

PRODUCT MANUAL

April 2022



CLIP 44™
Hinged 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 www.crealco.co.za 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.

****For Cleaning and Maintenance of this system please download the Wispeco Installation, Cleaning and Maintenance Procedures from the Crealco website (www.crealco.co.za).**

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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CLIP 44™ Hinged Door

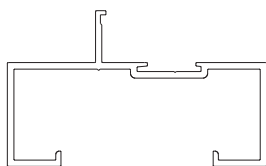


crealco

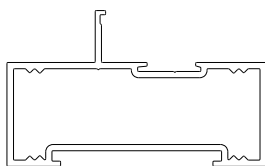
This manual must be read in conjunction with the Installation, Cleaning & Maintenance Document and the Performance Certificates for the relevant system. The manual must also be used in conjunction with the design and cutting list from the latest version of StarFront.

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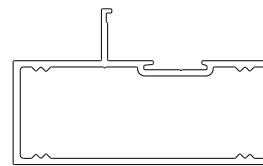
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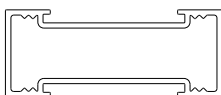
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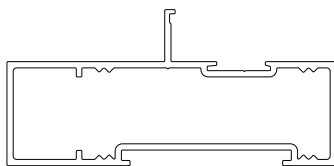
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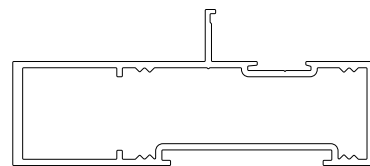
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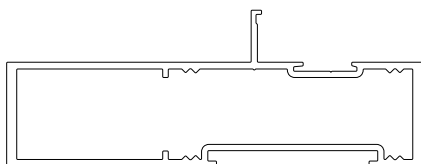
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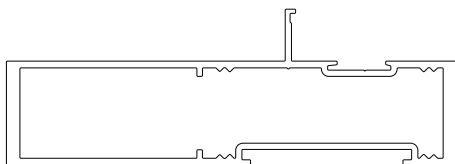
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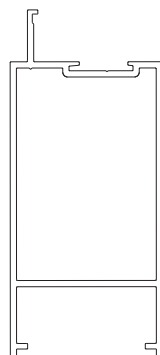
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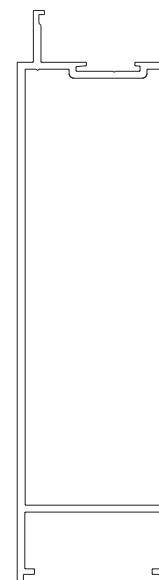
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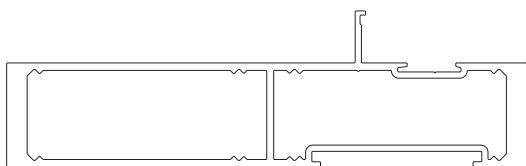
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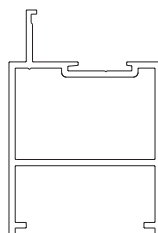
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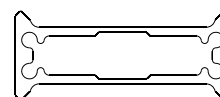
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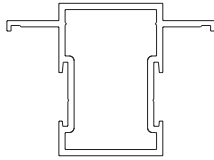


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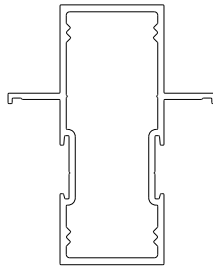
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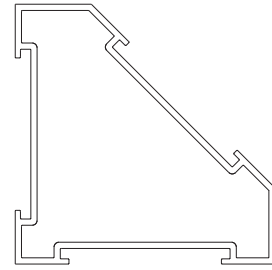
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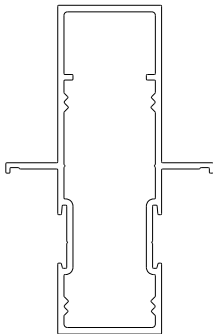
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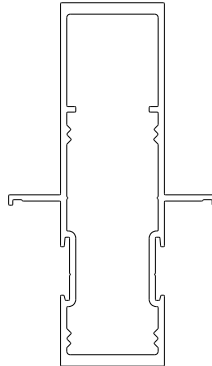
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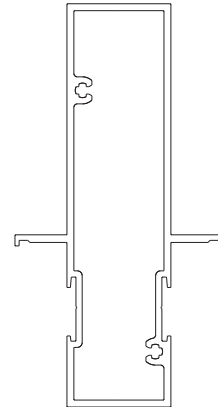
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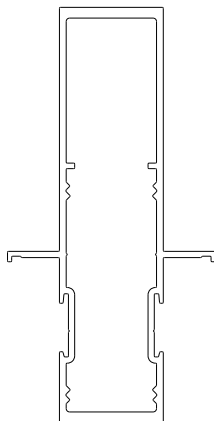
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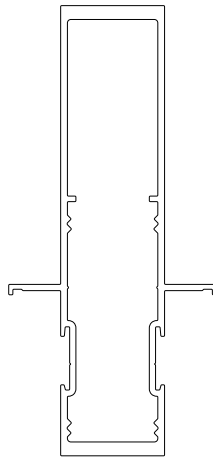
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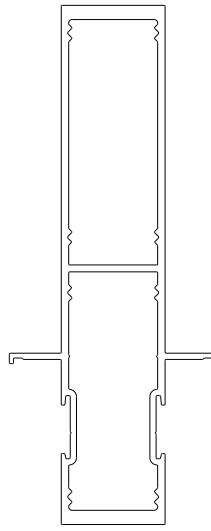
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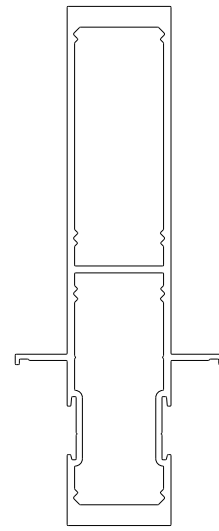
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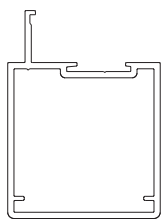
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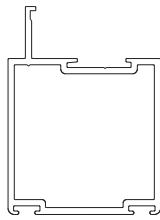
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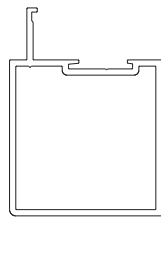
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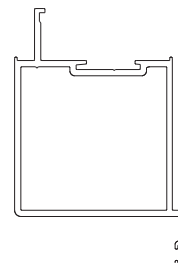
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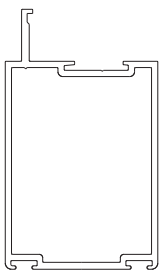
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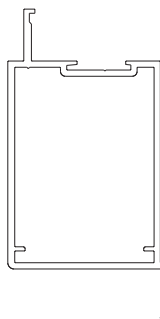
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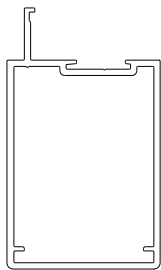
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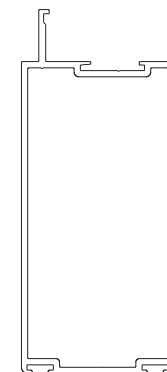
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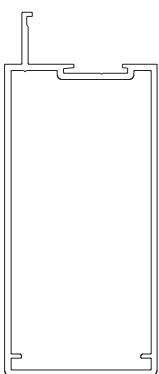
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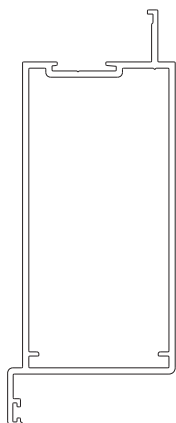
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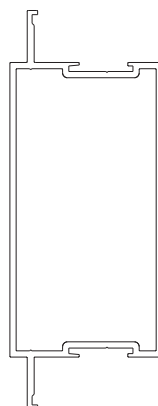
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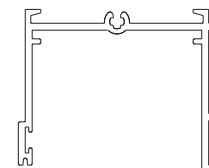
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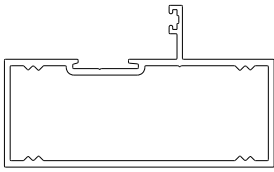
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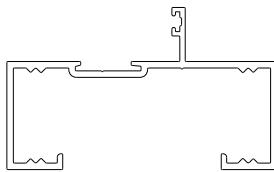
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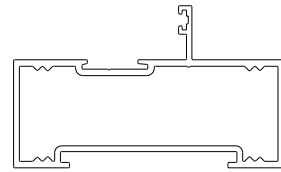
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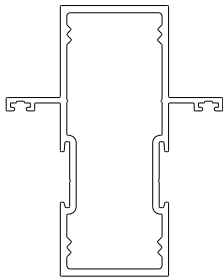
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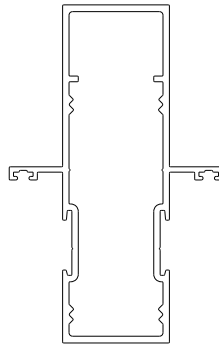
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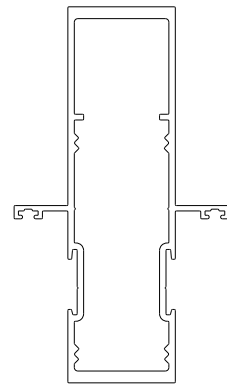
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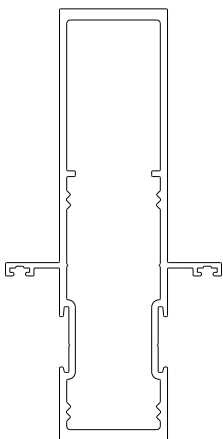
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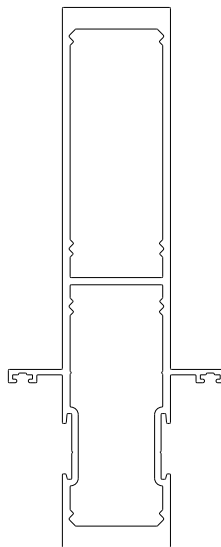
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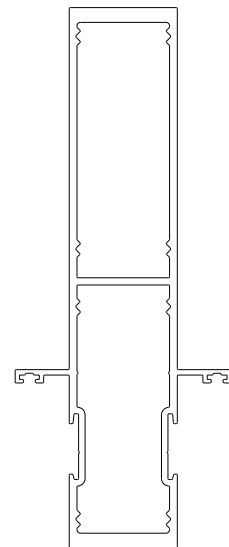
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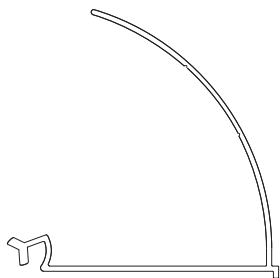
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Profile Identification

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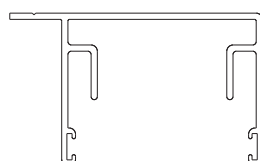
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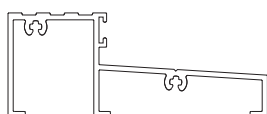
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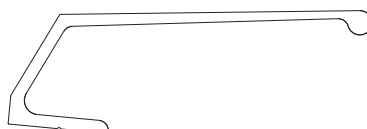
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DIE No. <W23224> Clip44 Channel Compensating



DIE No. <W26155> Clip44 Door End Style For Pivot



DIE No. <W29247> Clip44 Colonial Bar



DIE No. <W27934> Clip44 R19 Special Cladding



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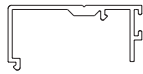
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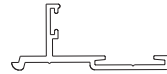
Clip44 Hinged Window Profiles



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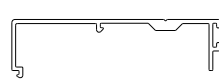
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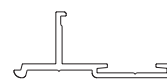
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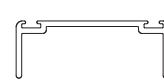
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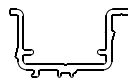
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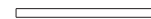
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DIE No. <W26152> Clip44 Channel Spigot



DIE No. W33921A Clip44 Spigot



DIE No. <W25029> Clip44 40mm Cover Plate



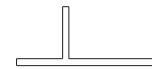
DIE No. <W26151> Clip44 R4 Filler Adaptor



DIE No. <W25022> Clip44 Sliding Door Stop Astragal



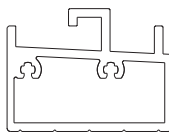
DIE No. <W27921> Clip44 Astragal With Woolpile



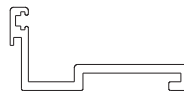
DIE No. <W26093> Clip44 R4 Sill End Filler



DIE No. <W25048> Clip44 Sill Adaptor



DIE No. <W53448> Clip44 Sill Drainage



DIE No. <W27522> Clip44 Sill Drainage Adaptor

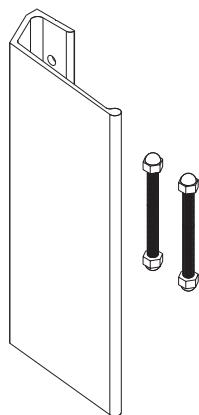


DIE No. <W26282> Clip44 Floor Track

Hardware Components

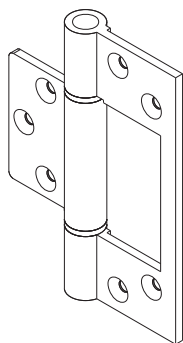
RECOMMENDED CLIP44 HARDWARE COMPONENTS

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



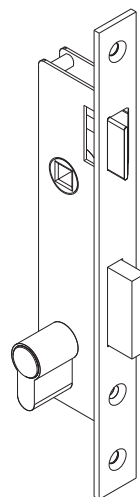
<HND26464NFG>

Shop Handle



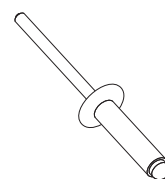
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Alufab Hinge



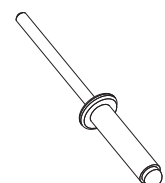
<CL44620/25>

CISA Latch Lock



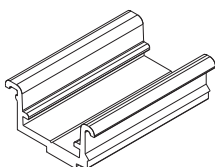
<CSKR410>

C/Sunk Rivet



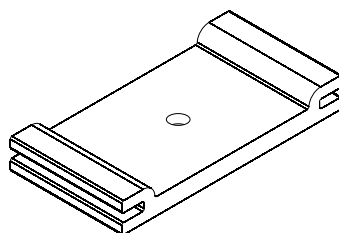
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Pop Rivet 4.8x12mm



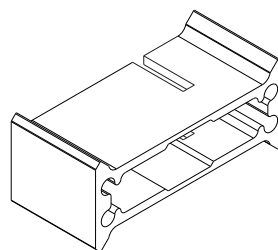
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<LGS-FS-72.7>
<LGS-FS-55.3>
<LGS-FS-20.5>
<LGS-FS-17.7>

Clip44 Frame Spigot



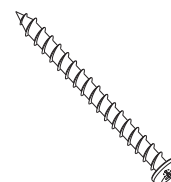
W36880

Clip 44 Lock Fixing Plate



<LGS-BS>

Box Spigot 4x5/Port



<STPP5840>

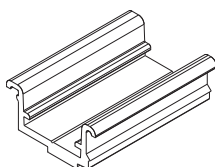
8x40 P/Head POSI 5/5 Screw



<WSH8MM>

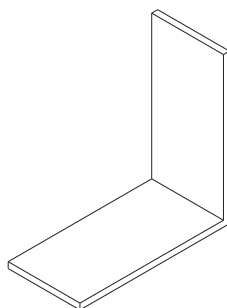
<NVT8MM>

<TR8MM>



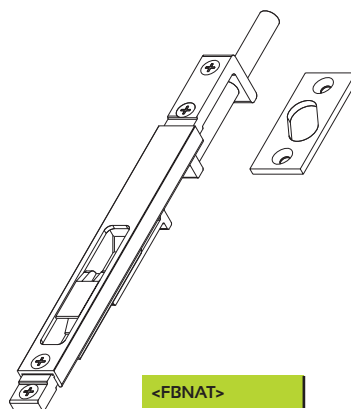
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<LGS-D5-98.3>
<LGS-D5-58.3>
<LGS-D5-23.5>

