PRODUCT MANUAL

March 2018

500 SLENDERLINE SLIDING WINDOW

crealco
creative aluminium

A product of
WISPECO Aluminium

LEGAL DISCLAIMER

General Documentation Disclaimer

This manual is intended as a manufacturing and installation advisory document. For correct specifications, sizing of profiles and structural information please consult the StarFront Application. If the information you require is not available through the StarFront Application, please contact your stockist before proceeding. It is advisable to have all sizing and performance criteria checked by a qualified structural engineer to ensure that the required criteria will be met.

All information, recommendations or advice contained in this documentation is given in good faith to the best of Wispeco's knowledge and is based on current procedures in effect.

Since the actual use of this documentation by the user is beyond the control of Wispeco, such use is within the exclusive responsibility of the user. Wispeco cannot be held responsible for any loss incurred through incorrect or faulty use of this documentation. Training of Wispeco systems is important for ensuring correct procedures in the manufacturing of products.

Great care has been taken to ensure that the information provided is correct.

Ensure that you have the latest available manual. The revision number and date can be checked on the latest StarFront version.

Wispeco will accept no responsibility for any errors and/or omissions, which may have inadvertently occurred.

Specifications concerning products and applications

This manual is based on standard configurations only. As there are many configurations not covered in this manual, contact your stockist with regards to a configuration not represented herein if required.

AutoDesk drawings (CAD Symbol Library) are available on request and can be issued with the consent of the Wispeco Technical Department.

All mechanical joints must be sealed with a **Crealco approved joint sealer**. Failure to correctly seal the joints can affect the performance of the system. Information on joint sealing can be found in the Cleaning & Maintenance Manual available for download from the Wispeco website or from StarFront.

All drawings in the Wispeco Documentation are NOT to scale and are used for illustrative purposes only.

Wispeco will not accept responsibility for the use of standard products since Wispeco does not know where these products are being installed.

The hardware recommended in this documentation is suitable for use in most atmospheric environments. When hardware is used in severe coastal environments the manufacturer of the hardware must be consulted.

For the coastal regions and any other high corrosion areas, the following is advised: to minimize phylliform corrosion use SurTec650 RTU spray during the manufacturing of aluminium profile systems. This should be applied, before assembly, on all pre-work aluminium where the powder coating covering has been removed thereby exposing the raw aluminium base.

The use of non-specified hardware or incorrect mechanical fasteners can adversly affect the mechanical and weathering performance of the system and we strongly advise against deviations. A Wispeco Consultant can advise you of any hardware issues and limitations with regard to this system.

The use of anti-magnetic stainless steel screws and aluminium pop rivets is recommended to reduce galvanic corrosion in harsh environments.

Fixing lugs on frames must be positioned as per the user manual and used in accordance to the AAMSA specifications. When profiles are screwed together the screw centres must also be according to the user manual or as specified by an engineer.

All glass used within Wispeco products must comply with SAGGA regulations. Laminated glass must not stand in water.

By continuing to use this documentation you acknowledge that you understand and accept the legal disclaimer.

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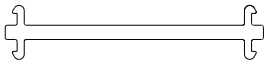
Profile Identification

Series 500 Window Profiles

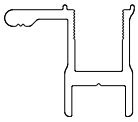
DIE No. W27603 | 500 Sill Baffle Plate



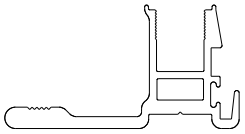
DIE No. W24497 | 500 Coupling Mullion Only for W52007

DIE No. W14014 | 500 Sill Exit

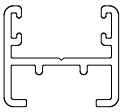
DIE No. W28475 | 500 Sash Head & Sill



DIE No. W28476 | 500 Sash Outer Frame

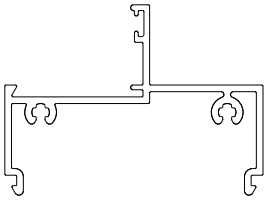


DIE No. W53888 | 500 Sash interlocker

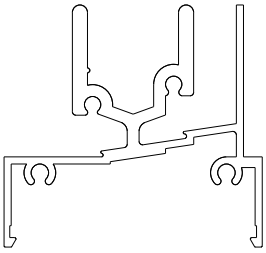


DIE No. W28482 | 500 OXXO Adaptor

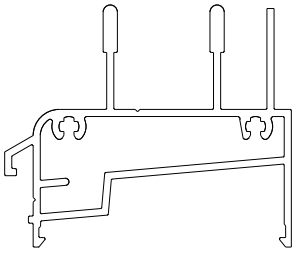
DIE No. W26364 | 500 Fixing Lug



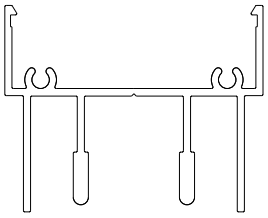
DIE No. W28481 | Cas30.5 54mm Outer Frame



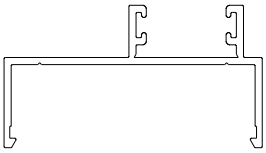
DIE No. W24494 | 500 Sill Rail



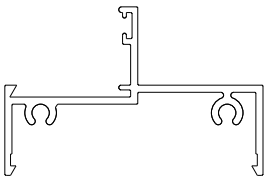
DIE No. W53322 | 500 Hollow Sill Rail



DIE No. W24498 | 500 Head Rail



DIE No. W24496 | 500 Jamb Rail



DIE No. W52007 | Cas28 54mm Outer Frame

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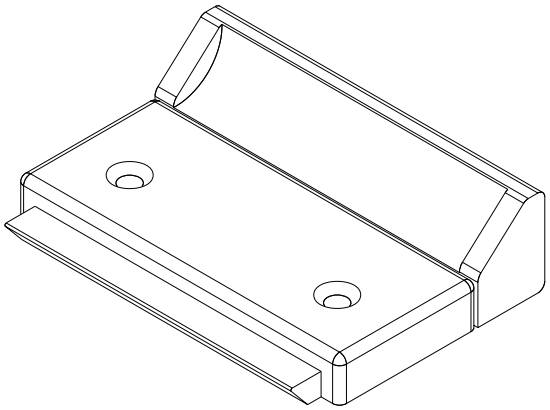
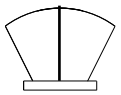
Hardware Components

RECOMMENDED SERIES 500 COMPONENTS

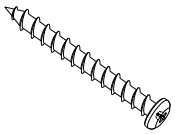
All hardware is available through our Stockists as well as through Crealco Components, and can be viewed on www.crealco-components.com



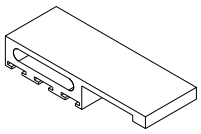
SDW-500-NYL
Nylon Slider Handle
60mm

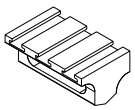


GFP-4850
Finpile

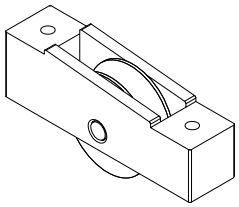


FSP-0830P-SS
P/Head POSI
8x30 S/S Screw

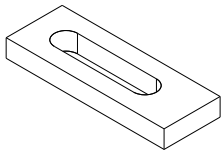




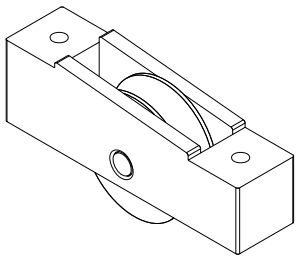
PEX-500TB
Draught Excluder
Top And Bottom



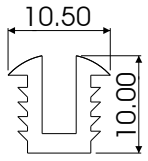
RSW-500-NYL
Roller Nylon With Stainless
Steel pin



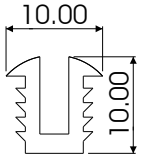
SGD-ALS500
Anti Lift Block



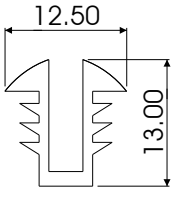
RSW-500-SS
Roller Stainless Steel
With Bearing Assembly



GCH-H160
Channel H160
for 6.38mm glass



GCH-H12
Channel H12
for 5mm glass



GCH-H21
Channel H21
for 4mm glass

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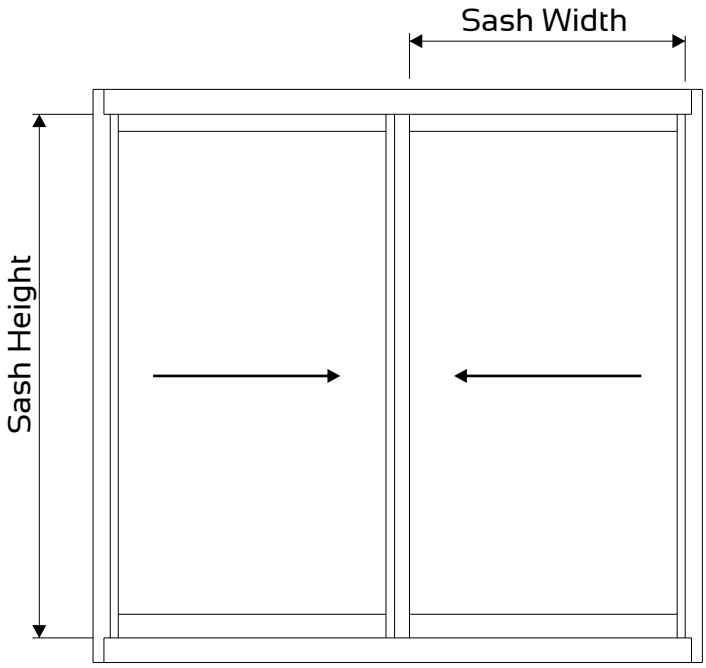
Size Limitation Guide

