

PALACE™
HIGH PERFORMANCE SLIDING DOOR

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 adversely 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.

This manual must be read in conjunction with the Installation, Cleaning & Maintenance Document and the Performance Certificates for the relevant system. The manual must also be used in conjunction with the design and cutting list from the latest version of StarFront.

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General System

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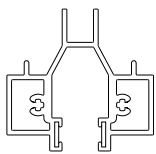
This manual must be read in conjunction with the Installation, Cleaning & Maintenance Document and the Performance Certificates for the relevant system. The manual must also be used in conjunction with the design and cutting list from the latest version of StarFront.

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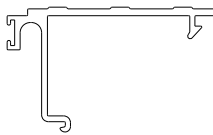
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Profile Identification

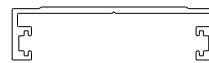
Palace Multi Profiles



DIE No. W55424 Sill Extension



DIE No. W31538 Sill Cover



DIE No. W31590 Jamb Adaptor



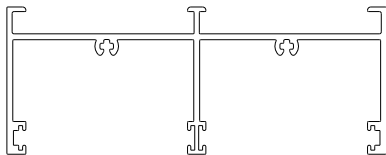
DIE No. W26282 Floor Track



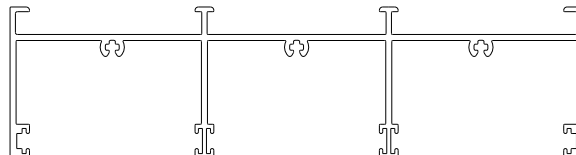
DIE No. W31594 Extended Track



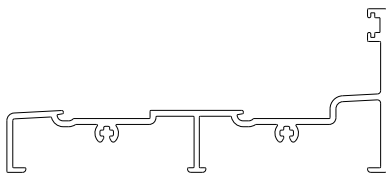
DIE No. W31534 Double Head Cover



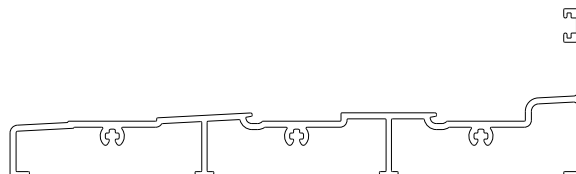
DIE No. W31533 Double Head Rail



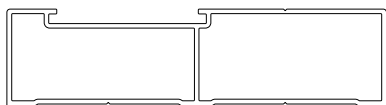
DIE No. W31537 Triple Head Rail



DIE No. W31539 Double Sill



DIE No. W31535 Triple Sill Rail



DIE No. W55433 Double Box Jamb

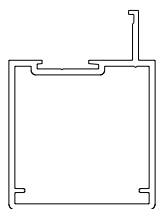


DIE No. W55434 Triple Box Jamb

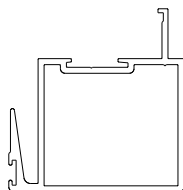
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Profile Identification

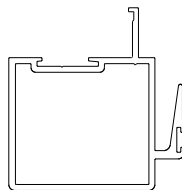
Palace Multi Profiles



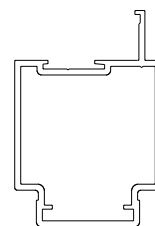
DIE No. W44085 R1 Door Jamb



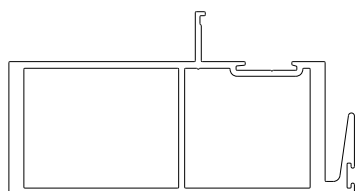
DIE No. W53098 Fixed Interlocker



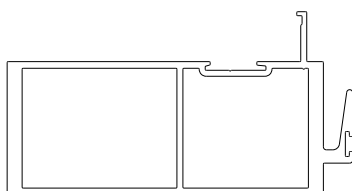
DIE No. W53101 Sliding Interlocker



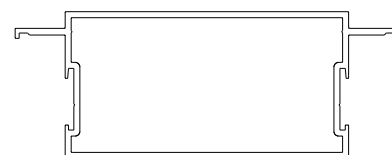
DIE No. W53100 Meeting Stile



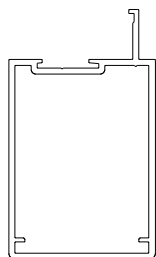
DIE No. W55371 Heavy Duty Fixed Interlocker



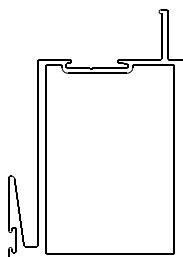
DIE No. W55370 Heavy Duty Sliding Interlocker



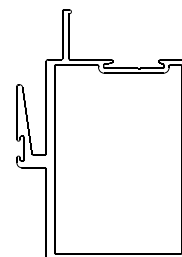
DIE No. W44089 R4 Special Midrail 85mm



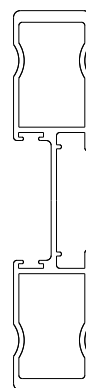
DIE No. W53099 R11 Door Stile 60mm



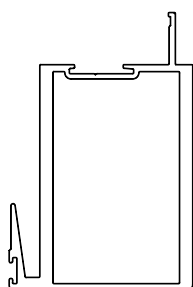
DIE No. W57971 Palace Interlock Fixed 60mm



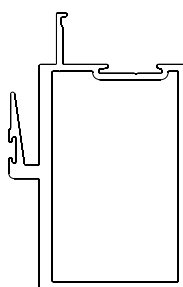
DIE No. W57972 Palace Interlock Slide 60mm



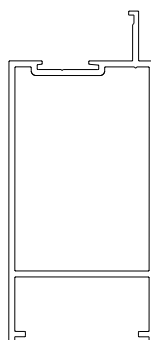
DIE No. W53223 Heavy Duty Astragal



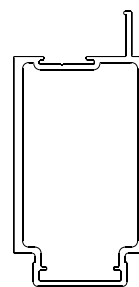
DIE No. W56206 Interlock Fixed 65mm



DIE No. W56205 Interlock Slide 65mm



DIE No. W44088 R4 Head/Sill Rail 85mm

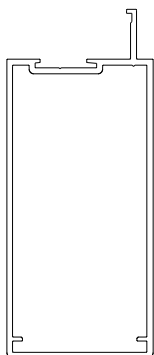


DIE No. W44088 Meeting Stile 65mm

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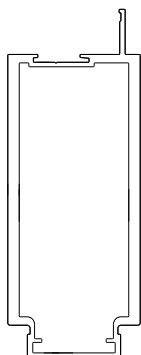
Profile Identification

Palace Multi Profiles



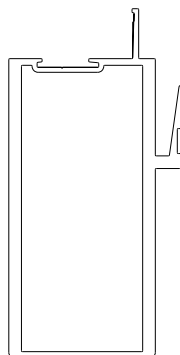
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**R9 Door Stile
90mm**



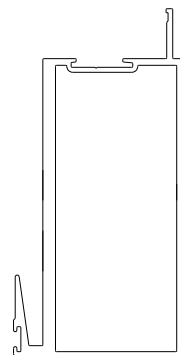
DIE No. W54966

**Meeting Stile
90mm**



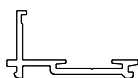
DIE No. W54964

**90mm Interlocker
OS**



DIE No. W54965

**90mm Interlocker
FS**



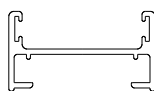
DIE No. W26151

**R4 Filler
Adaptor**



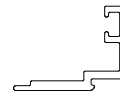
DIE No. W33921

Clip44 Spigot



DIE No. W26399

Astragal



DIE No. W27882

**Double
Glazing Bead**



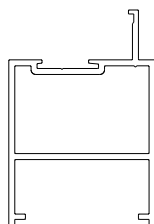
DIE No. W14108

**Angled Glazing
Bead**



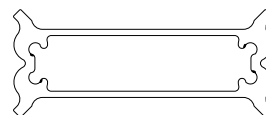
DIE No. W31142

**Bead Multi
13mm Gap**



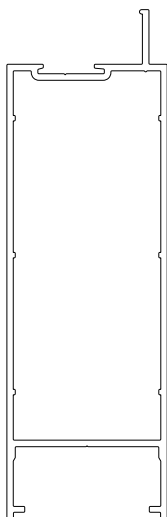
DIE No. W44087

**R7 Head/Sill Rail
50mm**



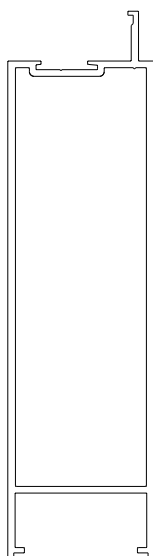
DIE No. W55456A

**Spigot Box
Support**



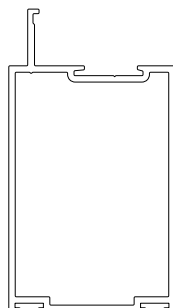
DIE No. W55914B

**R5 Head/Sill Rail
125mm**



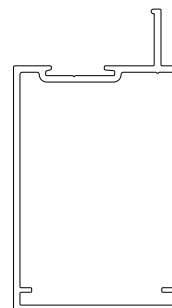
DIE No. W44094

**R6 Sill Rail
150mm**



DIE No. W55858

**Clip44 Door
Stile 65mm W**



DIE No. W55859

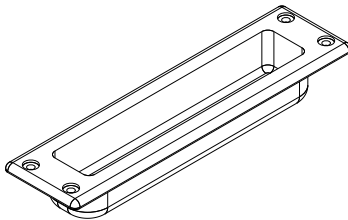
**Clip44 Door
Stile 65mm**

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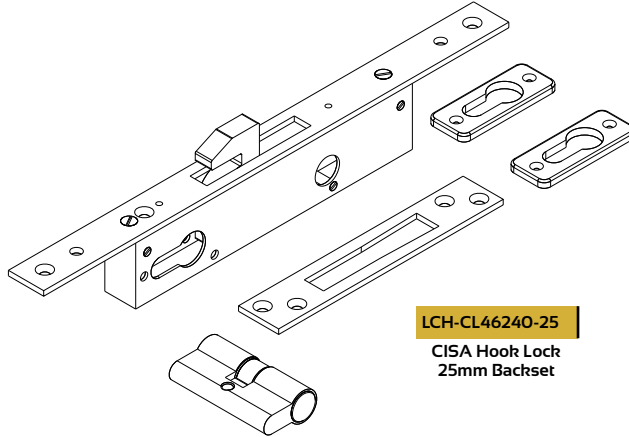
Hardware Components

RECOMMENDED PALACE MULTI COMPONENTS

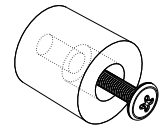
All hardware is available through our Stockists as well as through Crealco Components, and can be viewed on www.crealco-components.com



HFP-PVC-BLK
Flush Pull Handle
PVC



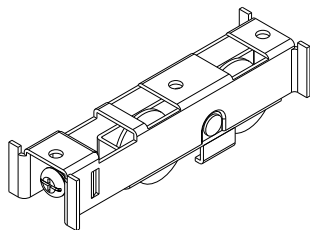
LCH-CL46240-25
CISA Hook Lock
25mm Backset



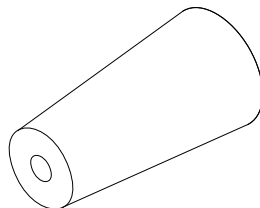
SGD-VST
FSP-0830P-SS
Stopper with Screw



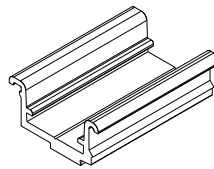
FSN-WHG8
FSN-NTG8
FSN-TRG8



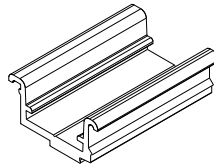
RSW-SFTB
Palace 2000
Roller



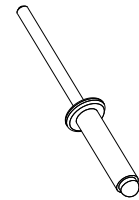
SGD-PDC
Patio Door Centre
Stopper 95mm



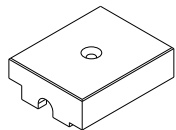
LGS-FS-119.9
LGS-FS-72.7
LGS-FS-55.3
LGS-FS-20.5
LGS-FS-17.7
Clip44 Frame Spigot



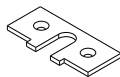
LGS-DS-122.9
LGS-DS-98.3
LGS-DS-58.3
LGS-DS-23.5
Clip44 Door Spigot



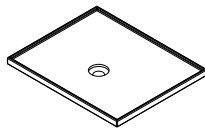
FRC-4810
4.8x10 Dome
Head Rivet



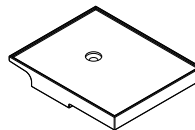
SGD-PMSB
Palace Multi
Sash Block



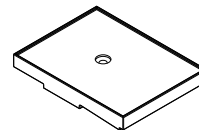
PEC-PMS
Palace Multi
Sash End



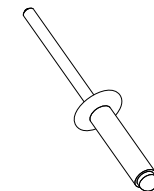
PEX-PDEM
Draft Excluder



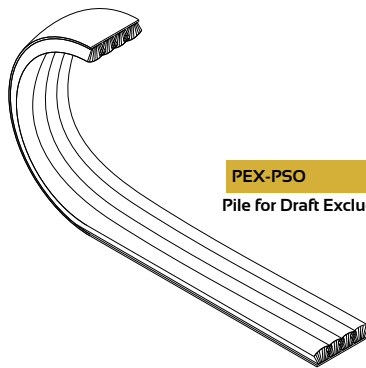
PEX-PDE
Draft Excluder



PEX-PDET
Draft Excluder



FRC-410
4x10 Countersunk
Rivet



PEX-PSO
Pile for Draft Excluder



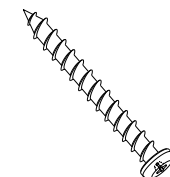
GFP-6750
Finpile



GWG-01G
GWG-02B
GWG-03R
GWG-04Y
GWG-05P
Wedge Gasket

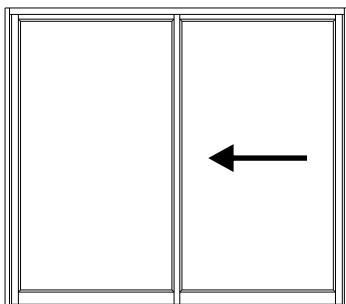


GBF-ORG
Butterfly Gasket

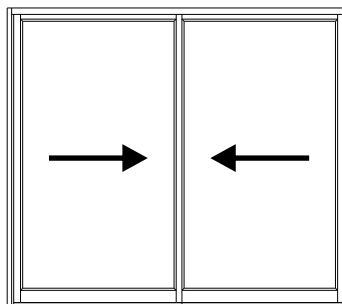


FSP-0830P-SS
8x30 P/Head POSI
S/S ST Screw

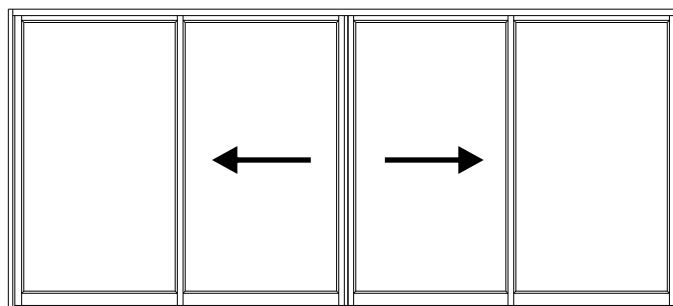
OX



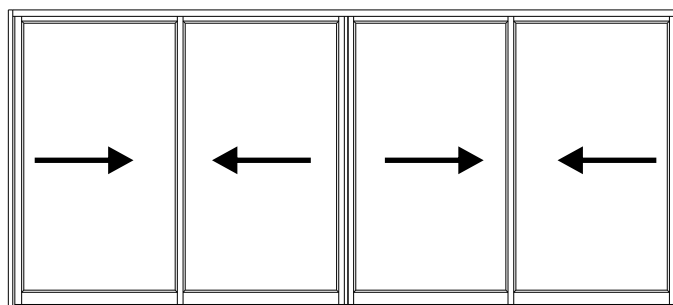
2 PANE MULTI SLIDER



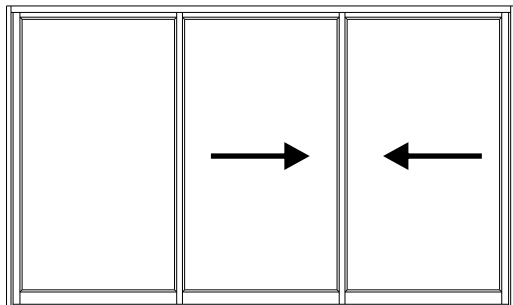
OXXO



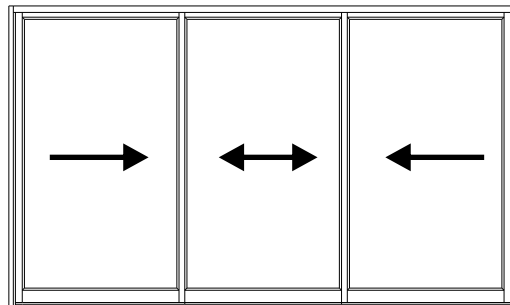
4 PANE MULTI SLIDER



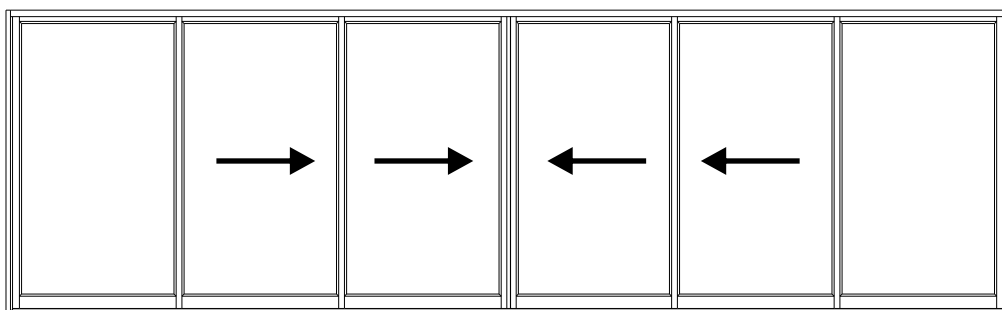
OXX



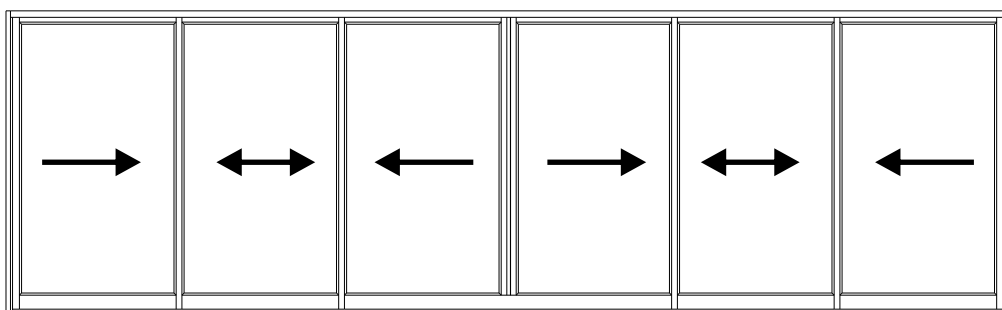
3 PANE MULTI SLIDER

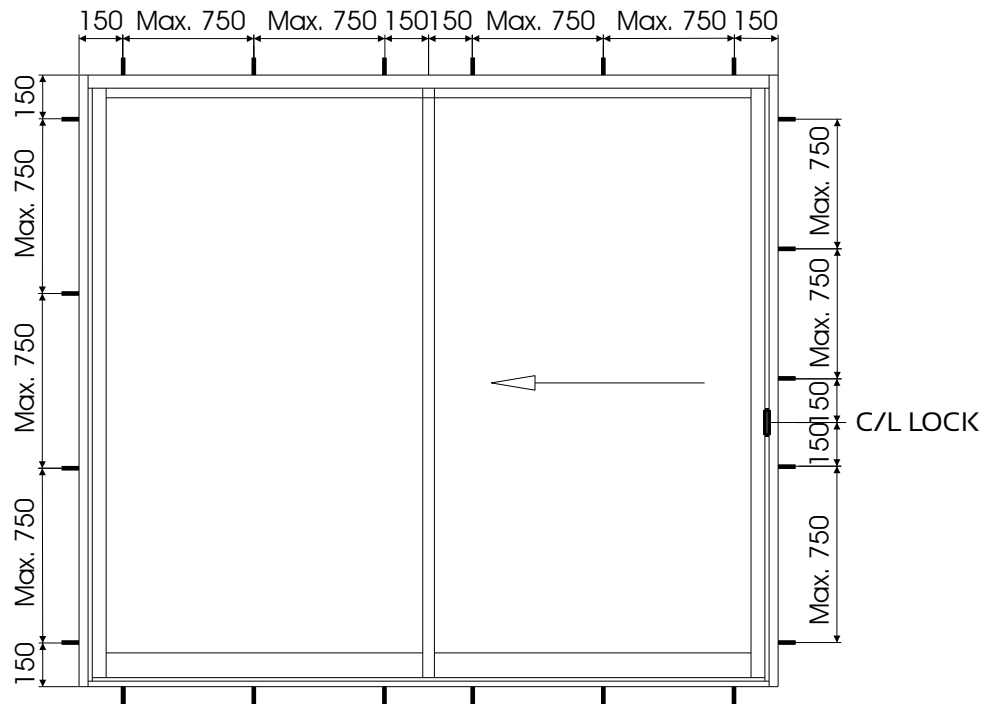


OXXXXO

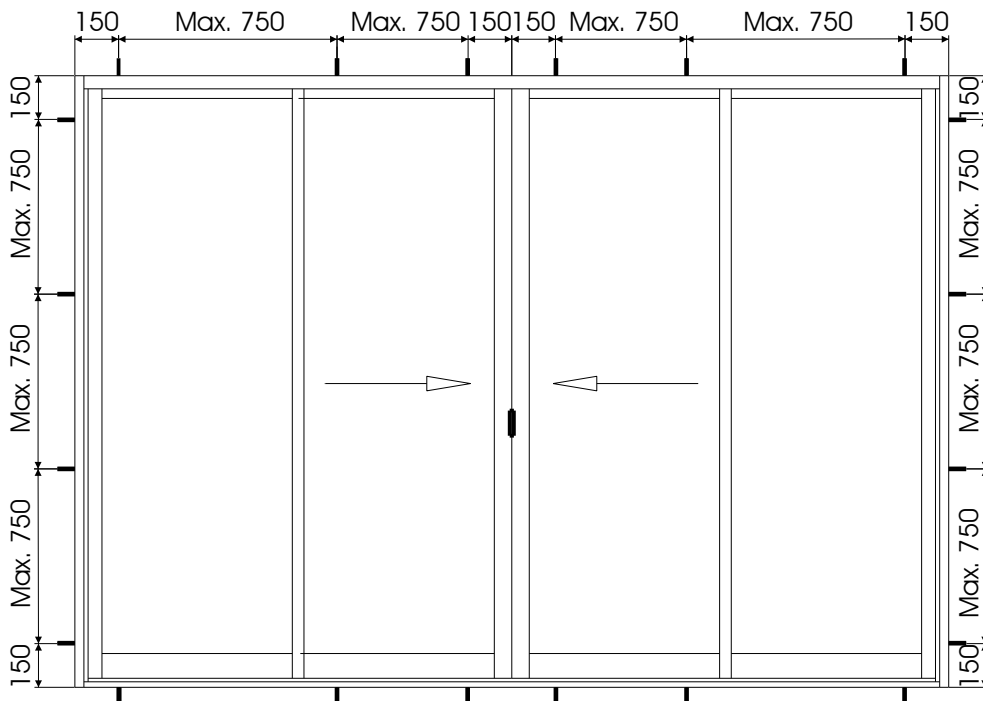


6 PANE MULTI SLIDER

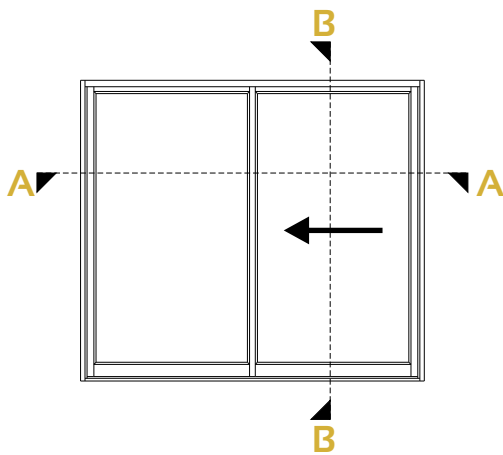




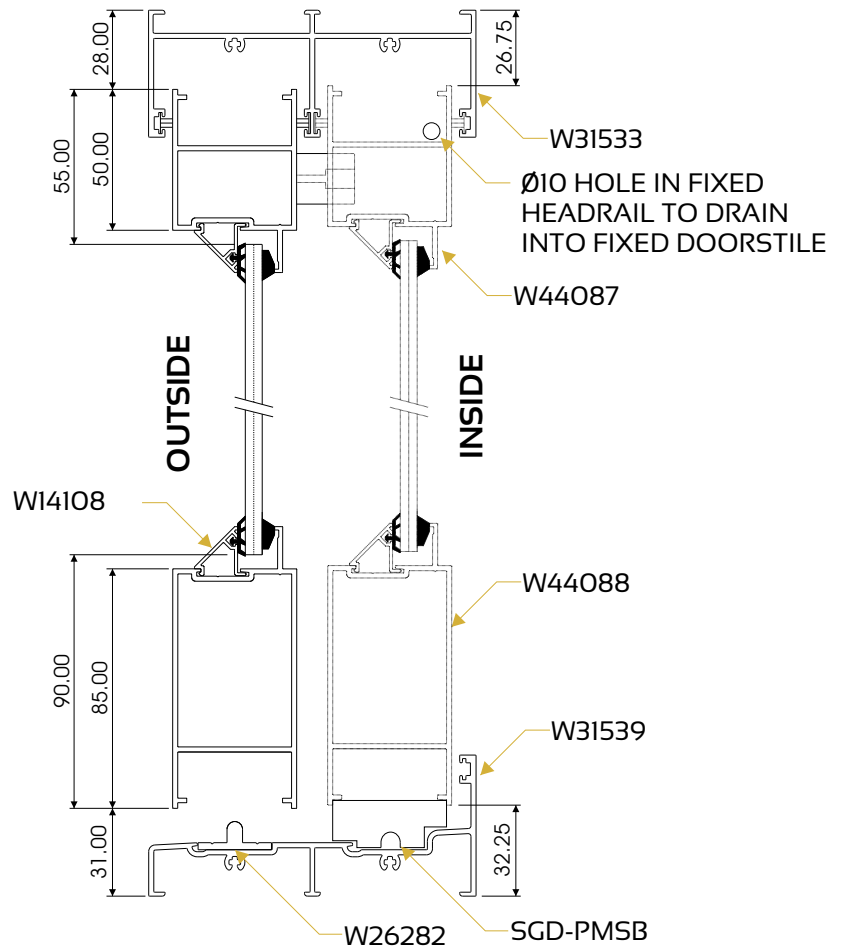
TYPICAL OX SLIDING DOOR &
HORIZONTAL SLIDING WINDOW