Clip44 Door Spigot



<LGS-AFS-25>

44,45X22,22X2,03



<FBNAT>

Flush Bolt



<WO1G>

<WO2B>

<WO3R>

<WO4Y>

<WO5P>

Wedge Gasket



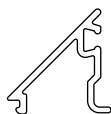
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Butterfly Gasket

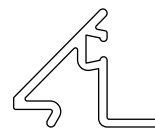


BUTTERFLY GASKET

● — <B01O>



<W31142> BEAD



<W30468> BEAD



● — <W01G>



● — <W02B>

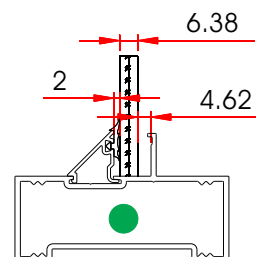
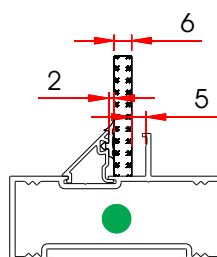
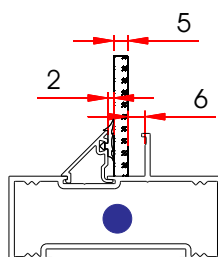
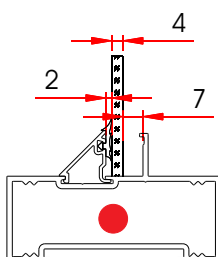


● — <W03R>

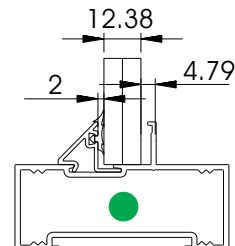
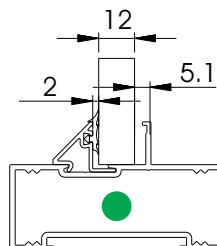
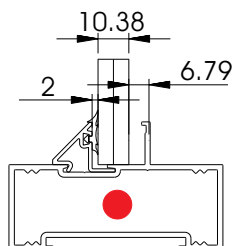
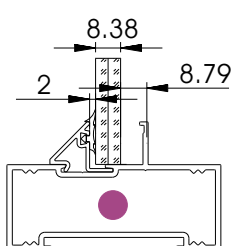


● — <W05P>

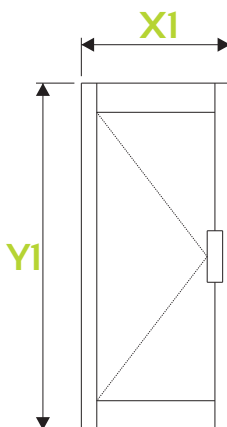
WEDGES



CLIP 44 WITH <W31142> BEAD



CLIP 44 WITH <W30468> BEAD



WHEN USING 45mm DOOR JAMB (EG. <W44085> - R1 DOOR JAMB)

MAXIMUM DOOR LEAF WIDTH: X1 = 900mm
MAXIMUM DOOR LEAF HEIGHT: Y1 = 2200mm

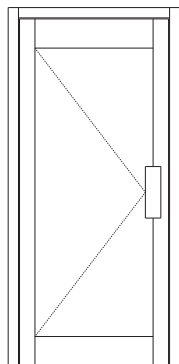
WHEN USING 60mm DOOR JAMB (EG. <W53666> - R1IW DOOR JAMB)

MAXIMUM DOOR LEAF WIDTH: X1 = 1000mm
MAXIMUM DOOR LEAF HEIGHT: Y1 = 2400mm

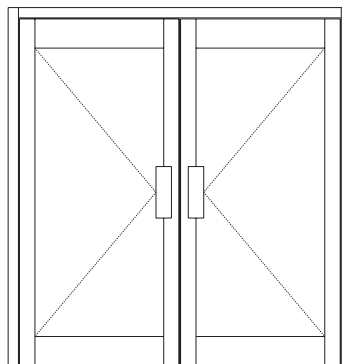
WHEN USING 90mm DOOR JAMB (EG. <W53407> - R9W DOOR JAMB)

MAXIMUM DOOR LEAF WIDTH: X1 = 1100mm
MAXIMUM DOOR LEAF HEIGHT: Y1 = 2600mm

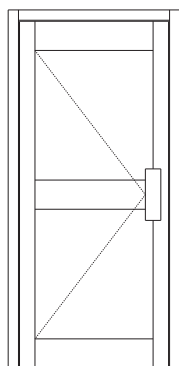
SINGLE HINGED DOOR



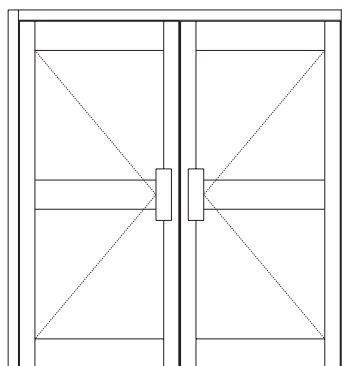
DOUBLE HINGED DOOR



SINGLE HINGED DOOR
WITH MIDRAIL



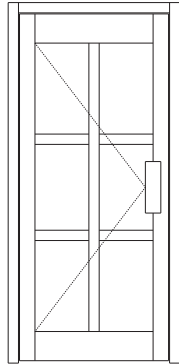
DOUBLE HINGED DOOR
WITH MIDRAIL



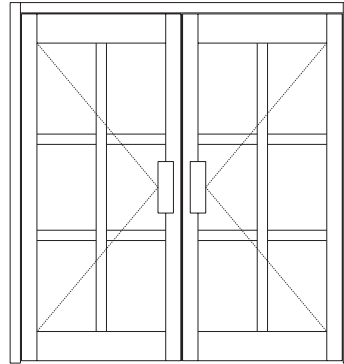
Typical Configurations

Standard Hinged Cottage Pane Door

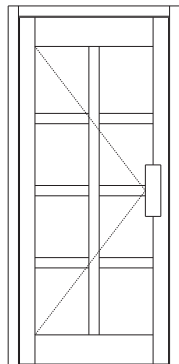
SINGLE COTTAGE PANE
HINGED DOOR (2 x 3 PANE)



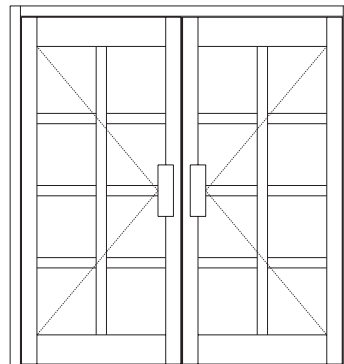
DOUBLE COTTAGE PANE
HINGED DOOR (2 x 3 PANE)

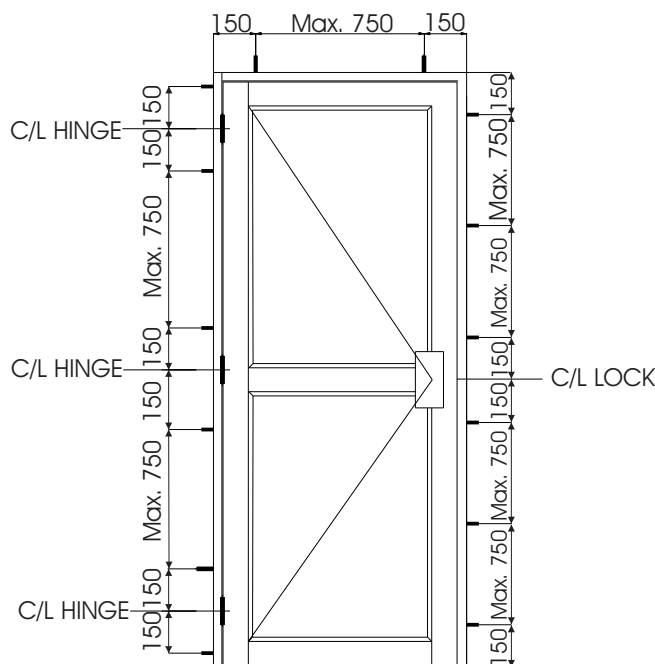


SINGLE COTTAGE PANE
HINGED DOOR (2 x 4 PANE)

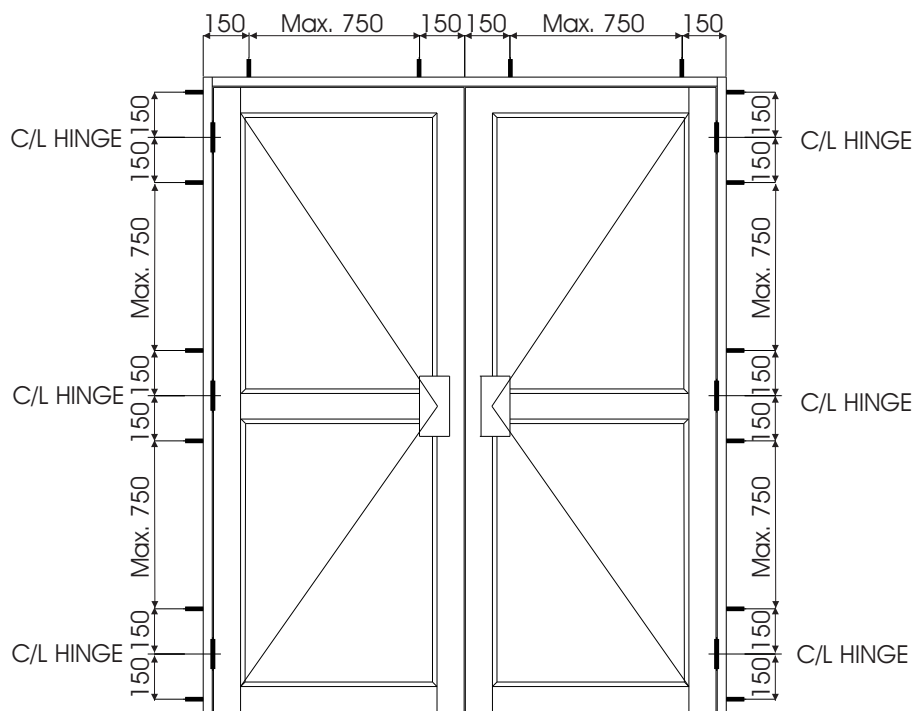


DOUBLE COTTAGE PANE
HINGED DOOR (2 x 4 PANE)