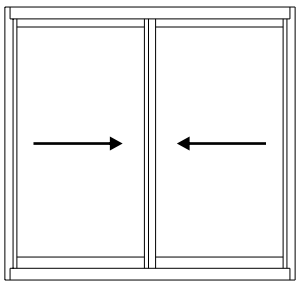


MAXIMUM SASH WIDTH = 750mm

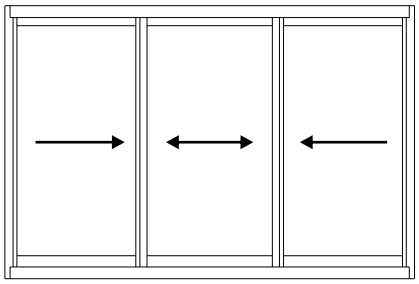
MAXIMUM SASH HEIGHT = 1500mm

Typical Configurations

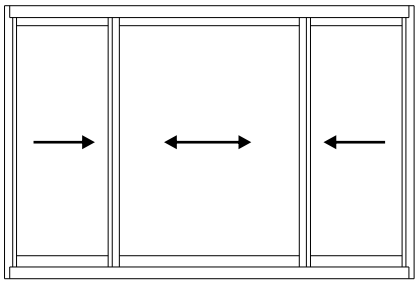
OX CONFIGURATION



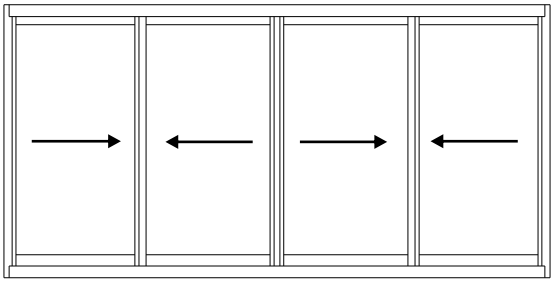
XOX EQUAL PANE CONFIGURATION



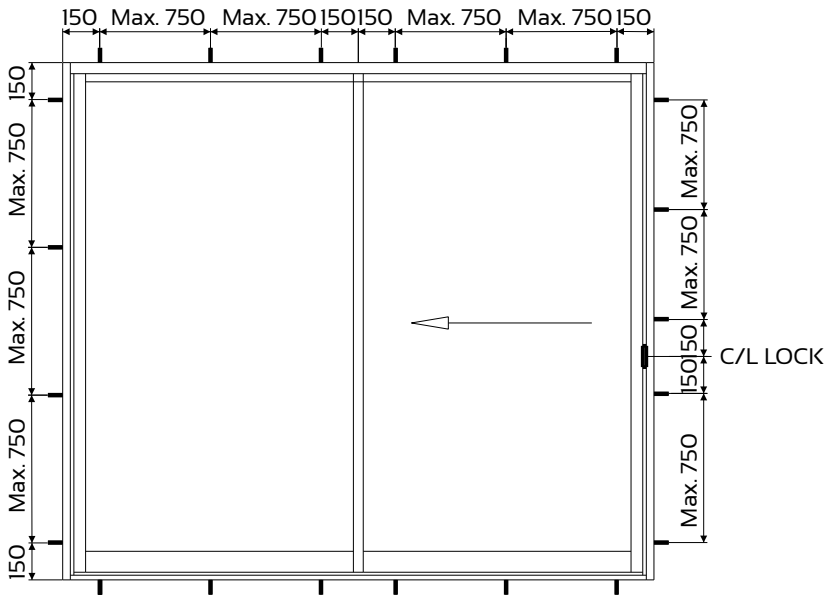
XOX UNEQUAL PANE CONFIGURATION



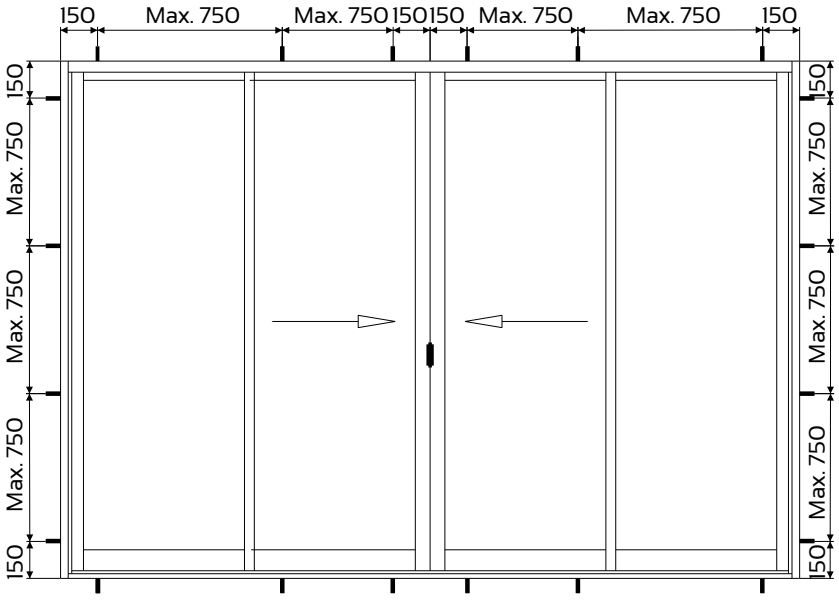
OXXO CONFIGURATION



Fixing Details



TYPICAL OX SLIDING DOOR &
HORIZONTAL SLIDING WINDOW



TYPICAL OXXO SLIDING DOOR &
HORIZONTAL SLIDING WINDOW

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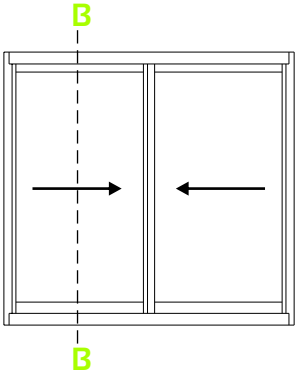
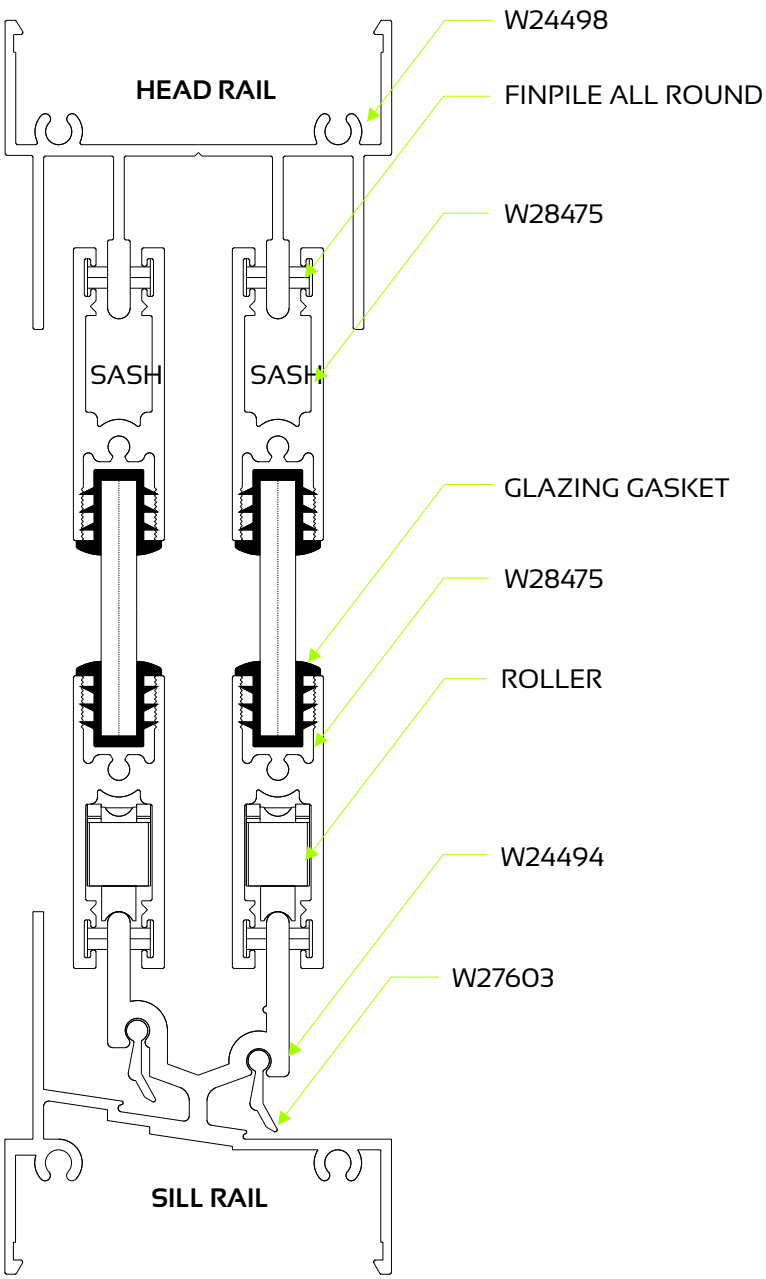
Vertical Cross Sectional Detail

Showing Sill Rail



SECTION B-B
Section not to scale



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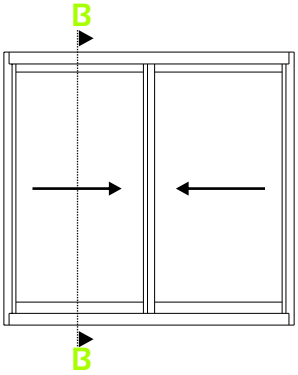
Vertical Cross Sectional Detail

Showing Hollow Sill Rail



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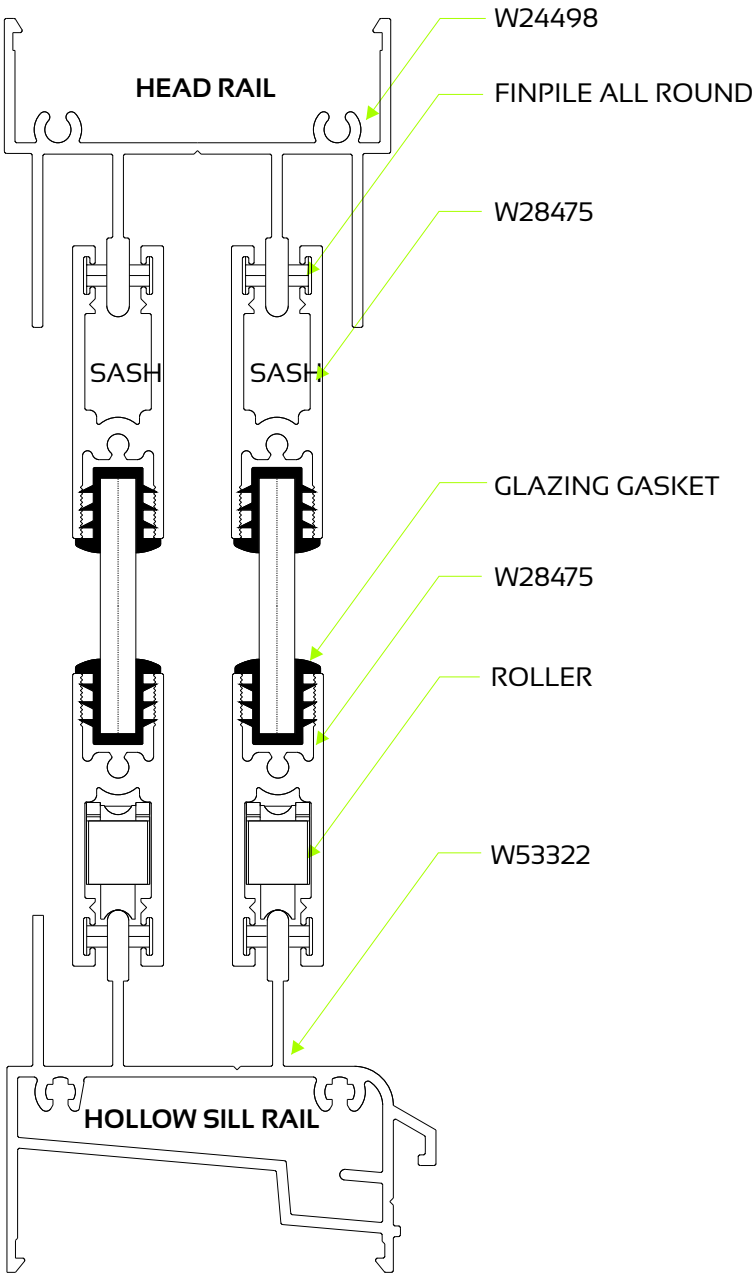

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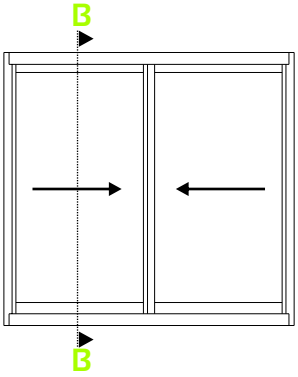
Vertical Cross Sectional Detail

Showing High Rise Sill Rail



SECTION B-B
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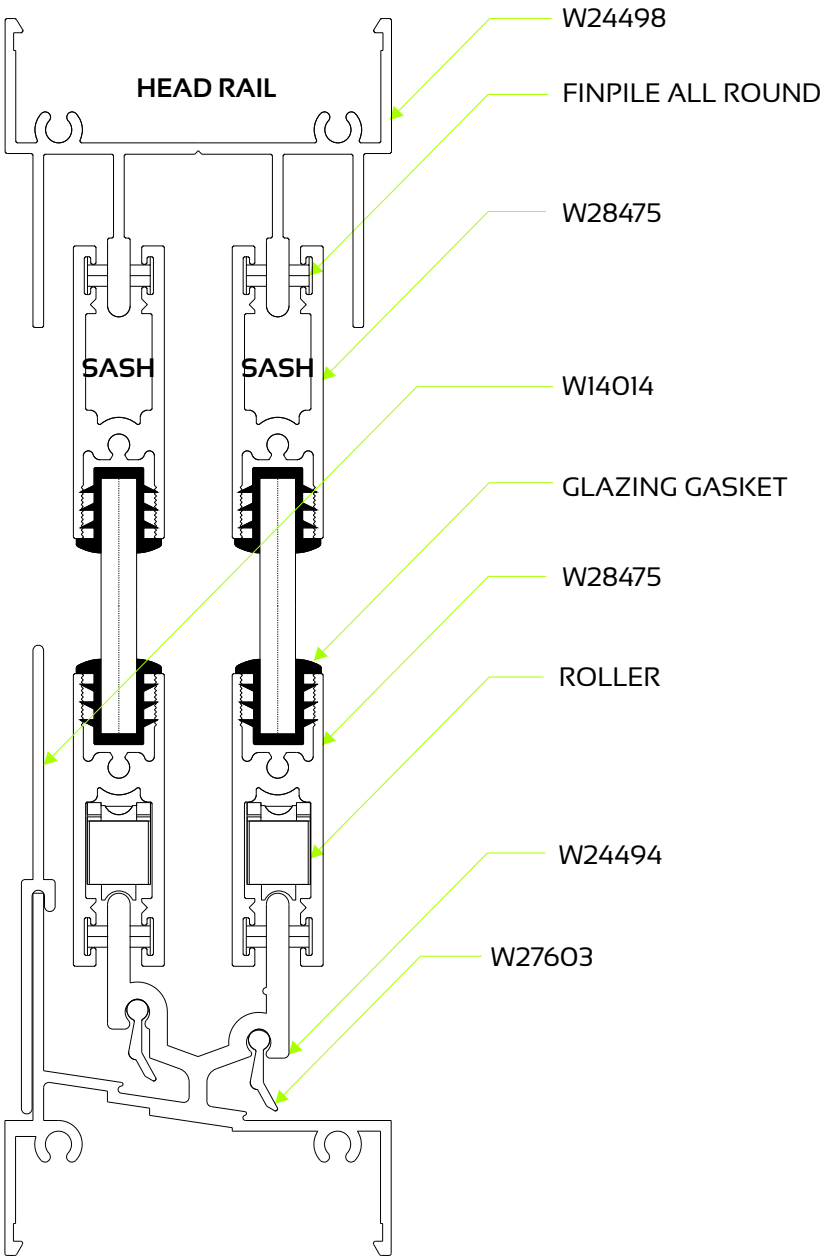

