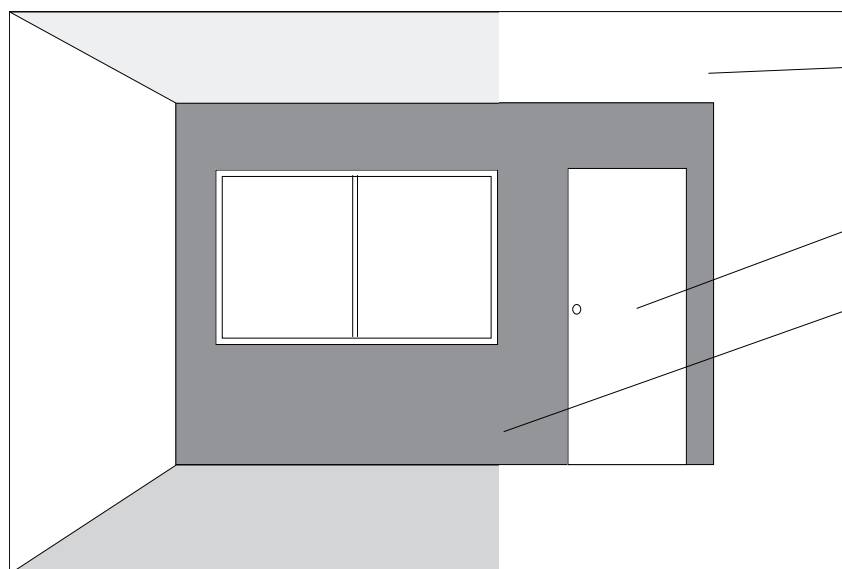
# Series 53 I

## SoundOUT™ Sliding Window

DATE: NOV 09  
 REPLACES: AUG 03  
 SCALE: NOT TO SCALE

### TYPICAL SOUND REDUCTION EXAMPLE

Fitting SoundOUT™ secondary glazing will improve the sound and heat movement through the glass area. Other elements of the building will have a major impact. Customers could be very disappointed if for example they fitted secondary glazing behind windows that are installed into 100mm stud walls lined with fibrous cement on the outside and single skin Gyprock on the inside and open brick piers in the under floor area. The window area would rate well but would be completely swamped by the poor wall and floor performance.



Ceiling areas should also be looked at as there are many products that can be fitted to improve the sound and heat transfer.

Doors without proper sound seals will allow in a surprising amount of noise.

There are a couple of things that can be done to improve a low rating wall performance. But these can be expensive. For example applying a brick veneer skin to a 100mm stud wall would be a major expense.

Your local Vantage fabricator can calculate the estimated room sound improvement as the wall, ceiling, door and window elements are changed.

### Typical STC Ratings

<b>Walls</b>	
270mm thick double skin brick wall.	42 dB *
250mm thick brick veneer wall with conventional single layer of 13mm Gyprock.	39 dB *
250mm thick brick veneer wall with double layer of 13mm Gyprock.	42 dB
150mm Hollow, dense concrete block wall.	45 dB *
200mm Hollow, dense concrete block wall.	48 dB
100mm Timber stud wall with flat cellulose-cement sheets and 10mm Gyprock.	33 dB *
100mm Timber stud wall with flat cellulose-cement sheets and two layers of 10mm Gyprock.	36 dB
100mm Steel frame with 5mm fibrous cement and 13mm plasterboard on the other side.	33 dB
100mm Steel frame with 5mm fibrous cement and 13mm plasterboard on the other side and 38mm insulation batts.	36 dB
<b>Roof</b>	
Pitched roof clad with tiles over 10mm Gyprock.	33 dB *
Pitched roof clad with tiles over two layers of 10mm Gyprock.	36 dB *
Pitched roof clad with tiles over 50mm thick 12kg/m <sup>3</sup> glass fibre blanket between joists.	39 dB *
<b>Doors</b>	
Ordinary hollow core door	15 dB
Solid core 42mm thick plywood door, soft PVC gasket on top and sides and drop seal at base.	30 dB *

\* Values as per Australian Standard AS3671-1989.

Series 531  
SoundOUT™ Sliding Window

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