TYPICAL SINGLE DOOR

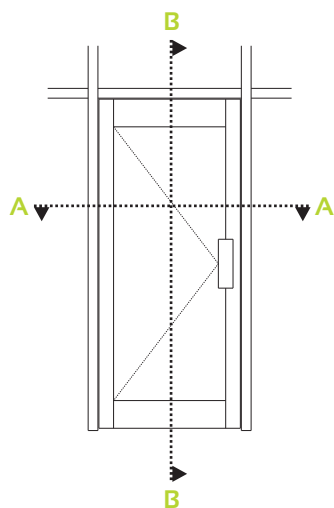


TYPICAL DOUBLE DOOR

PRODUCT MANUAL

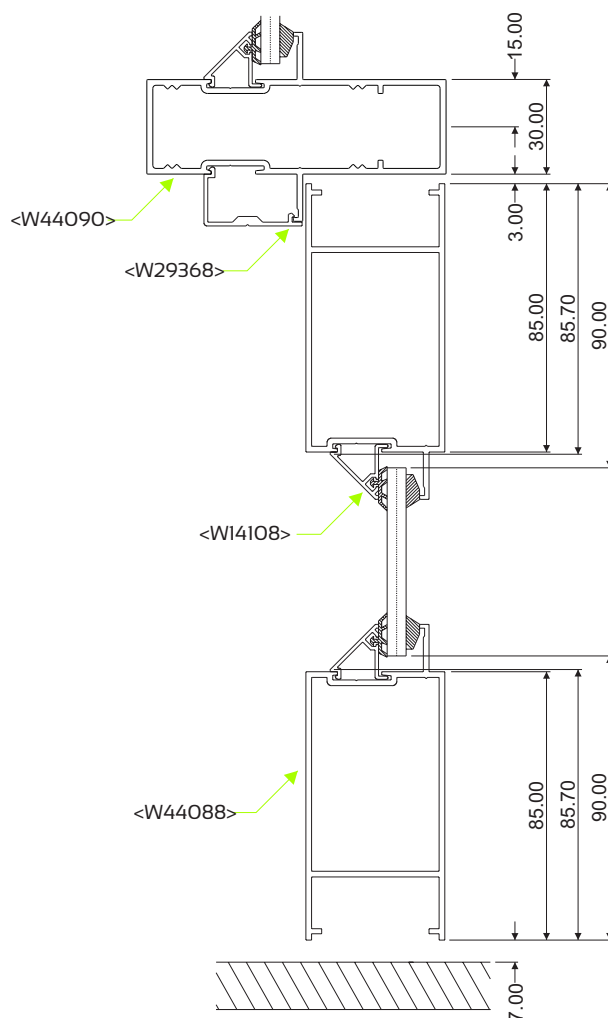
Cross-Sectional Detail

Single Inward Opening Hinged Door



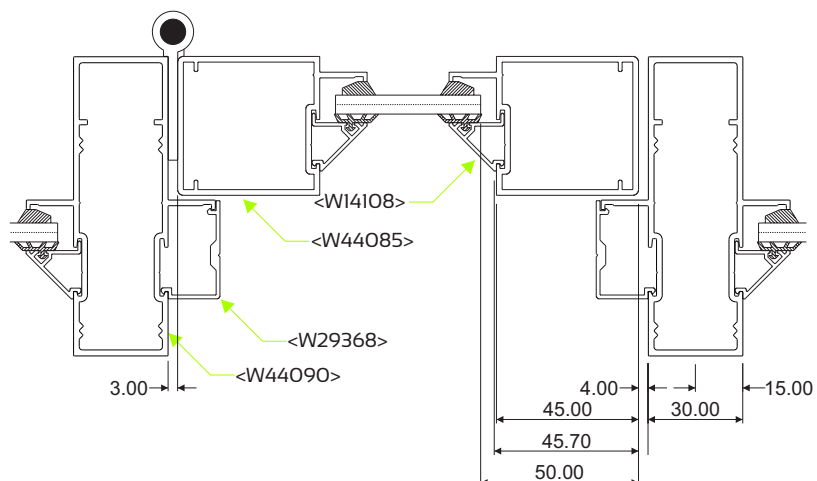
SECTION B-B

Section not to scale



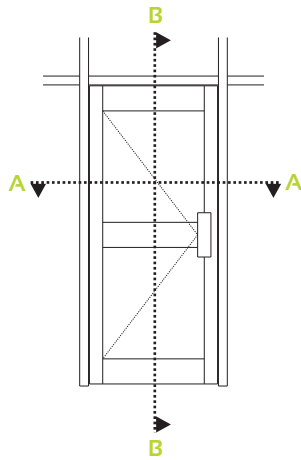
SECTION A-A

Section not to scale



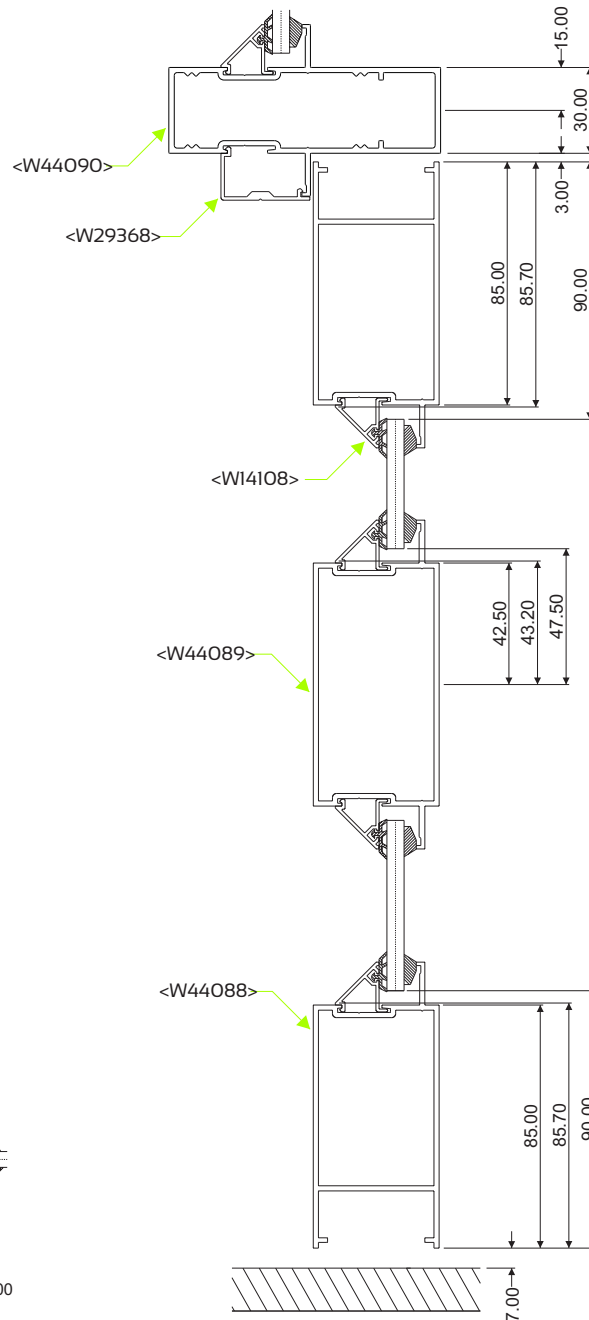
Cross-Sectional Detail

Single Inward Opening Hinged Door with Midrail



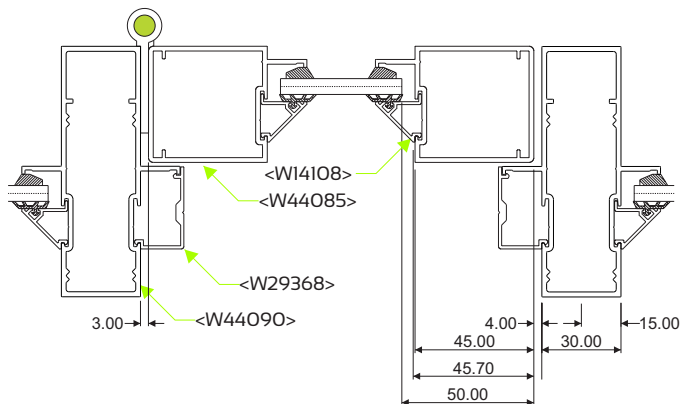
SECTION B-B

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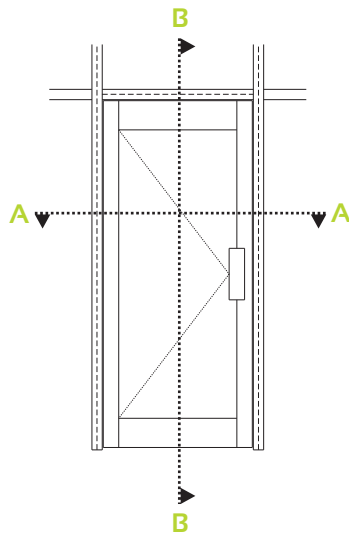
SECTION A-A

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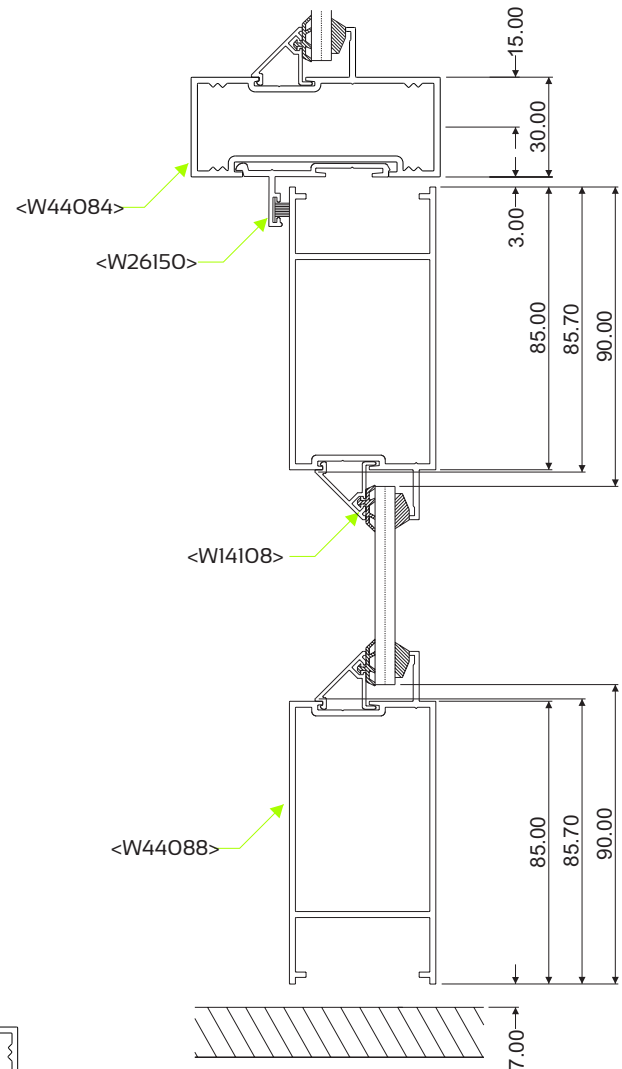
Cross-Sectional Detail

Single Inward Opening Hinged Door in Adaptor Frame



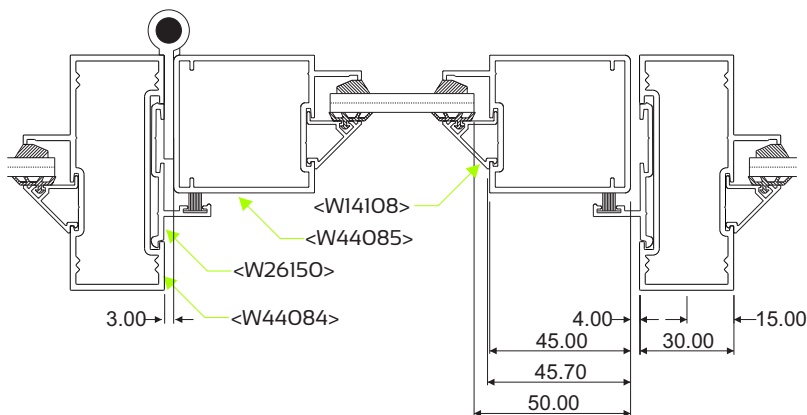
SECTION B-B

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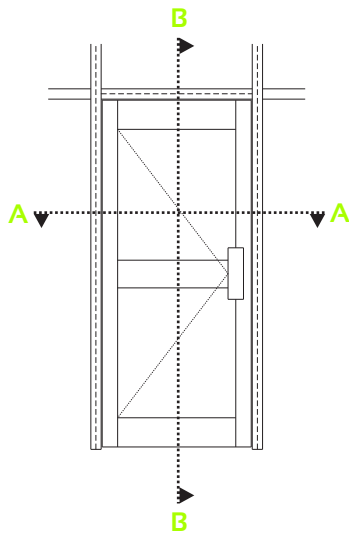
SECTION A-A

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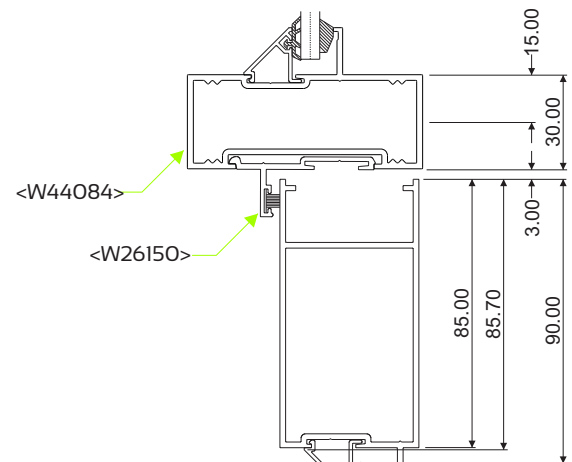


Cross-Sectional Detail

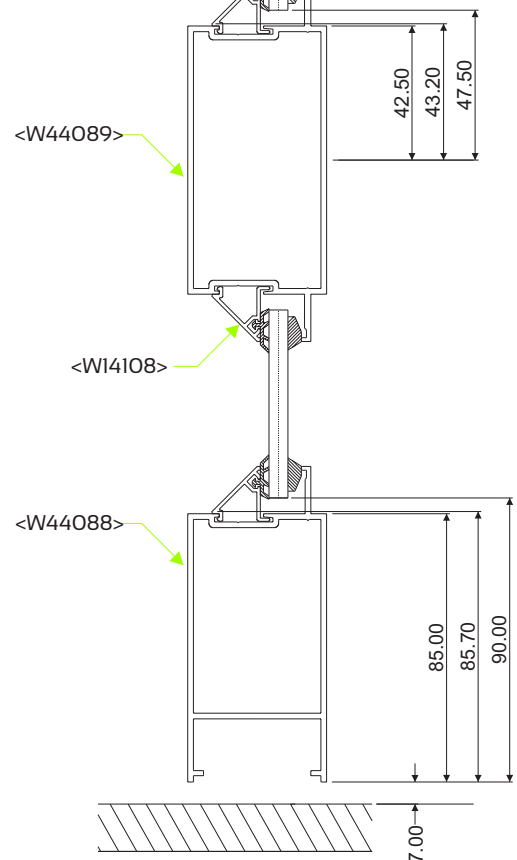
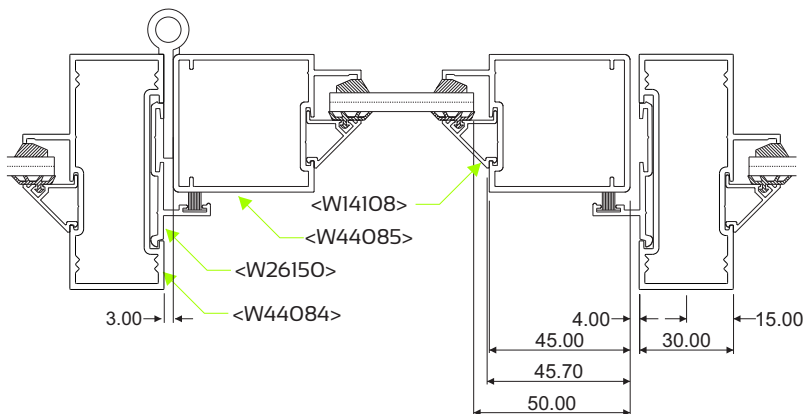
Single Inward Opening Hinged Door with Midrail in Adaptor Frame



SECTION B-B
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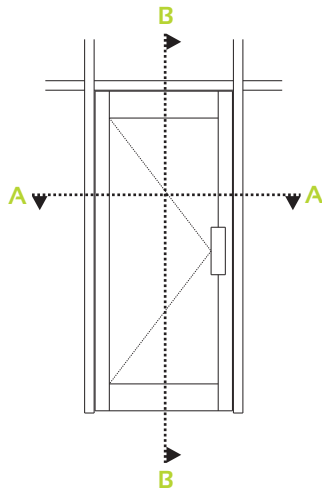


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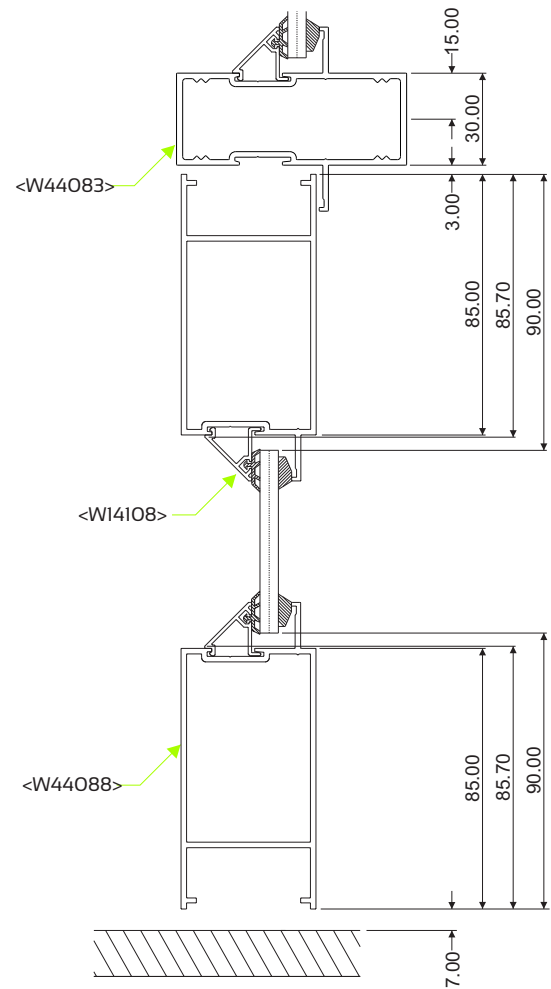
Cross-Sectional Detail

Single Outward Opening Hinged Door



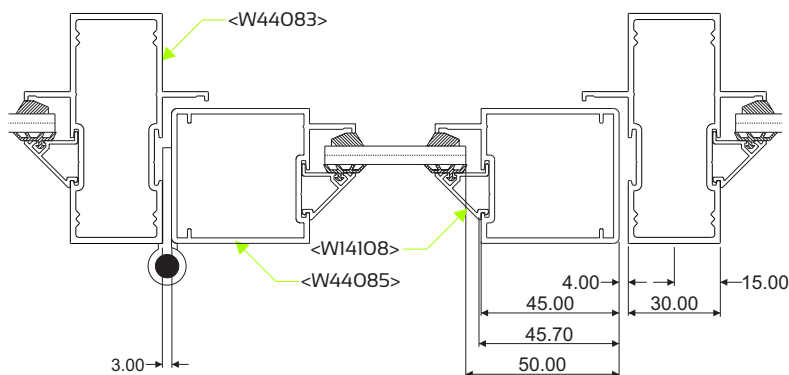
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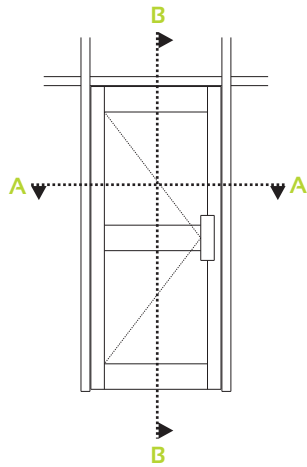
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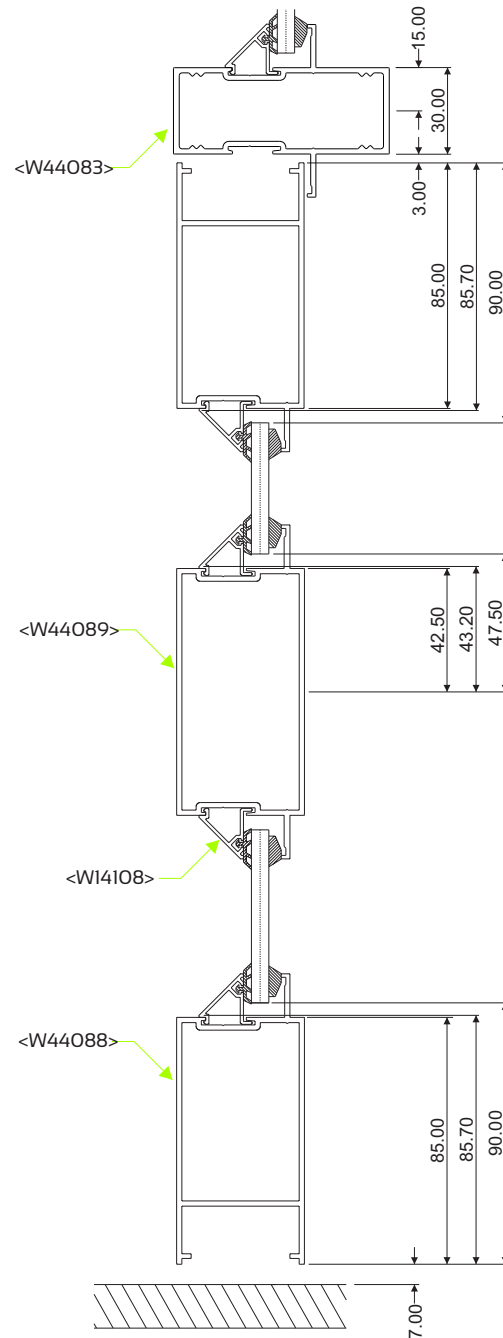
Cross-Sectional Detail