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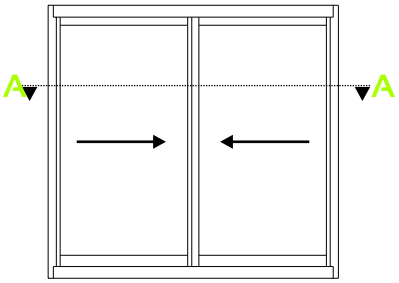
Horizontal Cross Sectional Detail

Showing OX Configuration



SECTION A-A
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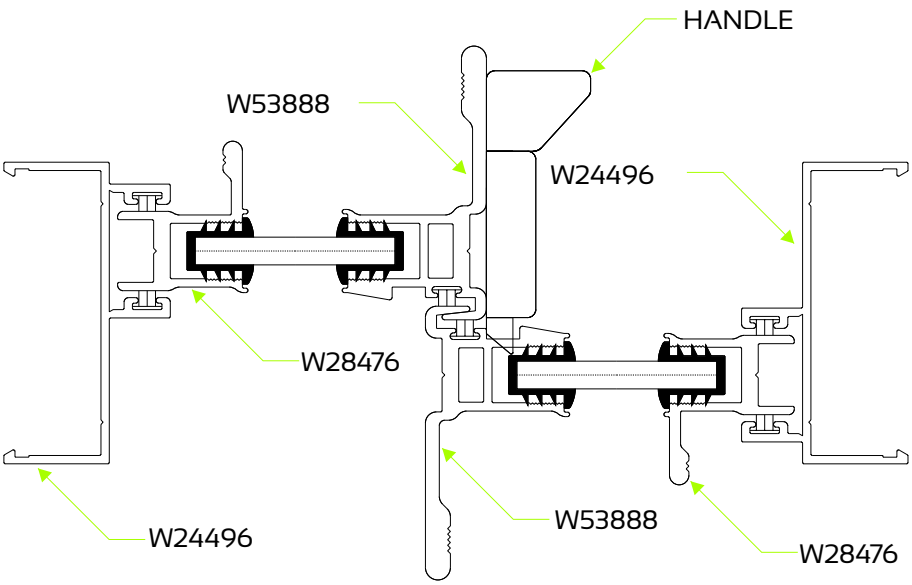
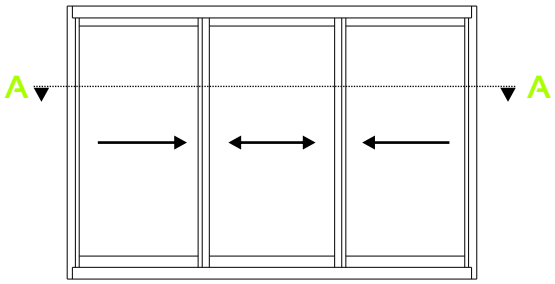


Horizontal Cross Sectional Detail

Showing XOX Configuration



SECTION A-A
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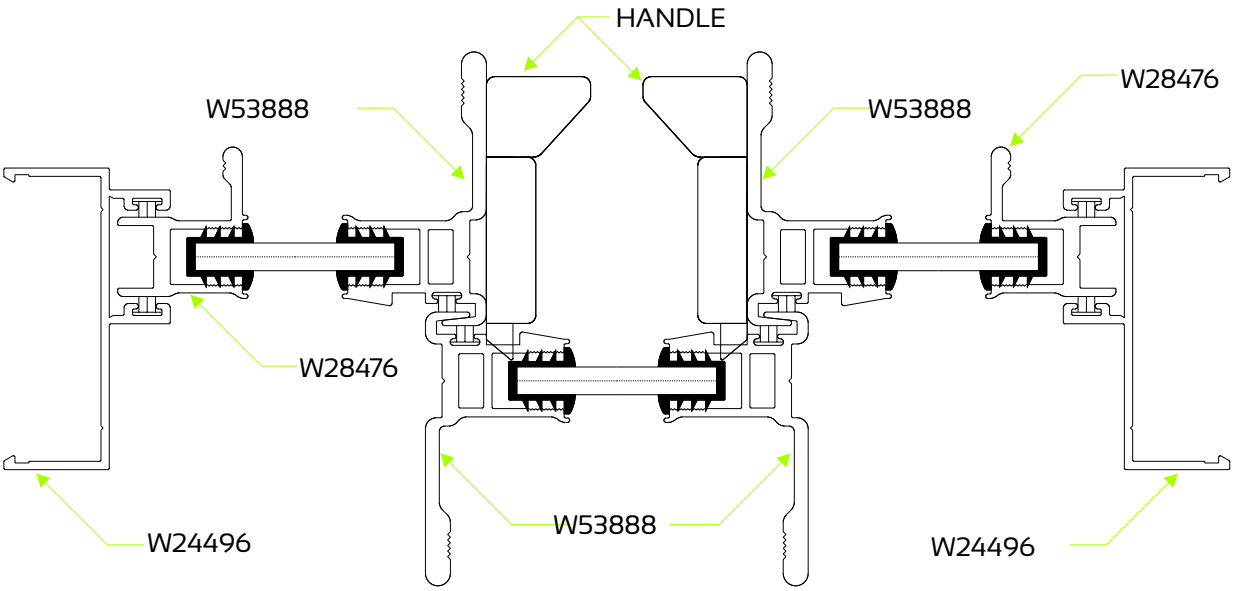

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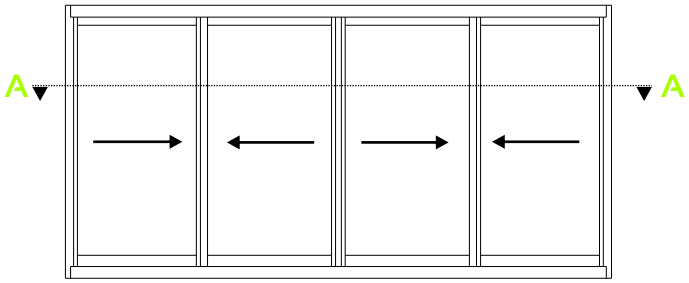
Horizontal Cross Sectional Detail

Showing OXXO Configuration



SECTION A-A
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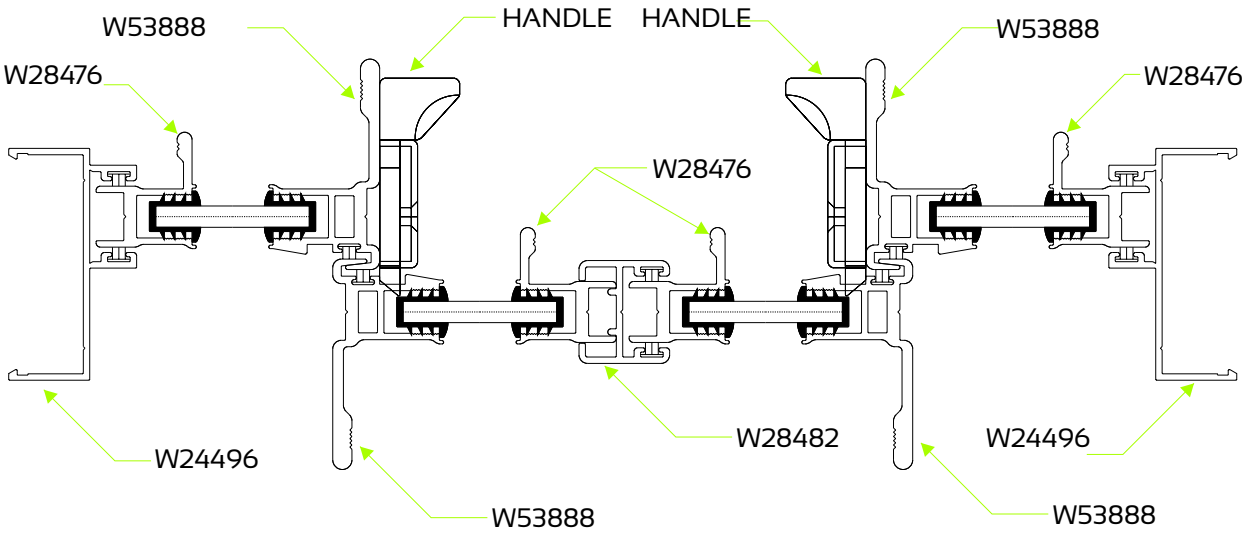
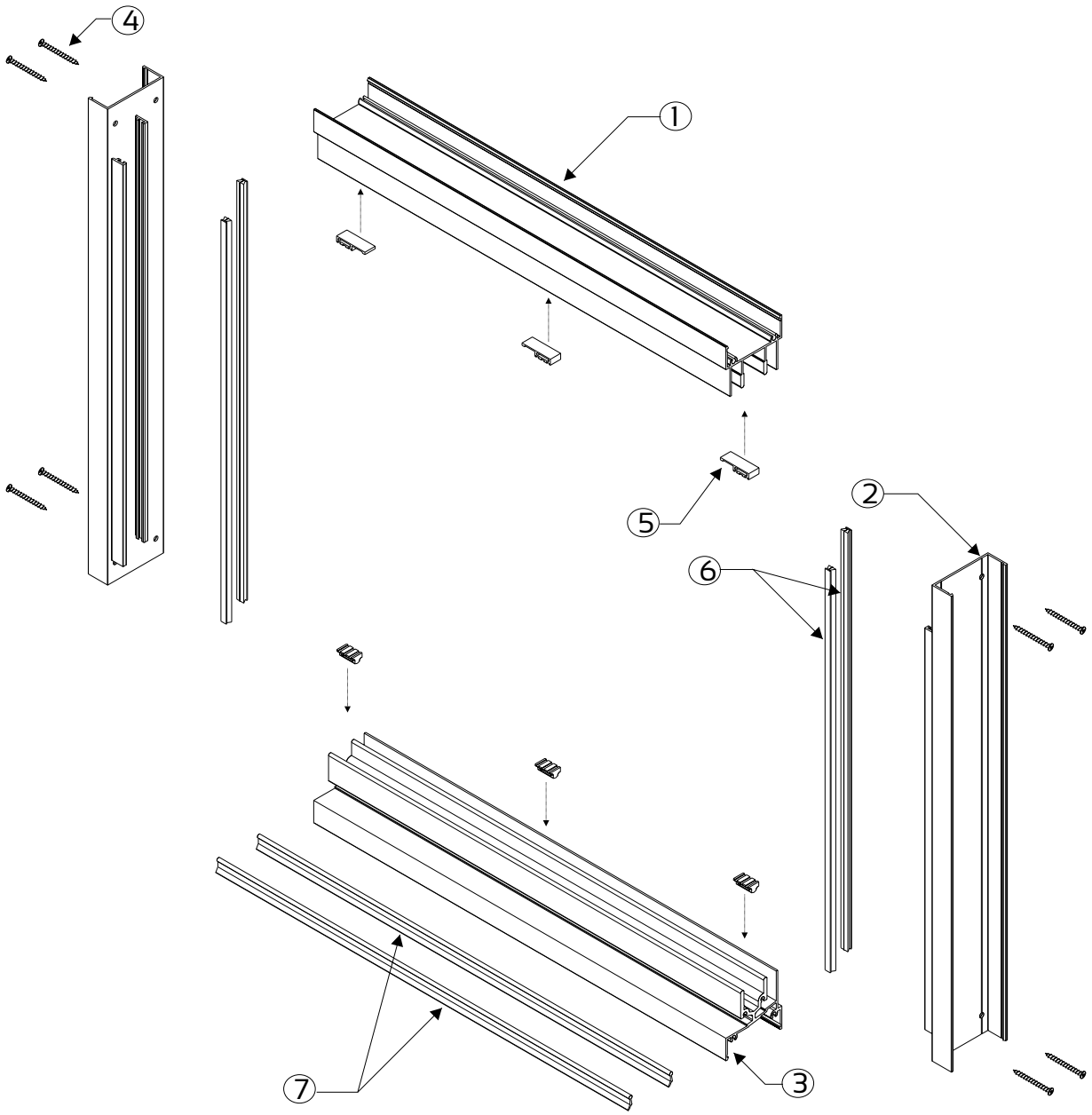


Assembly Detail

Outer Frame Component



System Profiles

ITEM	QTY	DIE No.	DESCRIPTION
1	1	W24498	500 Head Rail
2	2	W24496	500 Jamb Rail
3	1	W24494	Sill Rail

Hardware

ITEM	QTY	COMPONENT DESCRIPTION
4	8	8x30 P/Head POSI S/S Screw
5	6	Draught Excluders
6	4	Finpile
7	2	Sill Baffle Plate