TYPICAL OXXO SLIDING DOOR &
HORIZONTAL SLIDING WINDOW

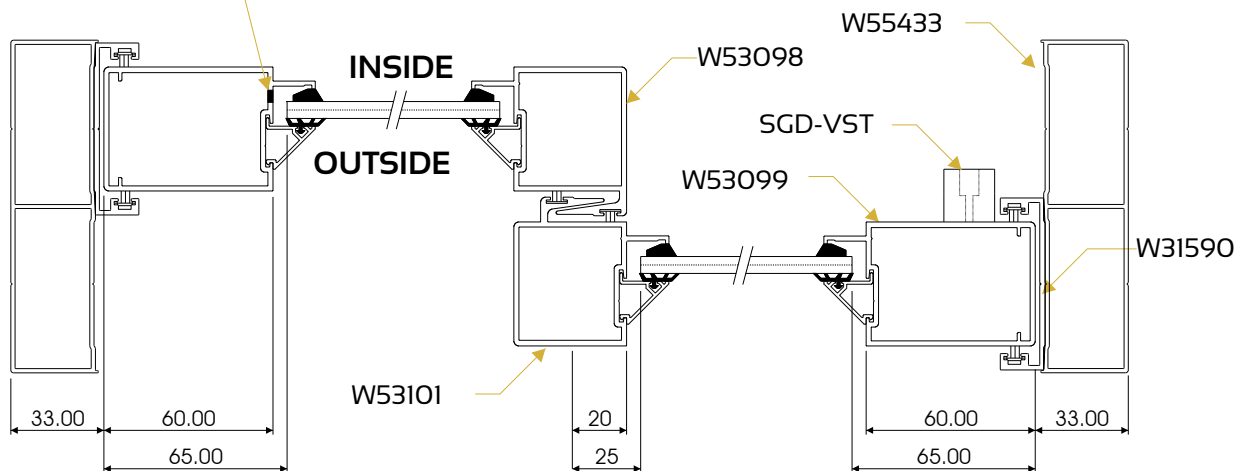


SECTION B-B
Section not to scale



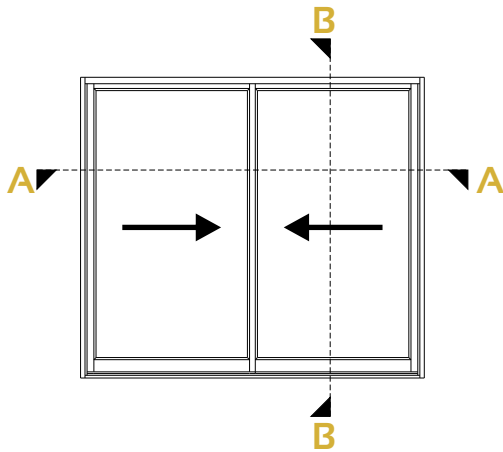
SECTION A - A
Section not to scale

Ø10 HOLE IN FIXED
HEADRAIL TO DRAIN
IN FIXED DOORSTILE

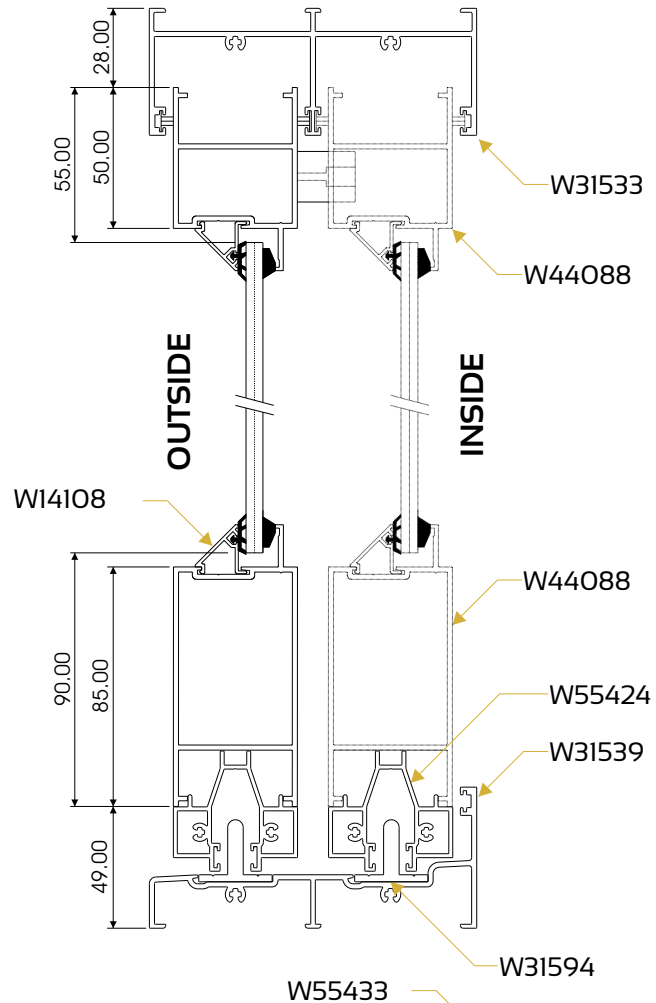


Typical Cross-Sectional Detail

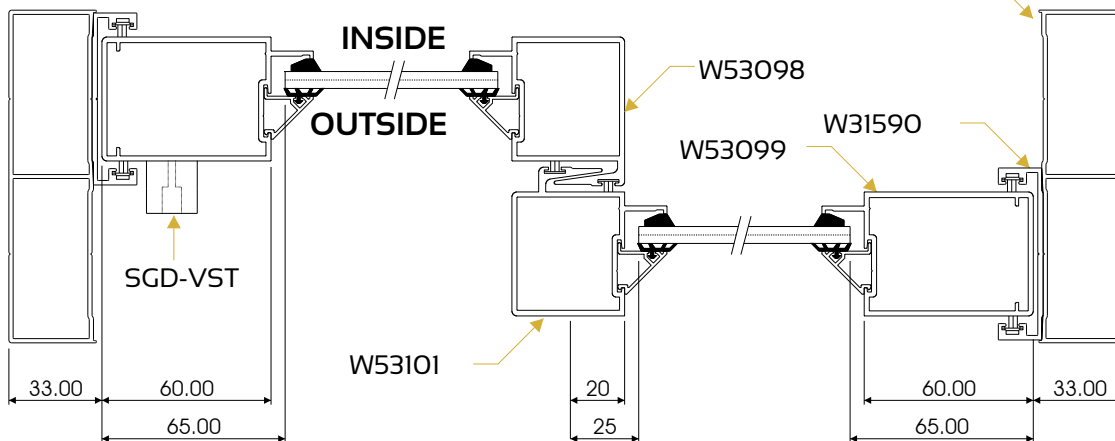
2 Panel Multi Slider Configuration

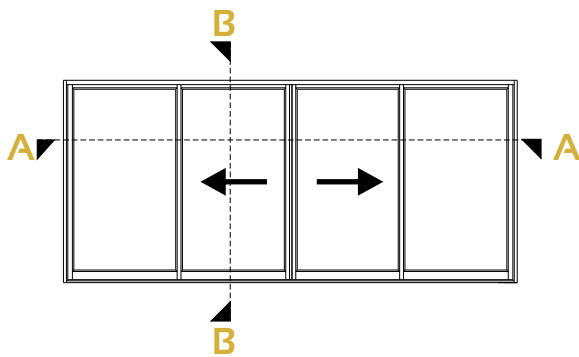


SECTION B-B
Section not to scale

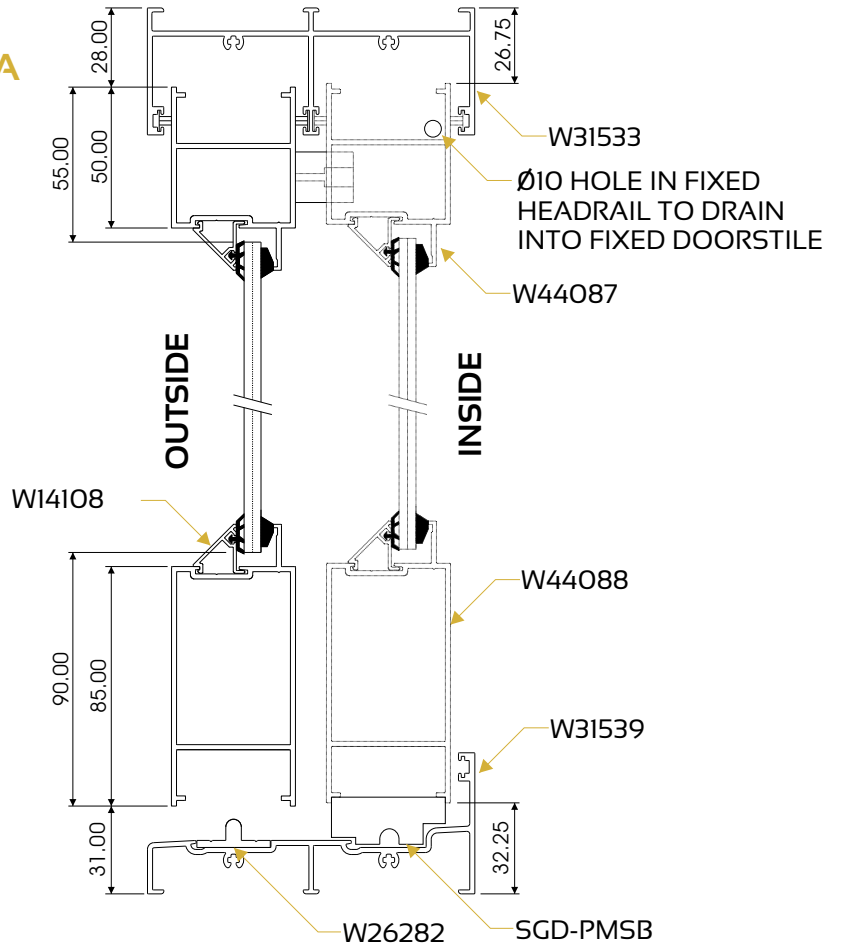


SECTION A - A
Section not to scale

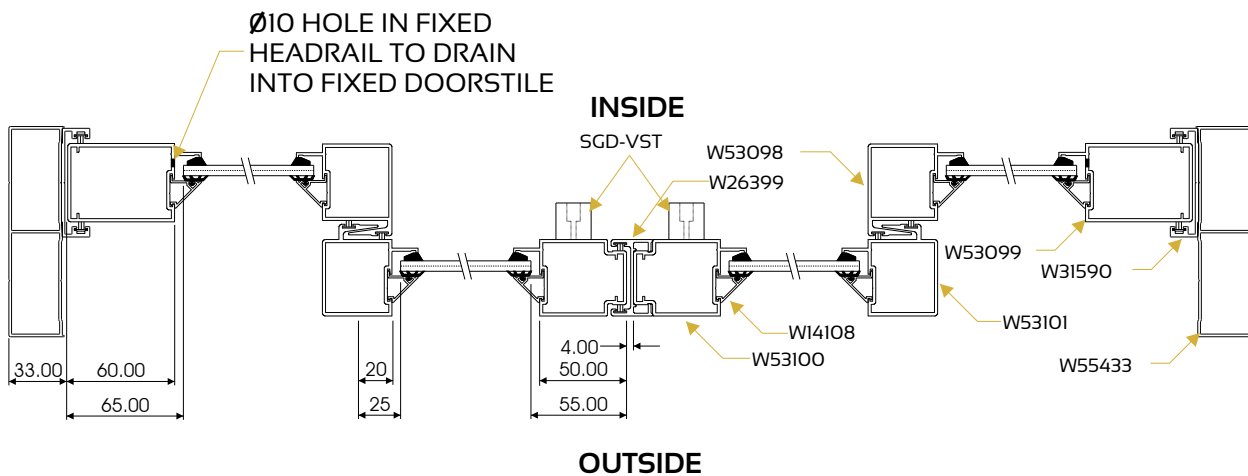




SECTION B-B
Section not to scale

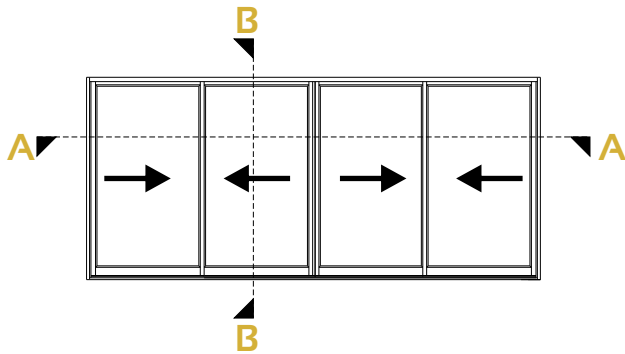


SECTION A - A
Section not to scale

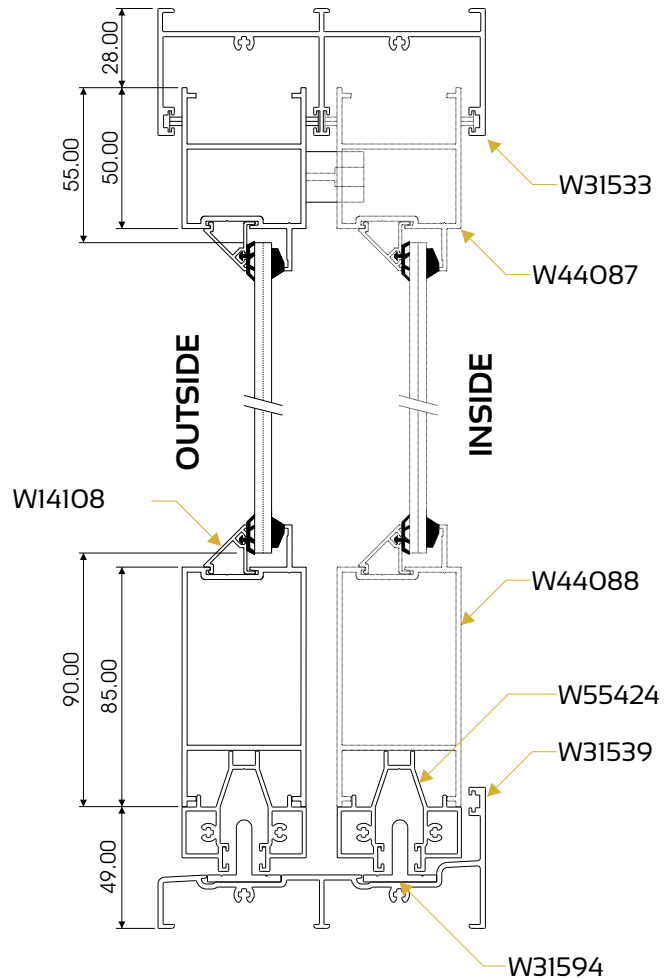


Typical Cross-Sectional Detail

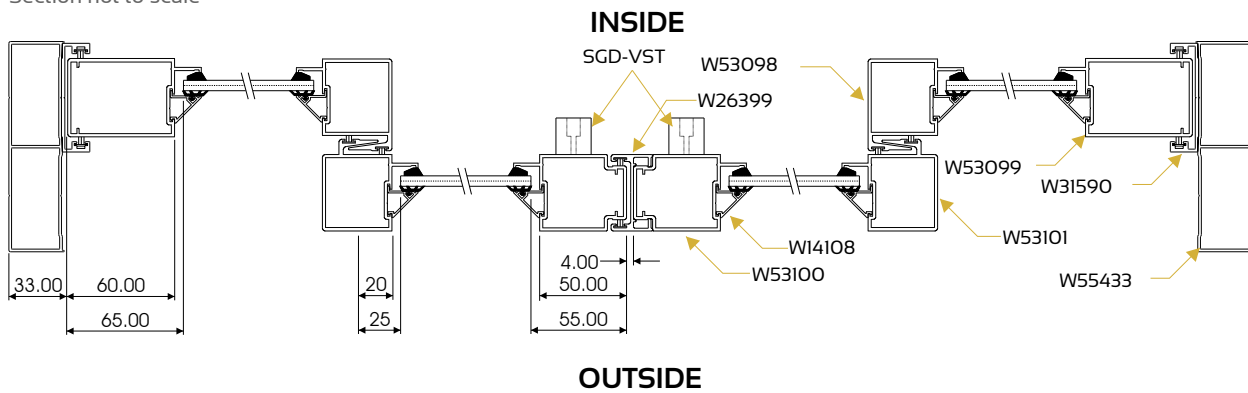
4 Panel Multi Slider Configuration

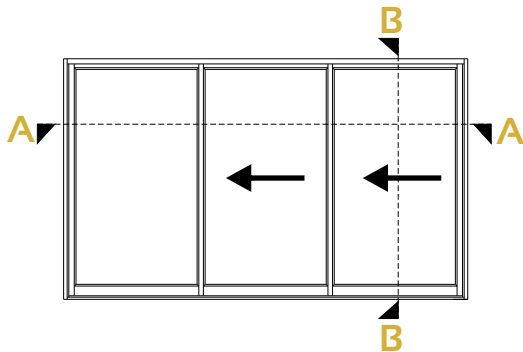


SECTION B-B
Section not to scale

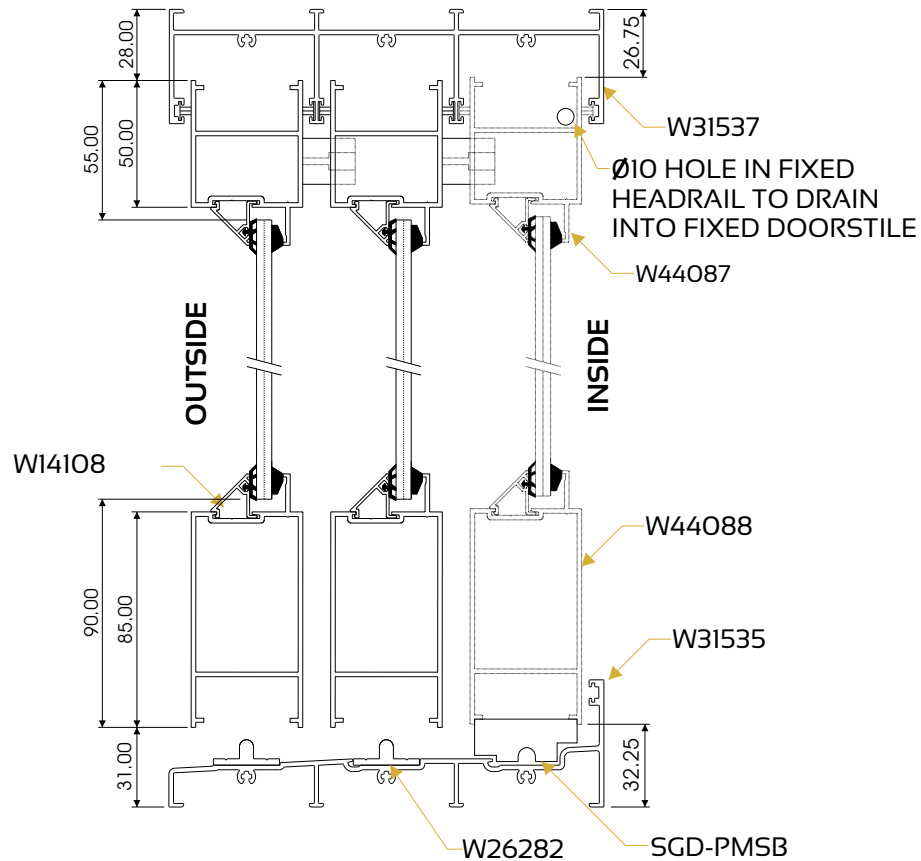


SECTION A - A
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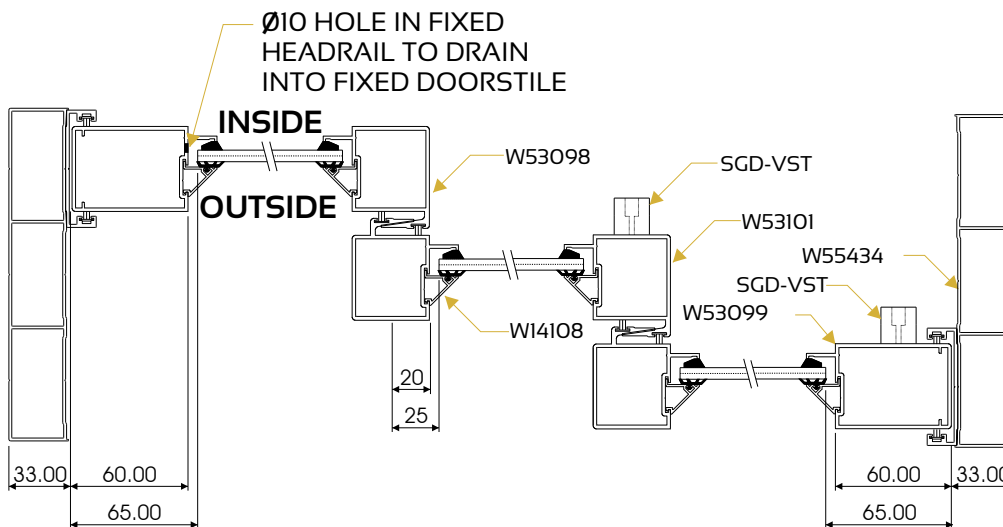




SECTION B-B
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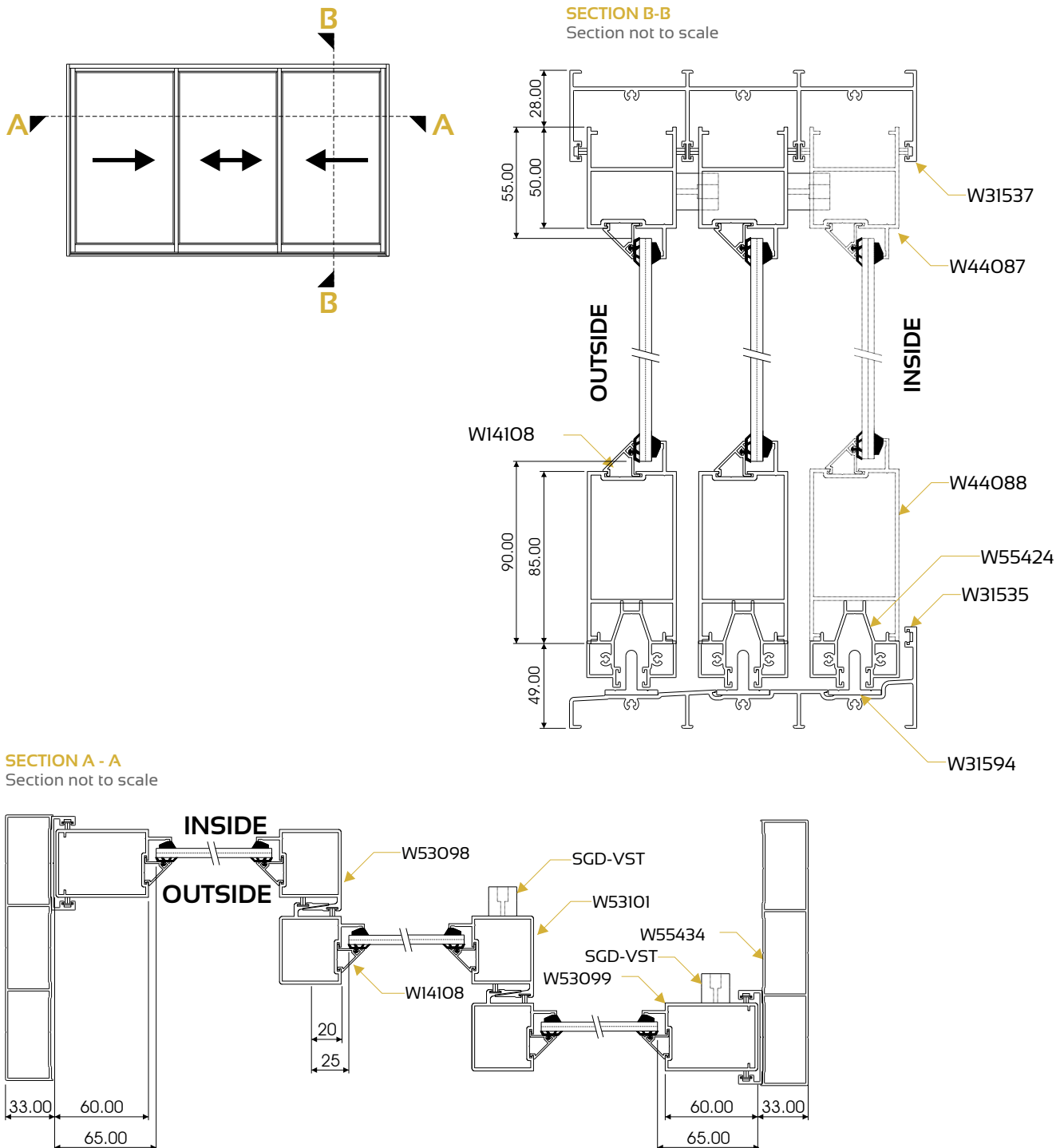