Single Outward Opening Hinged Door with Midrail



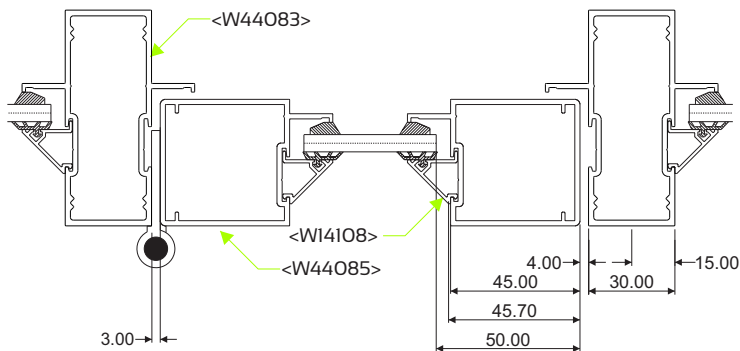
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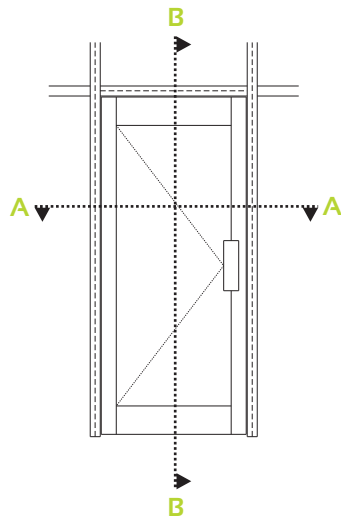
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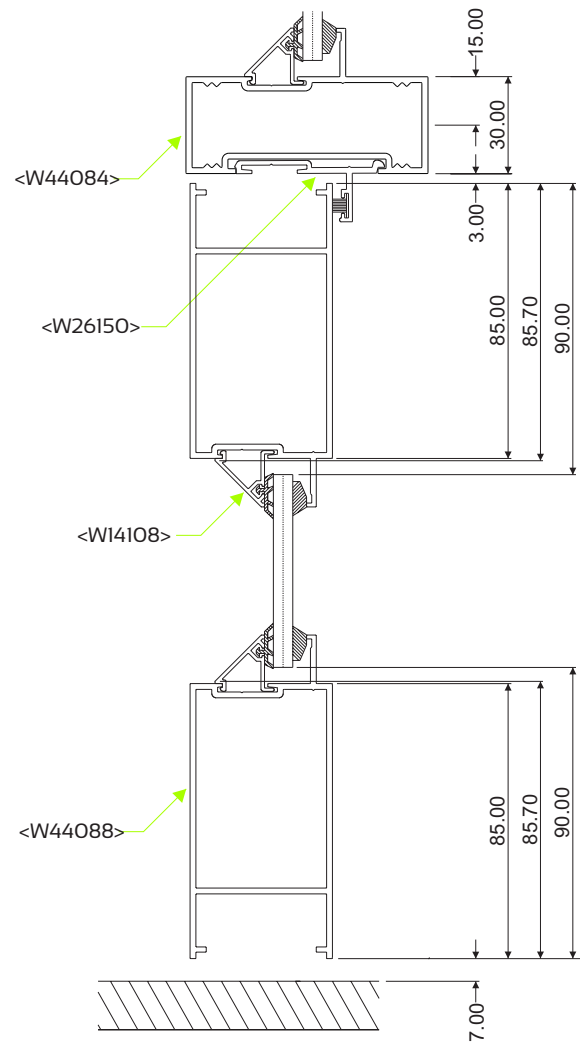


Cross-Sectional Detail

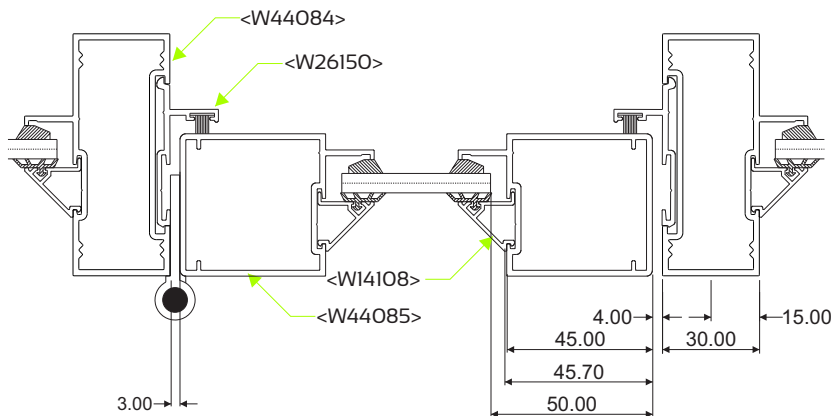
Single Outward Opening Hinged Door In Adaptor Frame



SECTION B-B
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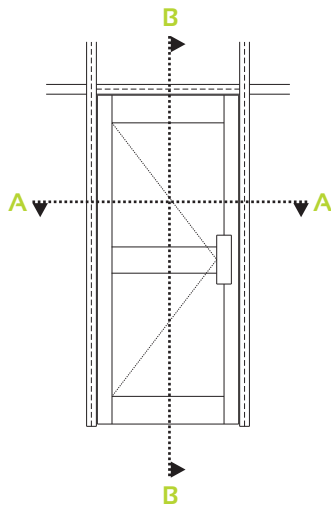


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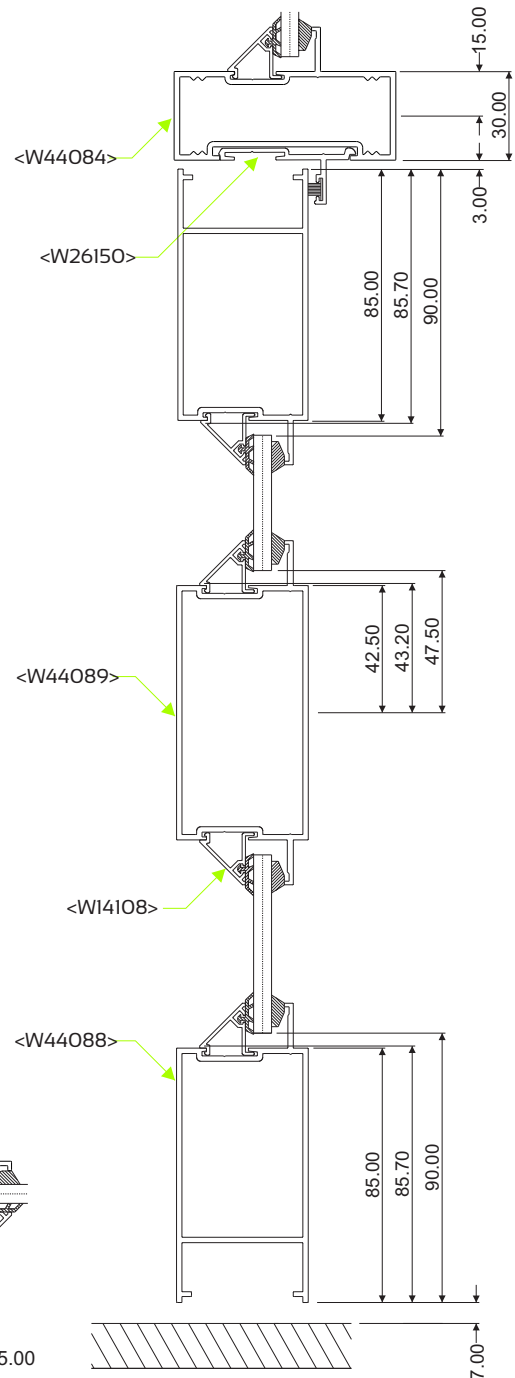


Cross-Sectional Detail

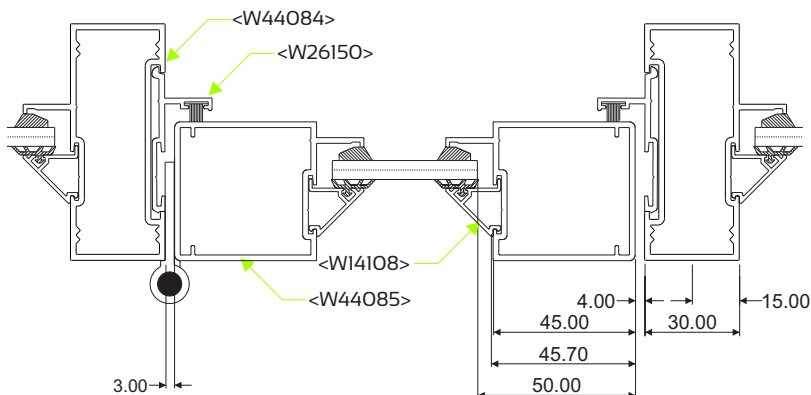
Single Outward Opening Hinged Door With Midrail In Adaptor Frame



SECTION B-B
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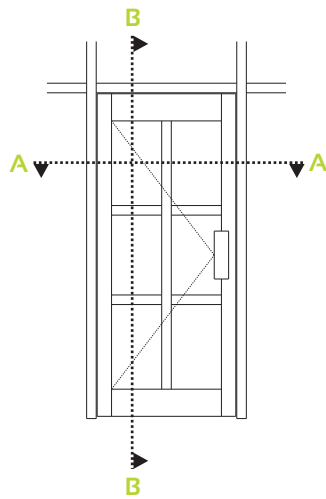


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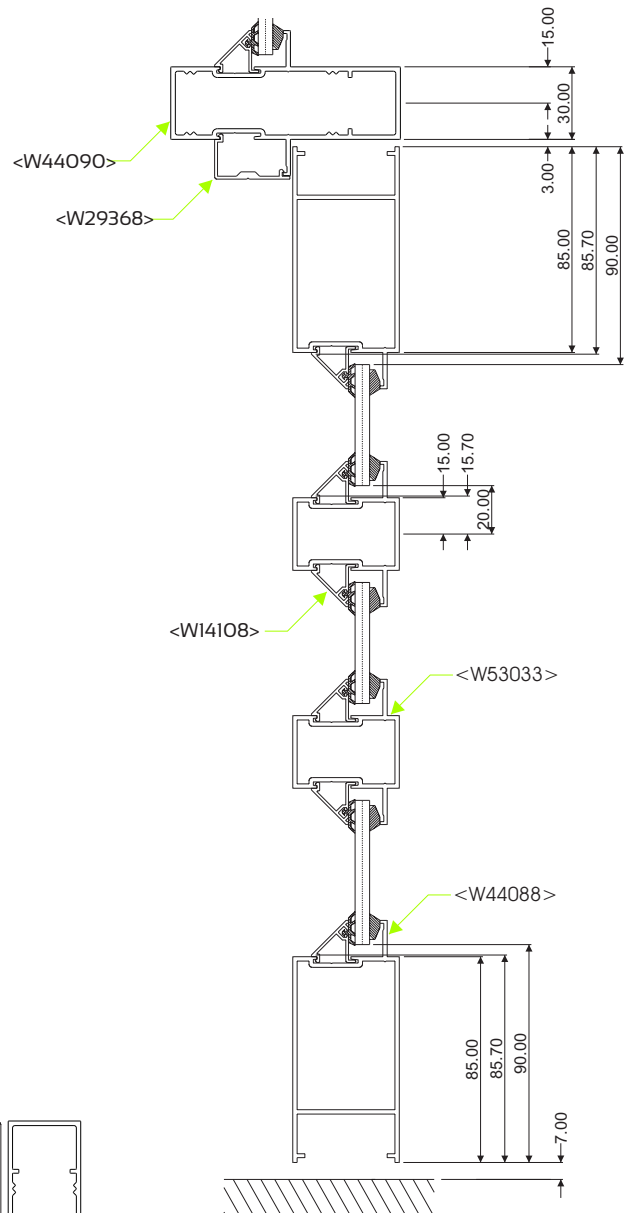


Cross-Sectional Detail

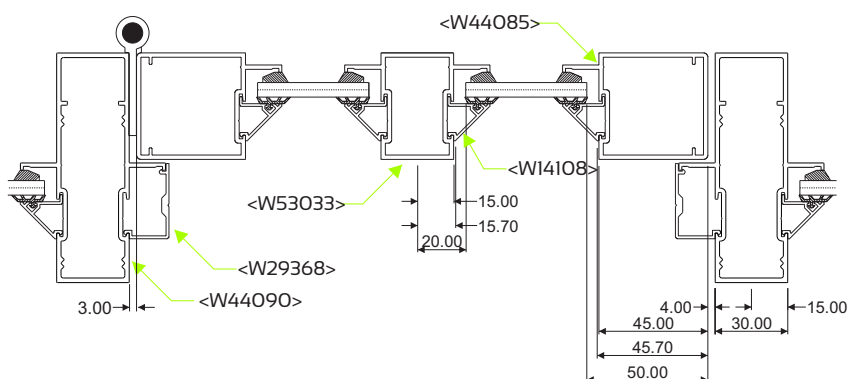
Single Inward Opening Cottage Pane Hinged Door

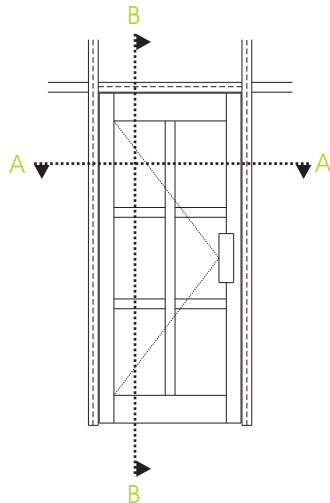


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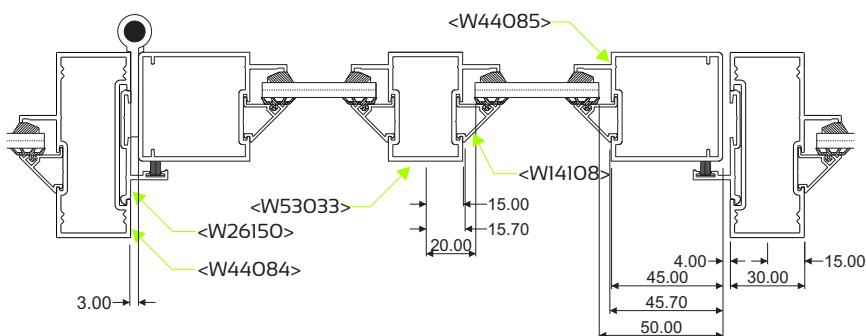