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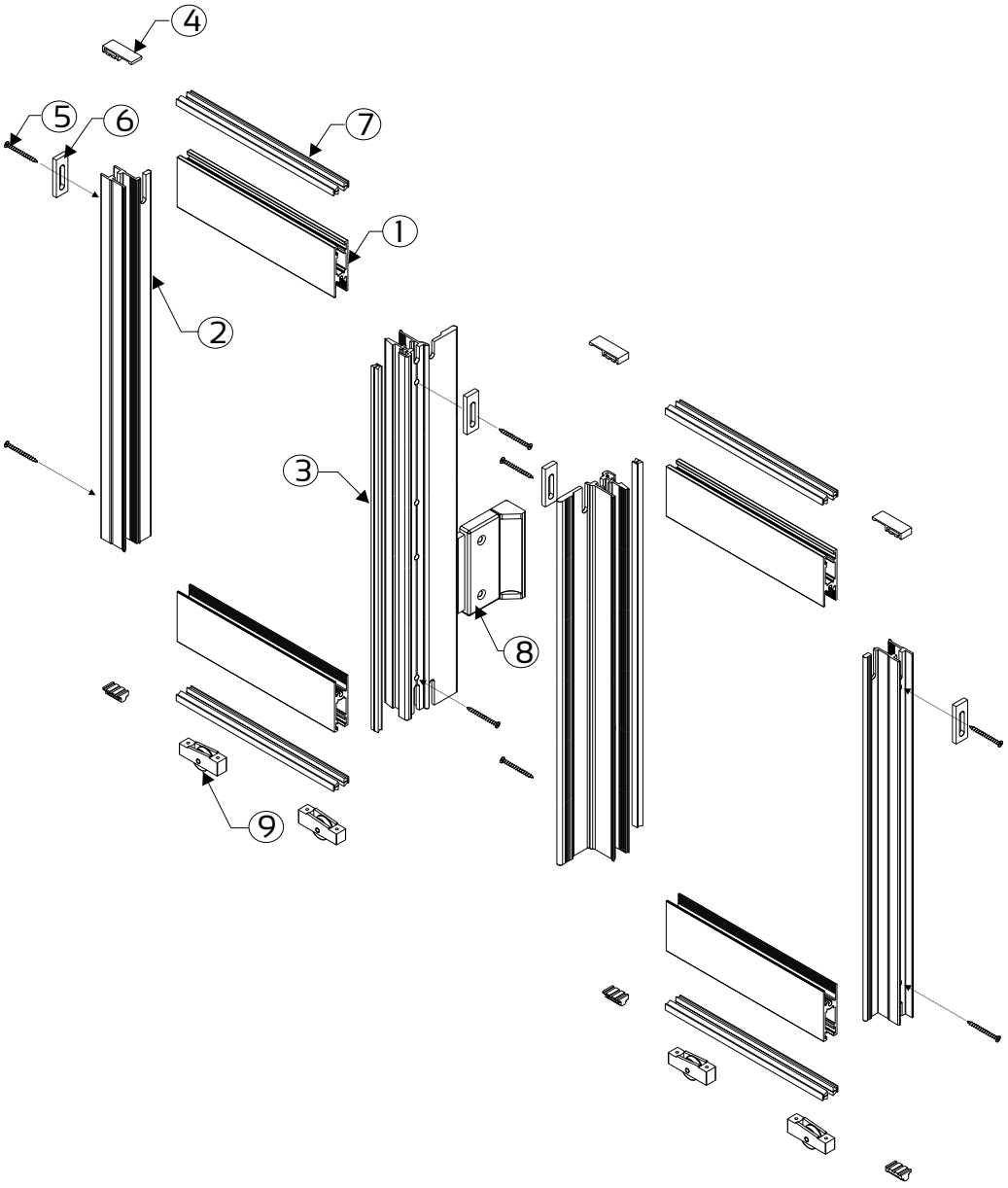
Assembly Detail

Sash Frame Component



System Profiles

ITEM	QTY	DIE No.	DESCRIPTION
1	4	W28475	500 Sash Head & Sill
2	2	W28476	500 Sash Outer Frame
3	2	W53888	500 Sash Interlocker

Hardware

ITEM	QTY	COMPONENT DESCRIPTION
4	6	Draught Excluders
5	8	8x30 P/Head POSI S/S Screw
6	4	Anti Lift Block
7	8	Finpile
8	1	Nylon Slider Handle
9	4	Rollers

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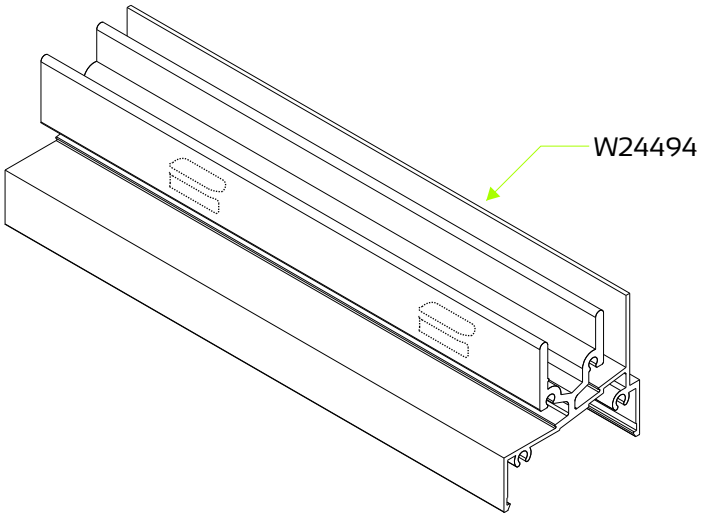
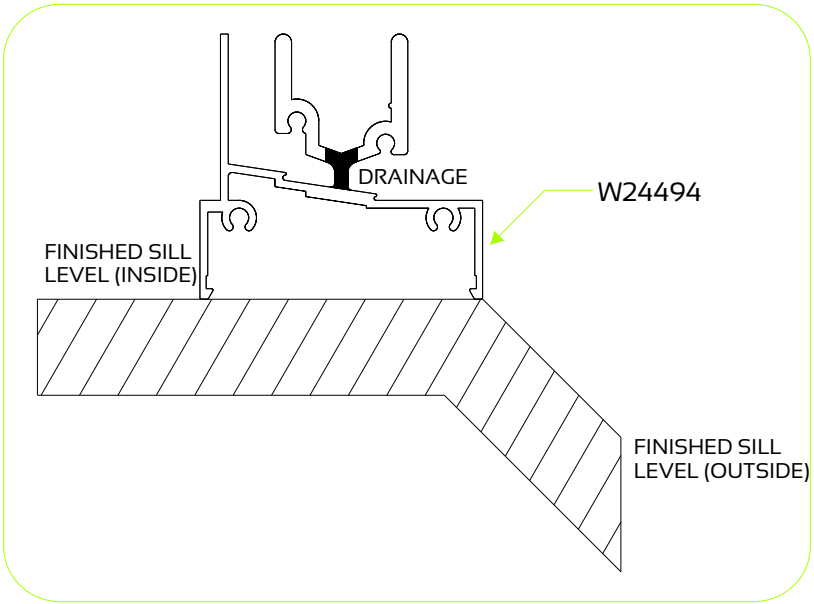
Floor Level Detail

Sill





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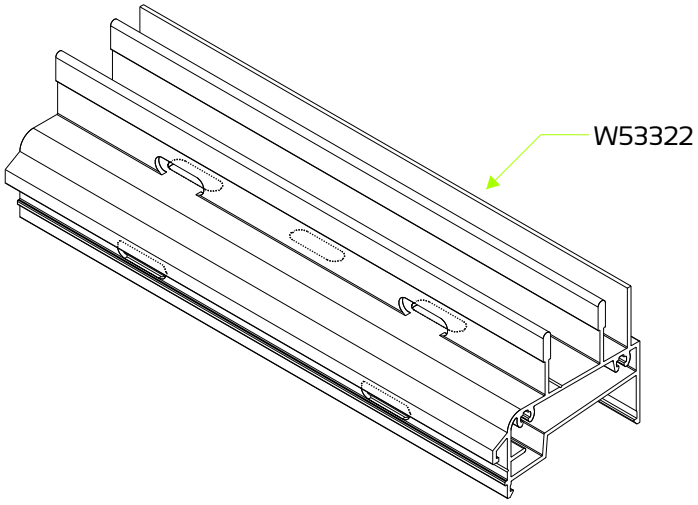
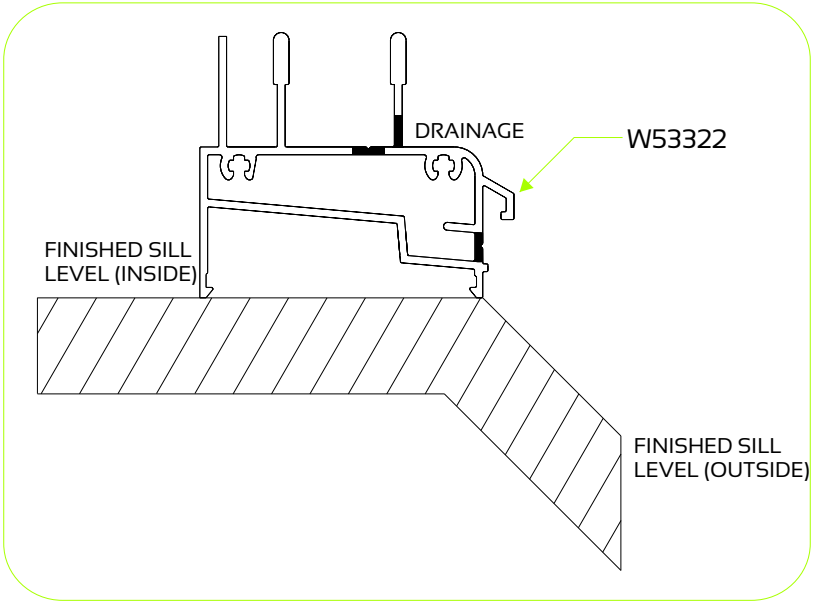
Floor Level Detail

Hollow Sill





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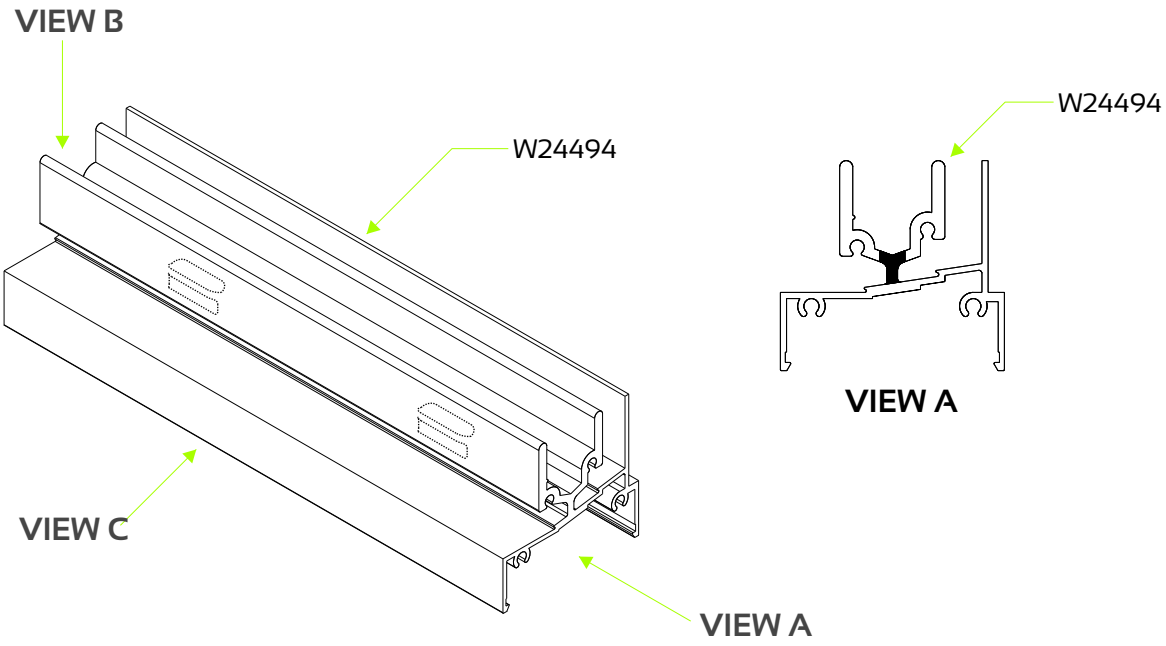
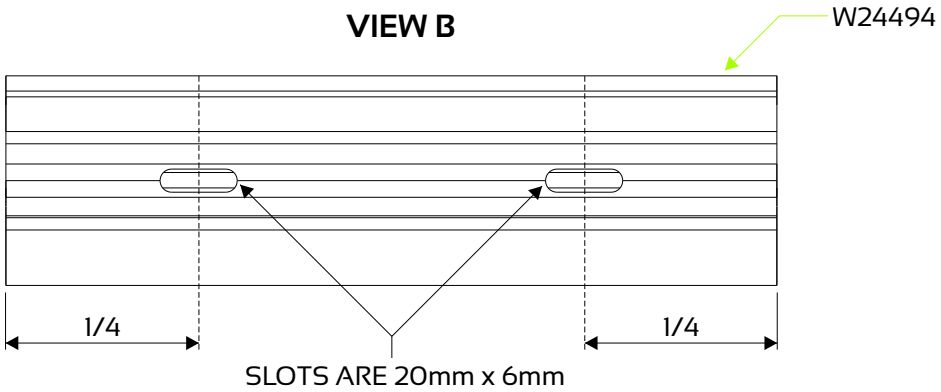
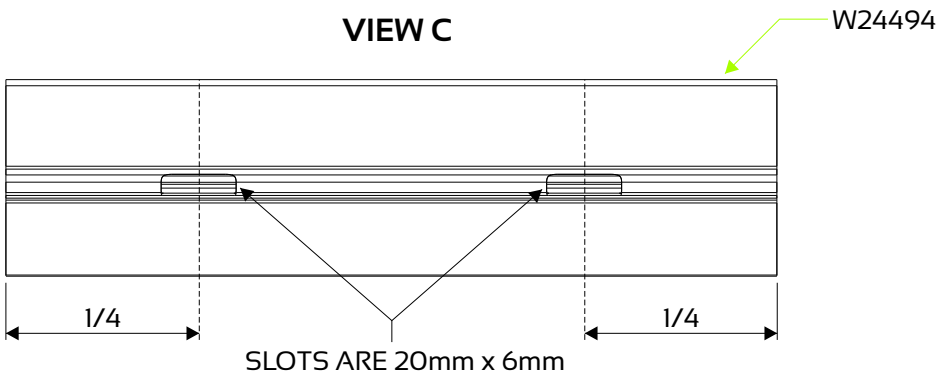
Machining Detail