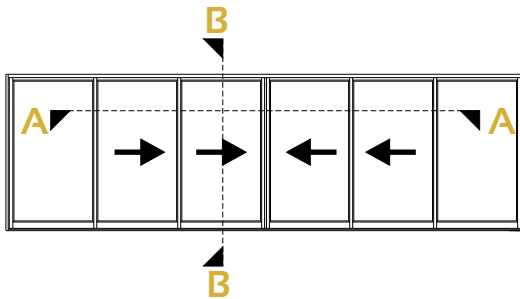
SECTION A - A
Section not to scale



Typical Cross-Sectional Detail

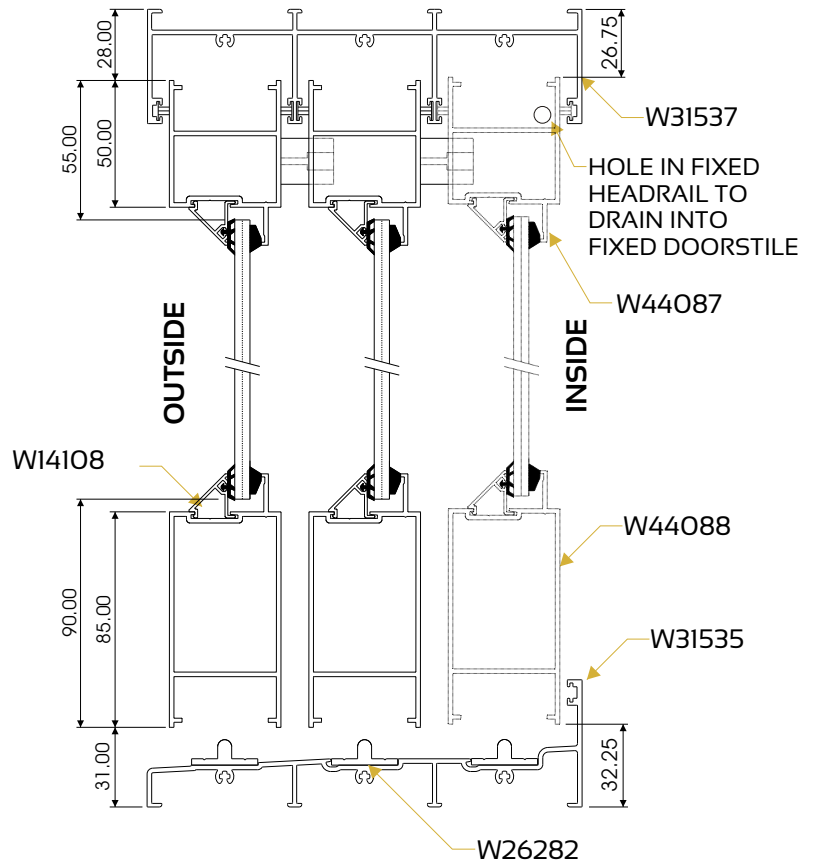
3 Panel Multi Slider Configuration





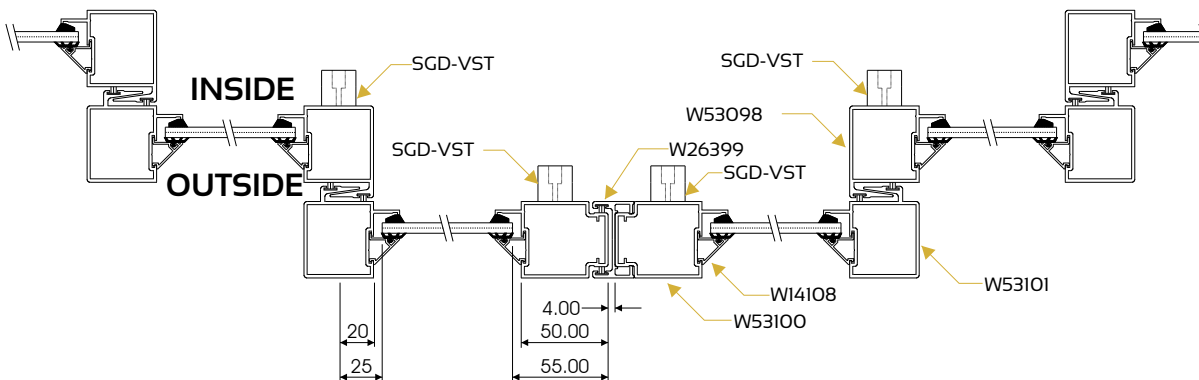
SECTION B-B

Section not to scale



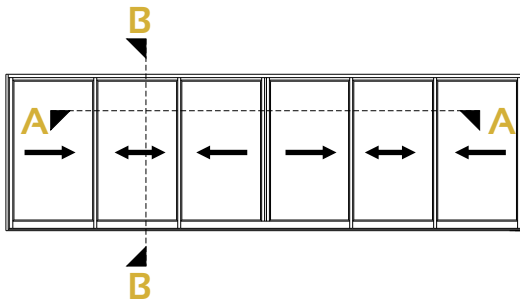
SECTION A - A

Section not to scale

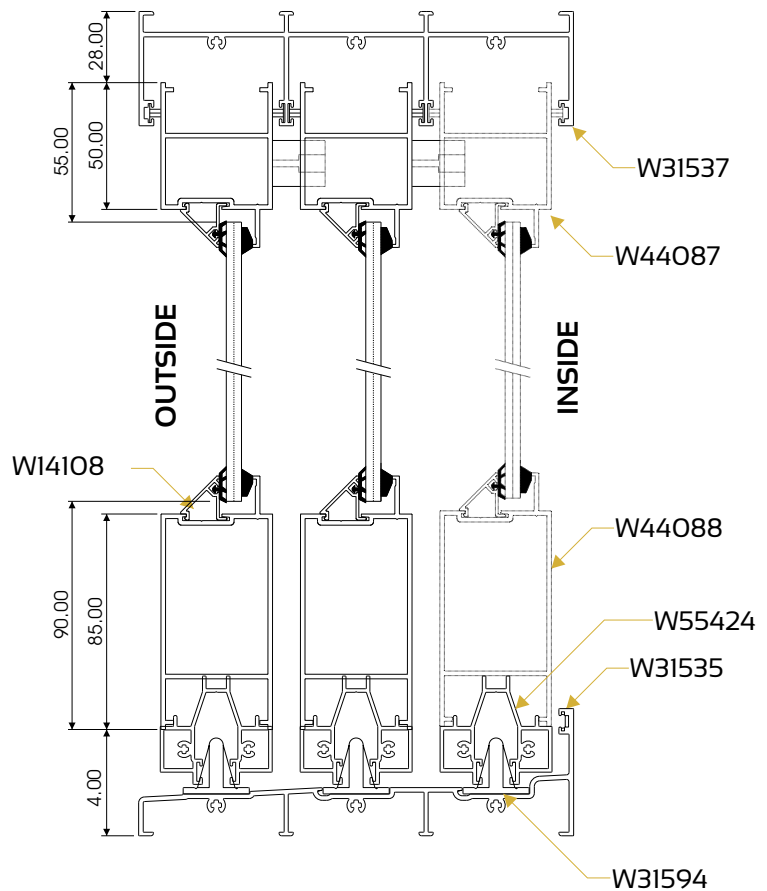


Typical Cross-Sectional Detail

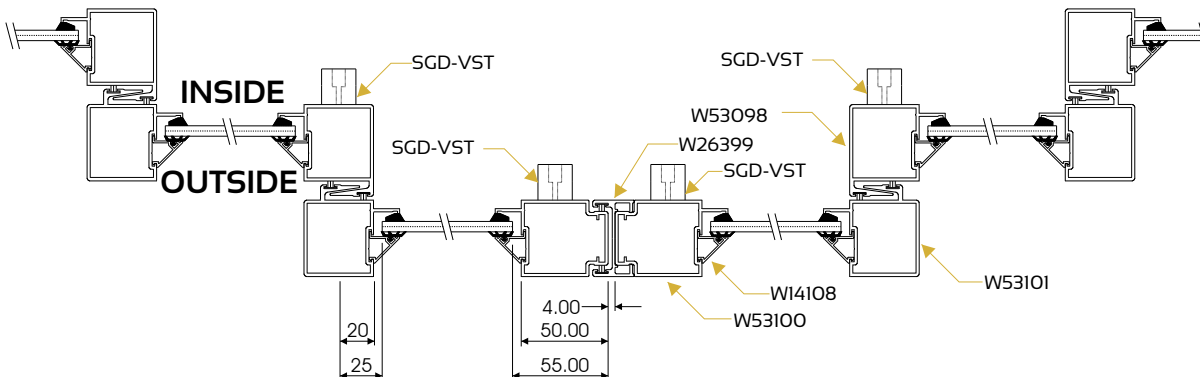
6 Panel Multi Slider Configuration



SECTION B-B
Section not to scale

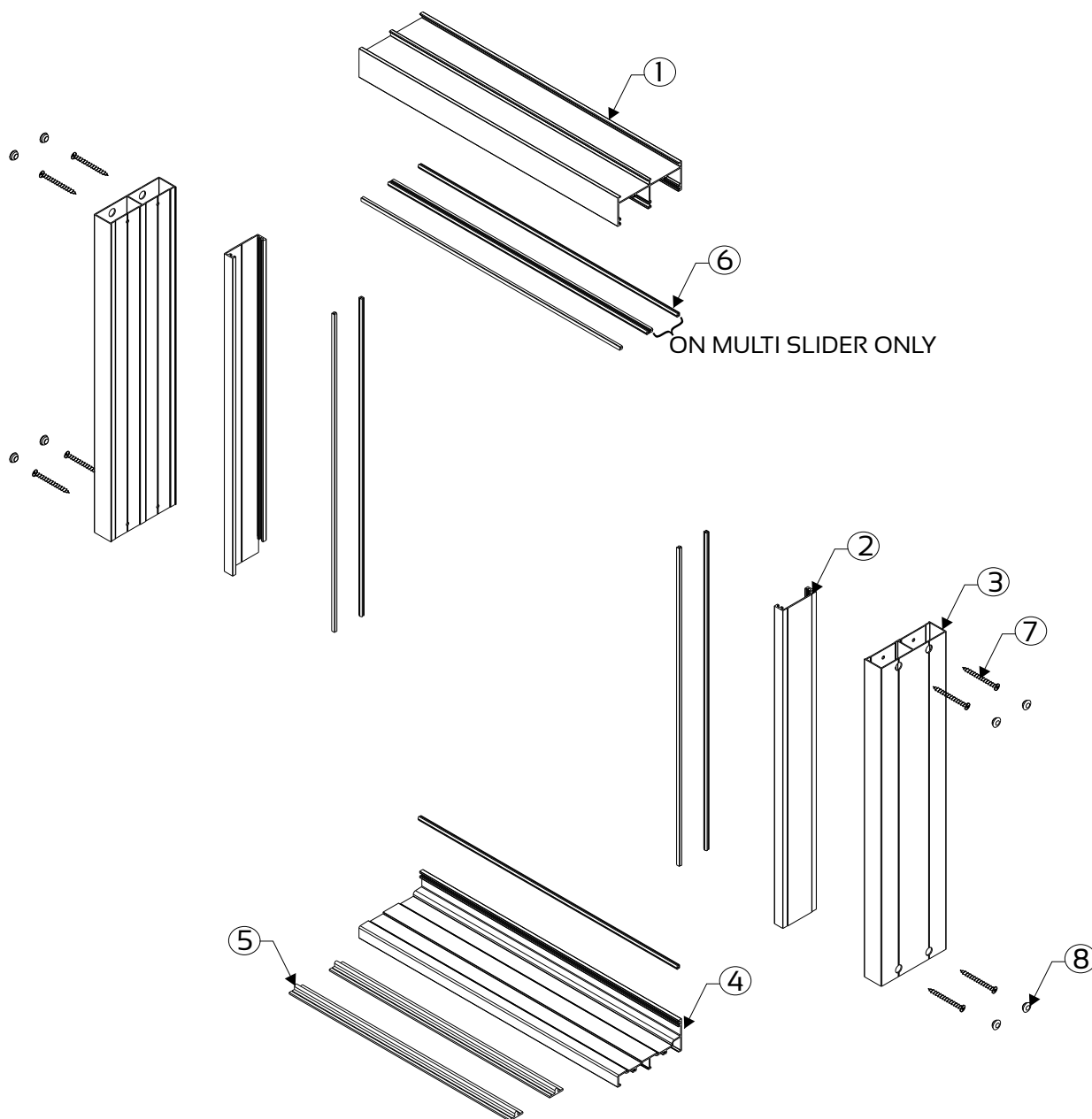


SECTION A - A
Section not to scale



Outer Frame Component Assembly Detail

Double Track



System Profiles

| ITEM | QTY | DIE No. | DESCRIPTION |
|------|-----|---------|------------------|
| 1 | 1 | W31533 | Double Head Rail |
| 2 | 2 | W31590 | Jamb Adaptor |
| 3 | 2 | W55433 | Double Box Jamb |
| 4 | 1 | W31539 | Double Sill |
| 5 | 2 | W26282 | Floor Track |

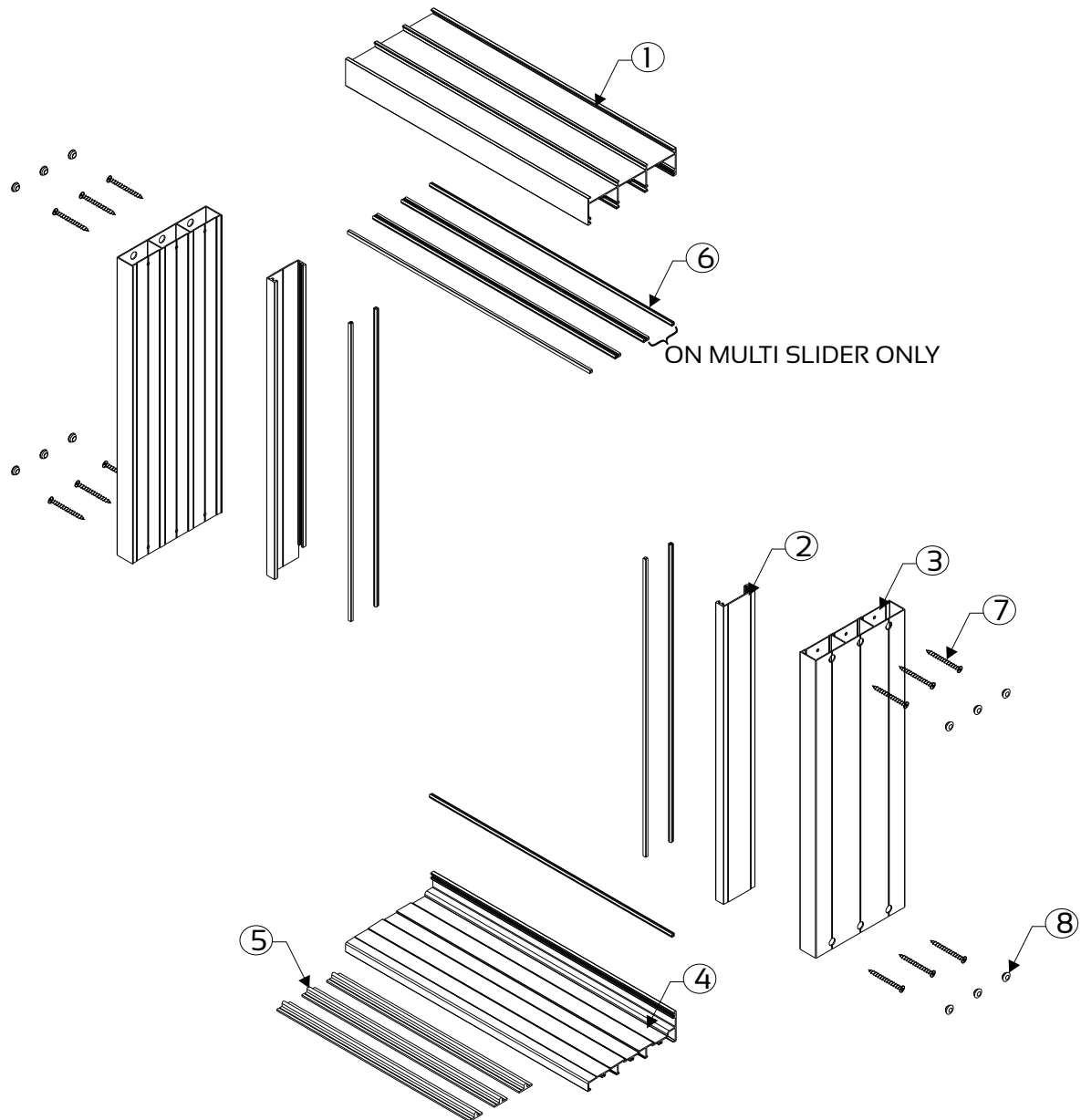
Hardware

| ITEM | QTY | COMPONENT DESCRIPTION |
|------|-----|-------------------------------|
| 6 | 8 | Finpile |
| 7 | 8 | 8x30 P/Head POSI S/S ST Screw |
| 8 | 8 | Grommets |

Outer Frame Component Assembly Detail

Triple Track

Finpile only on Multi Slider XX, XXX or XXXXXX, no finpile on OX, OXXO, OXX and OXXXXO

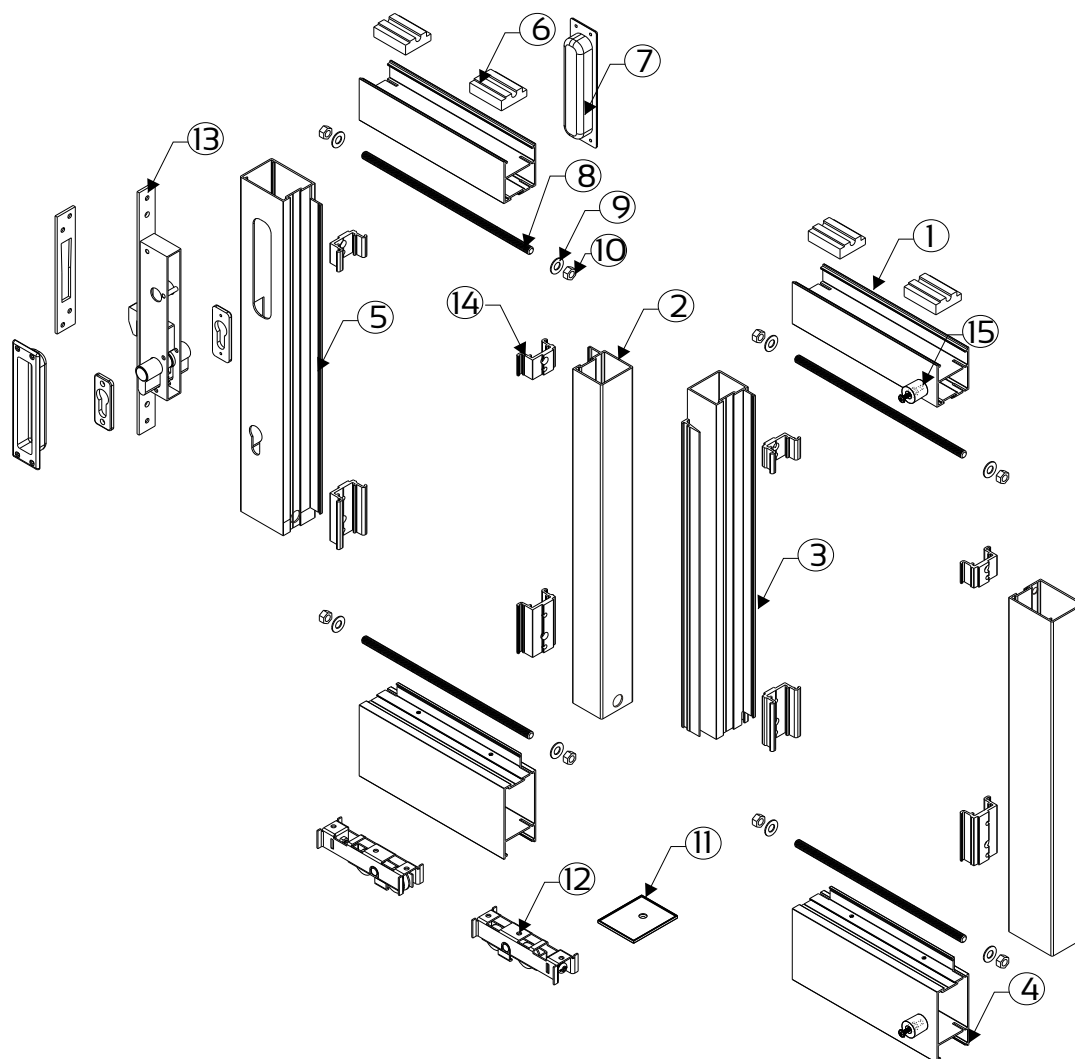


System Profiles

| ITEM | QTY | DIE No. | DESCRIPTION |
|------|-----|---------|------------------|
| 1 | 1 | W31537 | Triple Head Rail |
| 2 | 2 | W31590 | Jamb Adaptor |
| 3 | 2 | W55434 | Triple Box Jamb |
| 4 | 1 | W31535 | Triple Sill Rail |
| 5 | 3 | W26282 | Floor Track |

Hardware

| ITEM | QTY | COMPONENT DESCRIPTION |
|------|-----|-------------------------------|
| 6 | 9 | Finpile |
| 7 | 12 | 8x30 P/Head POSI S/S ST Screw |
| 8 | 12 | Grommets |

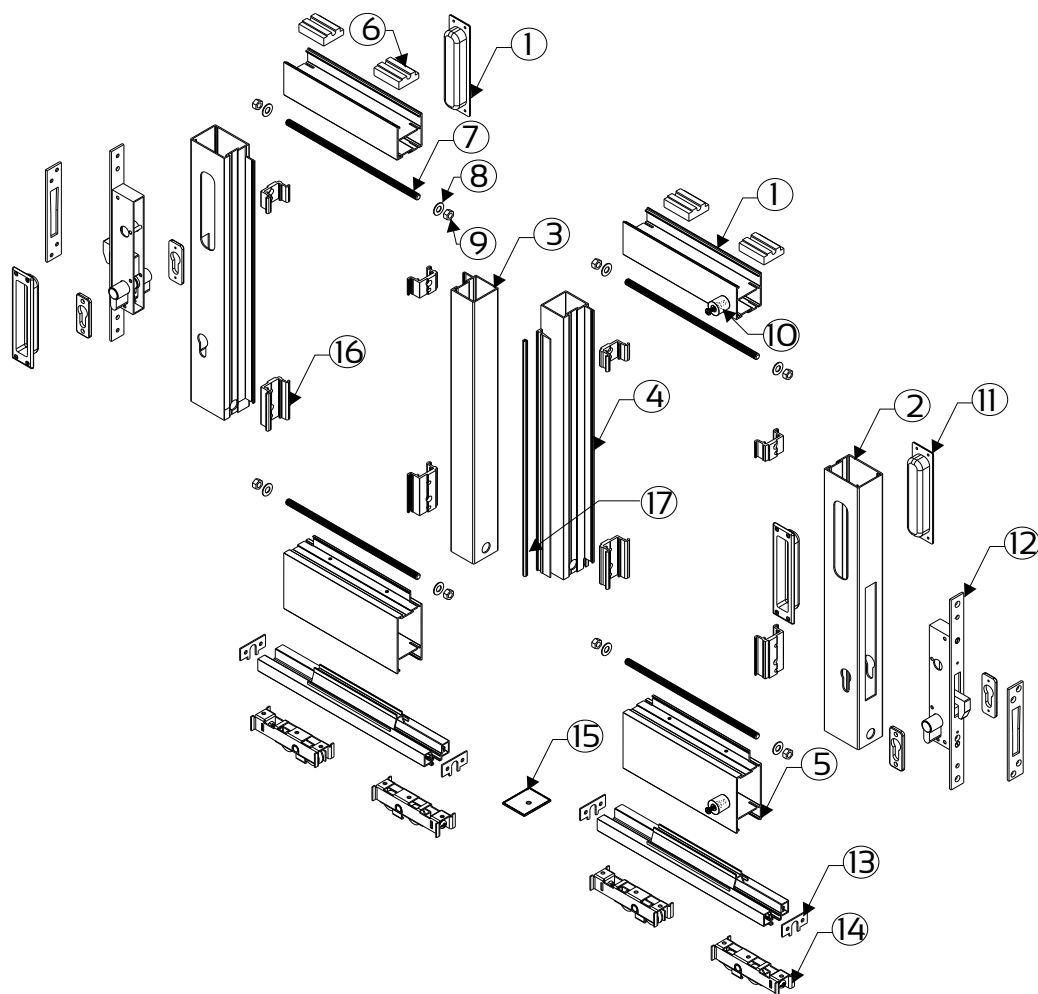


System Profiles

| ITEM | QTY | DIE No. | DESCRIPTION |
|------|-----|---------|------------------------|
| 1 | 2 | W44087 | R7 Head/Sill Rail 50mm |
| 2 | 1 | W53101 | Interlock Slide 40mm |
| 3 | 1 | W53098 | Fixed Interlocker |
| 4 | 2 | W44088 | R4 Head/Sill Rail 85mm |
| 5 | 2 | W53099 | R11 Door Stile 60mm |