SECTION A-A
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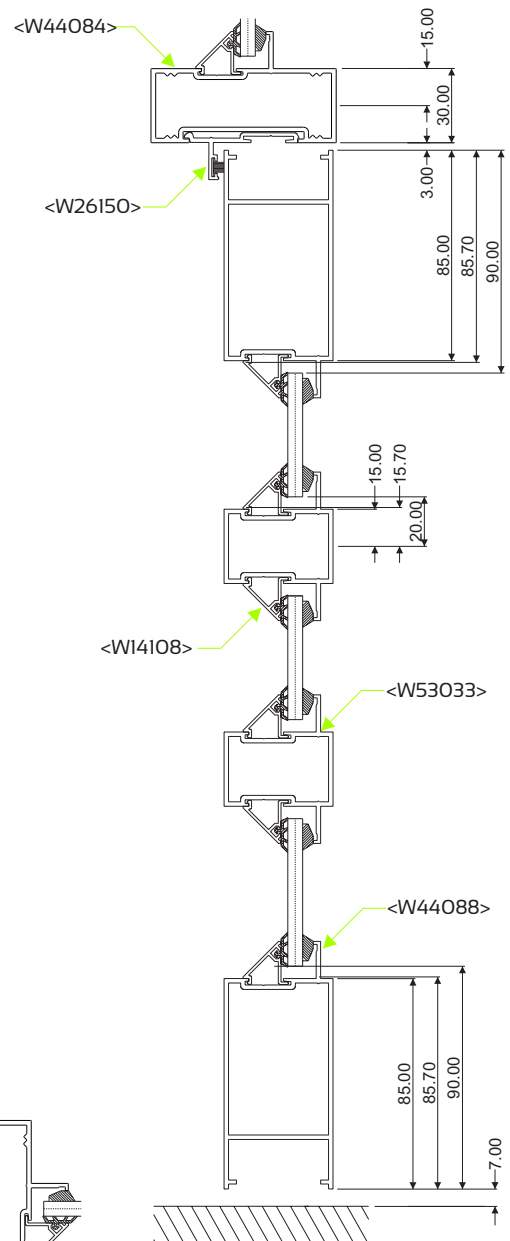




SECTION A-A
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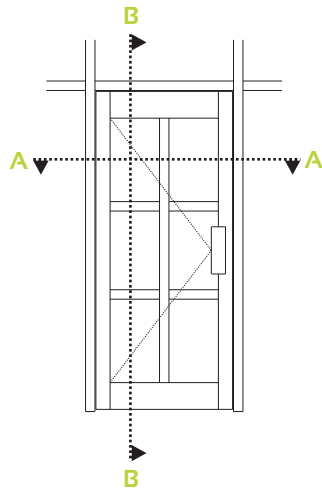


SECTION B-B
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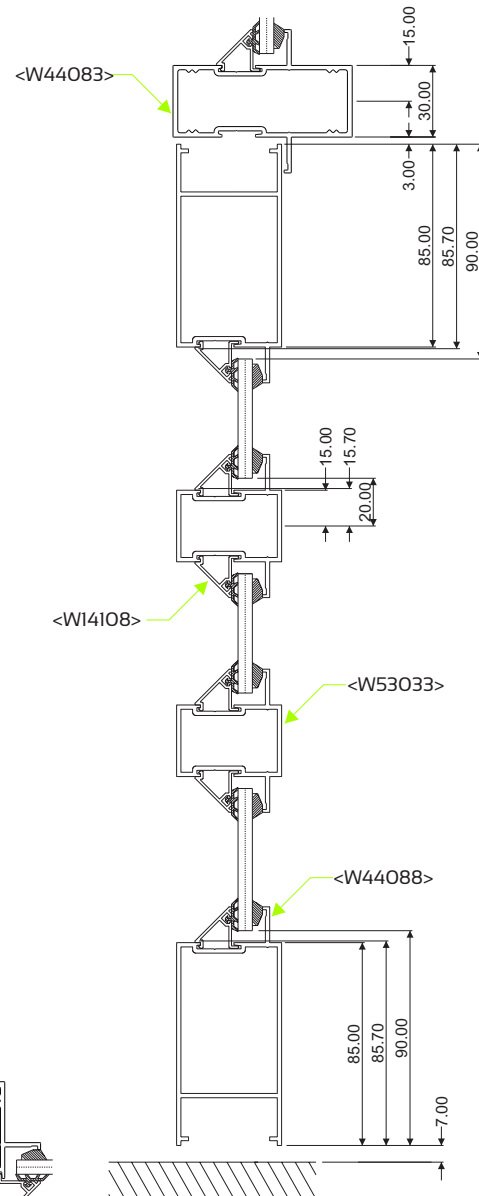


Cross-Sectional Detail

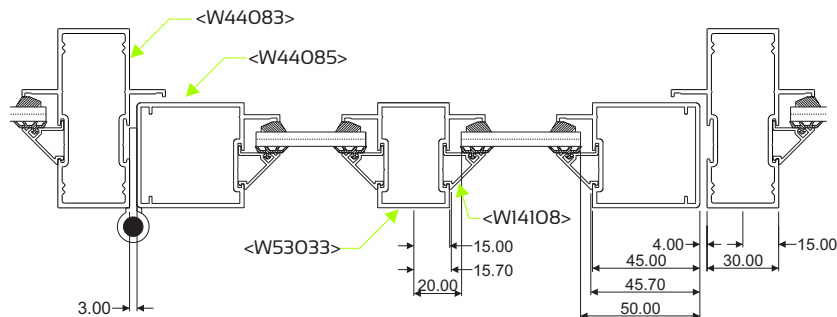
Single Outward Opening Cottage Pane Hinged Door

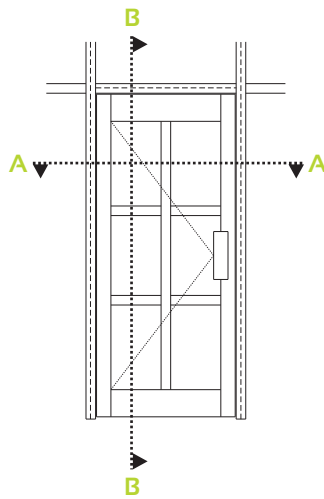


SECTION B-B
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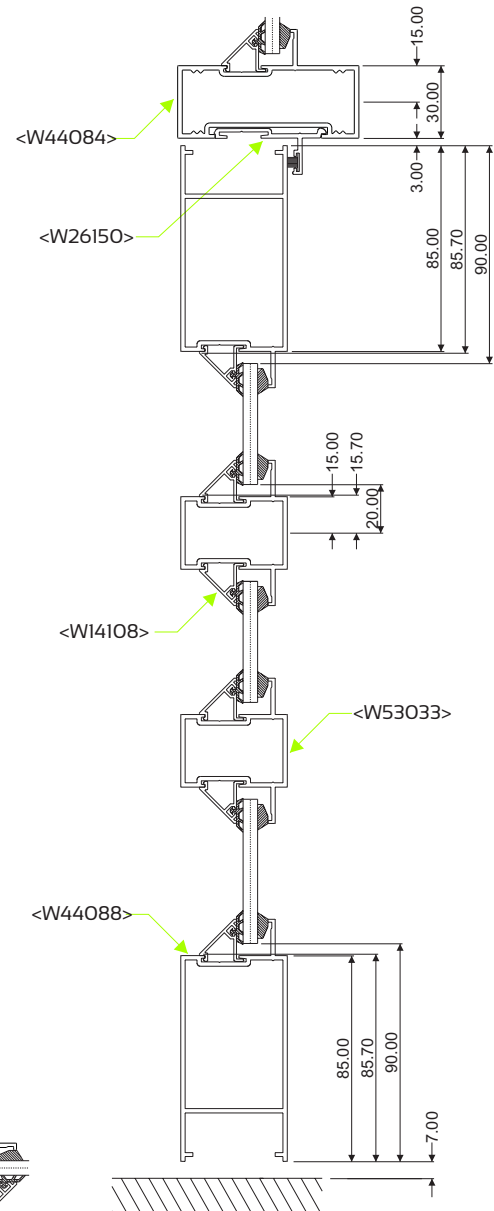


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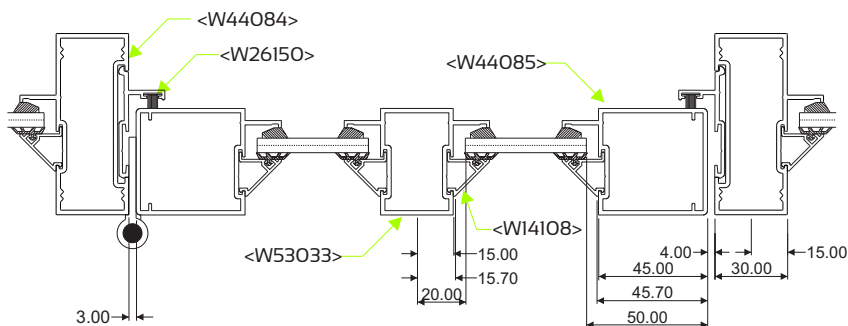




SECTION B-B
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SECTION A-A
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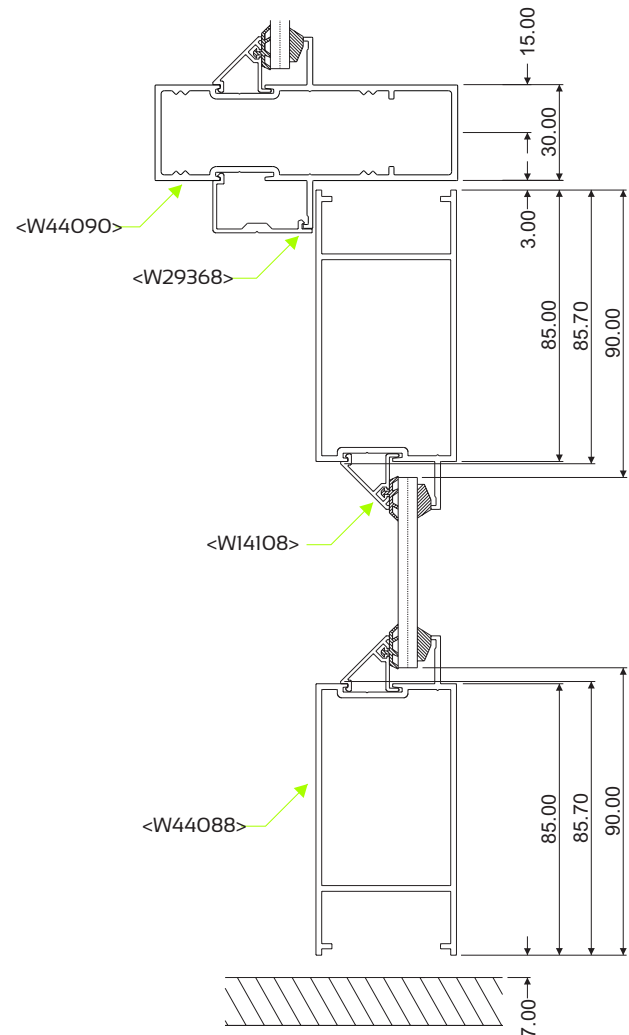


Cross-Sectional Detail

Double Inward Opening Hinged Door

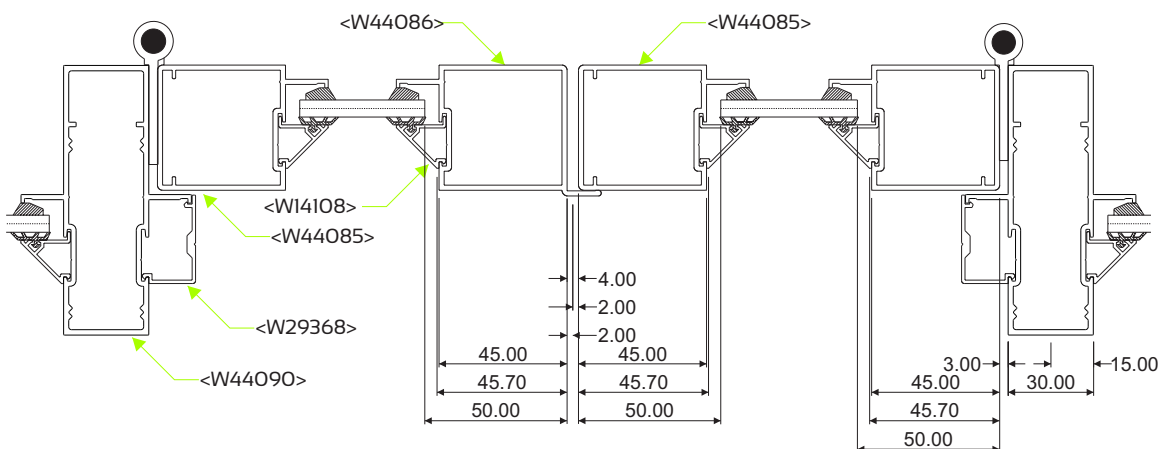
SECTION B-B

Section not to scale



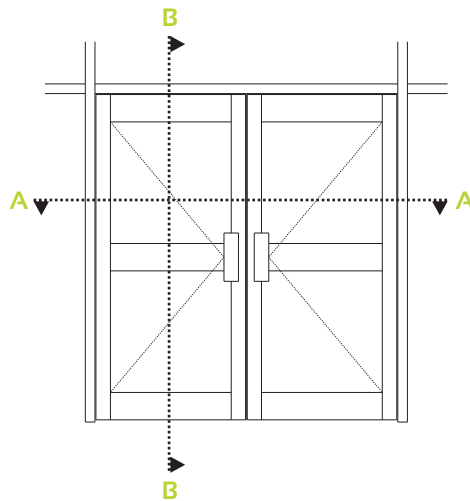
SECTION A-A

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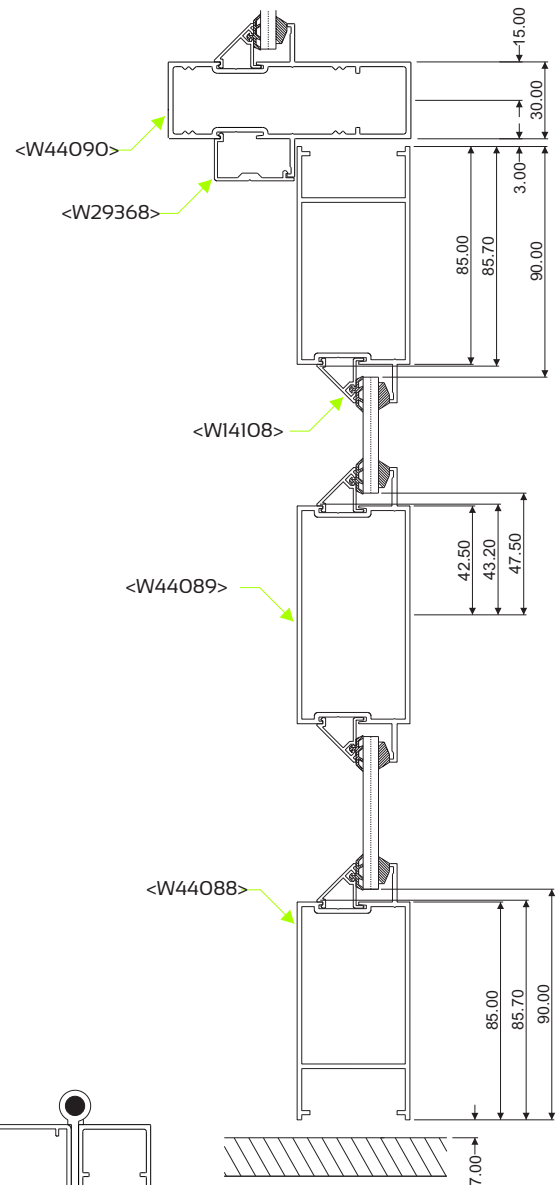
Cross-Sectional Detail