Sill







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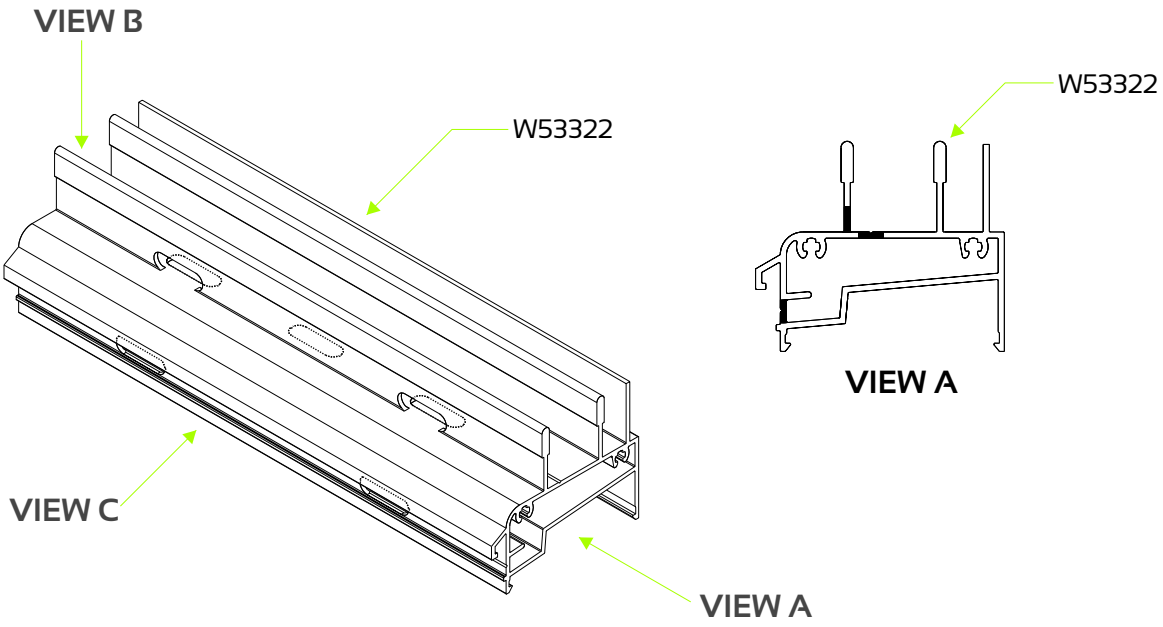
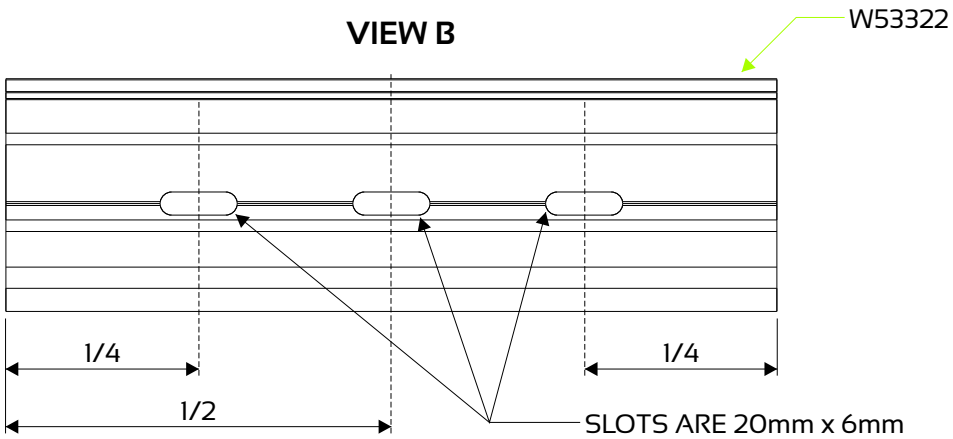
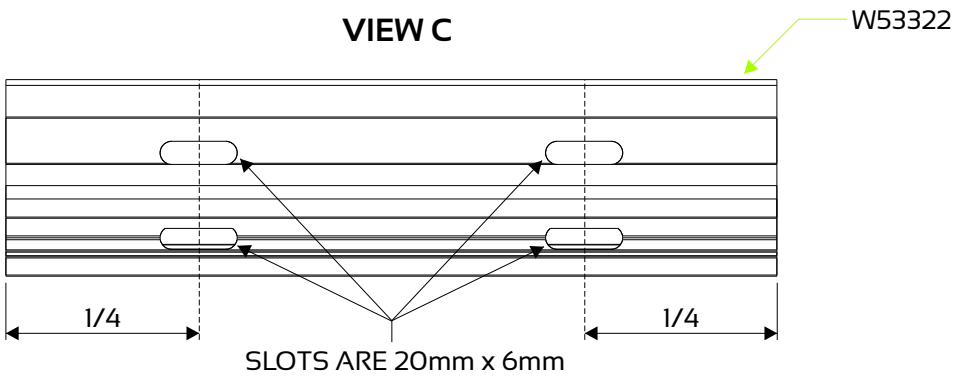
Machining Detail

Hollow Sill







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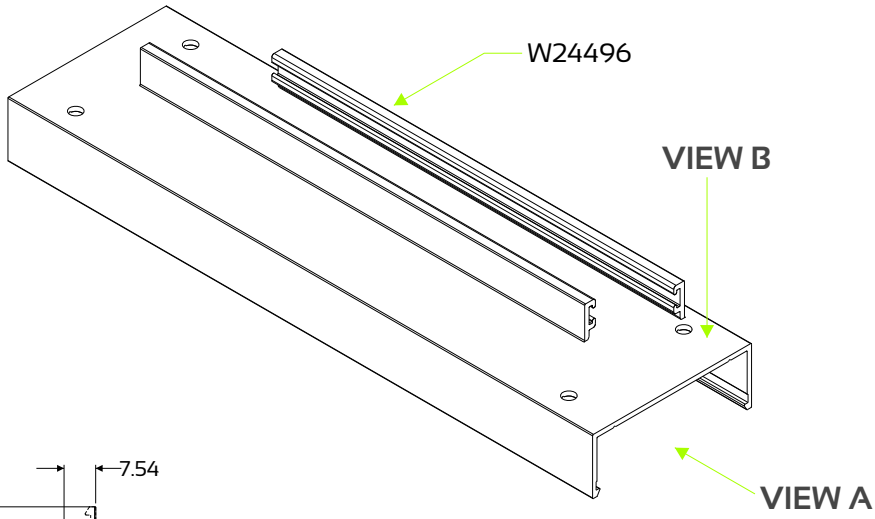
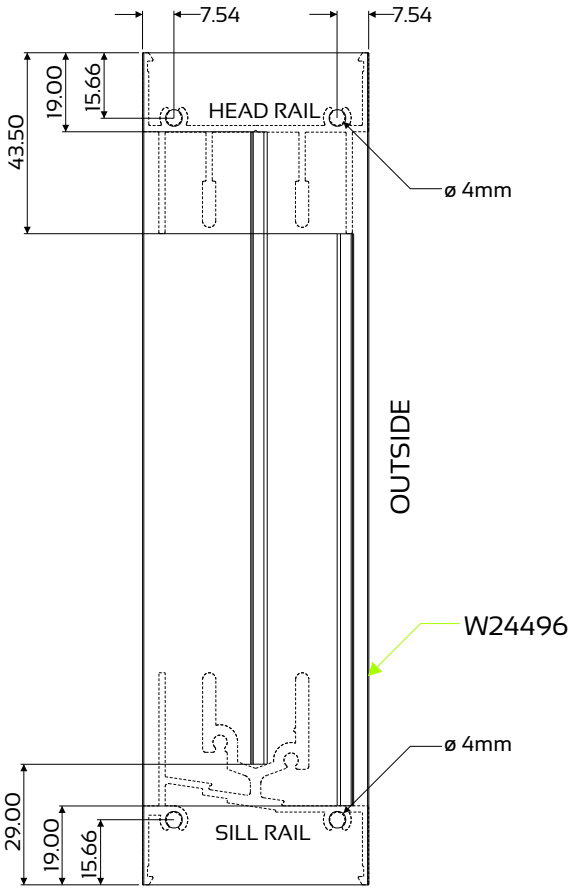
Machining Detail

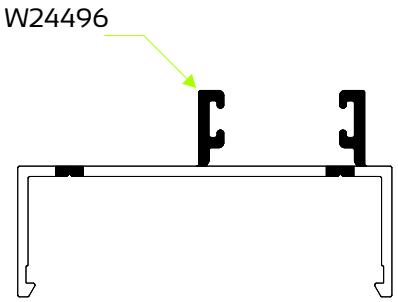
Jamb Rail
LHS Jamb Rail for OX Configuration/LHS & RHS Jamb Rail for OXXO Configuration





VIEW B

N.B:
A NEUTRAL SEALANT SHOULD BE APPLIED TO THE PROFILE ENDS OF THE CILL AND HEAD RAILS ON ASSEMBLY TO PROVIDE A GOOD SEAL ON THE OUTER FRAME BUTT JOINTS.
(ENSURE THAT SEALANT USED IS NON-CORROSIVE)



VIEW A

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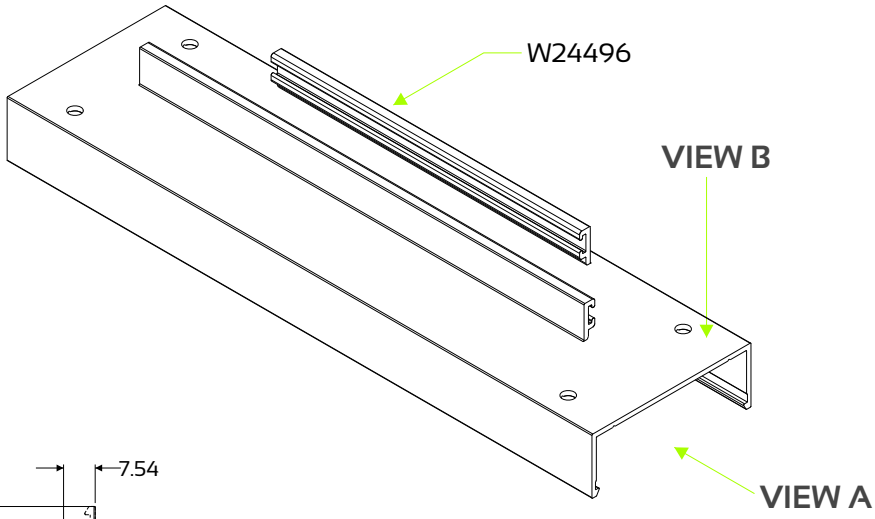
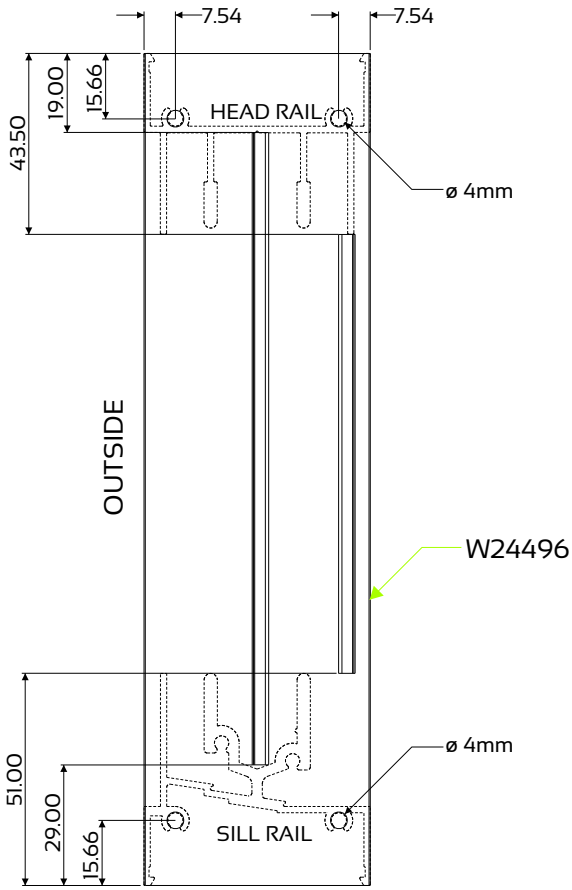
Machining Detail