Hardware

| ITEM | QTY | COMPONENT DESCRIPTION |
|------|-----|-----------------------------|
| 6 | 4 | Palace Multi Sash Block |
| 7 | 2 | Flush Pull Handle PVC |
| 8 | 4 | Threaded Rod Galv 3m |
| 9 | 8 | Washer Galv 8mm Rod |
| 10 | 8 | Nut Galv 8mm |
| 11 | 1 | Draught Excluder |
| 12 | 2 | Palace 2000 Roller |
| 13 | 1 | CISA Hook Lock 25mm Backset |
| 14 | 8 | Spigots |
| 15 | 2 | Stopper with Screw |

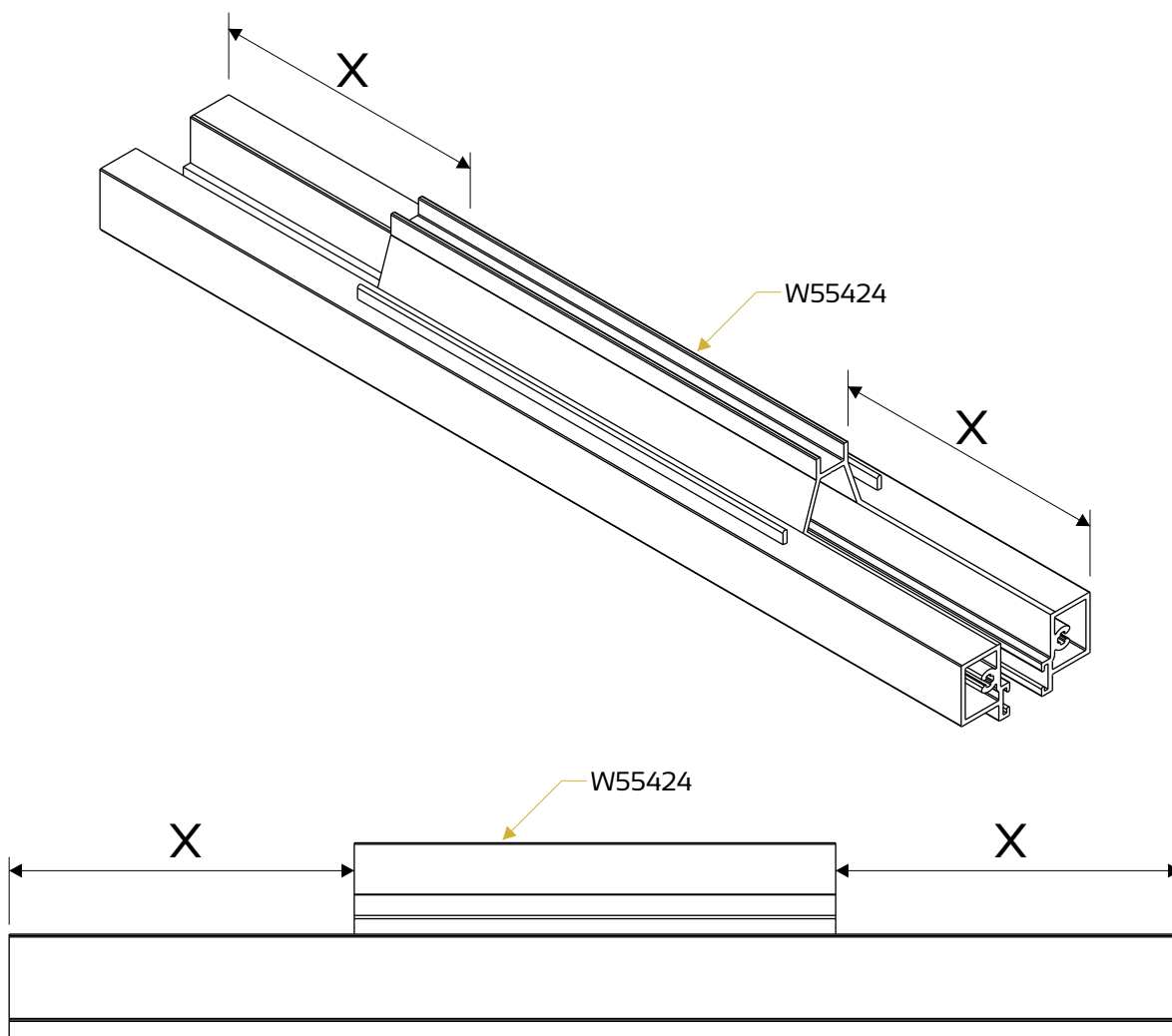


System Profiles

| ITEM | QTY | DIE No. | DESCRIPTION |
|------|-----|---------|------------------------|
| 1 | 2 | W44087 | R7 Head/Sill Rail 50mm |
| 2 | 2 | W53099 | R11 Door Stile 60mm |
| 3 | 1 | W53101 | Interlock Slide 40mm |
| 4 | 1 | W53098 | Fixed Interlocker |
| 5 | 2 | W44088 | R4 Head/Sill Rail 85mm |

Hardware

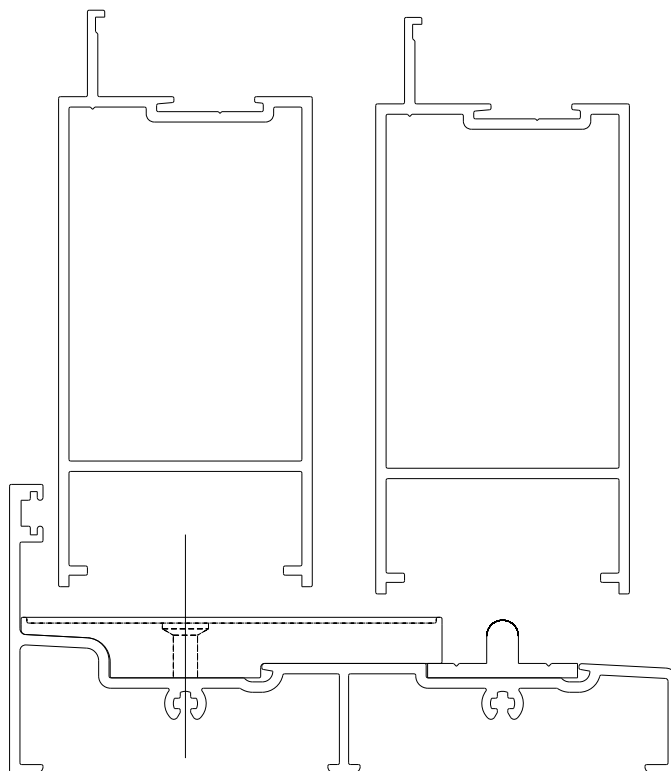
| ITEM | QTY | COMPONENT DESCRIPTION |
|------|-----|-----------------------------|
| 6 | 4 | Palace Multi Sash Block |
| 7 | 4 | Threaded Rod Galv 3m |
| 8 | 8 | Washer Galv 8mm Rod |
| 9 | 8 | Nut Galv 8mm |
| 10 | 2 | Stopper with Screw |
| 11 | 4 | Flush Pull Handle PVC |
| 12 | 2 | CISA Hook Lock 25mm Backset |
| 13 | 4 | Palace Multi Sash End |
| 14 | 2 | Palace 2000 Roller |
| 15 | 1 | Draught Excluder |
| 16 | 8 | Spigots |
| 17 | 2 | Finpile |



| | X |
|----------------------|-------|
| 45 STILE / INTERLOCK | 180mm |
| 60 STILE / INTERLOCK | 195mm |
| 90 STILE / INTERLOCK | 225mm |

Sash Block:

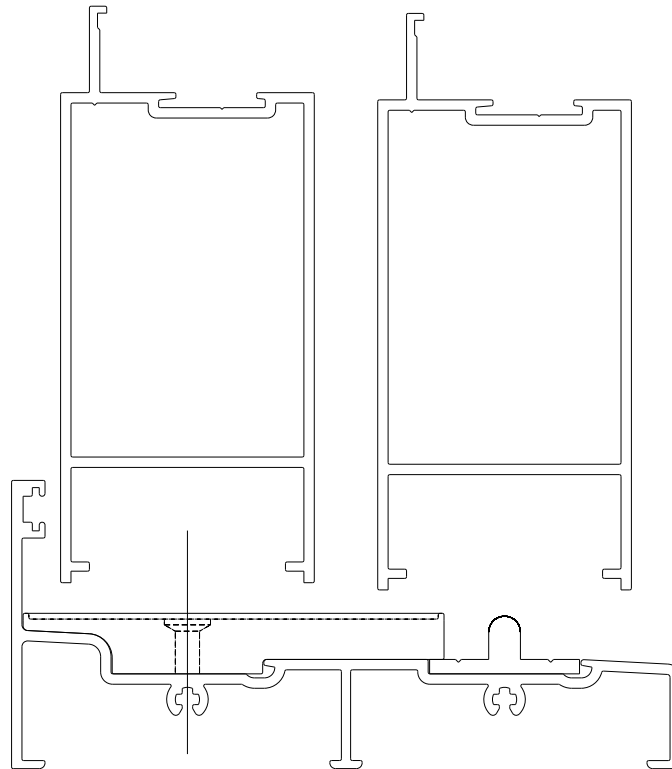
1. Use Palace Multi Sash Block (SGD-PMSB) under the fixed panels to lift it to the correct height from the sill.
2. The Sash Block can also be screwed to the Head Rail as an anti lift device.



VERTICAL SECTION
Two & Four Pane Sliders

Draught Excluder(s) to be used:

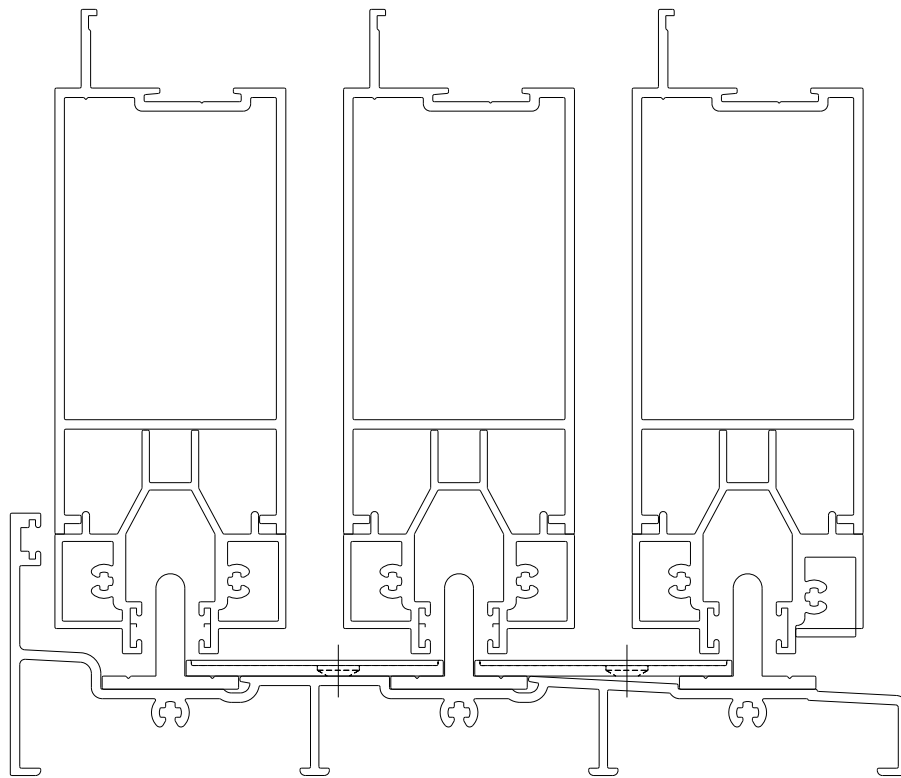
1. Use PEX-PDE underneath the interlockers.
2. The pile for Draught Excluder (PEX-PSO) must be used with the above mentioned Draught Excluder.



VERTICAL SECTION
Two & Four Pane Sliders

Draught Excluder(s) to be used:

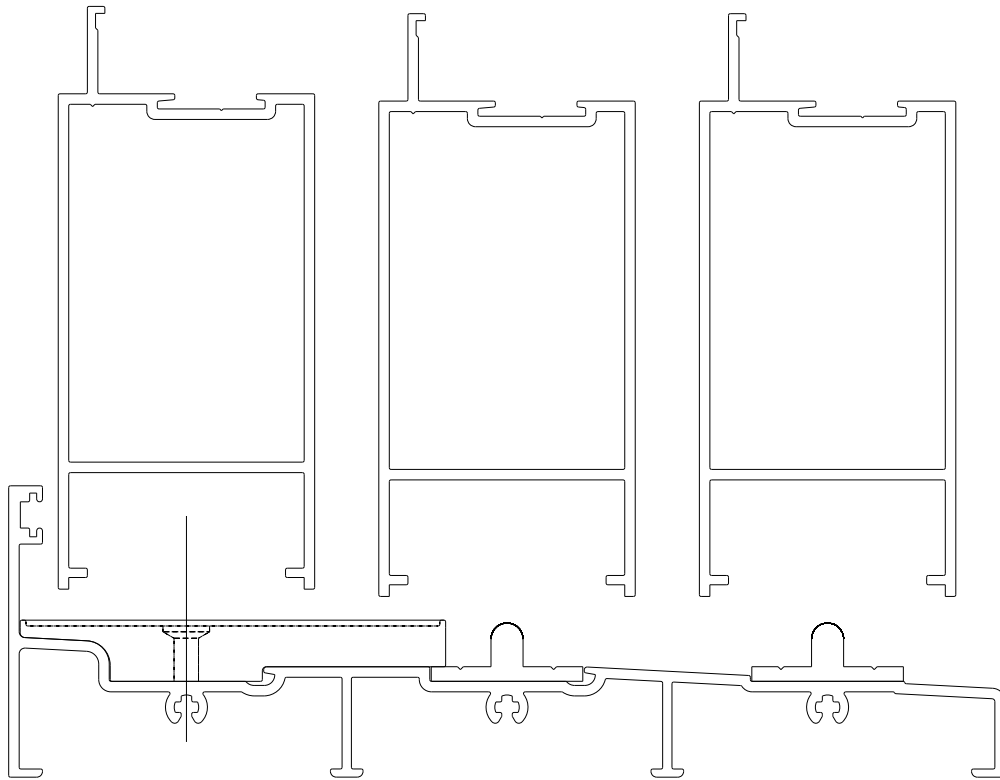
1. Use PEX-PDEM underneath the interlockers.
2. The pile for Draught Excluder (PEX-PSO) must be used with the above mentioned Draught Excluder.



VERTICAL SECTION
Three & Six Panel Pane Multi Sliders

Draught Excluder(s) to be used:

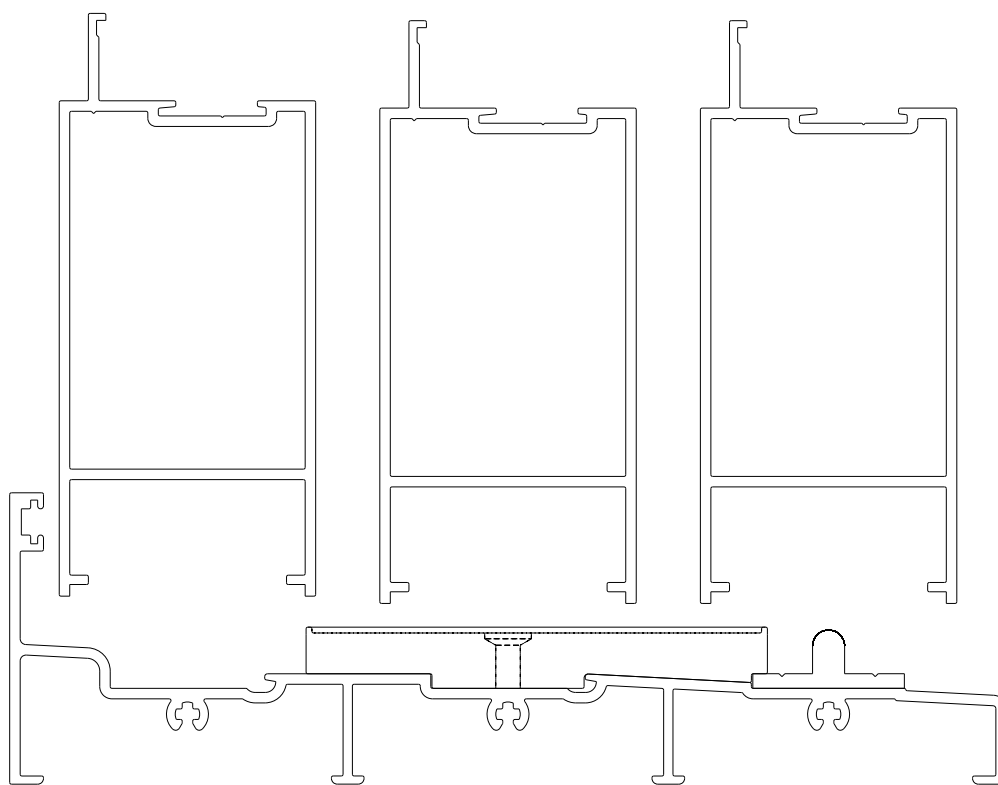
1. Use PEX-PDE underneath the interlockers.
2. The pile for Draught Excluder (PEX-PSO) must be used with the above mentioned Draught Excluder.



VERTICAL SECTION
Three & Six Panel Pane Multi Sliders

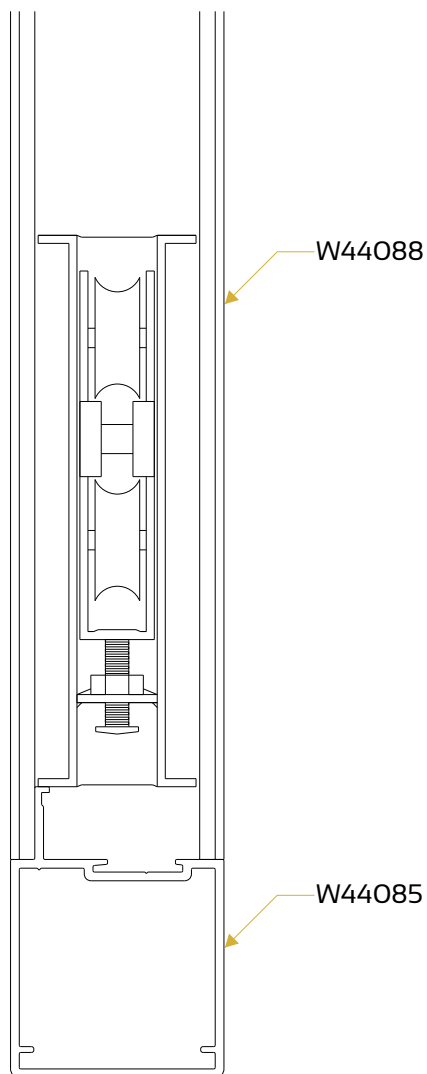
Draught Excluder(s) to be used:

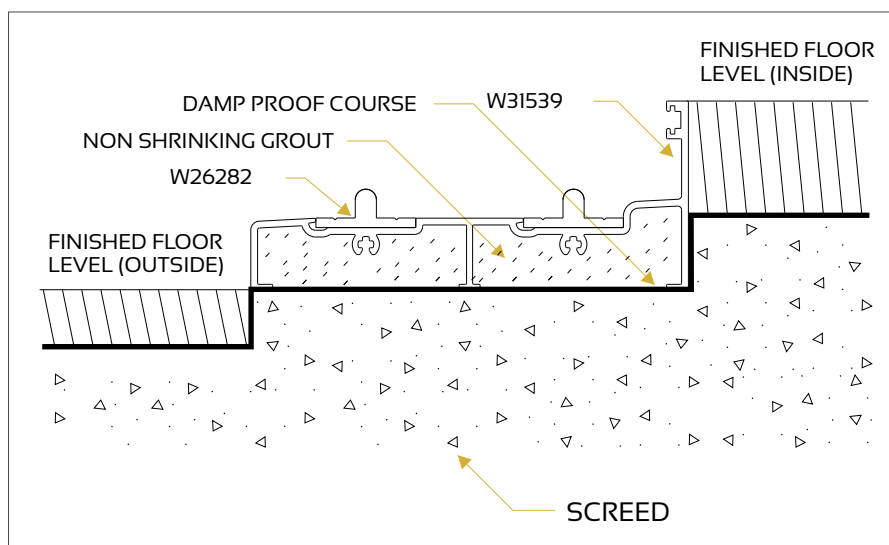
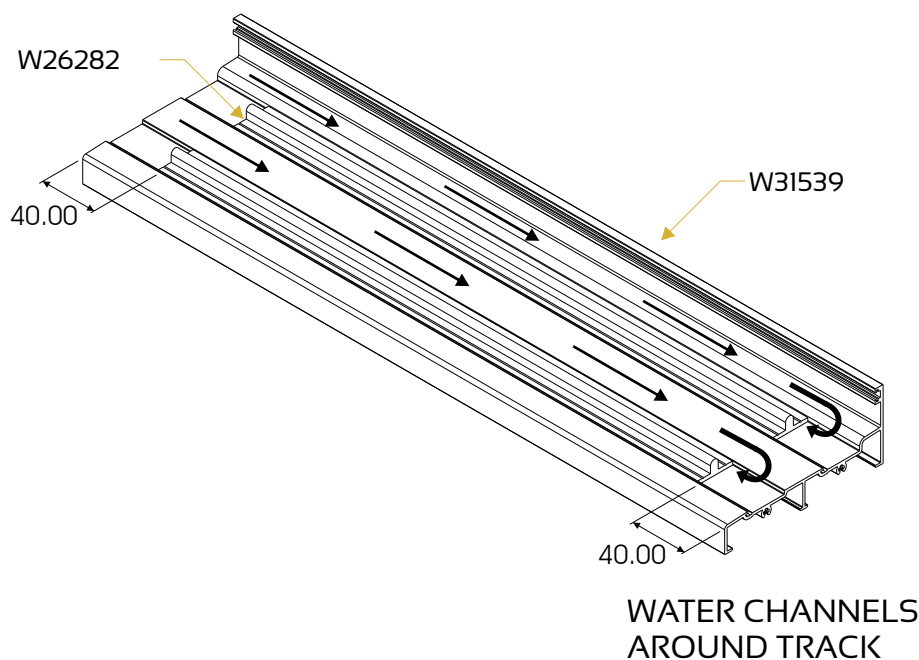
1. Use PEX-PDET underneath the interlockers.
2. The pile for Draught Excluder (PEX-PSO) must be used with the above mentioned Draught Excluder.