Double Inward Opening Hinged Door With Midrail



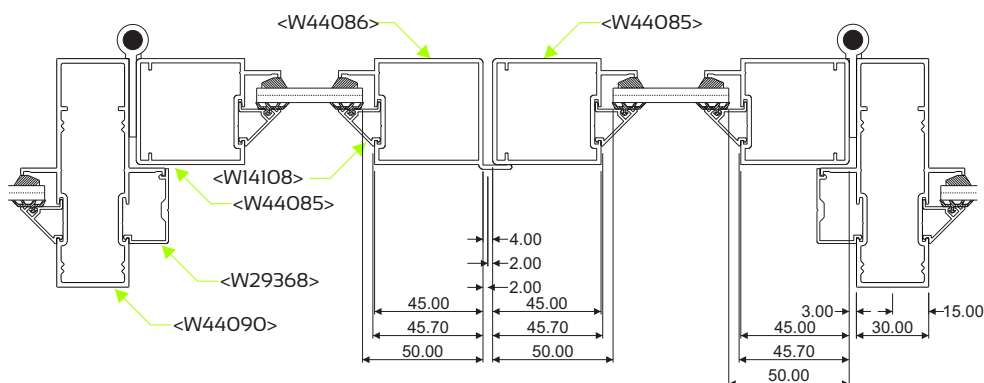
SECTION B-B

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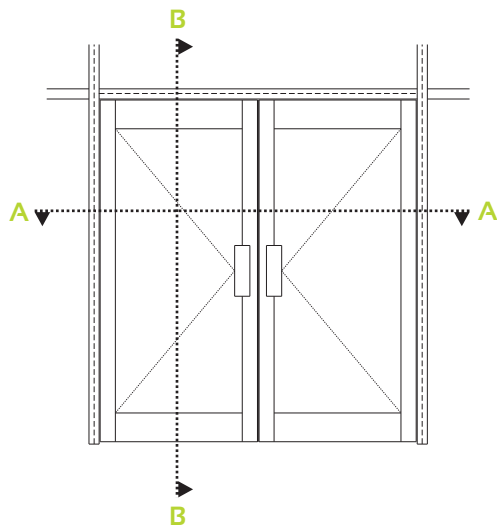
SECTION A-A

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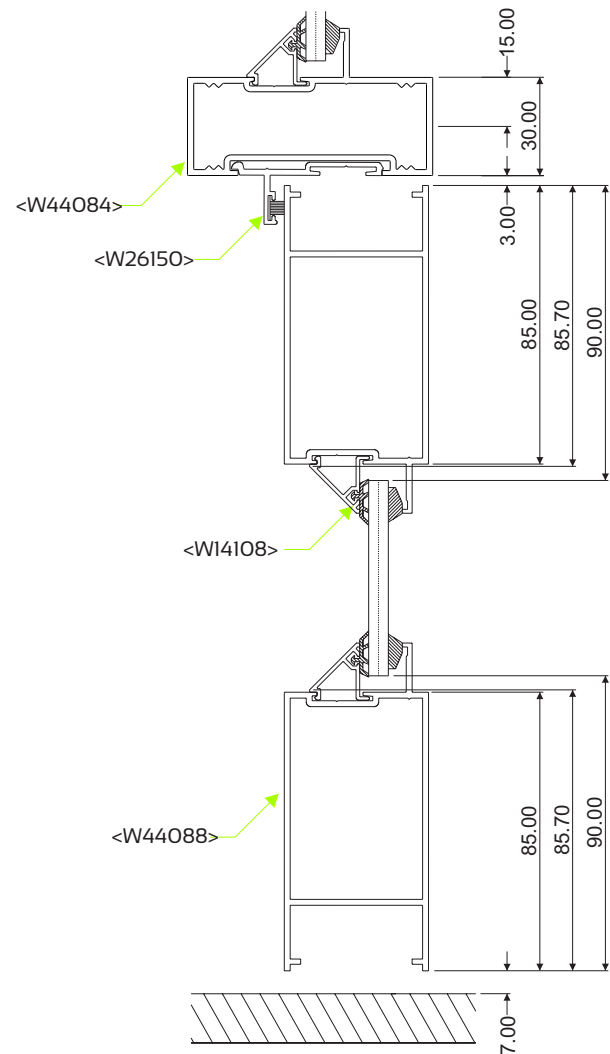


Cross-Sectional Detail

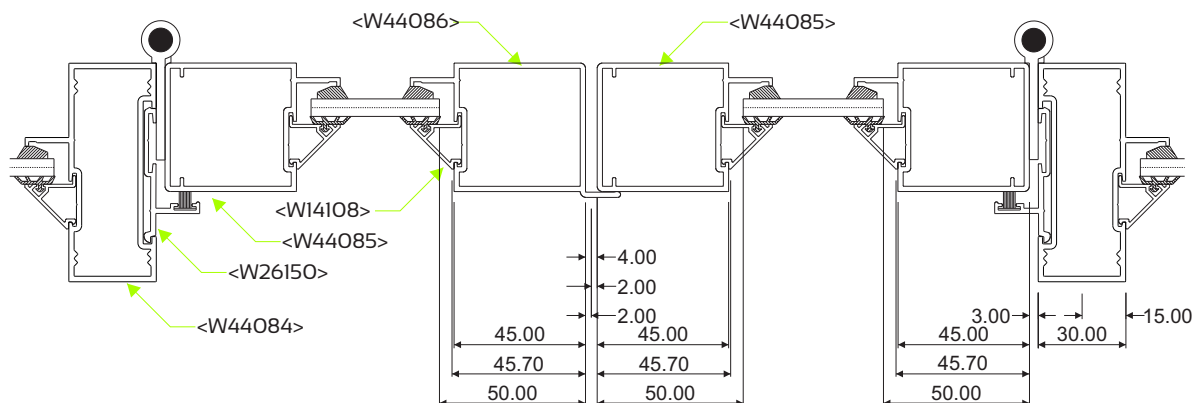
Double Inward Opening Hinged Door In Adaptor Frame



SECTION B-B
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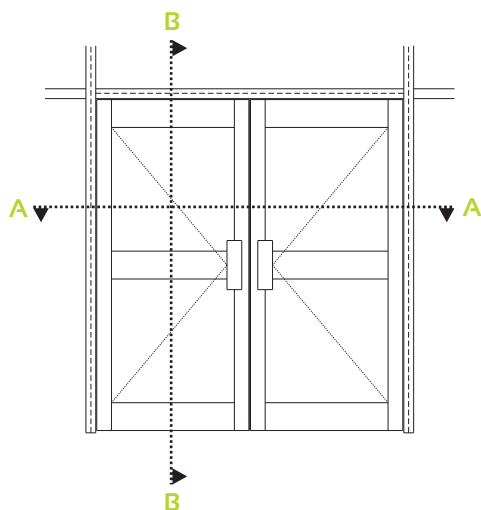


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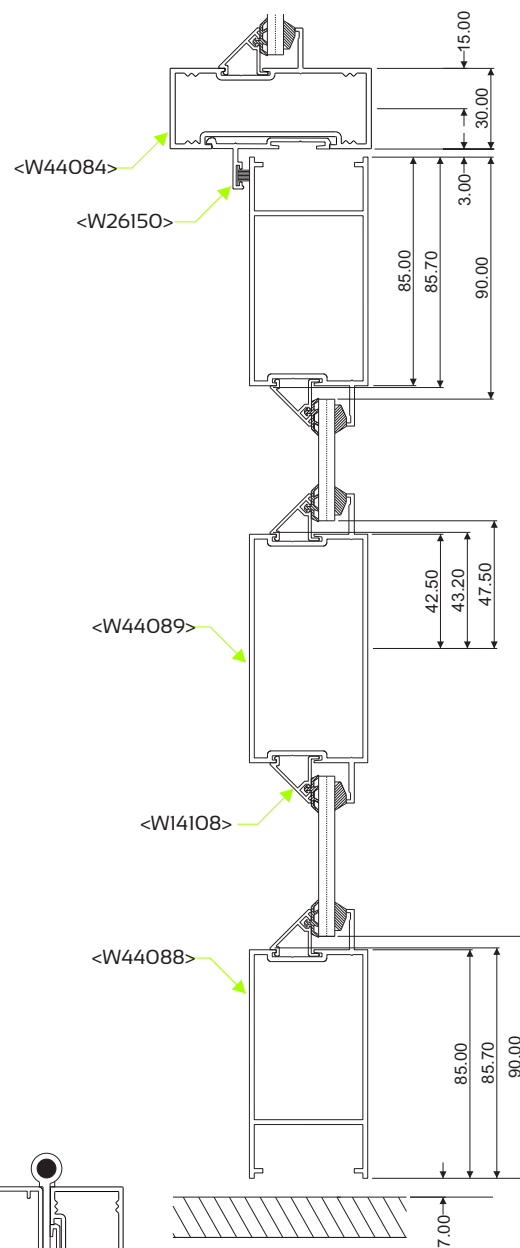
Cross-Sectional Detail

Double Inward Opening Hinged Door With Midrail In Adaptor Frame



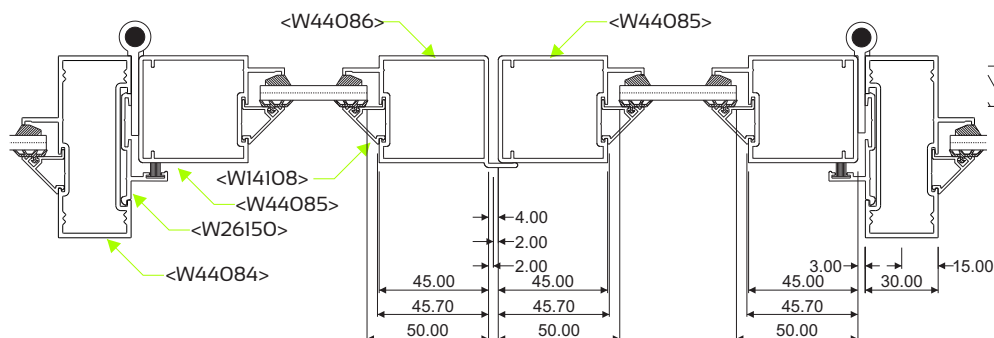
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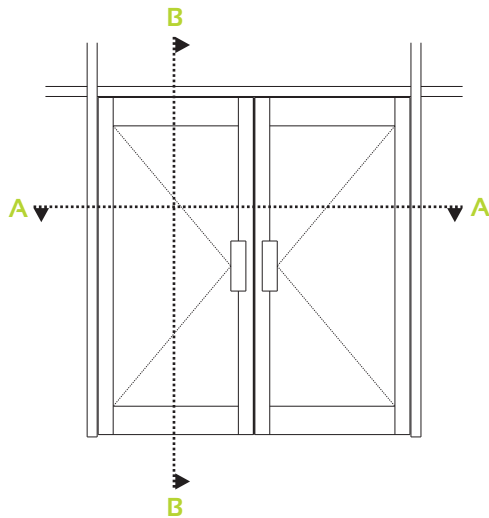
SECTION A-A

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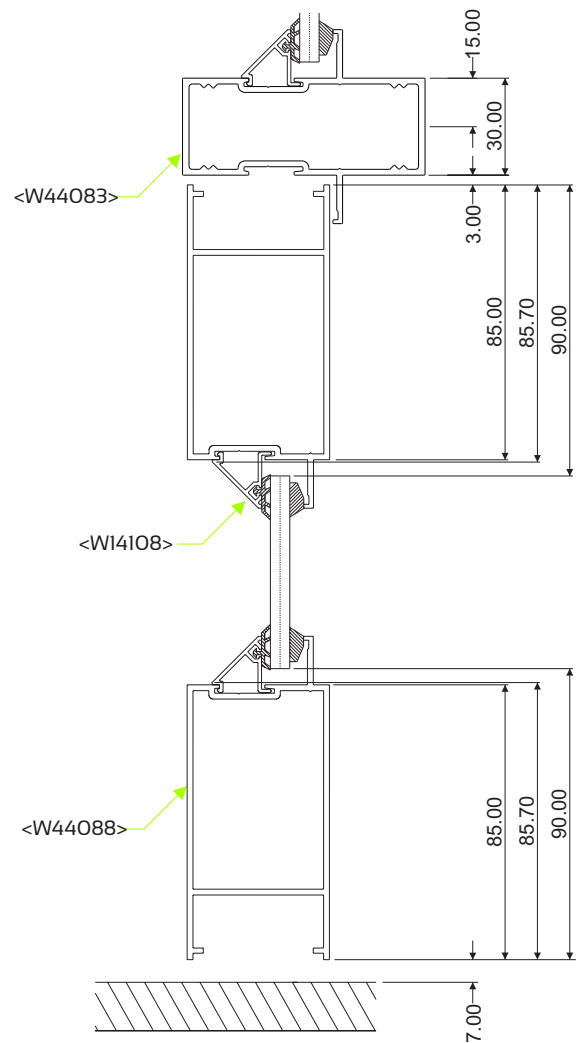


Cross-Sectional Detail

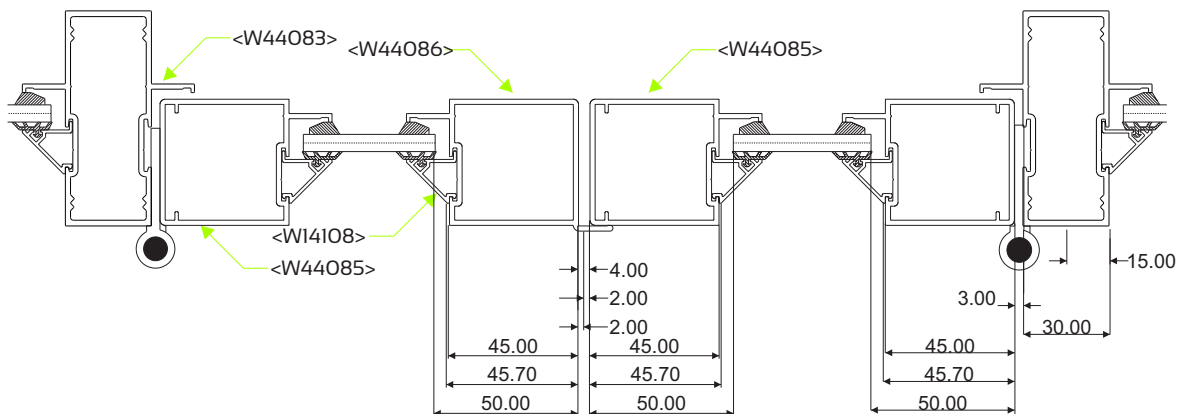
Double Outward Opening Hinged Door



SECTION B-B
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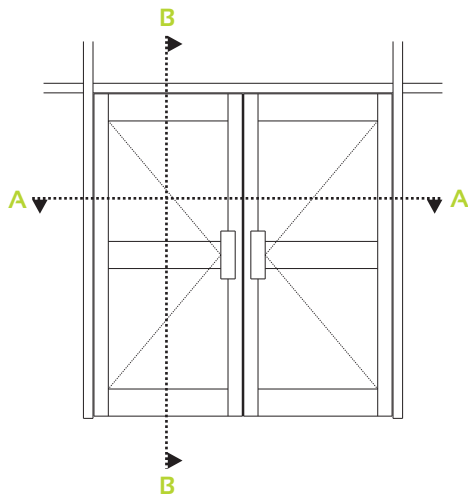