Jamb Rail, RHS Jamb Rail For OX Configuration





VIEW B

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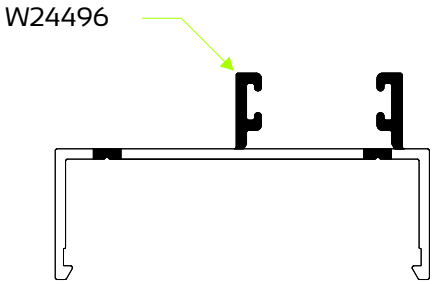
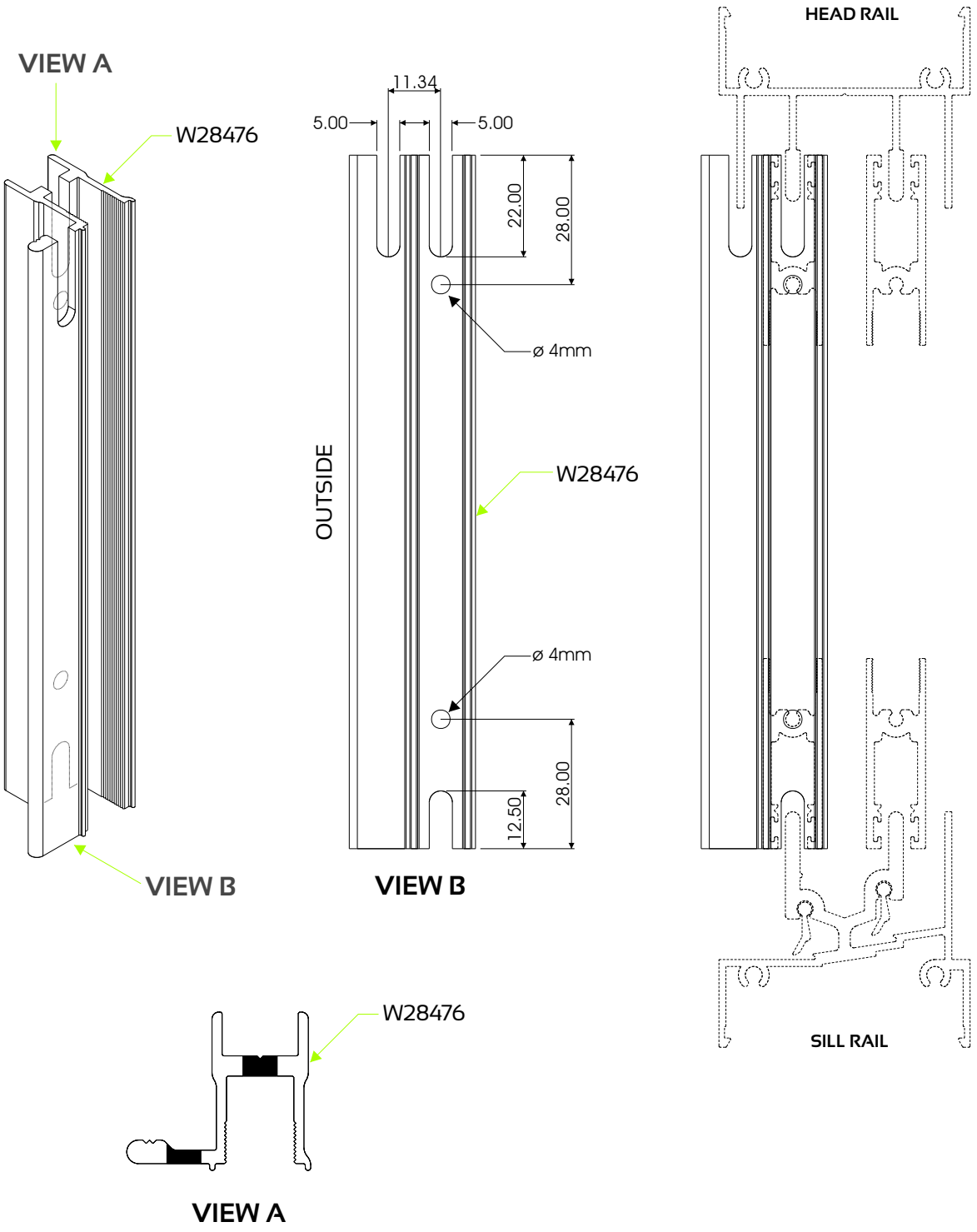
(ENSURE THAT SEALANT USED IS NON-CORROSIVE)



VIEW A

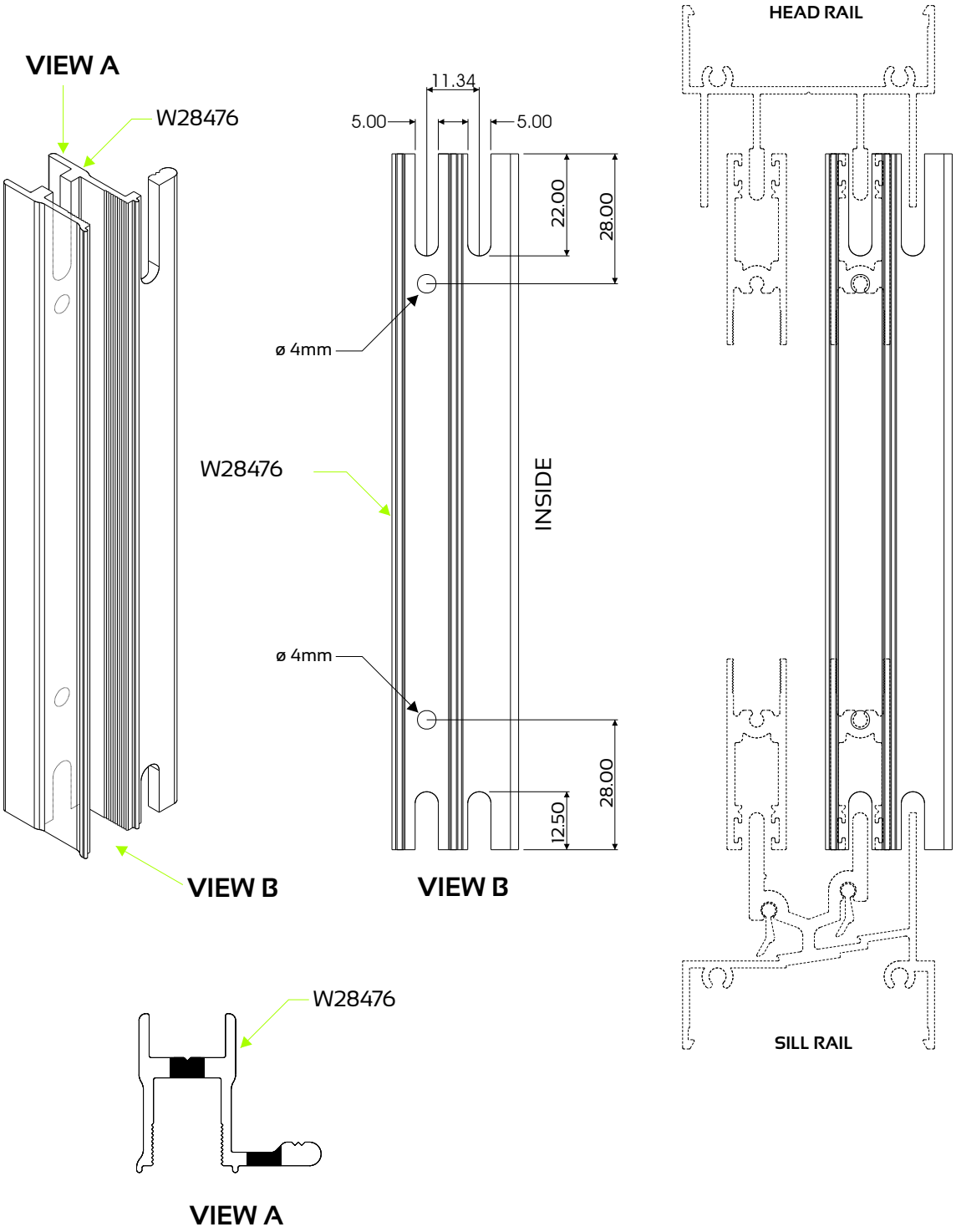
Machining Detail

Sash Outer Jamb



Machining Detail

Inner Sash Outer Jamb



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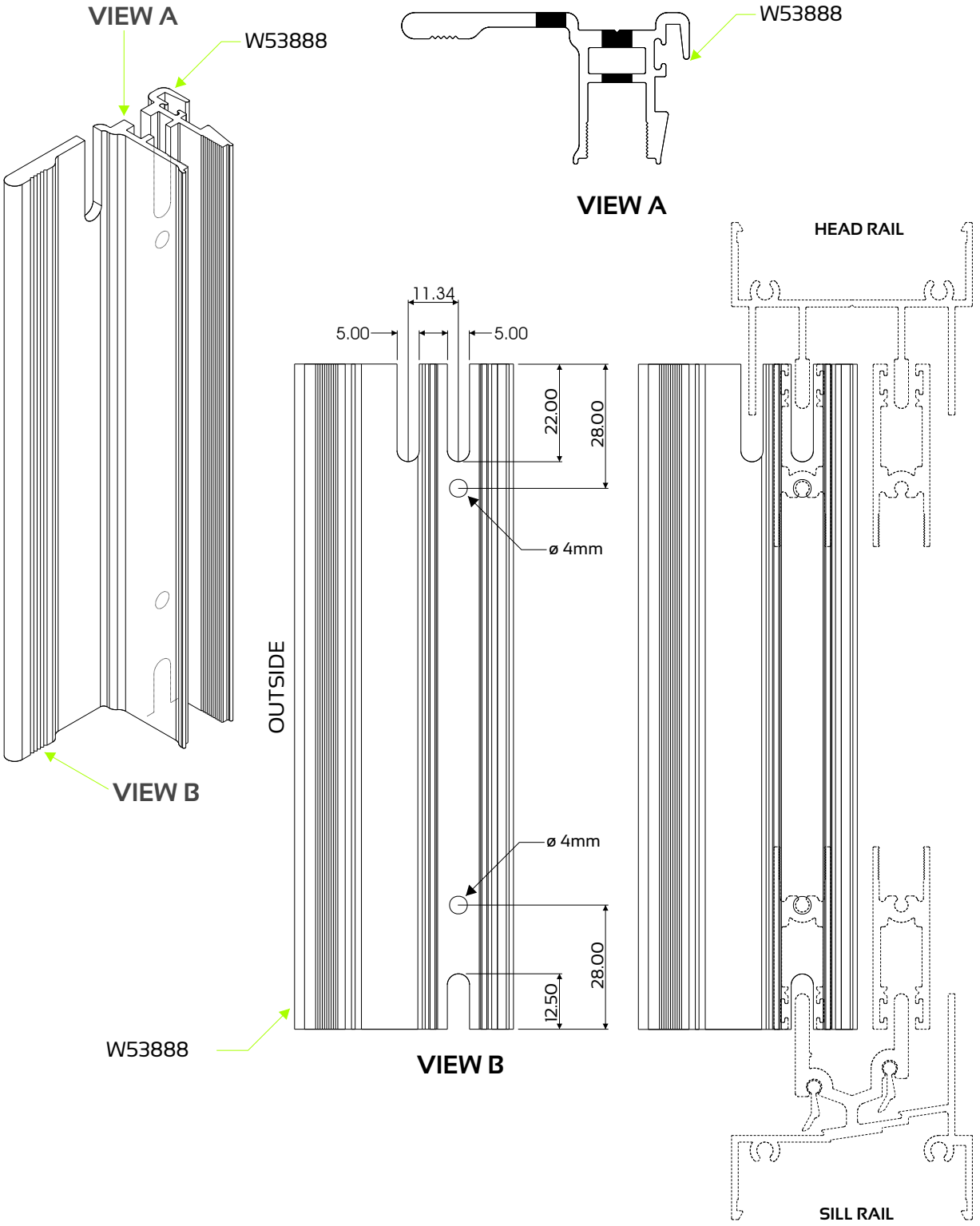
Machining Detail