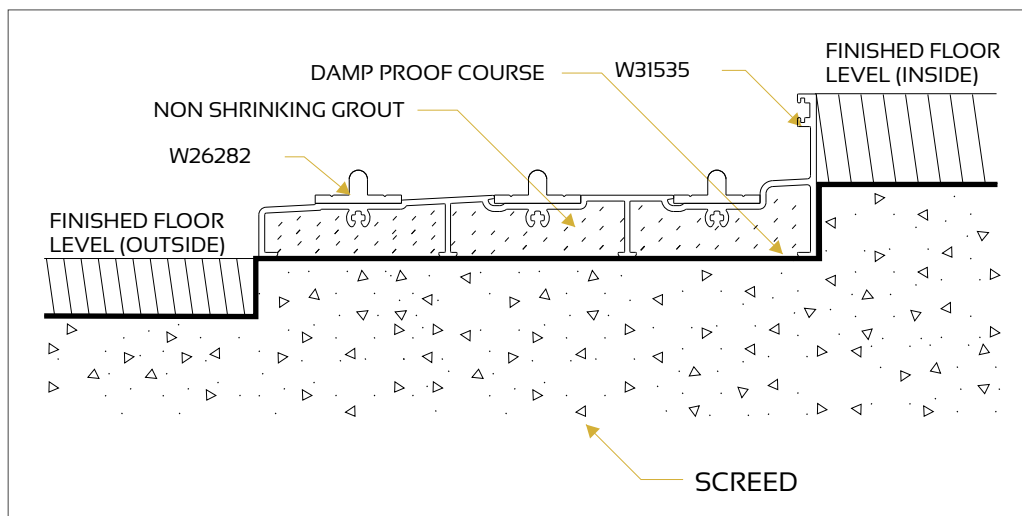
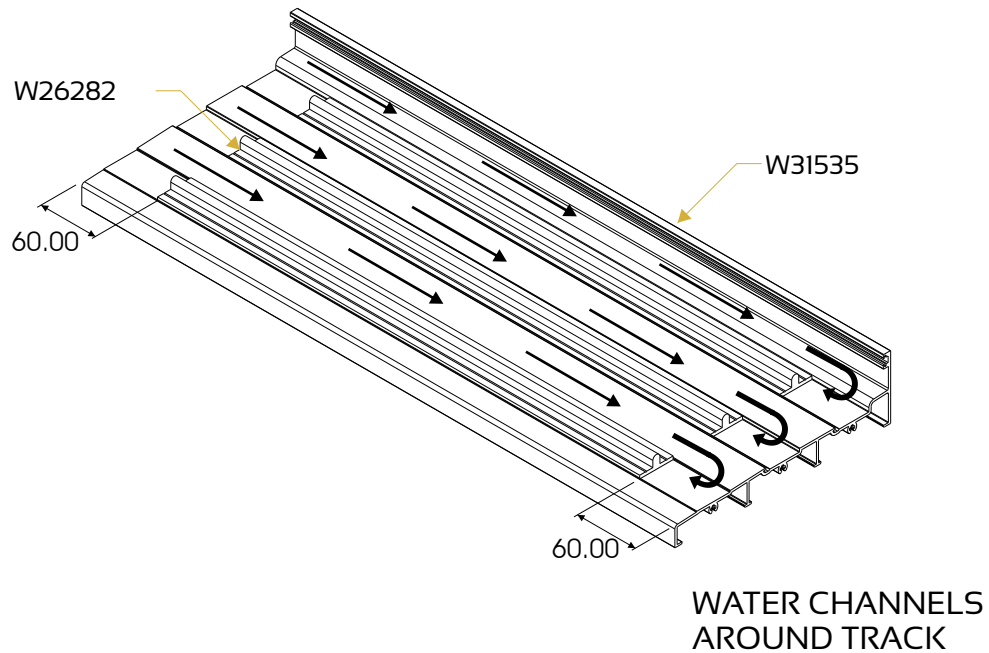


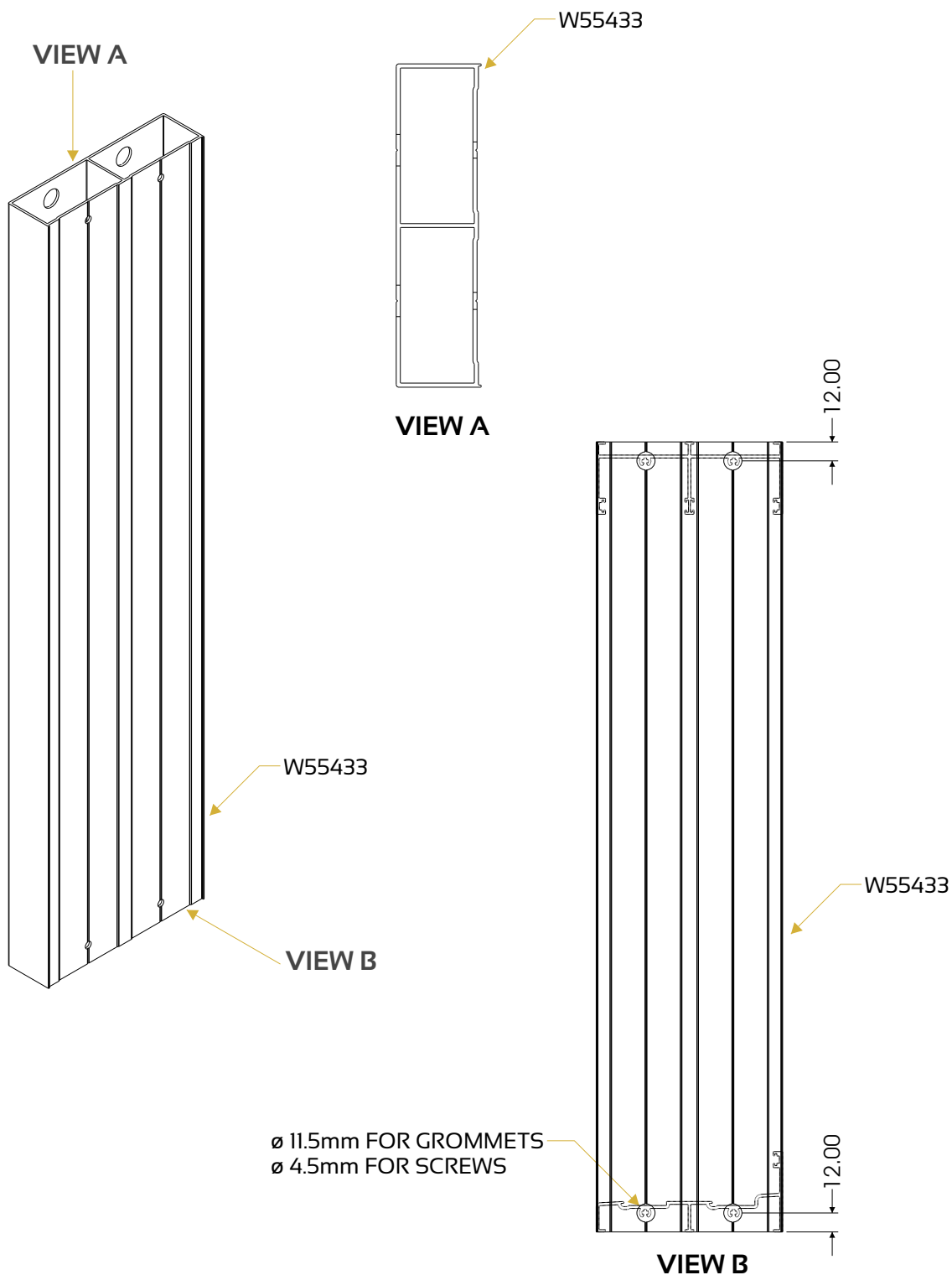
VERTICAL SECTION
Three & Six Panel Pane Multi Sliders

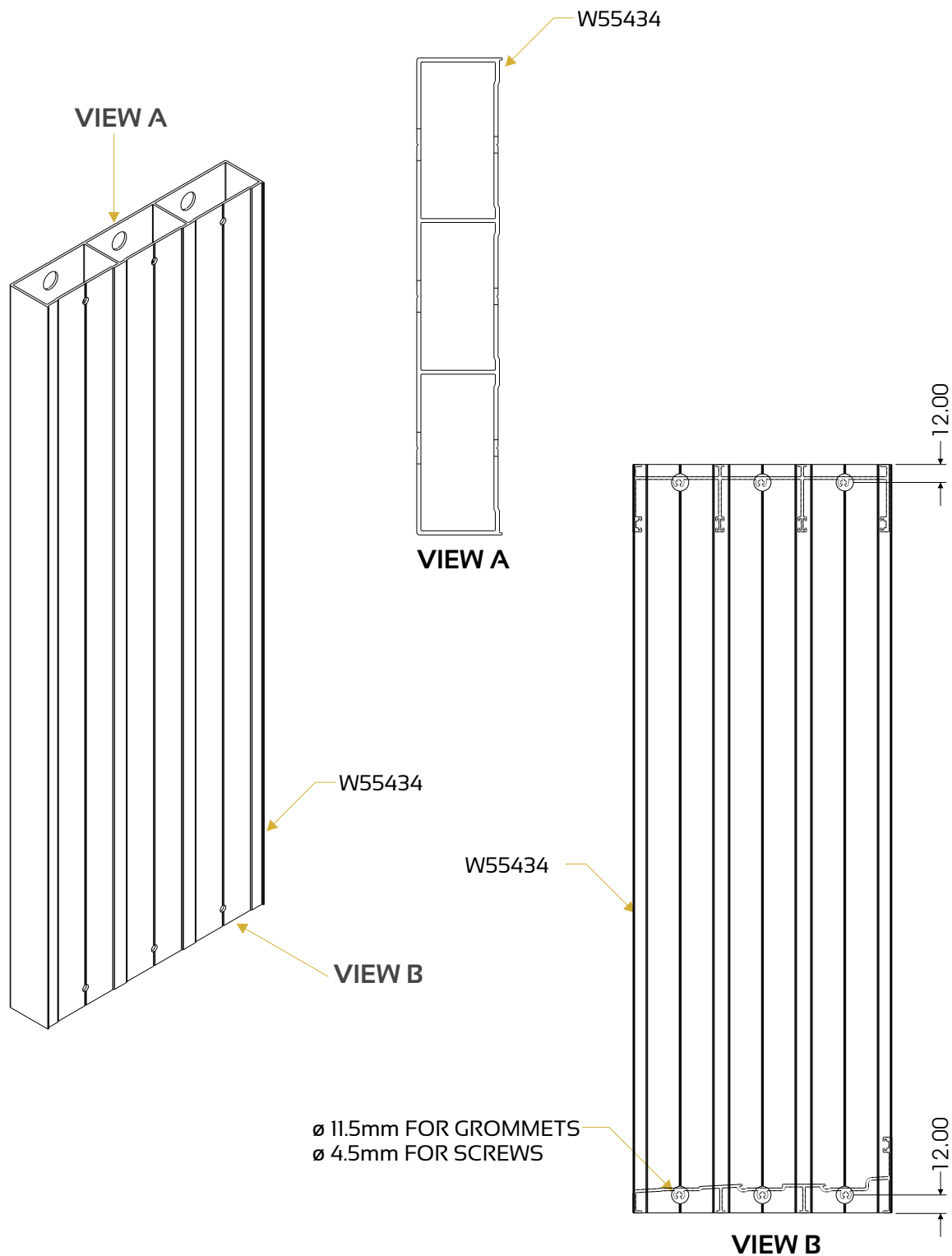
RSW-SFTB FIXED
AGAINST W44085



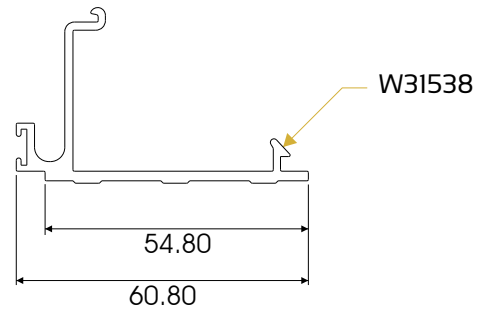




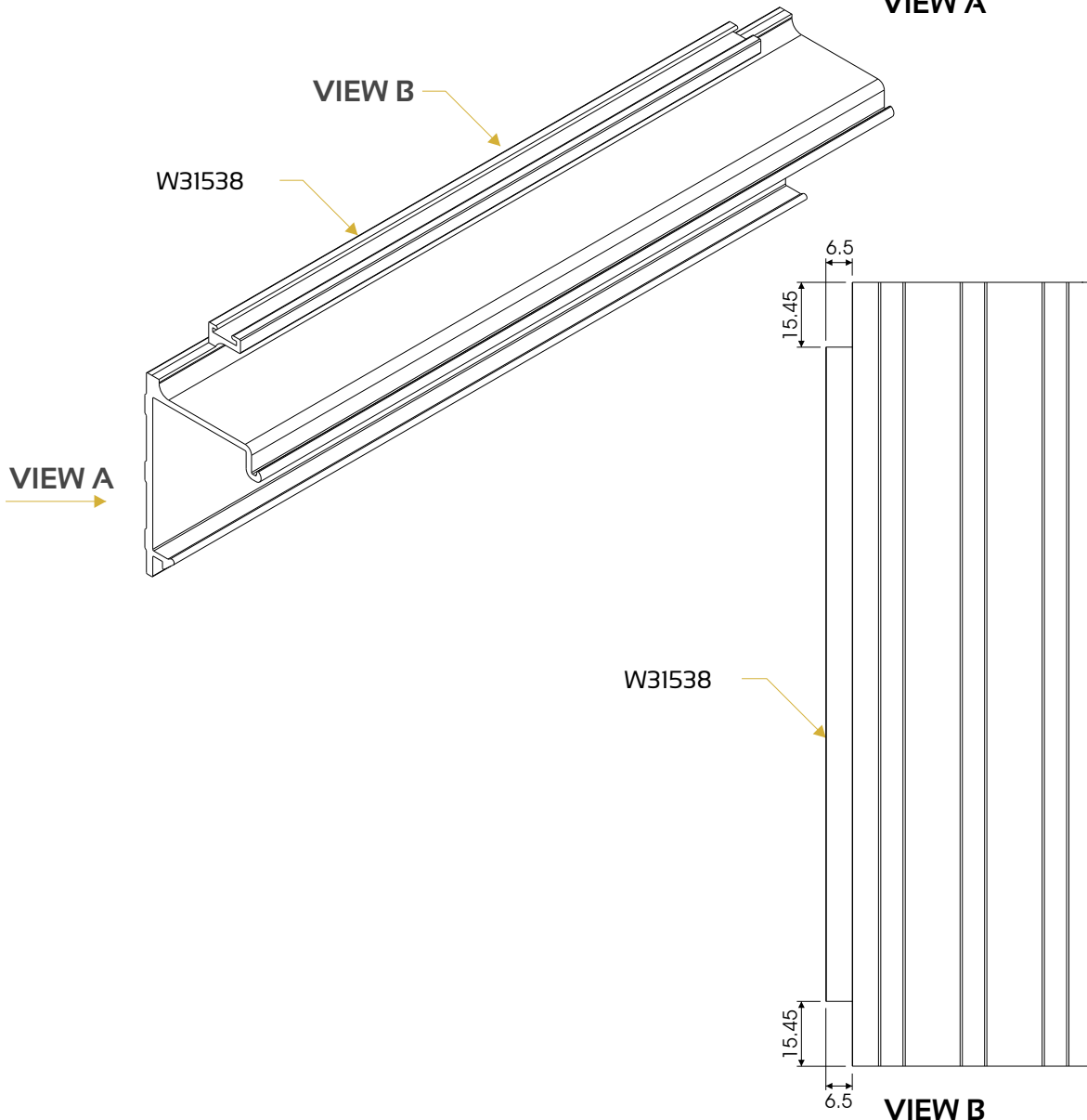




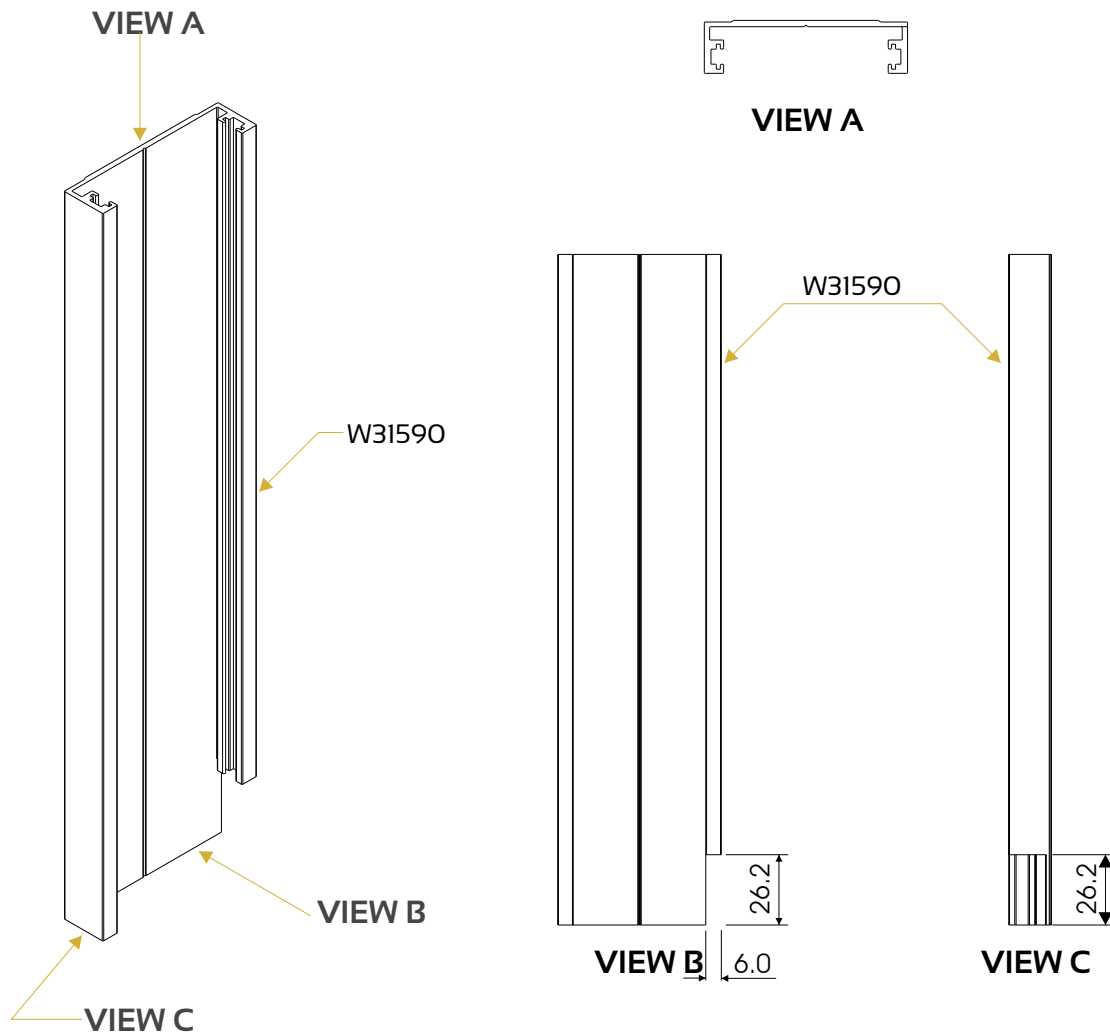
NOTE: For an OX door, only the end of the sill cover, which fits against the jamb cover is to be machined as shown. For an OXX door, no machining of the sill cover is required.



VIEW A

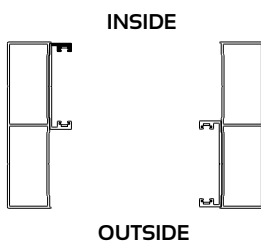


VIEW B

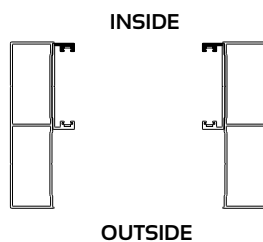


TO BE CUT OUT ON INSIDE ADAPTOR ONLY

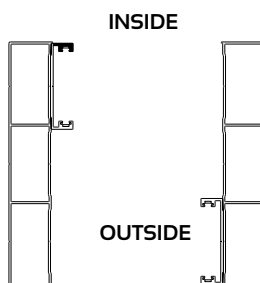
OX & 2 PANEL MULTI
SLIDER = 1 SIDE ONLY



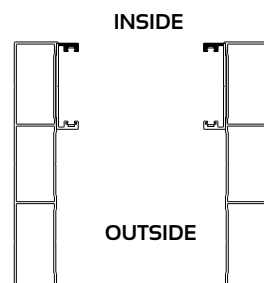
OXXO & 4 PANEL MULTI
SLIDER = BOTH SIDES

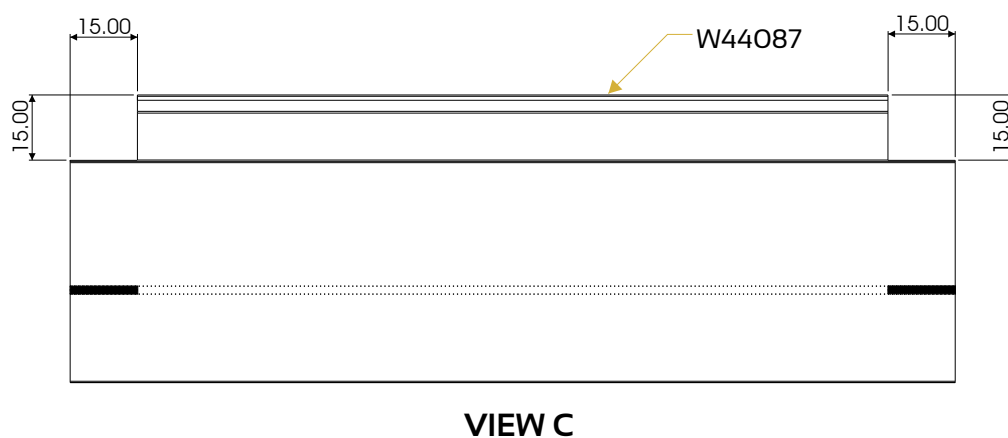
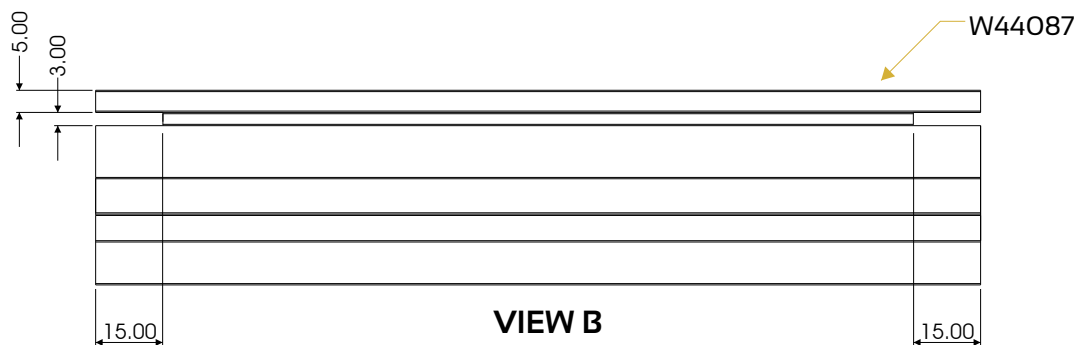
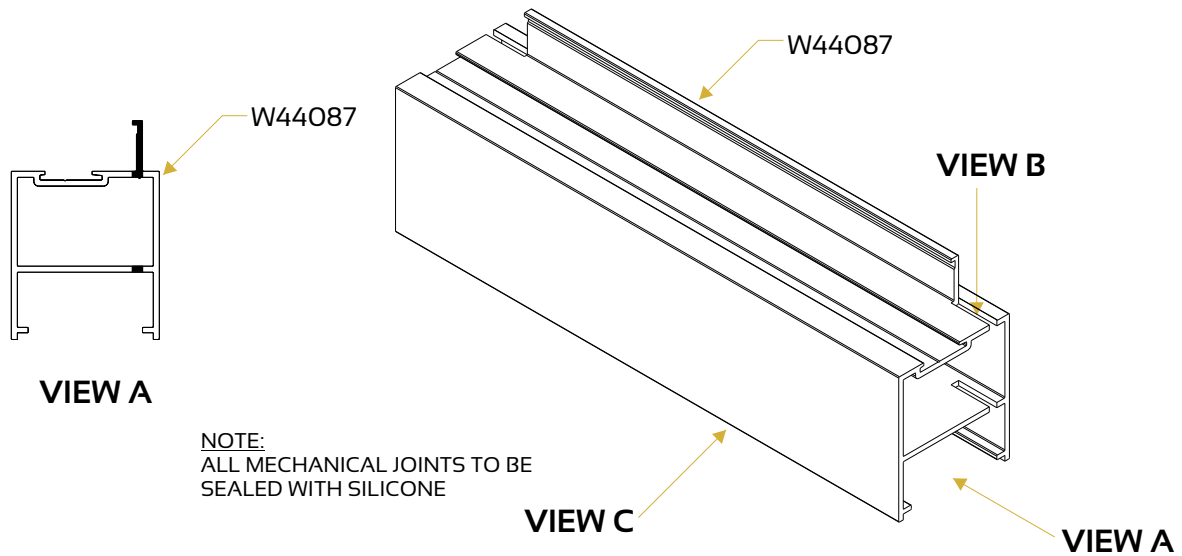


OXX & 3 PANEL MULTI
SLIDER = 1 SIDE ONLY



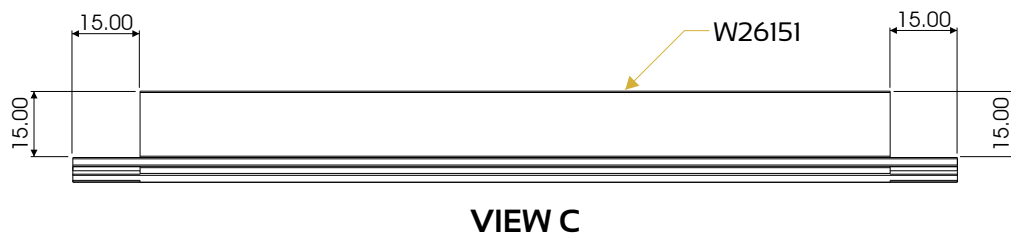
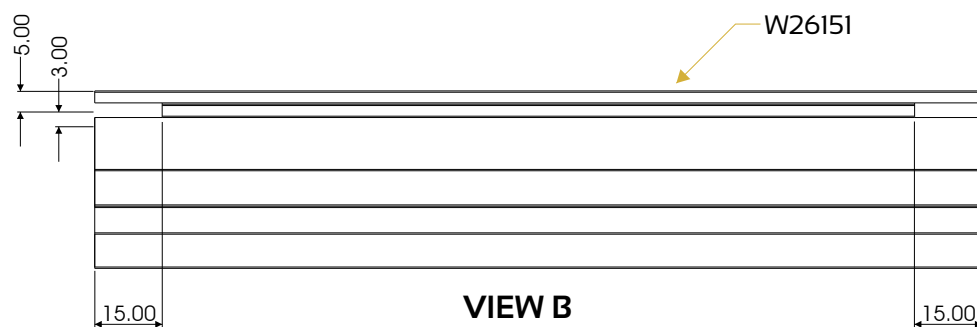
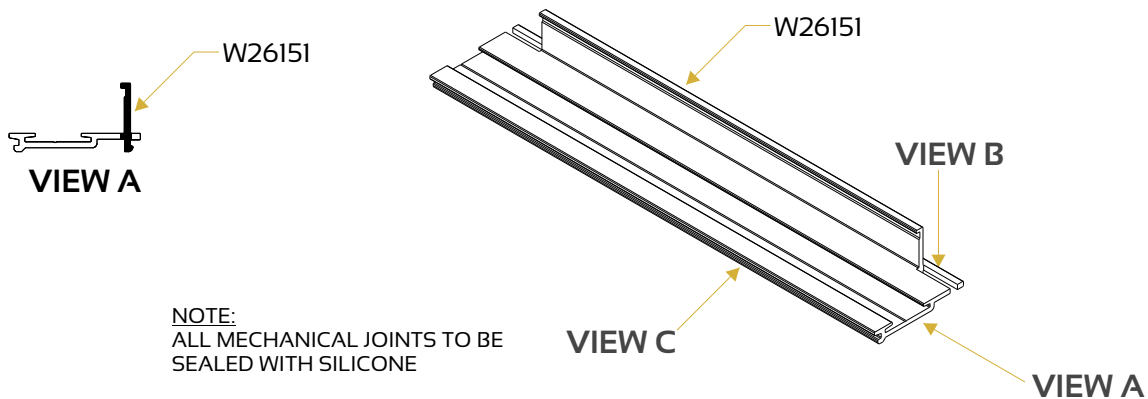
OXXXXO & 6 PANEL MULTI
SLIDER = BOTH SIDES