SECTION A-A
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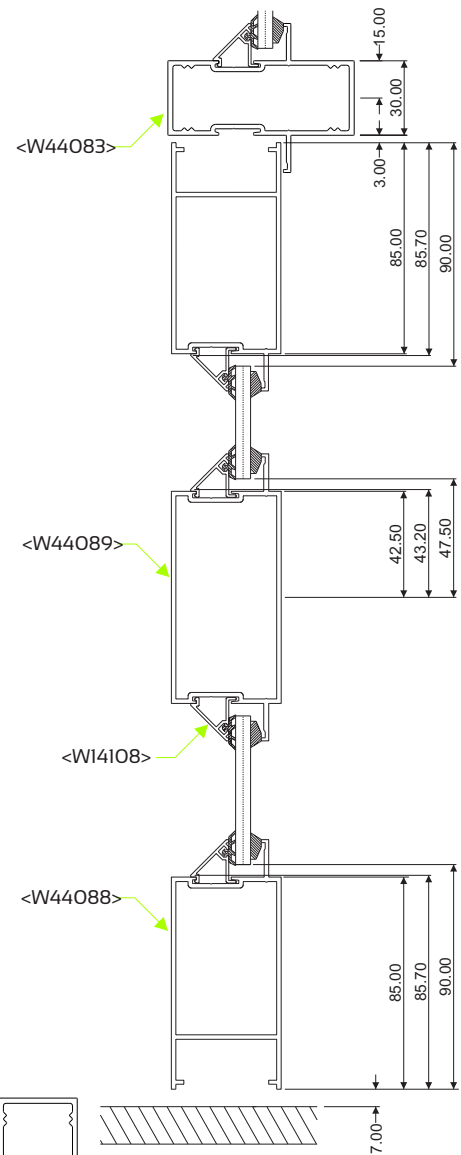
Cross-Sectional Detail

Double Outward Opening Hinged Door With Midrail



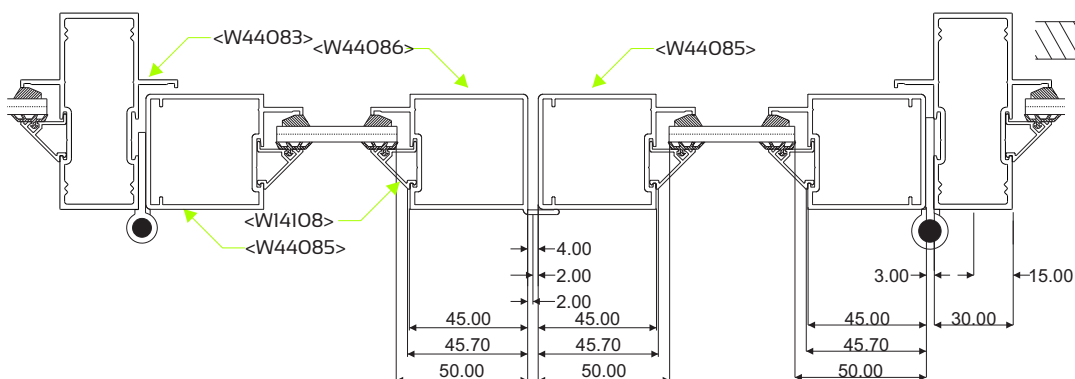
SECTION B-B

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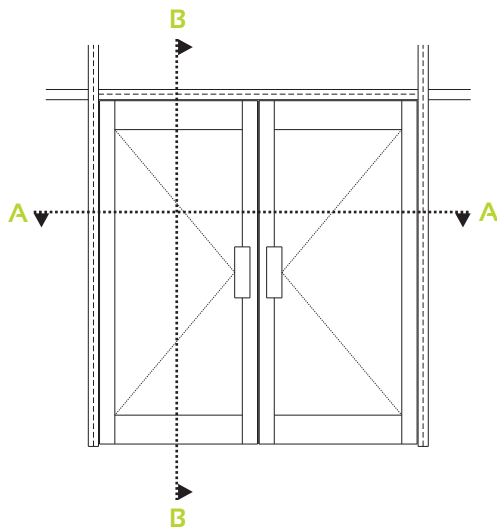
SECTION A-A

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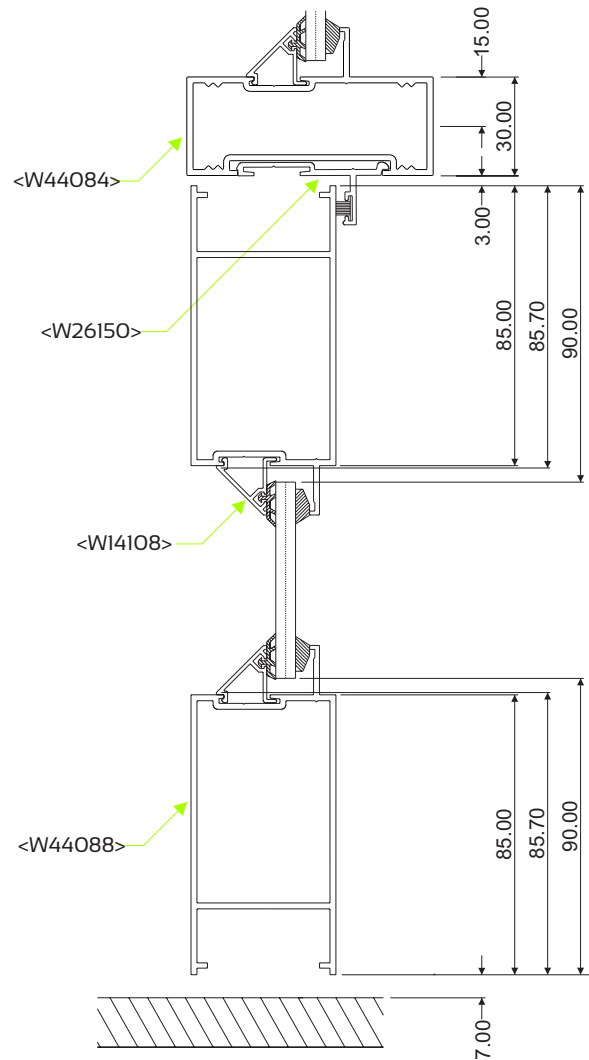


Cross-Sectional Detail

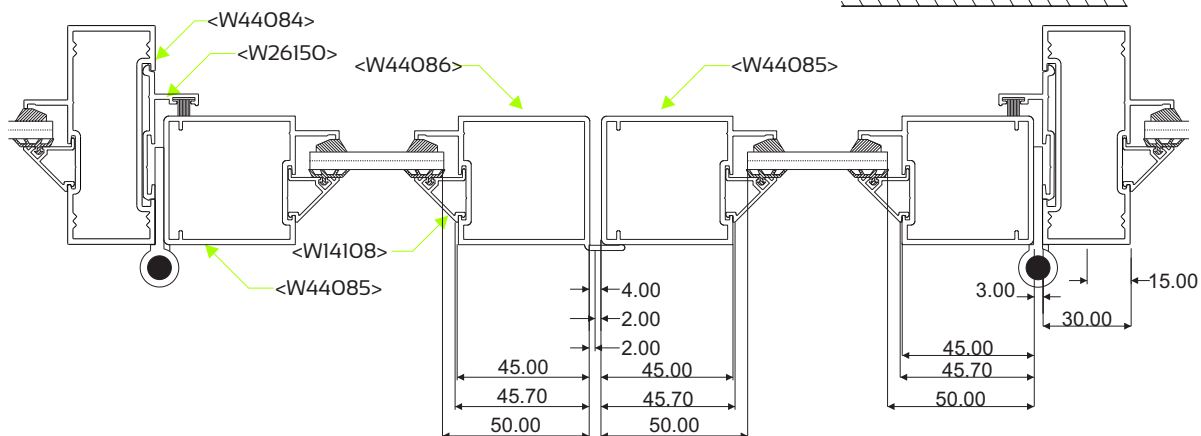
Double Outward Opening Hinged Door In Adaptor Frame



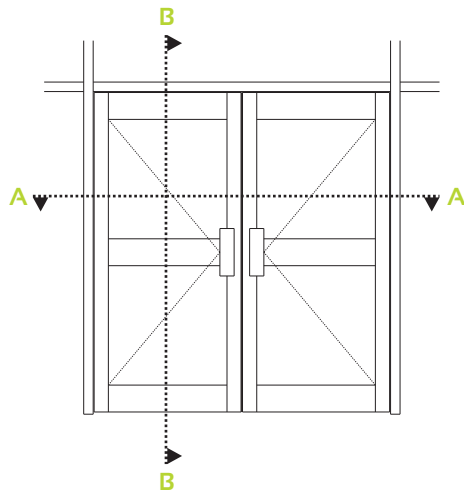
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SECTION A-A
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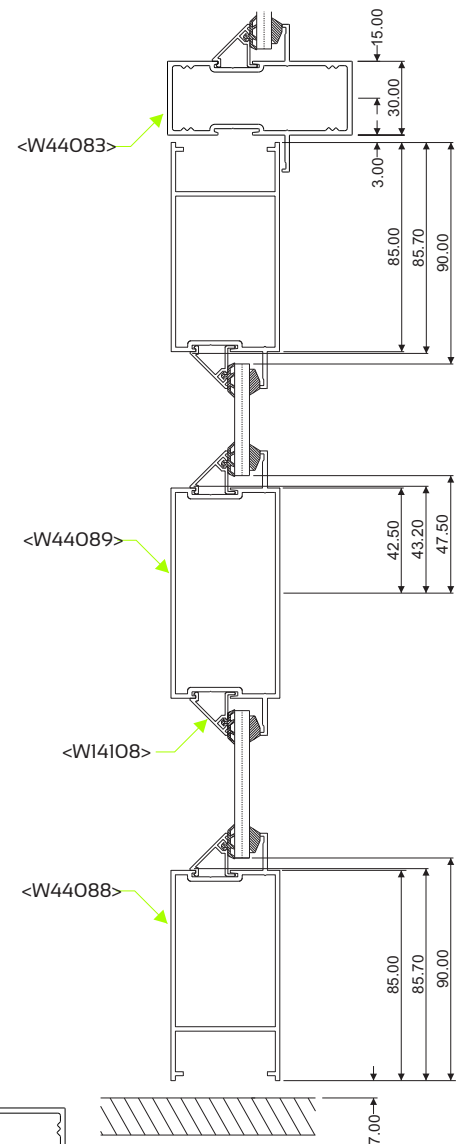


Double Outward Opening Hinged Door With Midrail in Adaptor Frame



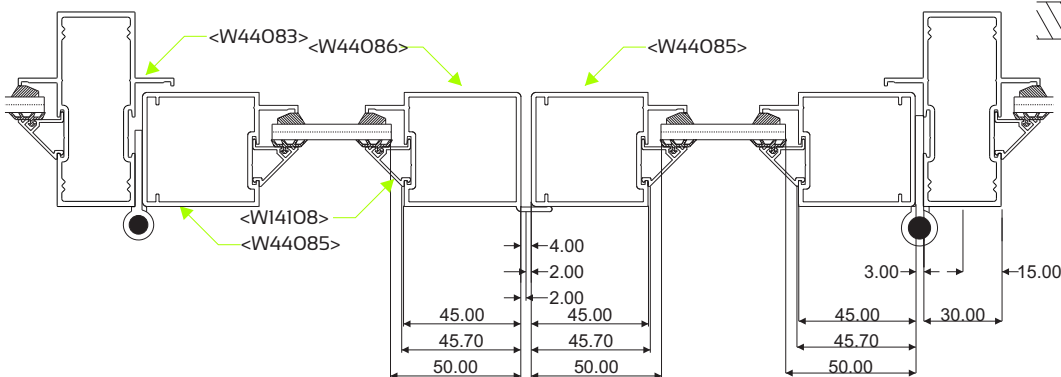
SECTION B-B

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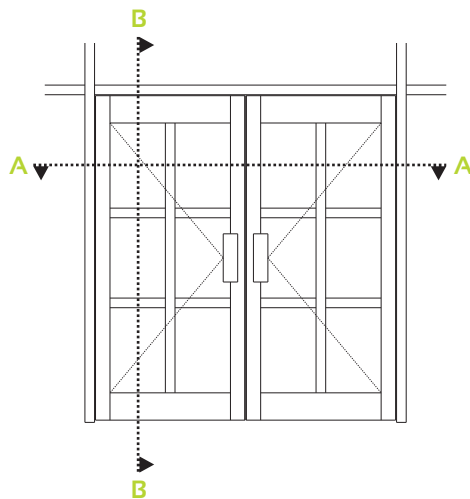
SECTION A-A

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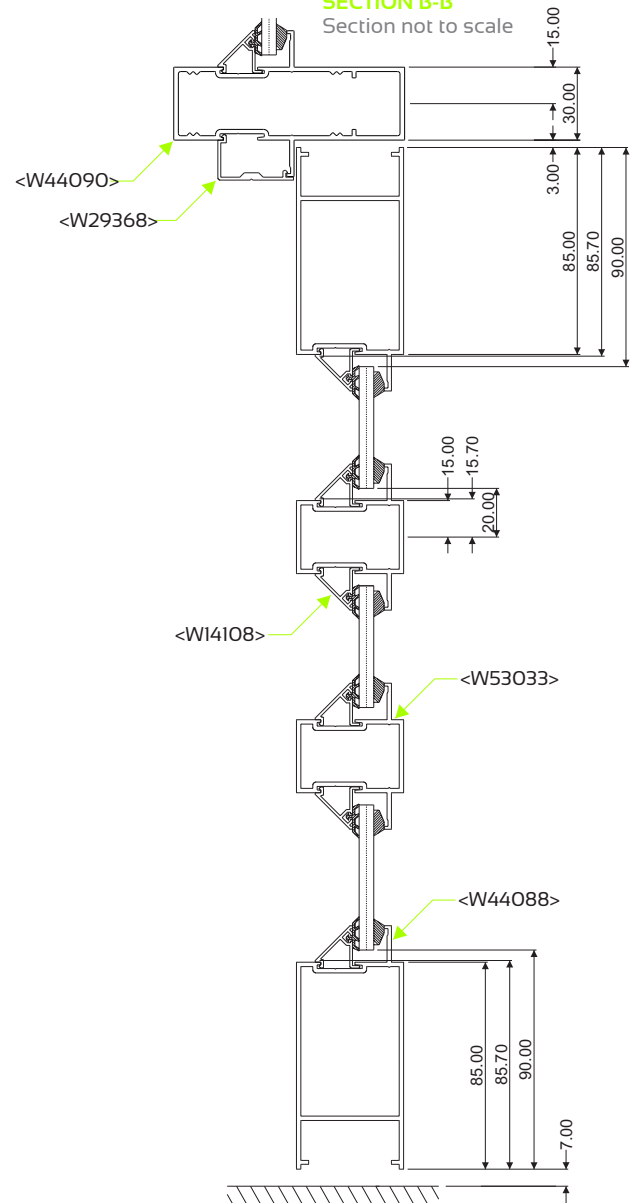
Cross-Sectional Detail