Sash interlocker



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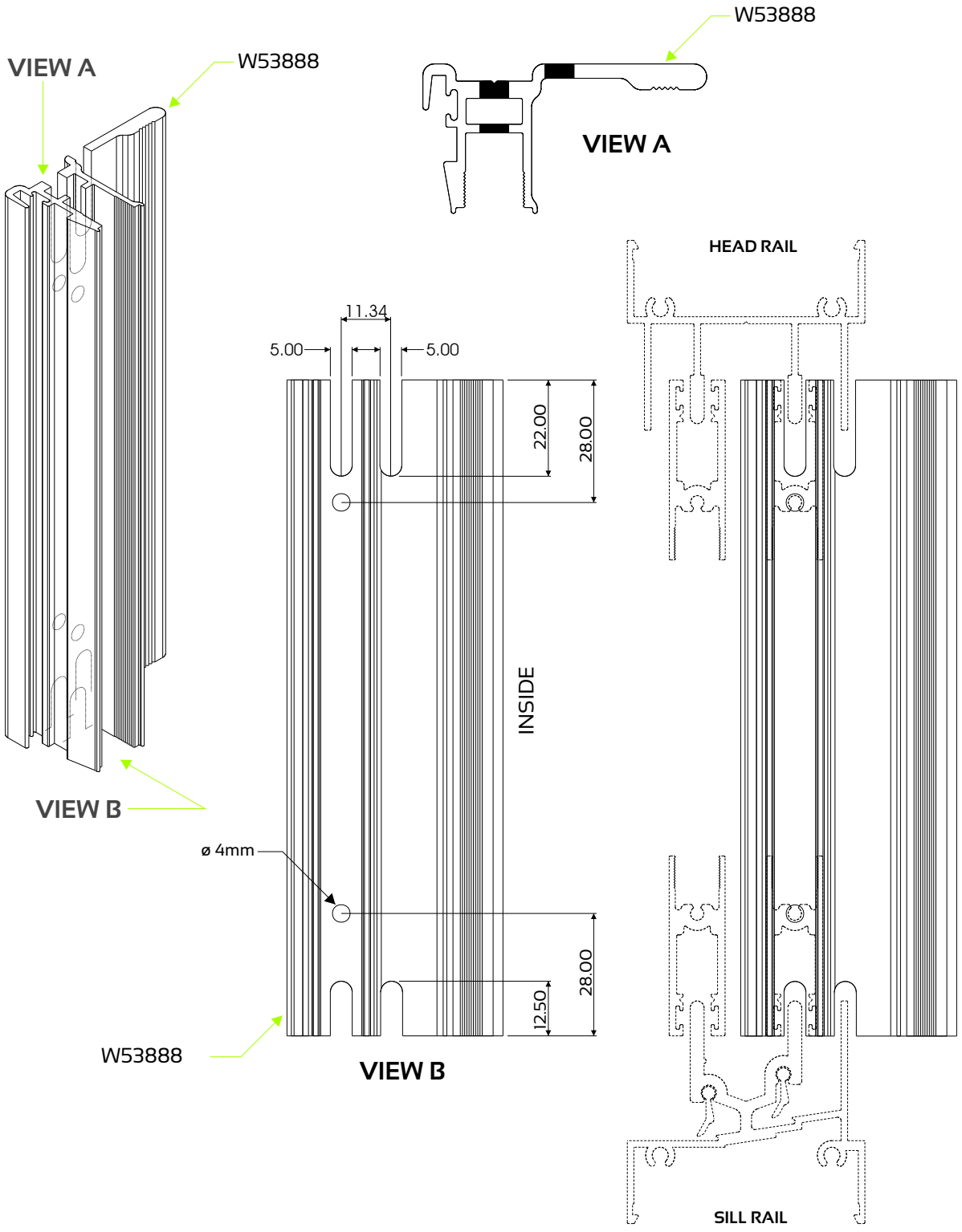
Machining Detail

Inner Sash Interlocker



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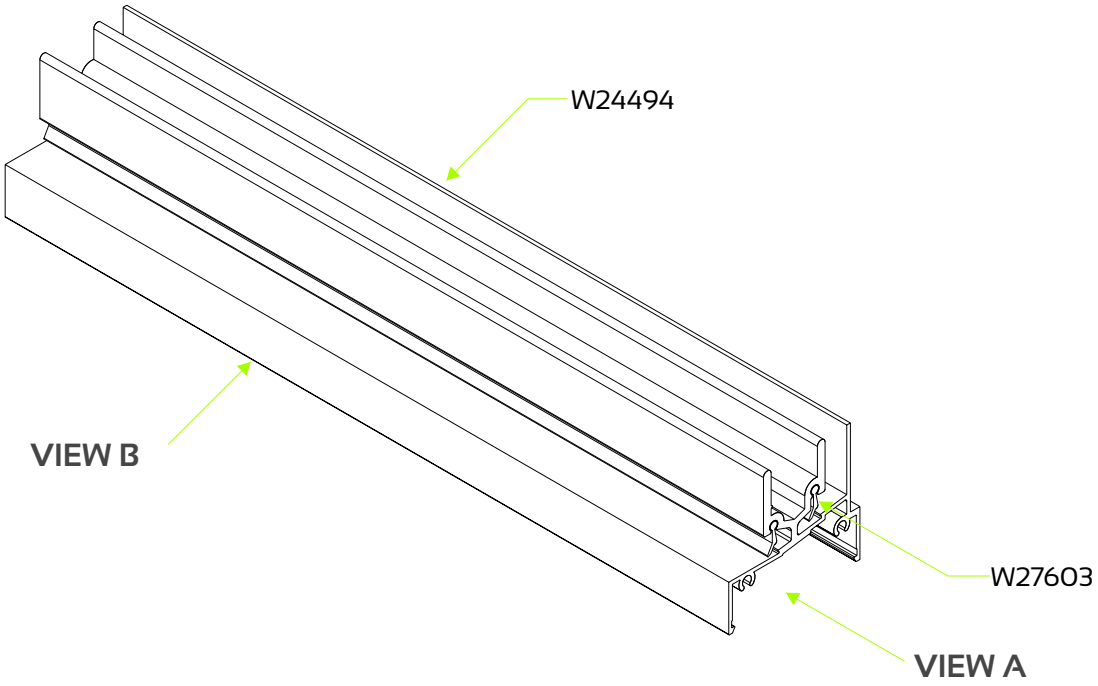
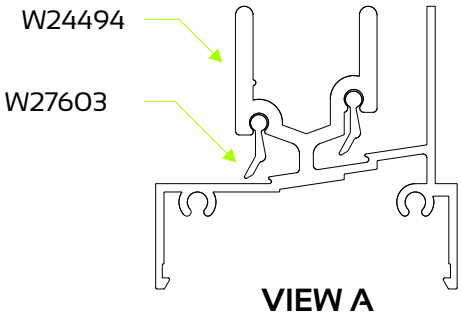
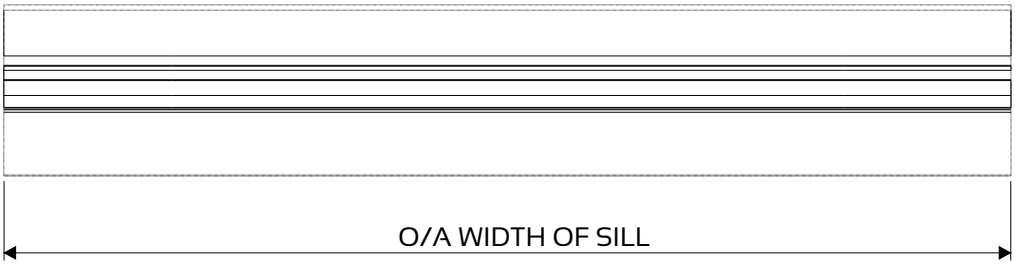
Machining Detail

Sill Baffle Plate





VIEW A



VIEW B

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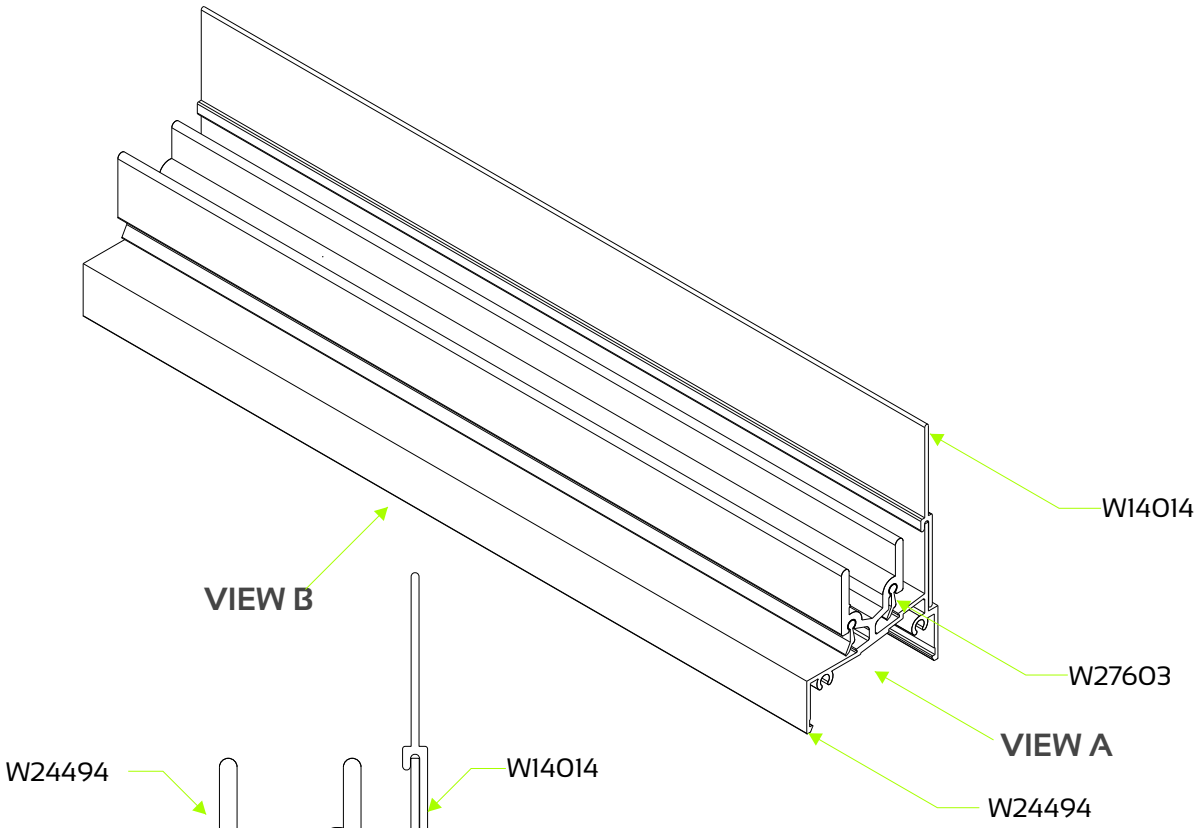
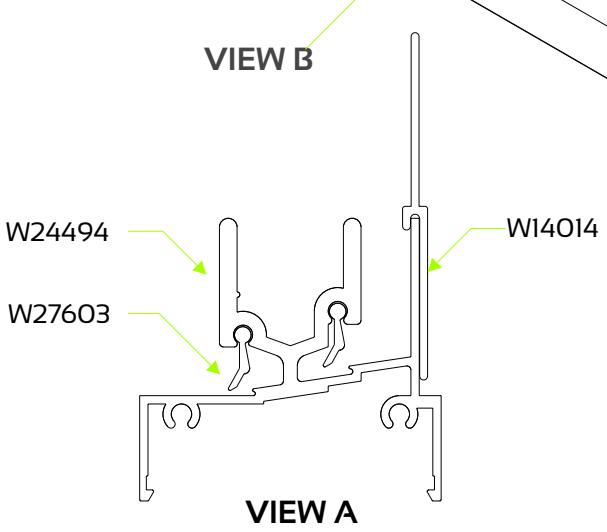
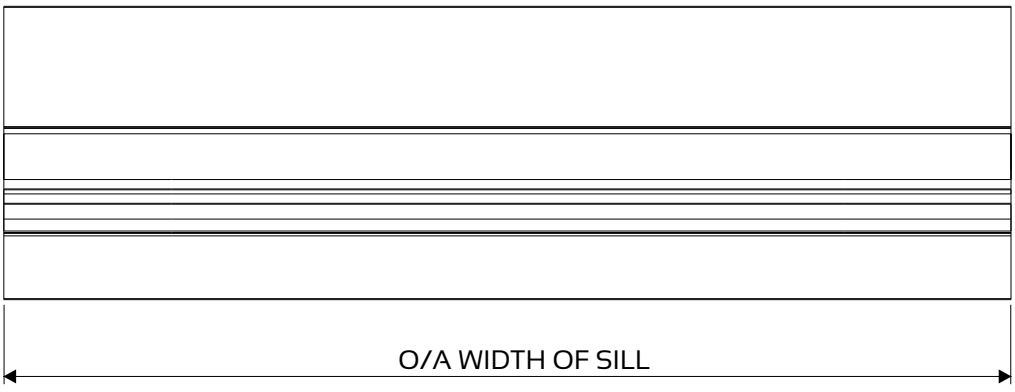
Machining Detail