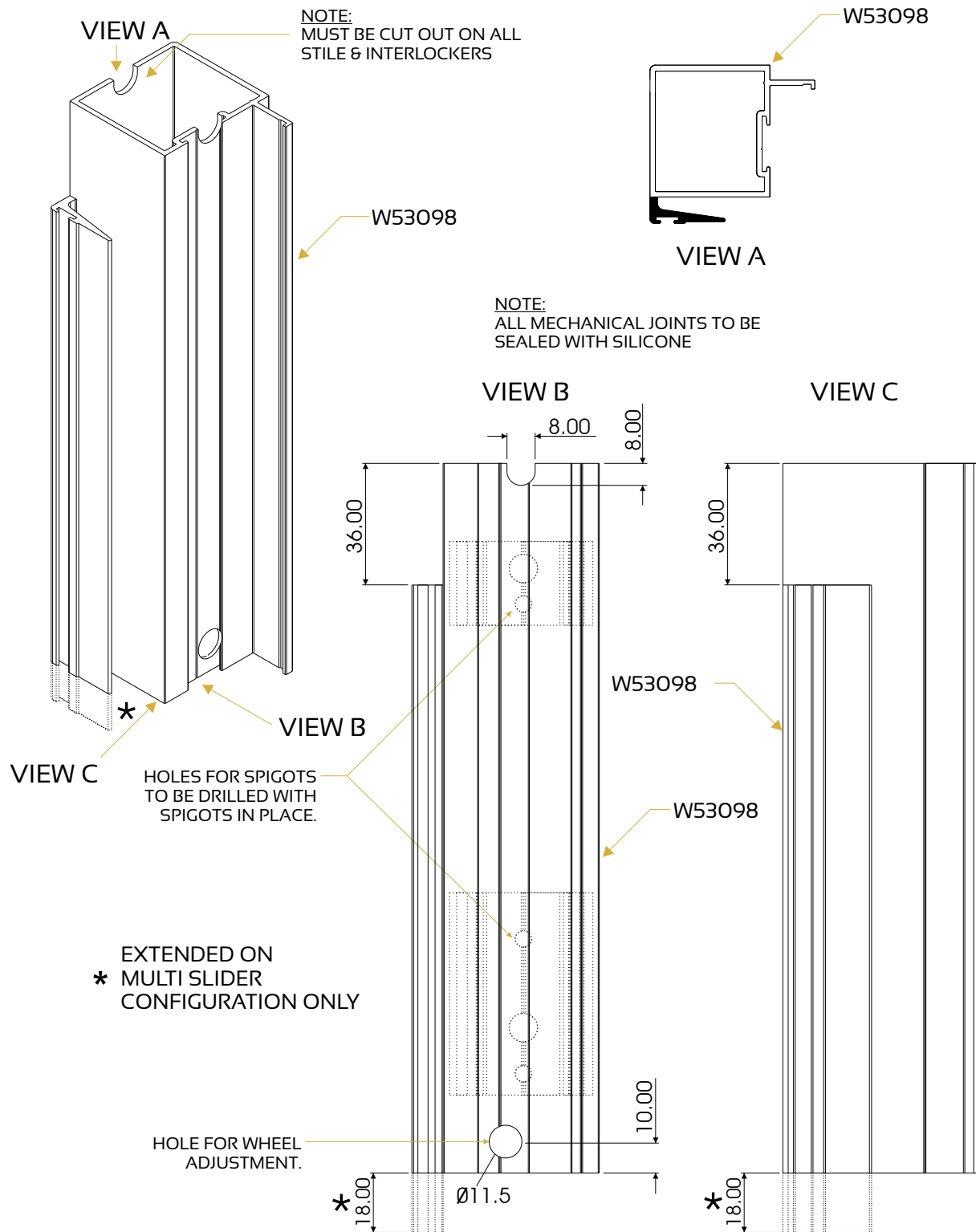


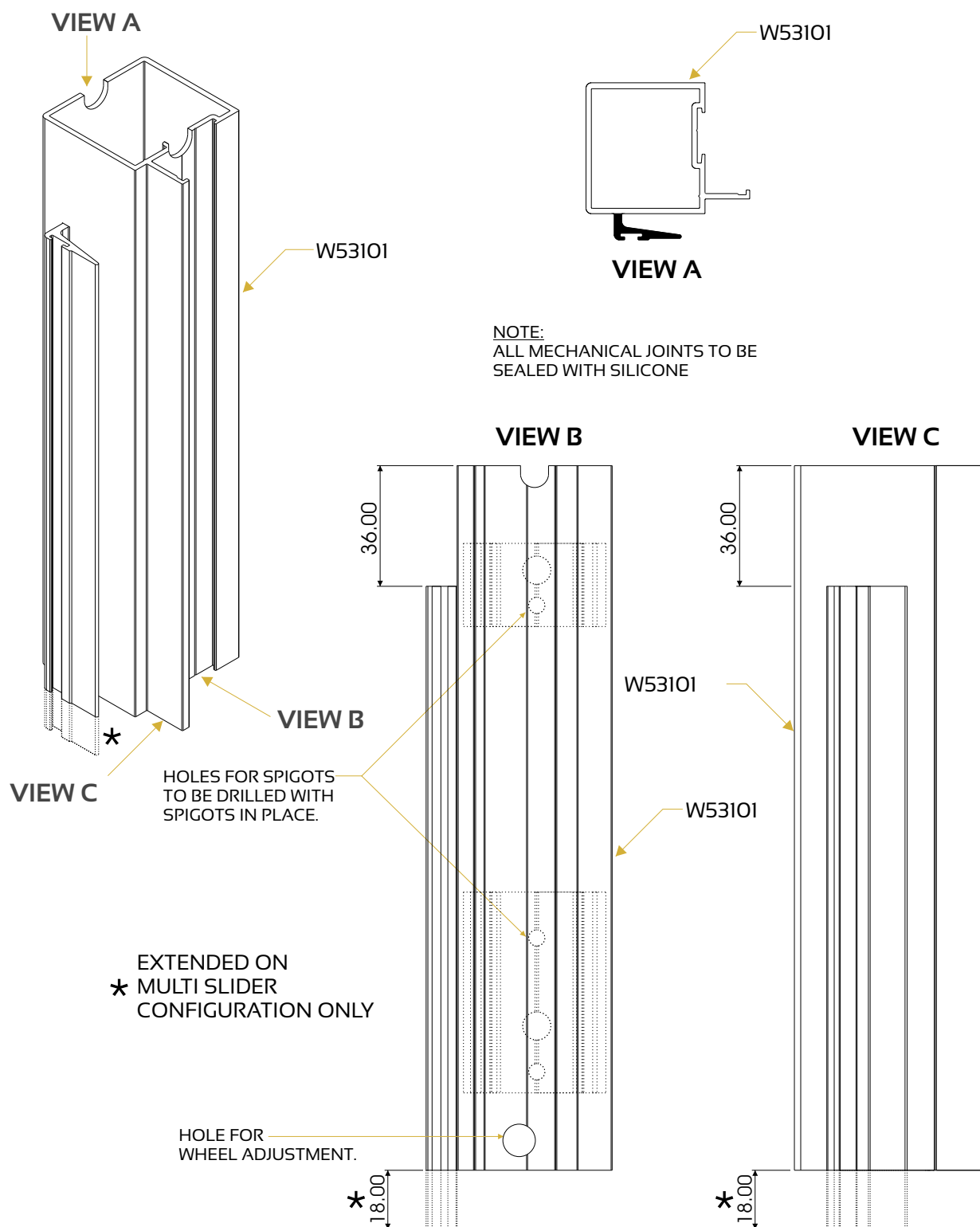


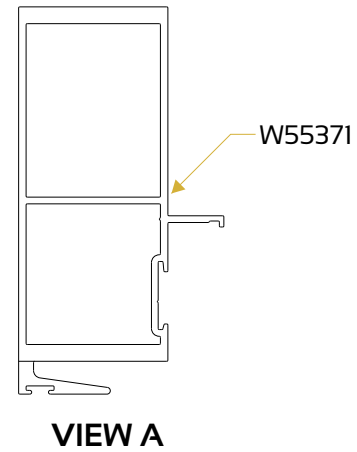
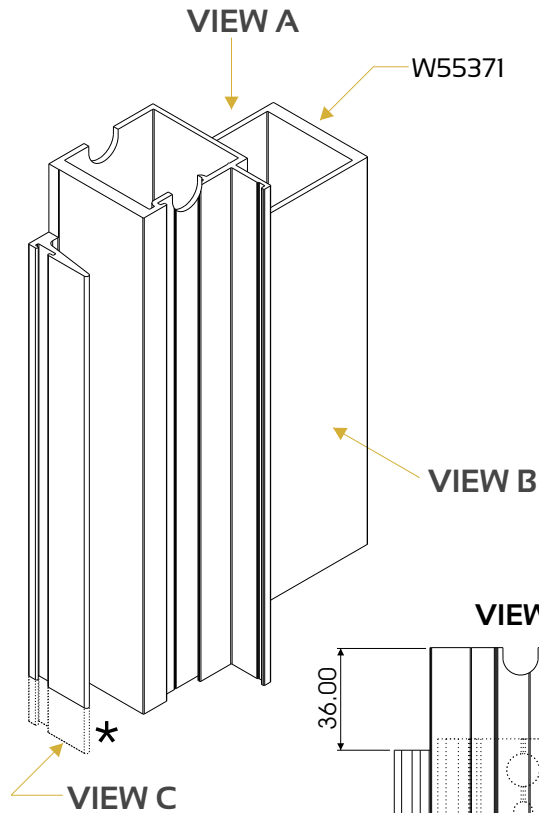


36

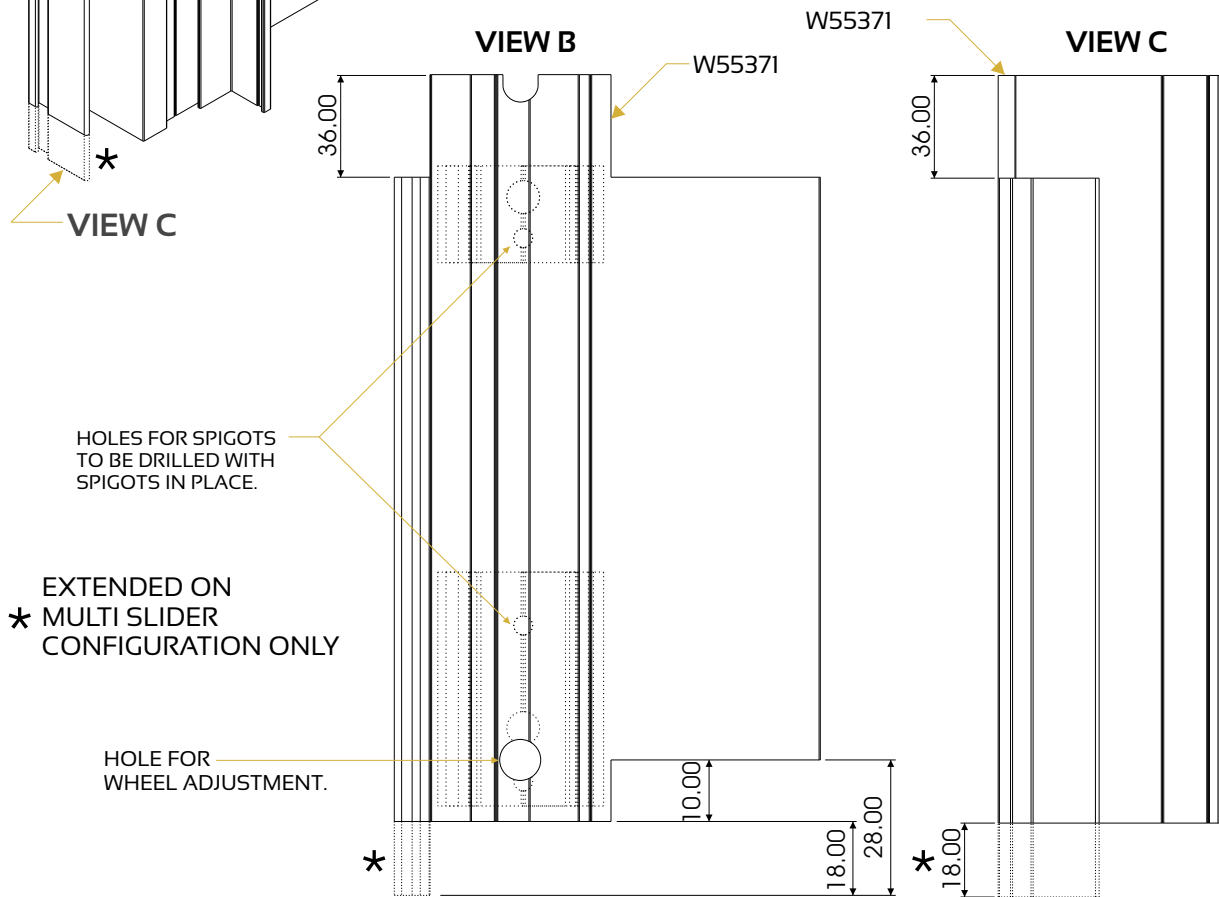


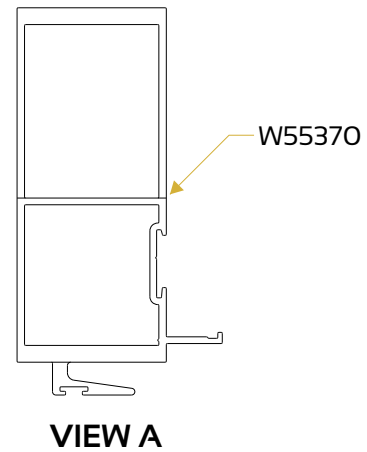
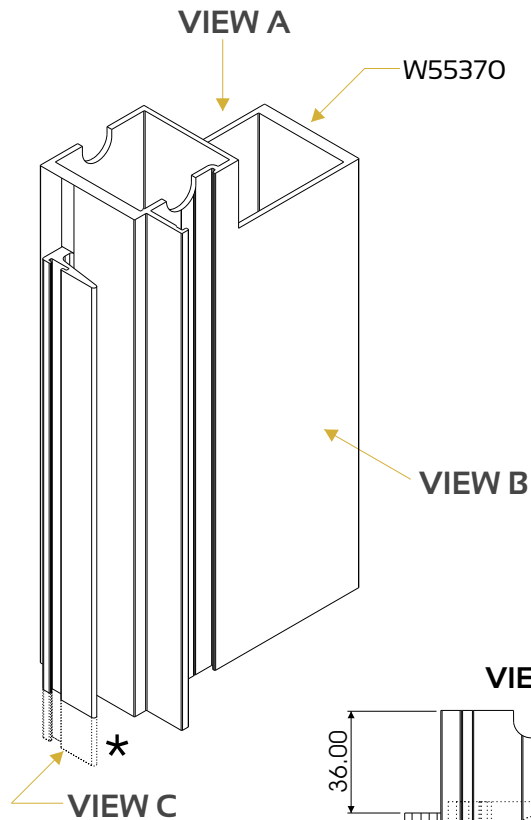




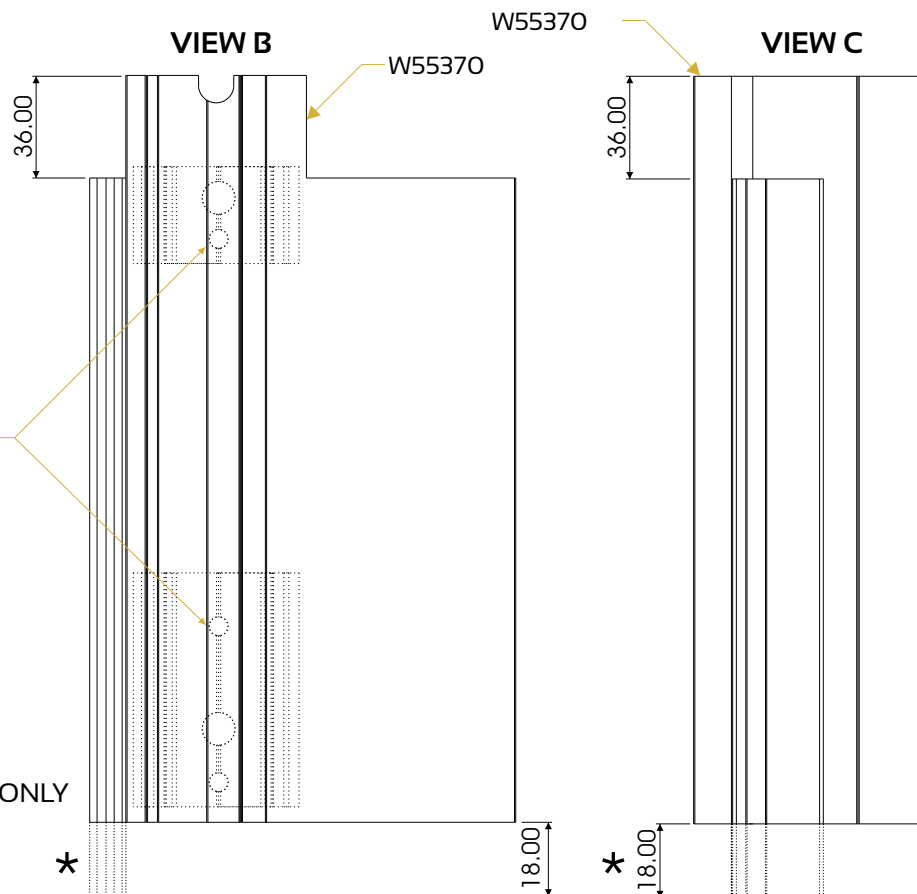


NOTE:
ALL MECHANICAL JOINTS TO BE
SEALED WITH SILICONE



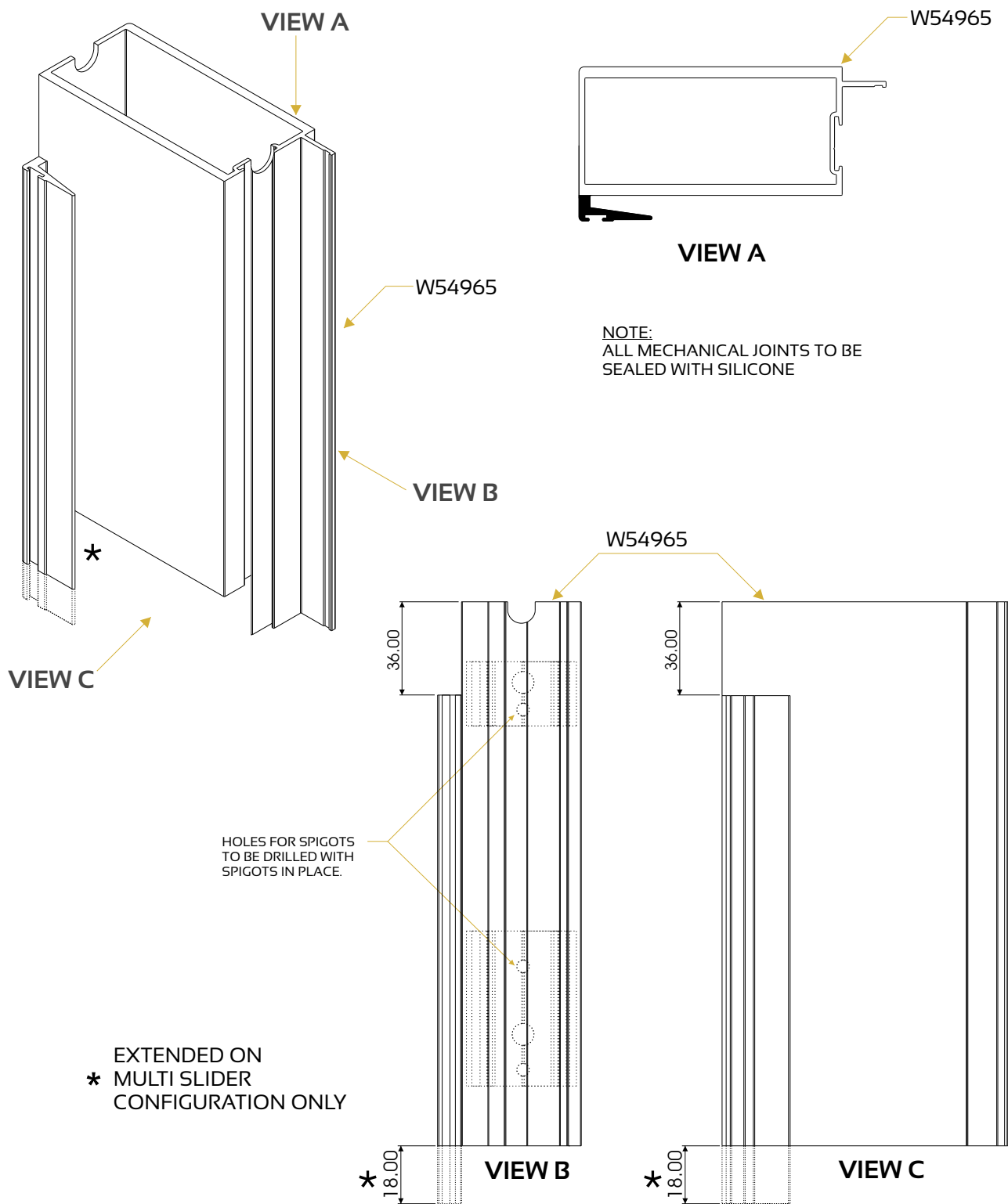


NOTE:
ALL MECHANICAL JOINTS TO BE
SEALED WITH SILICONE

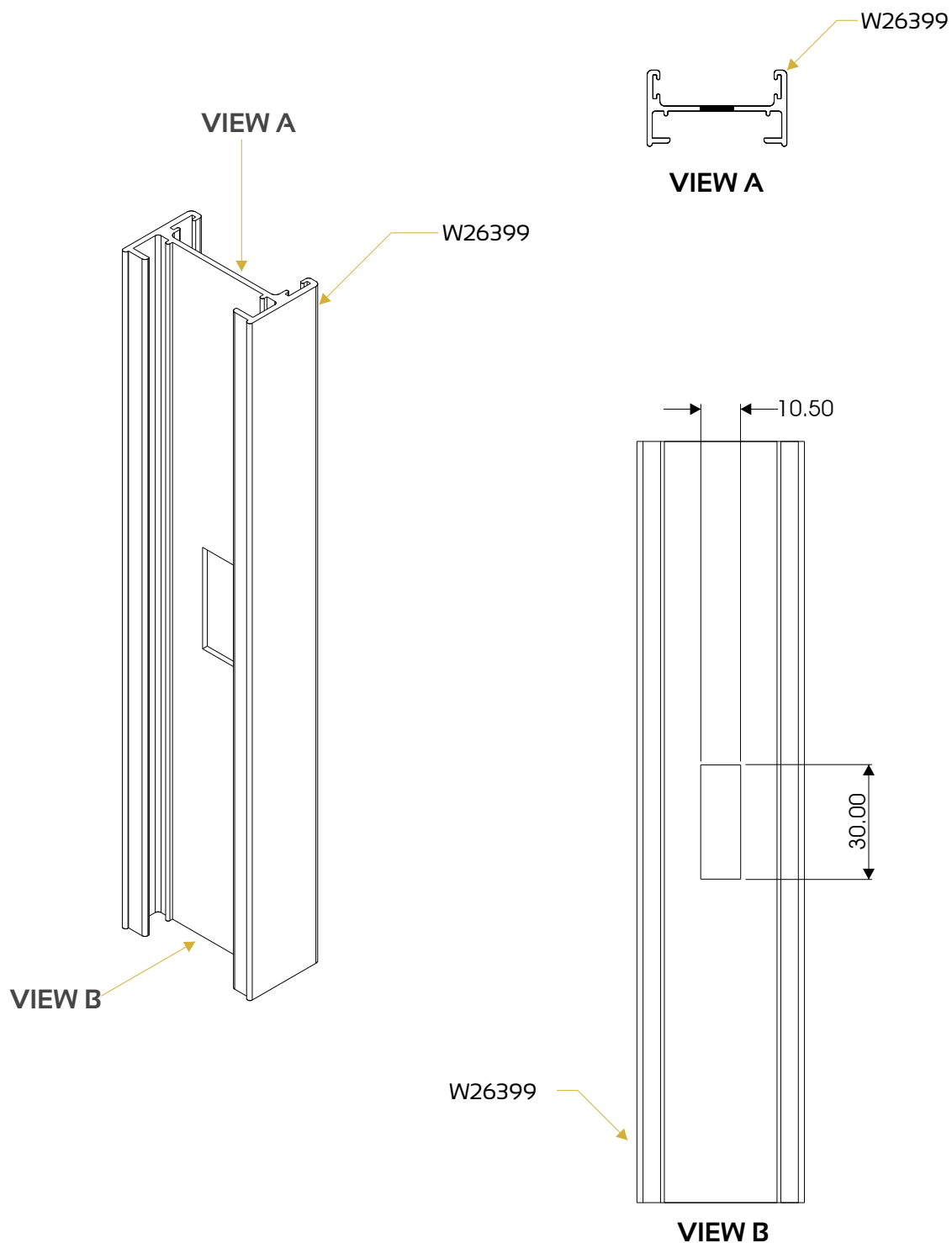


Machining Detail

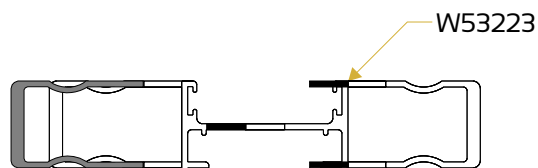
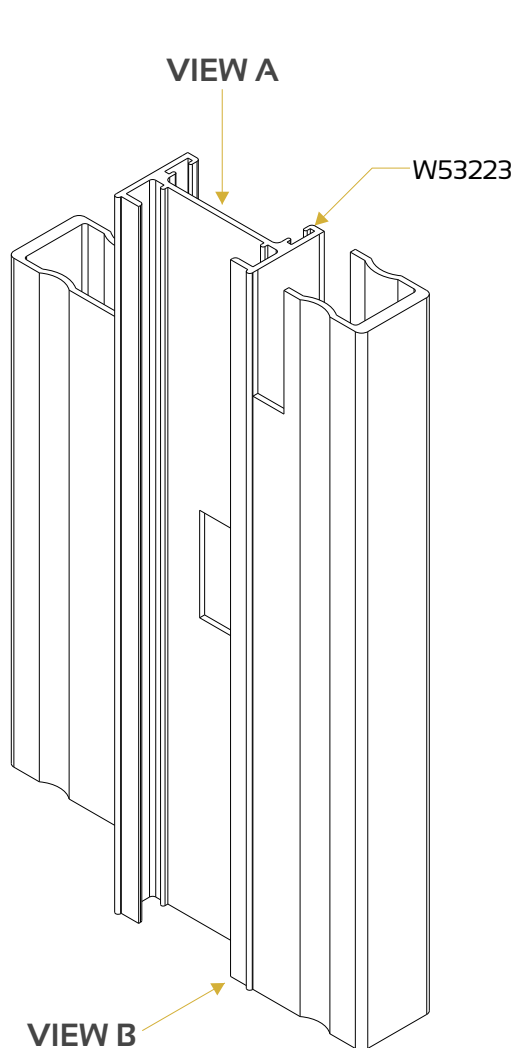
90mm Fixed Interlocker





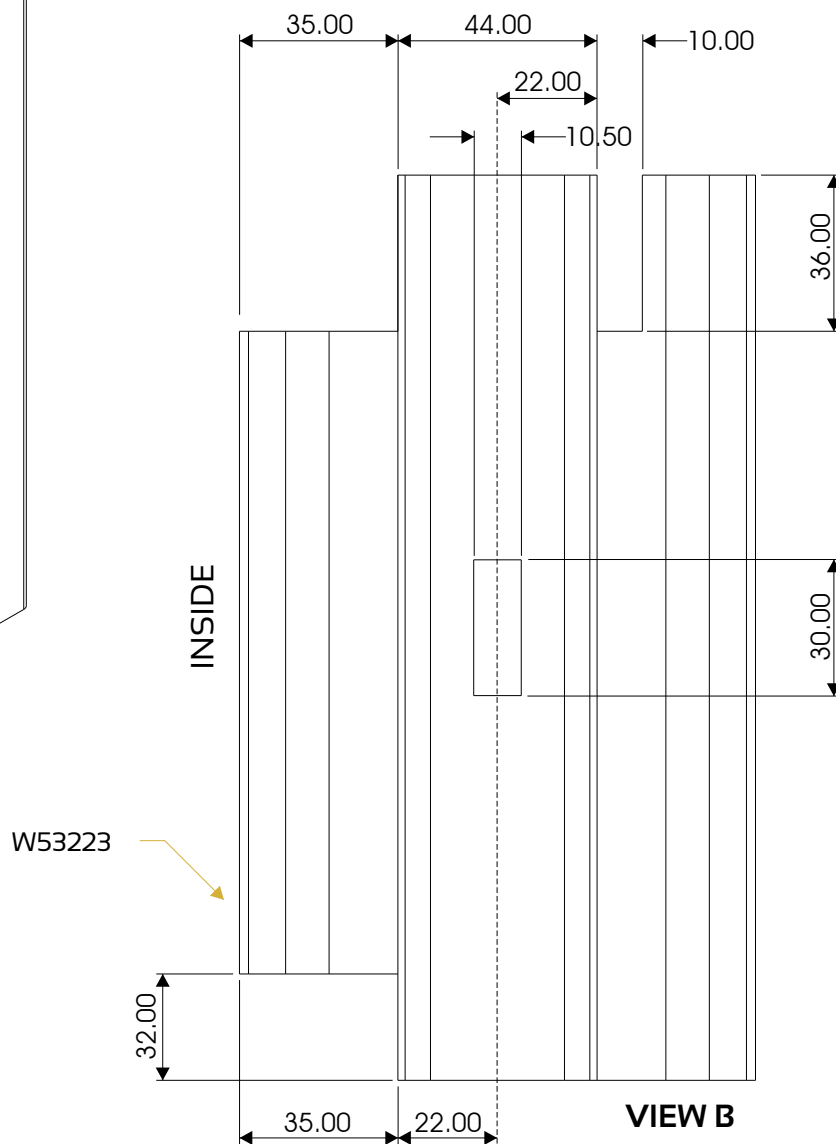


Heavy Duty Astragal for OX, OXXO, OXX & OXXXXO

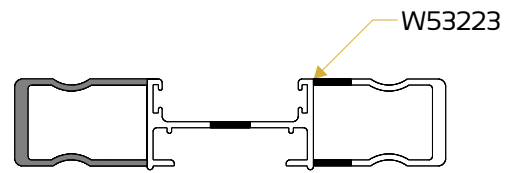
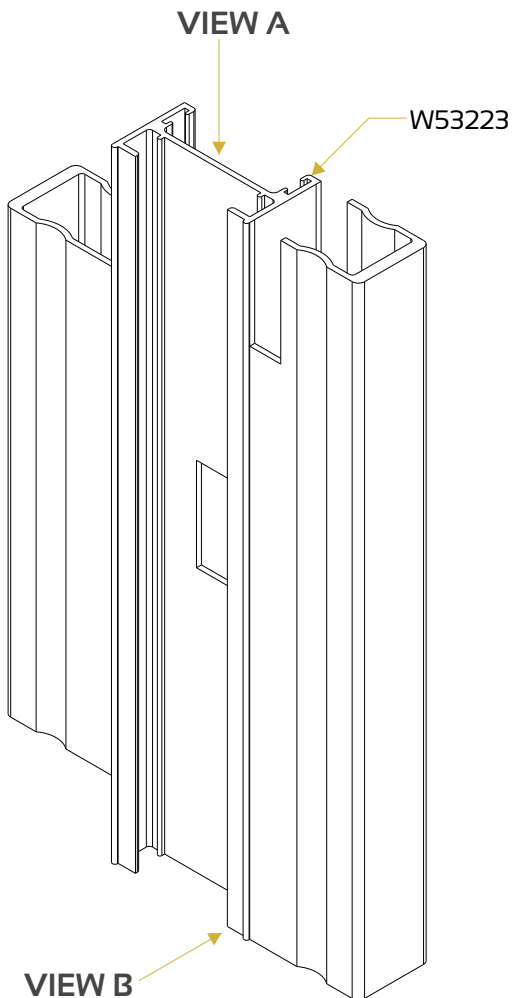


VIEW A

**NOTE: SHARP MACHINED EDGES
TO BE ROUNDED TO
PREVENT UNDUE WOOLPILE
WEAR.**

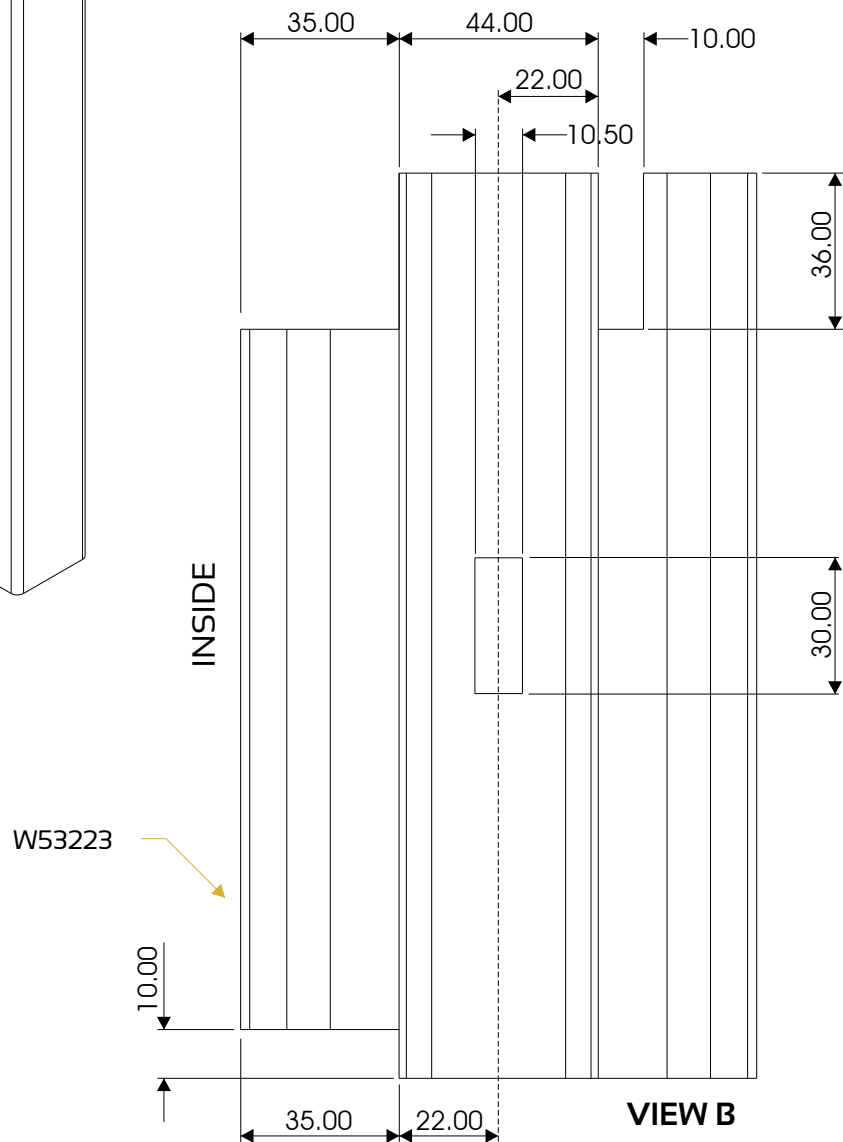


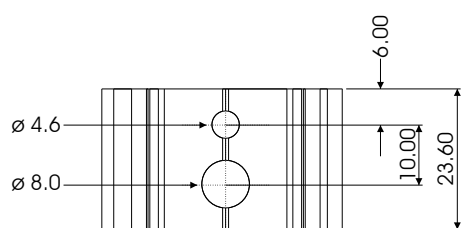
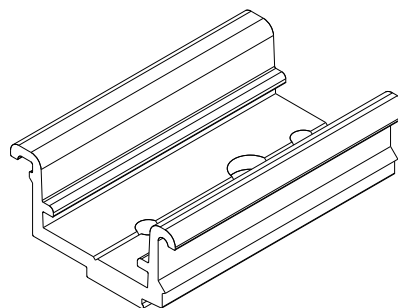
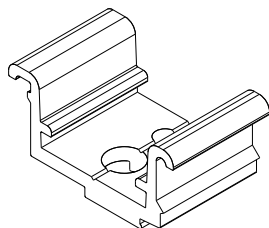
Heavy Duty Astragal for XX, XXX, XXXX & XXXXXXX



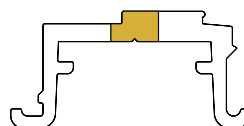
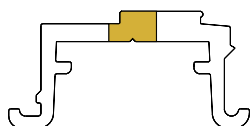
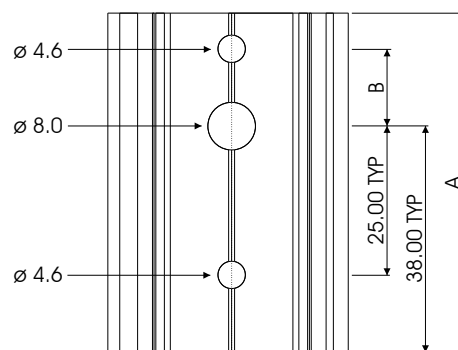
VIEW A

**NOTE: SHARP MACHINED EDGES
TO BE ROUNDED TO
PREVENT UNDUE WOOLPILE
WEAR.**

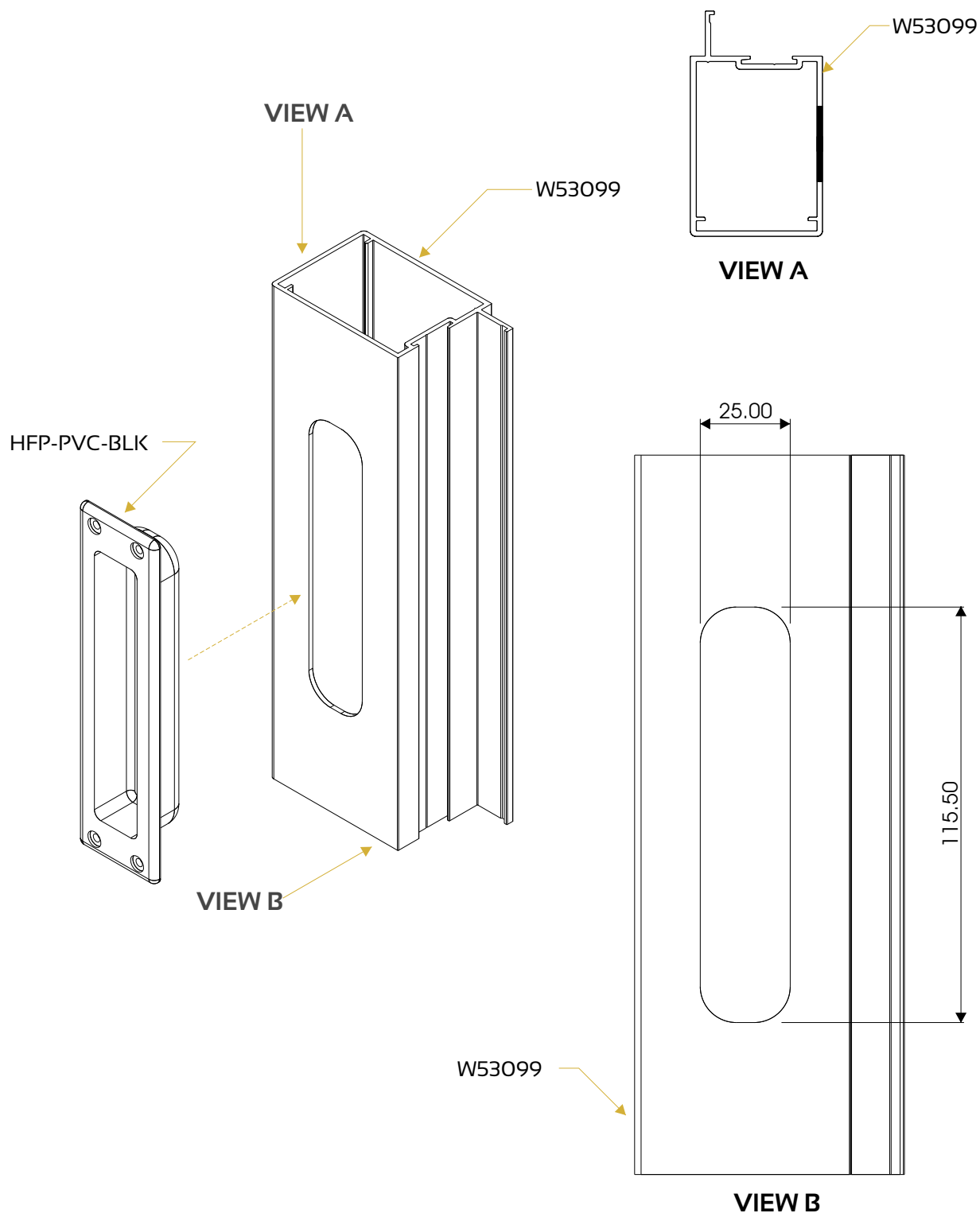


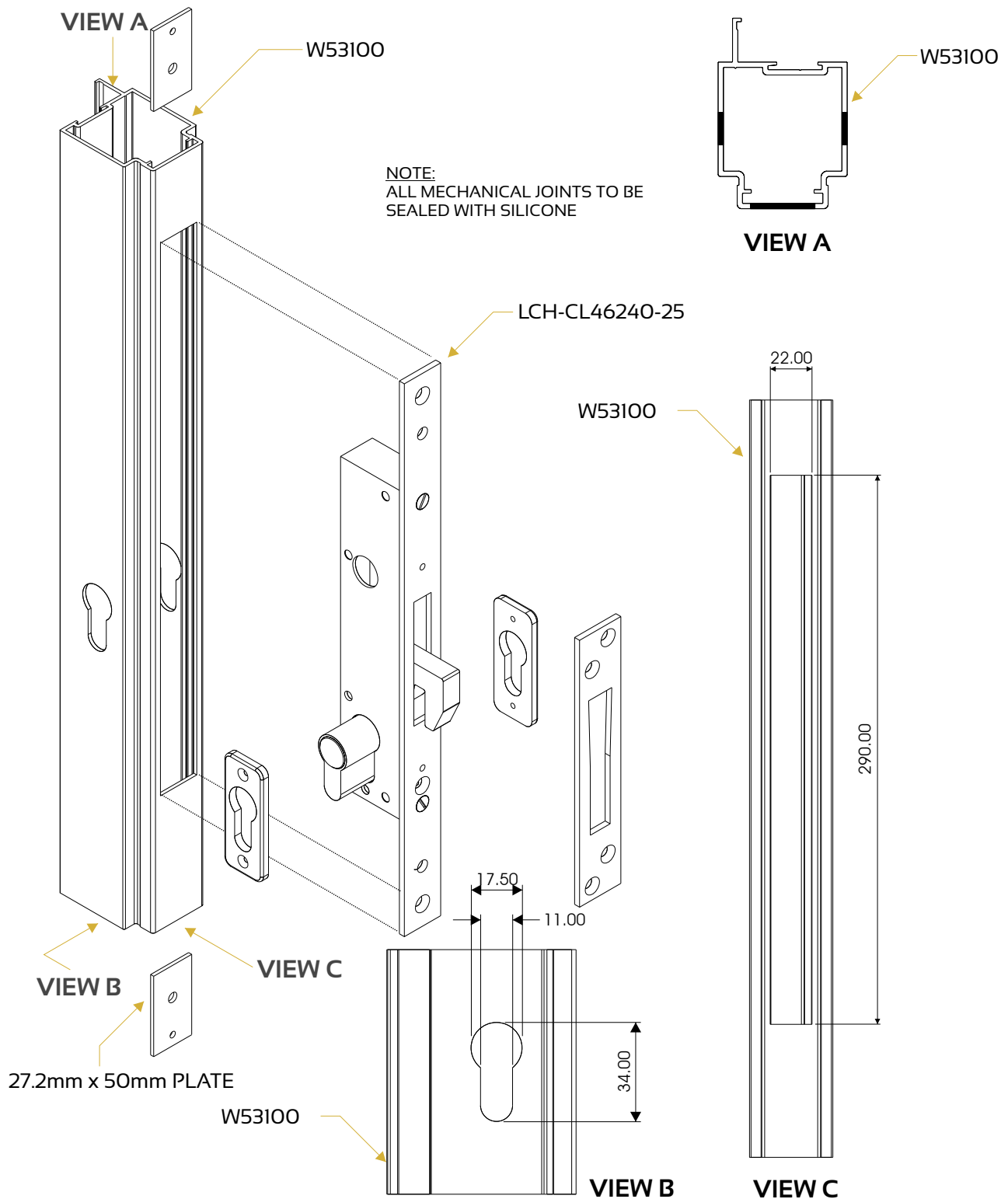


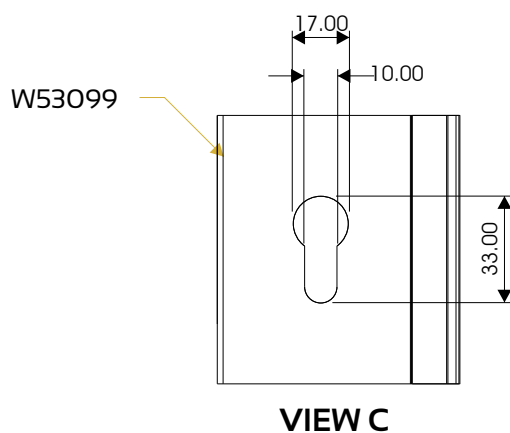
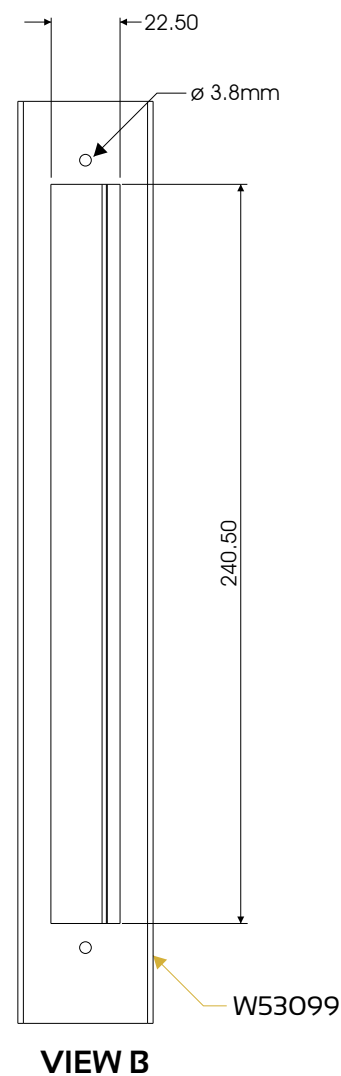
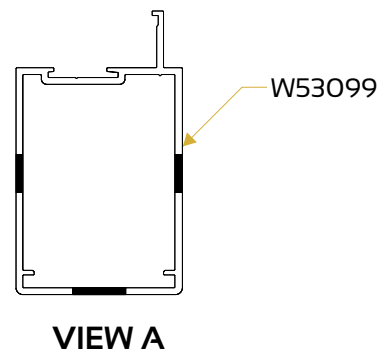
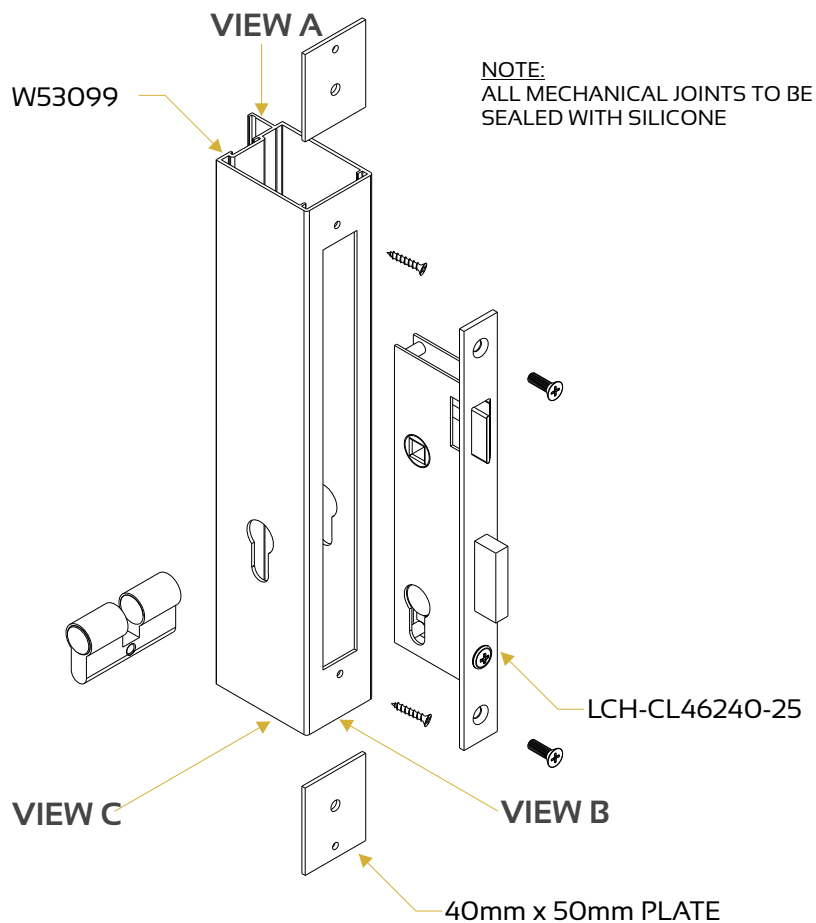
TO ACCEPT W44087
HEAD RAIL

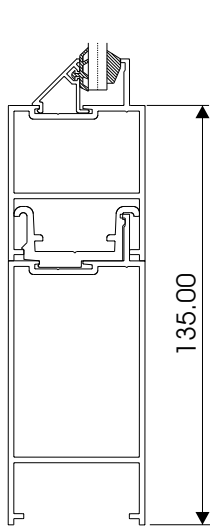


| SECTION | DIM A | DIM B |
|-----------------------|----------|----------|
| W44088 BOTTOM RAIL | 56.8 | 11 |
| W44094 BOTTOM RAIL | 123.2 | 50 |
| W44089 MIDRAIL | 76 | 30 |

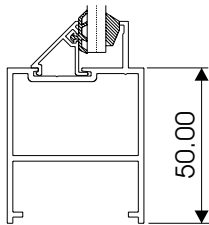




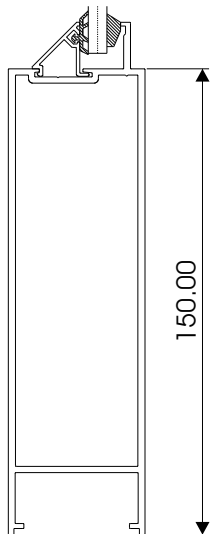




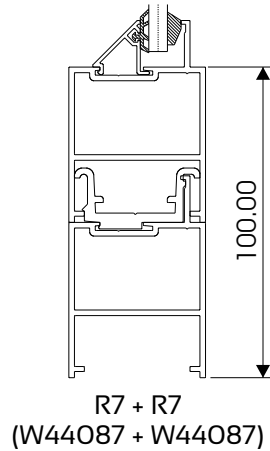
R7 + R4
(W44087 + W44088)



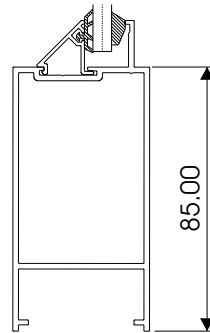
R7
(W44087)



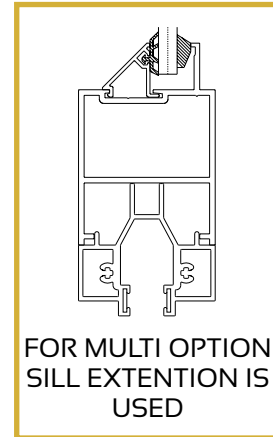
R6
(W44094)