High Rise Sill Adaptor Used To Get AAAMSA Test A3





VIEW A



VIEW B

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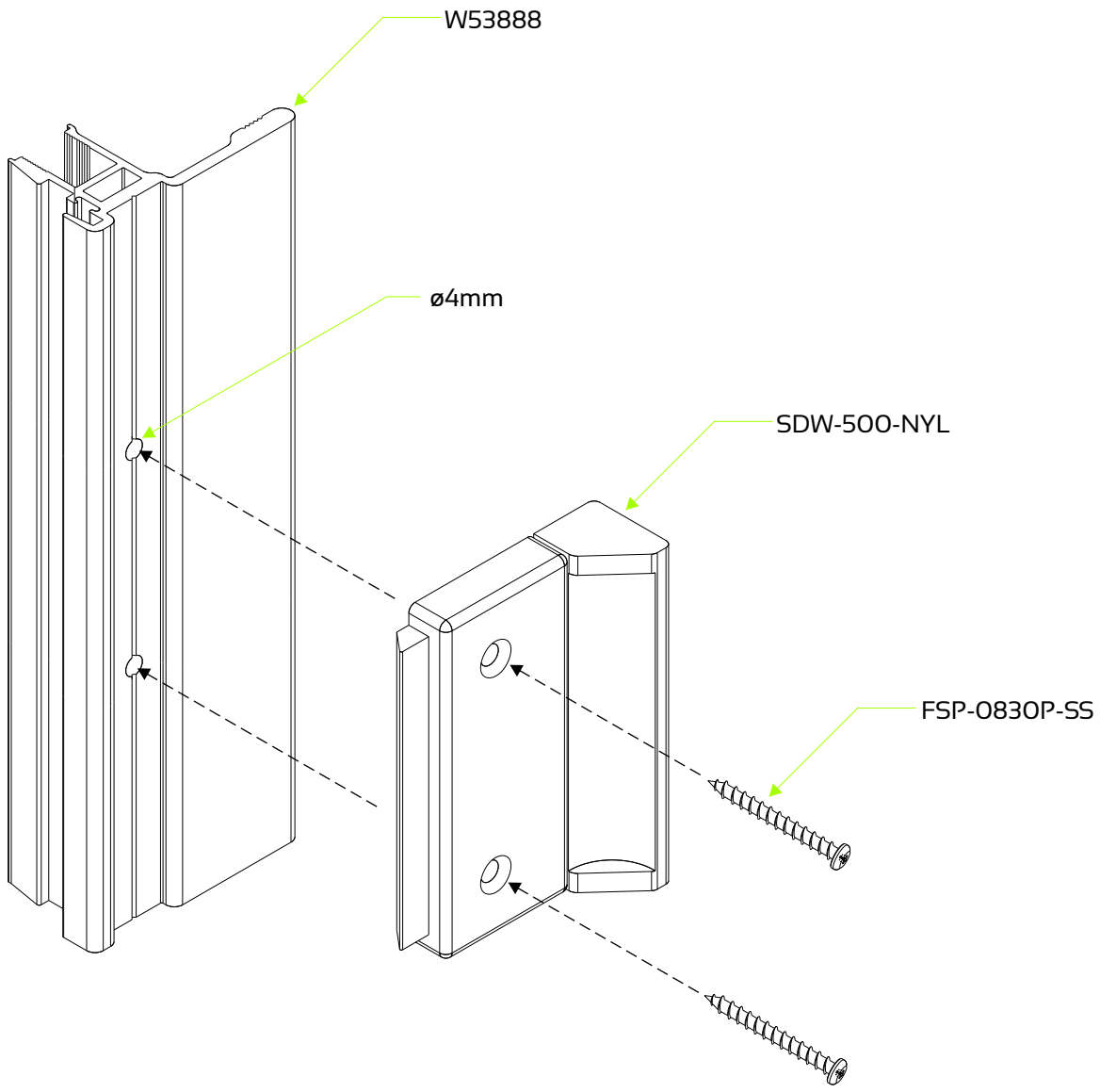
Assembly Detail

Handle

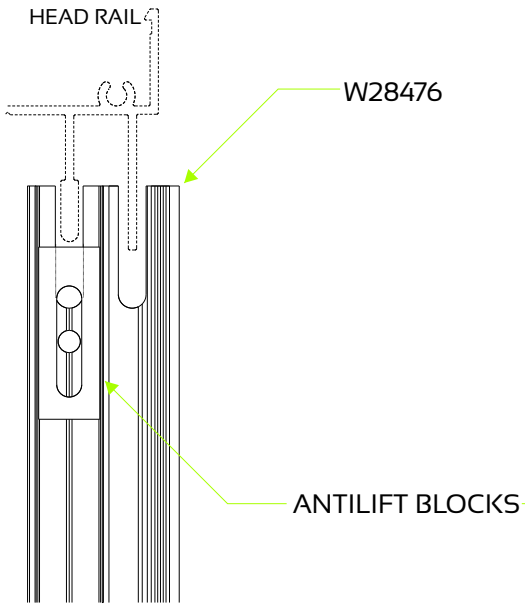


NOTE:
HANDLE SET TO BE FITTED TO CENTRE OF
INNER SASH INTERLOCKER SECTION

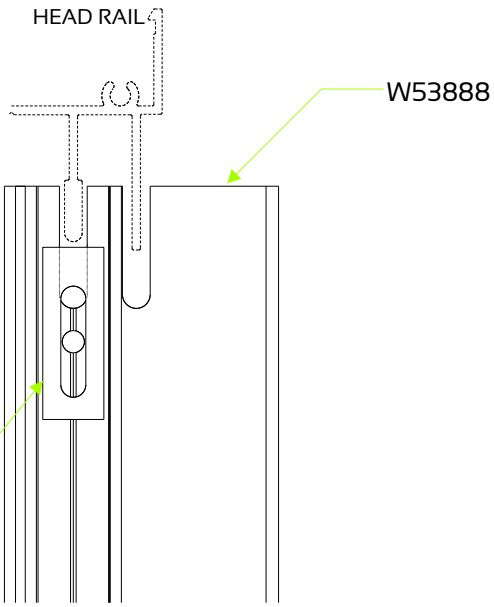
Assembly Detail

Anti Lift Block

NOTE:
ANTI LIFT BLOCKS TO BE FITTED TO
TOP OF SASH OUTER JAMB



NOTE:
ANTI LIFT BLOCKS TO BE FITTED TO
TOP OF SASH INTERLOCKER



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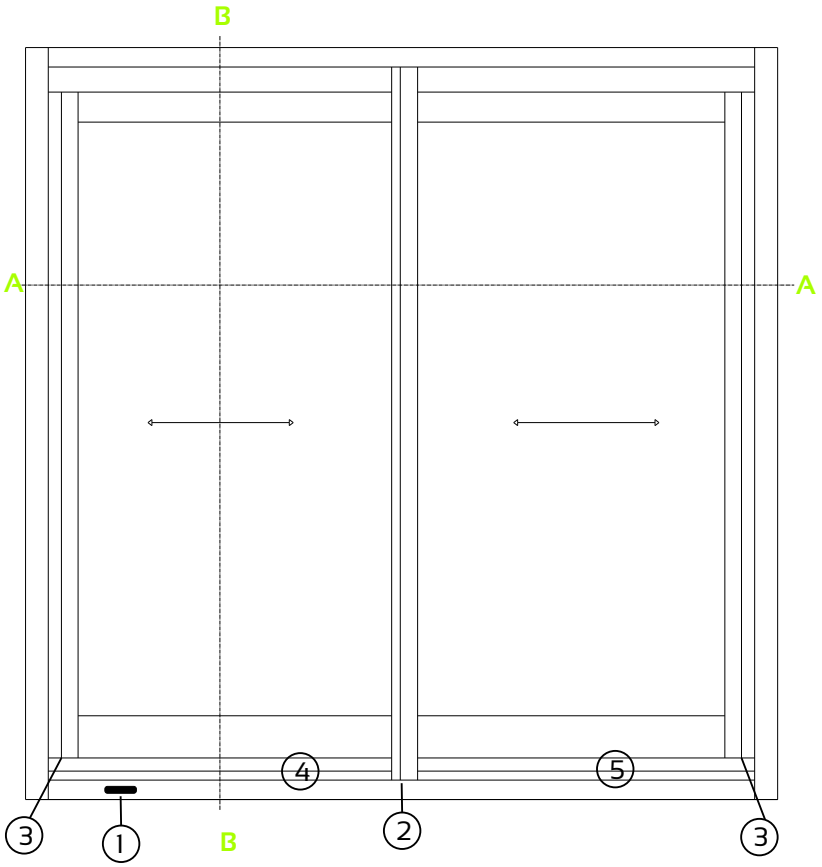
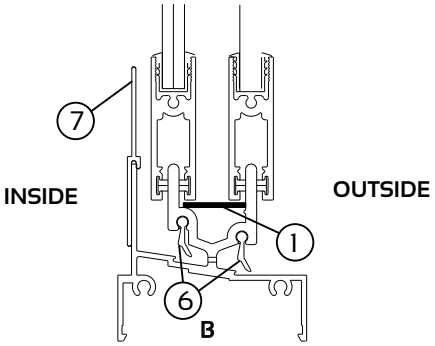
TO PASS A3 WATER AND WIND TEST THE FOLLOWING MODIFICATIONS MUST BE IMPLEMENTED.





NOTES:

1. Screen off left side drain with aluminium flat.

2. Add woolpile to centre block on sill section.

3. Modified end blocks and add woolpile.

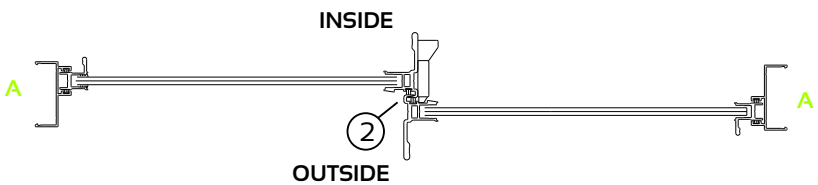
4. Shortened sliding rail slots to 6mm on bottom of both openers (+- 40mm)

5. Close room-side right slide drain on sliding rail

6. Shorten drainage flaps by 0.5mm either side so they can move freely.

7. Add section W14014 to standard Sill.

Horizontal Section



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GLAZING

1. SELECTION OF GLAZING METHODS

1.1 SETTING AND LOCATION BLOCKS

Glass-to-metal contact must be avoided at all times by using setting and location blocks having a hardness of 50° to 90° shore A durometer. Use only blocks made of Neoprene, EPDM, Silicone or other elastomeric material.

Setting blocks are to have a minimum thickness of 3mm and must be at least 27mm in length per square metre of glass area.

The position of the setting and location blocks is illustrated in Figure 2.

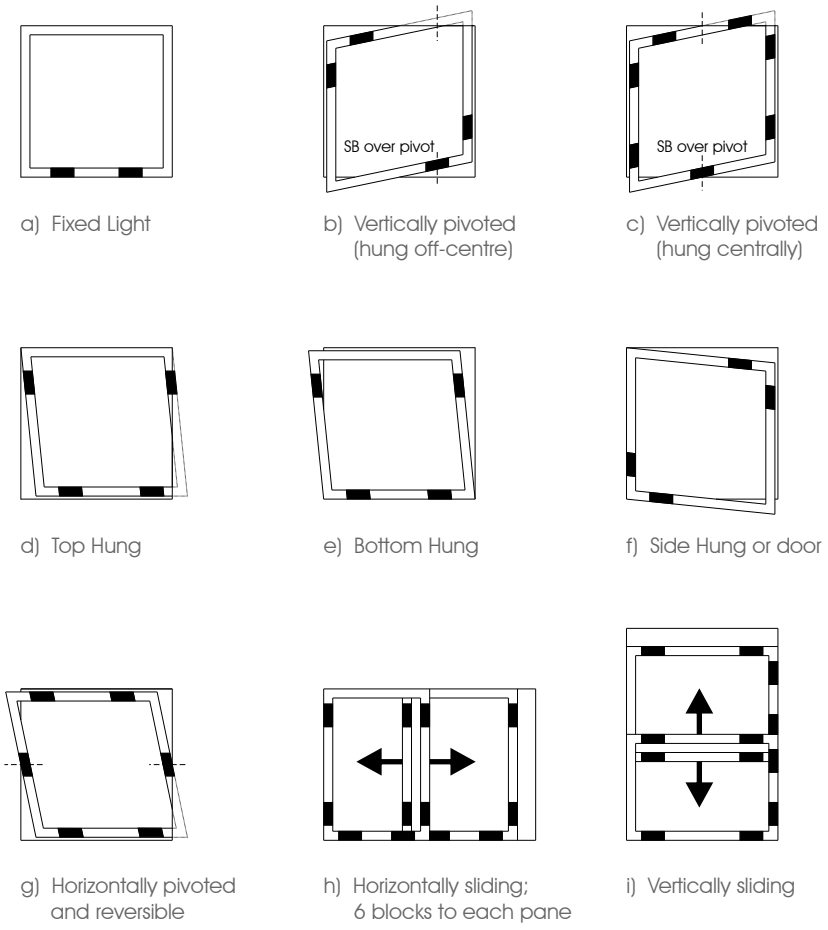

FIGURE 2 - POSITION OF SETTING AND LOCATION BLOCKS