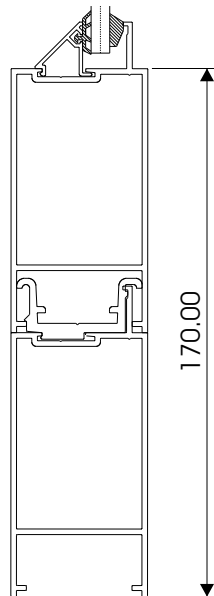
R7 + R7
(W44087 + W44087)



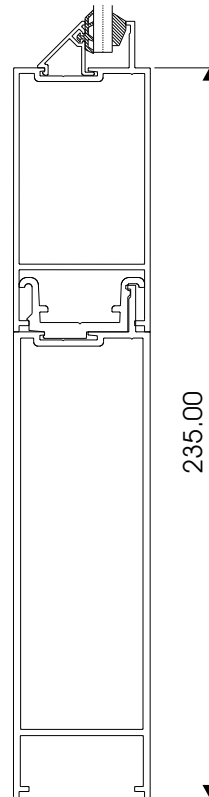
R4
(W44088)



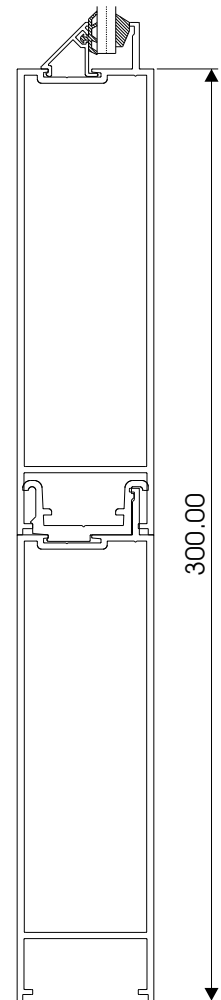
NOTE:
ALL MECHANICAL JOINTS TO BE
SEALED WITH SILICONE



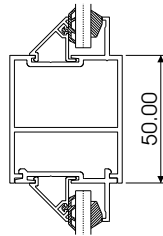
R4 + R4
(W44088 + W44088)



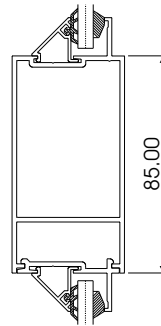
R4 + R6
(W44088 + W44094)



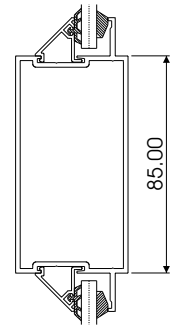
R4 + R6
(W44088 + W44094)



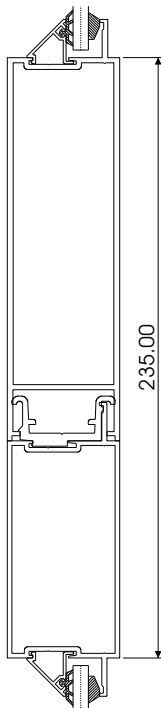
R7 + R4 FILLER
(W44087 + W26151)



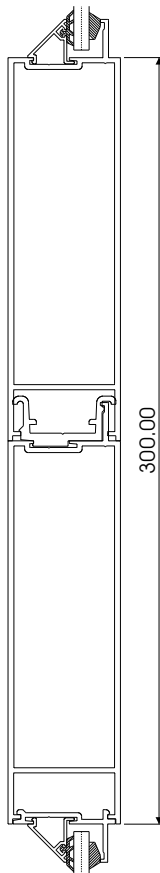
R4 + R4 FILLER
(W44088 + W26151)



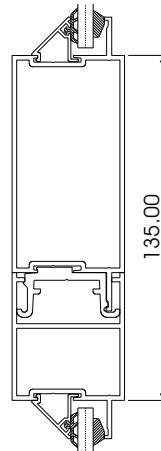
R4SP
(W44089)



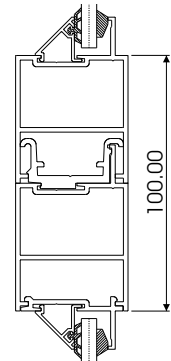
R6 + R4SP
(W44094 + W44089)



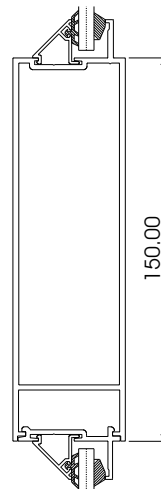
R6 + R6 + R4 FILLER
(W44094 + W44094 + W44094 +
W26151)



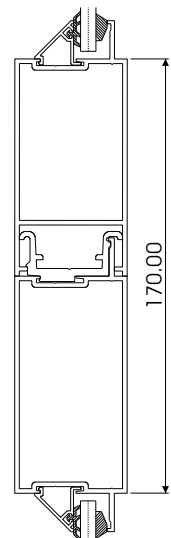
R7 + R4SP
(W44087 + W44089)



R7 + R7 + R4 FILLER
(W44087 + W44087 +
W26151)

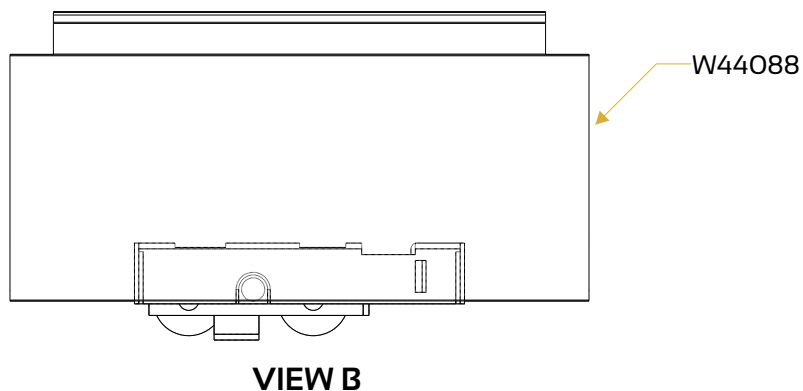
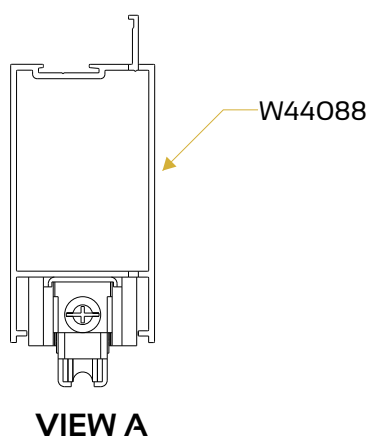
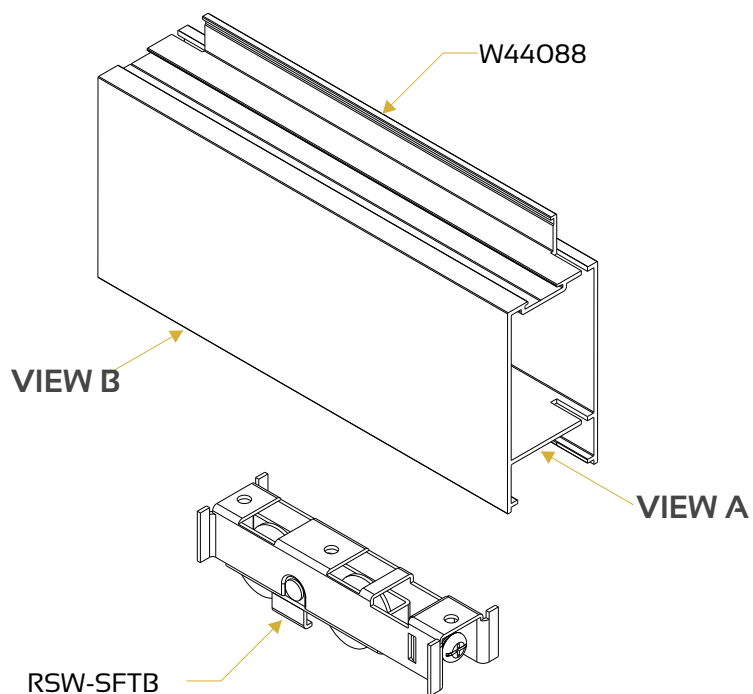


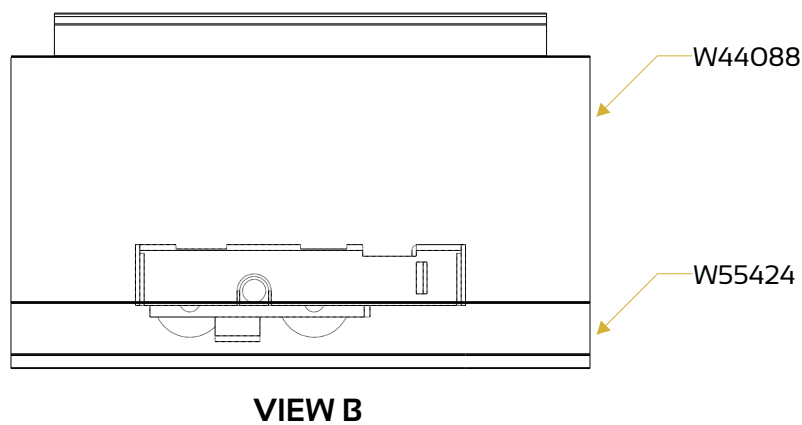
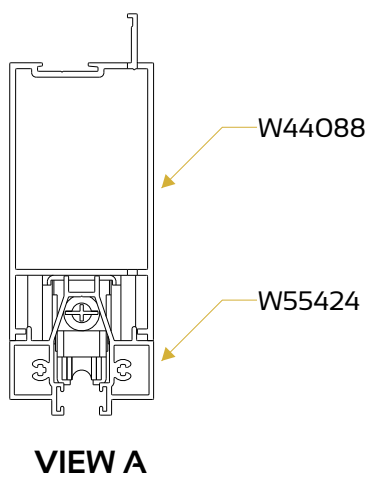
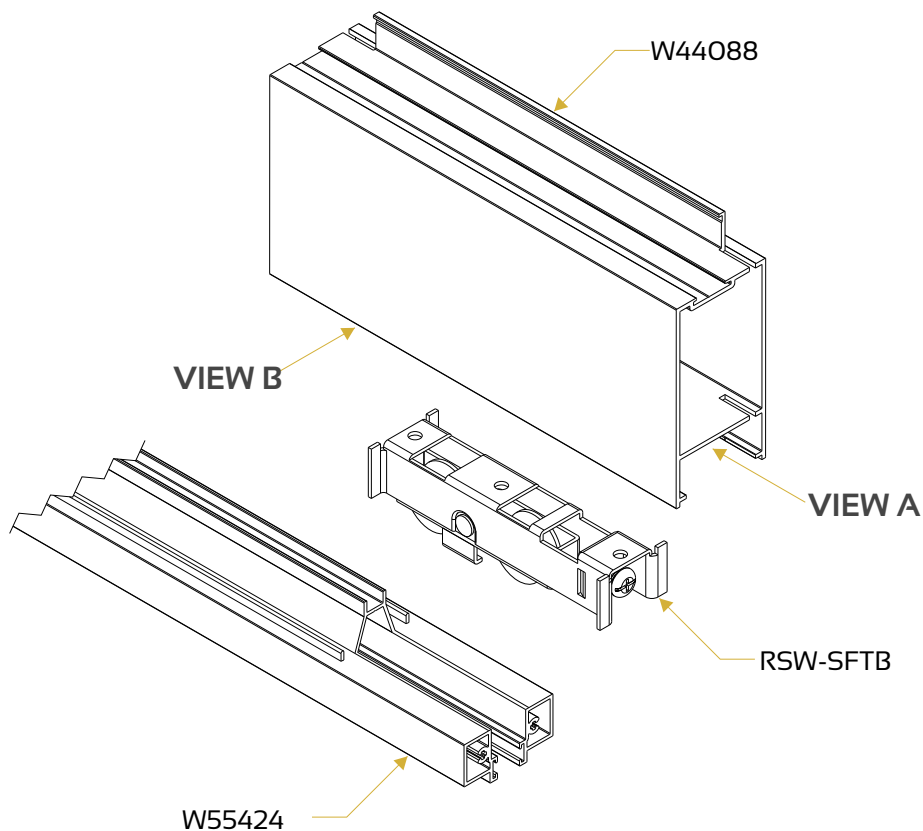
R6 + R4 FILLER
(W44094 + W26151)

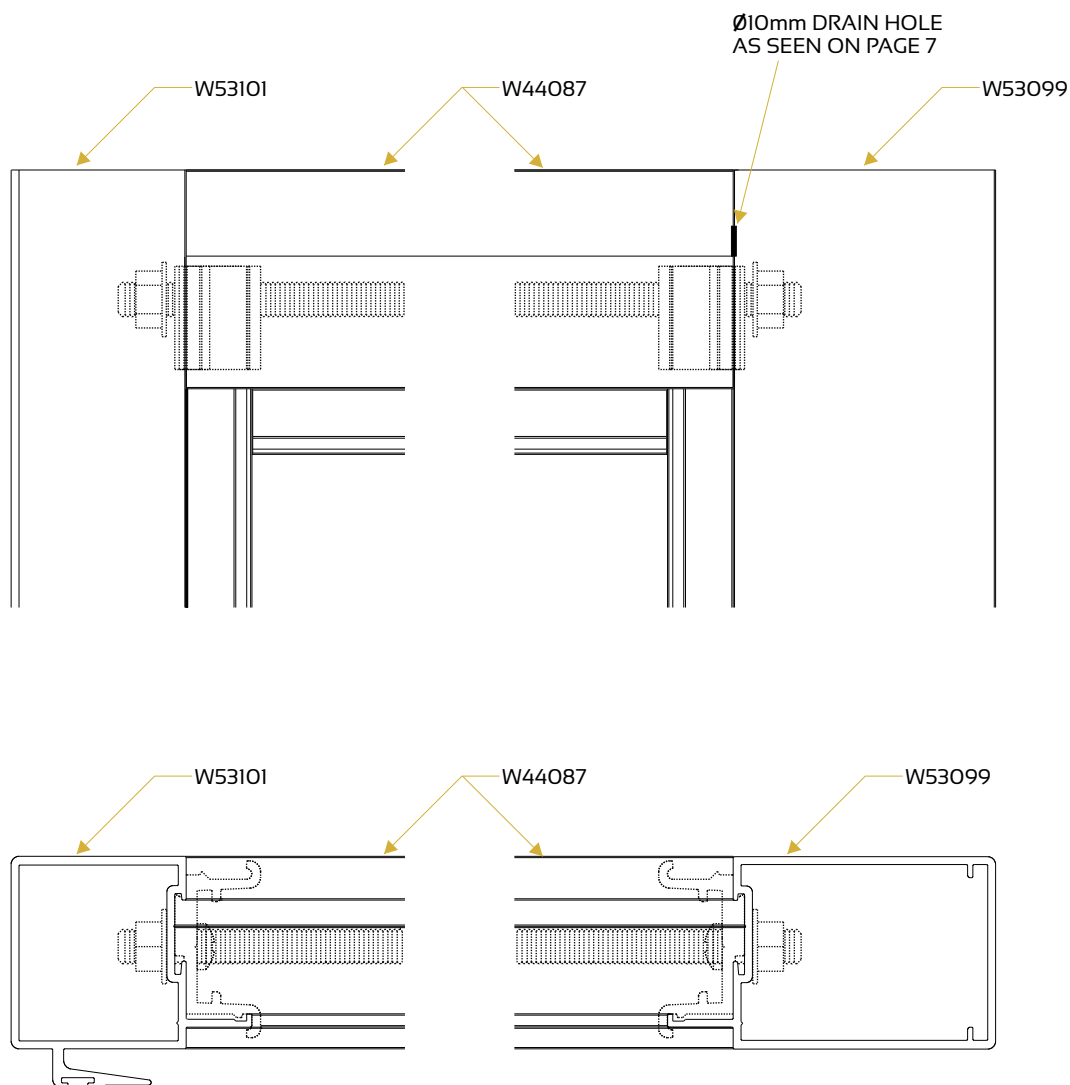


R4 + R4SP
(W44088 + W44089)

NOTE:
ALL MECHANICAL JOINTS TO BE
SEALED WITH SILICONE

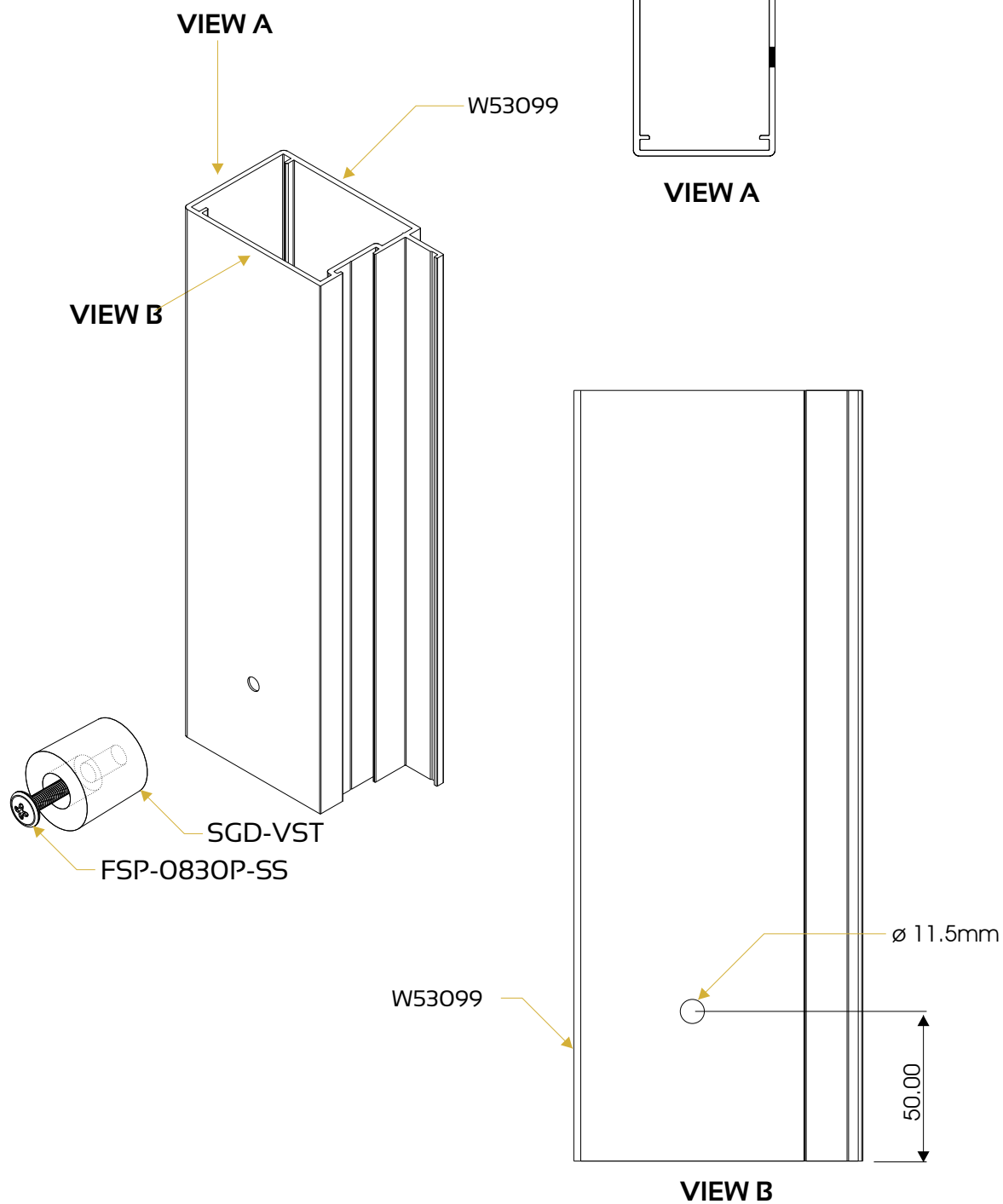




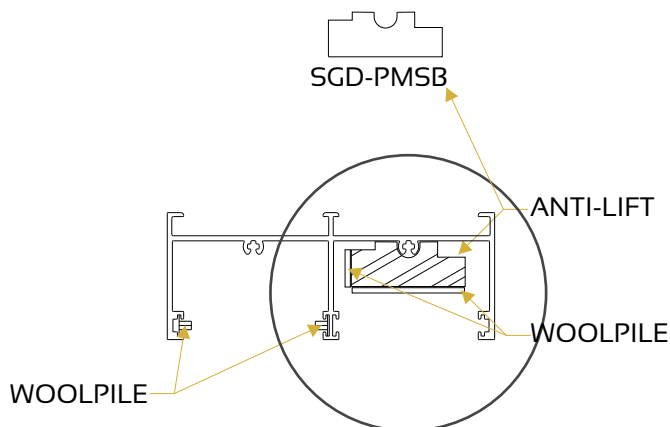
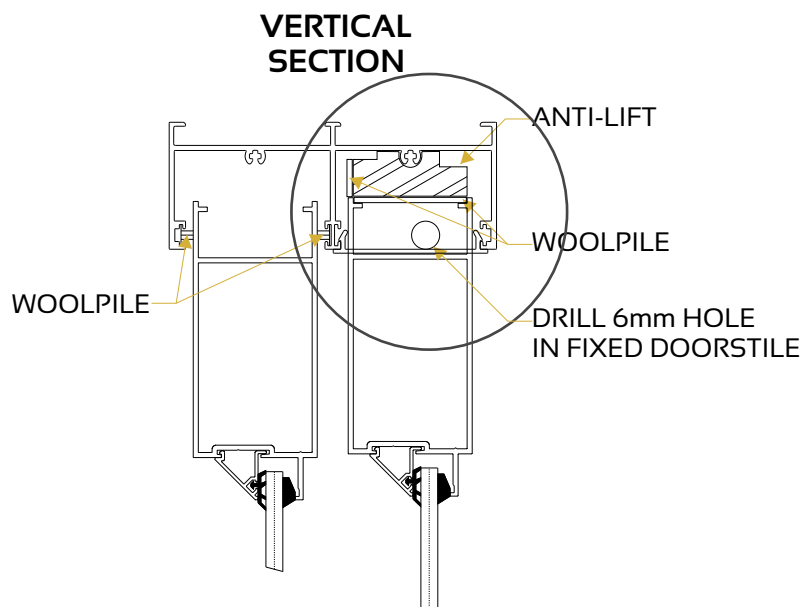


DETAIL TYPICAL TO HEAD AND SILL OF FIXED AND SLIDING LIGHTS

1. ATTACH SPIGOTS TO STILES WITH NO 8 FIXING SCREWS (FSP-0830P-SS)
2. FASTEN STILES TO TOP AND BOTTOM RAILS WITH NUTS (FSN-NTG8) AND THREADED RODS (FSN-TRG8). USE WASHERS (FSN-WHG8).
3. ENSURE ALL MATING JOINTS ARE BEDDED IN SEALANT BEFORE ASSEMBLY.



TO PASS A1 WATER AND WIND TEST A ANTI-LIFT WITH STICK ON WOOLPILE MUST BE SEALED IN ON TOP OF FIXED PANEL AT INTERLOCK AND A 6MM DRAINAGE HOLE AT FIXED DOORSTILE AT TOP



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.

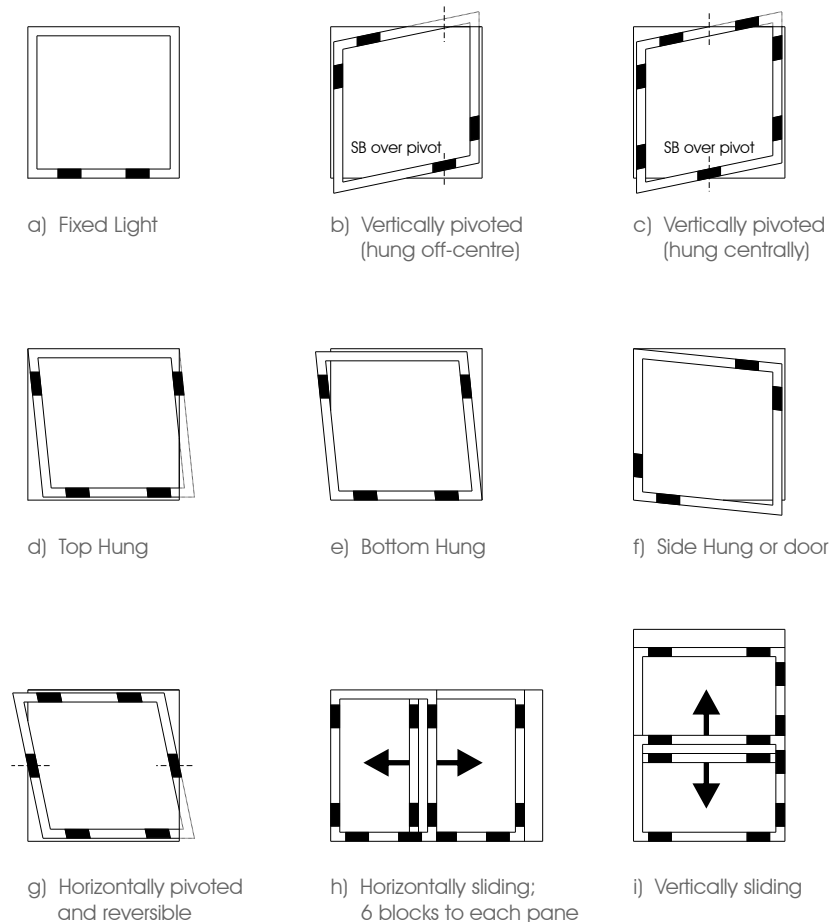


FIGURE 2 - POSITION OF SETTING AND LOCATION BLOCKS