Double Inward Opening Cottage Pane Hinged Door



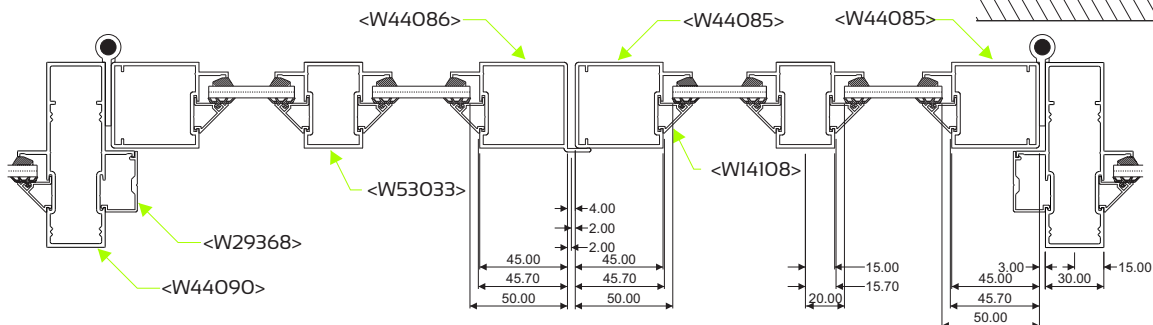
SECTION B-B

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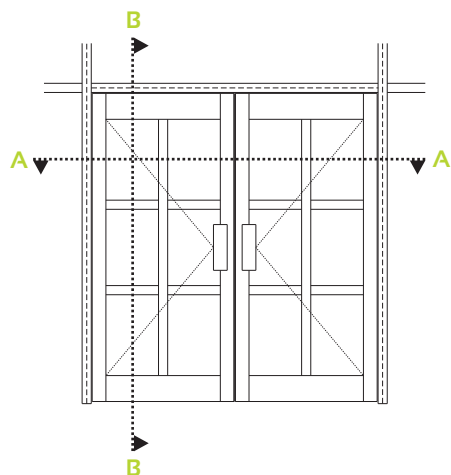
SECTION A-A

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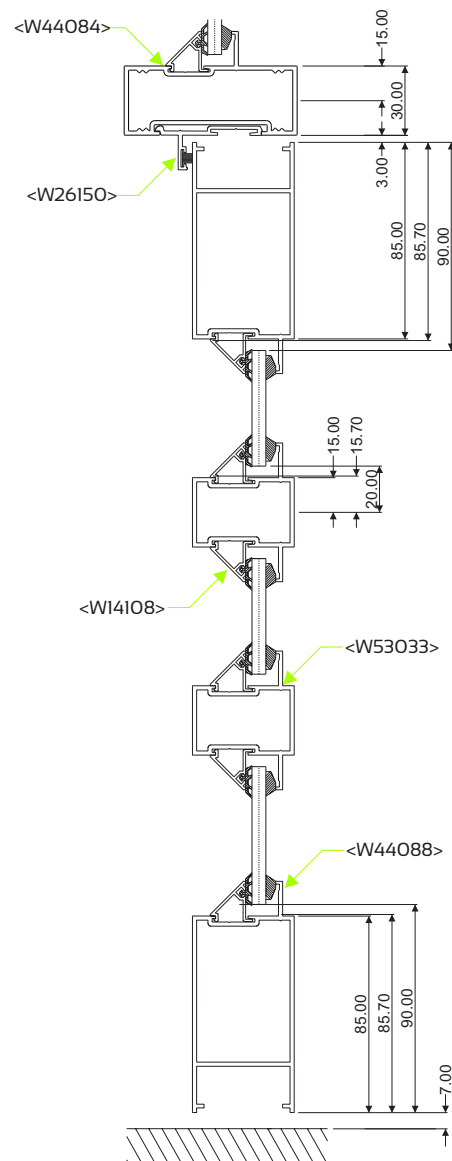
Cross-Sectional Detail

Double Inward Opening Cottage Pane Hinged Door In Adaptor Frame



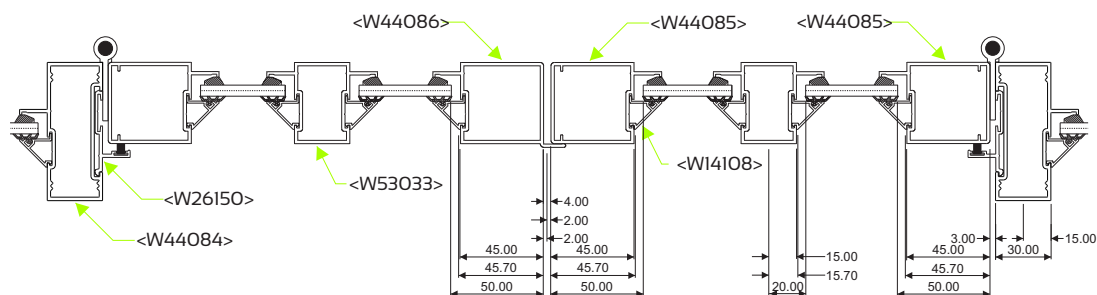
SECTION B-B

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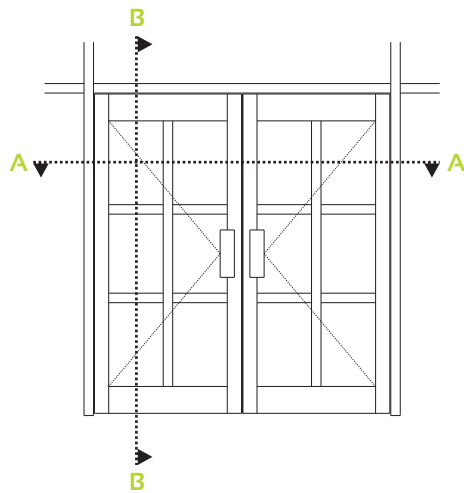
SECTION A-A

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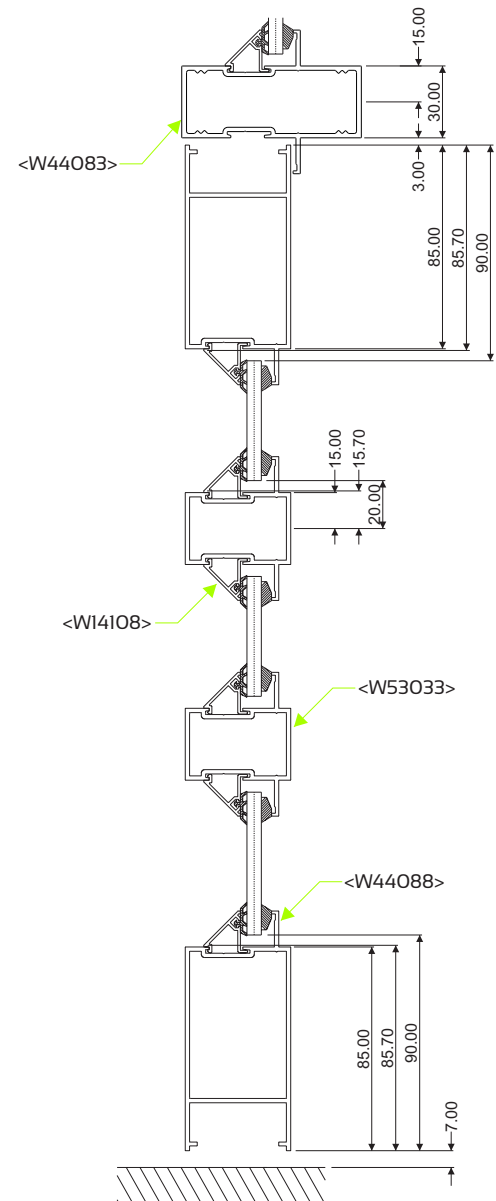


Cross-Sectional Detail

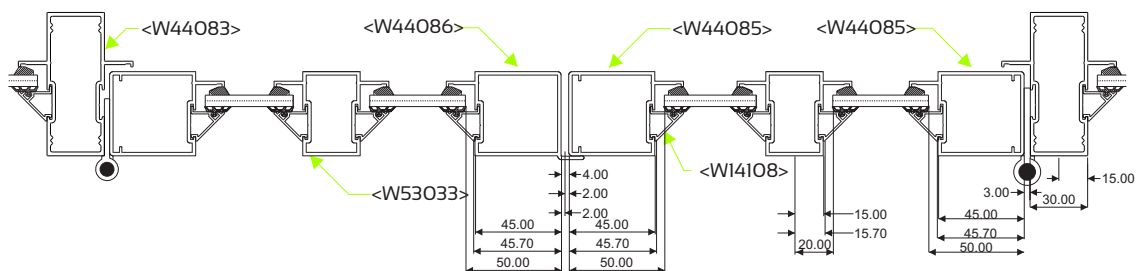
Double Outward Opening Cottage Pane Hinged Door



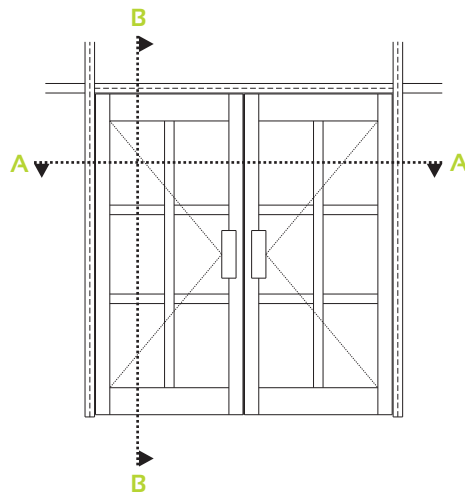
SECTION B-B
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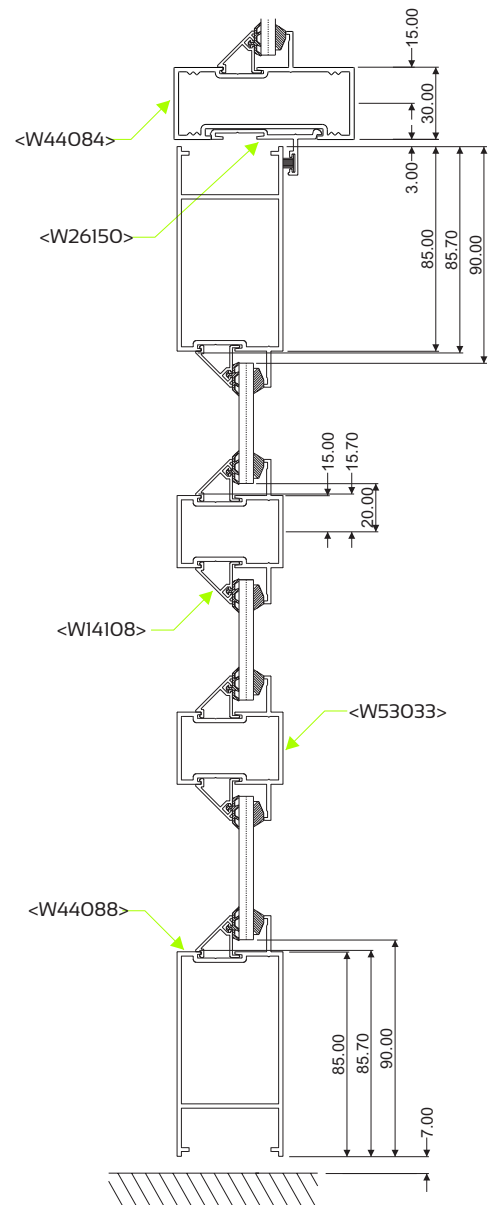
SECTION A-A
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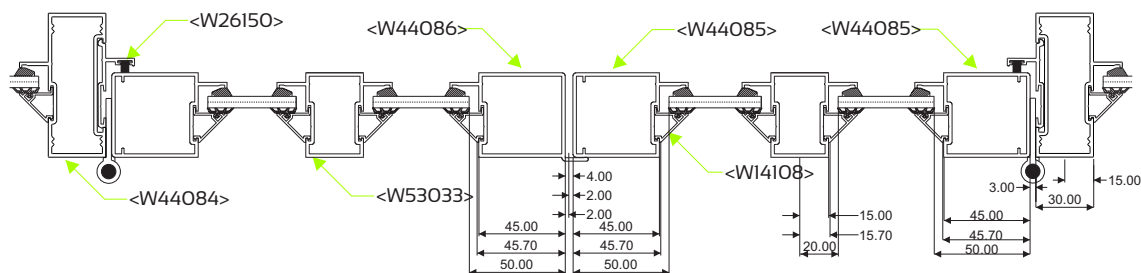
Double Outward Opening Cottage Pane Hinged Door In Adaptor Frame

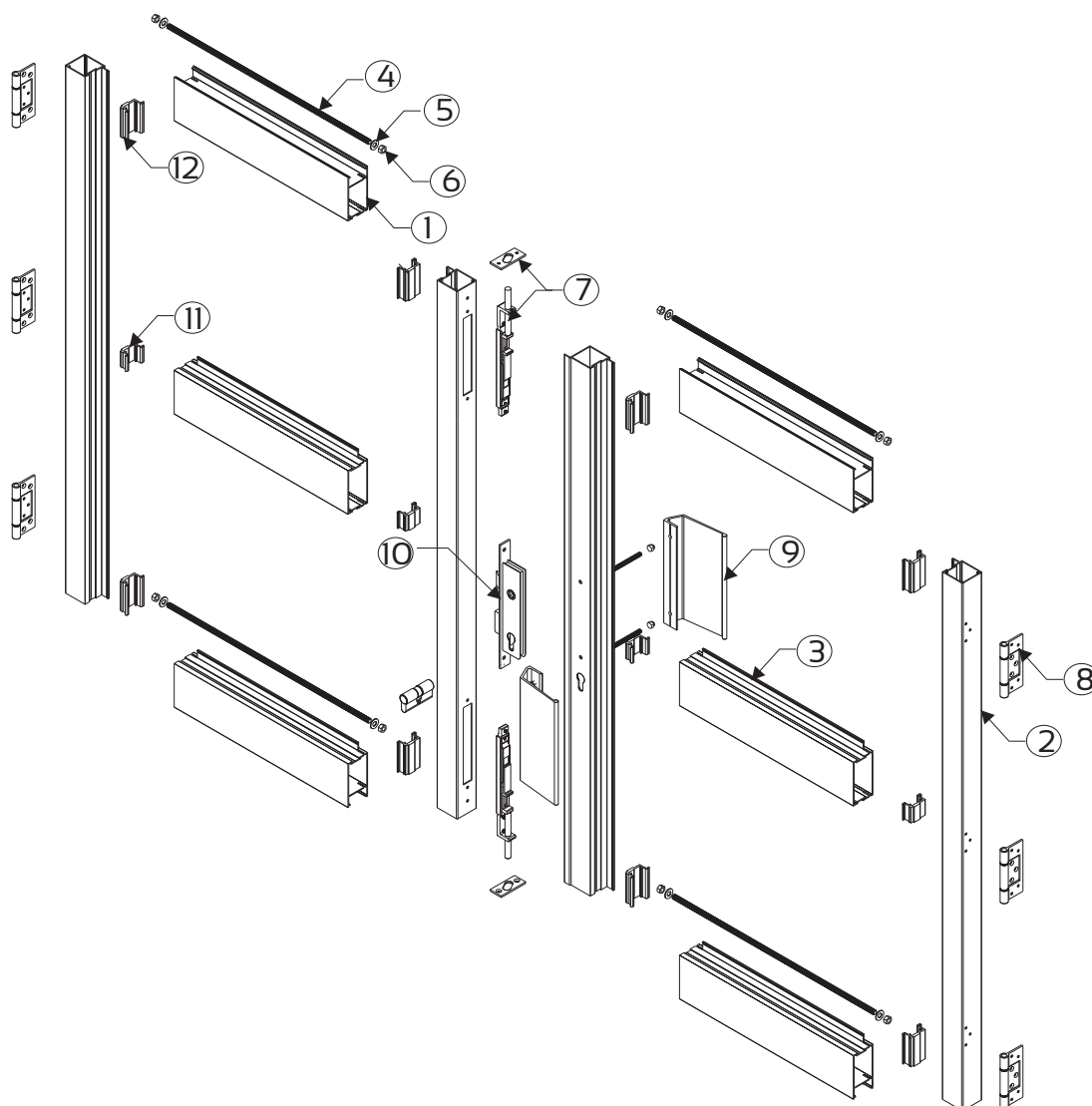


SECTION B-B
Section not to scale



SECTION A-A
Section not to scale





System Profiles

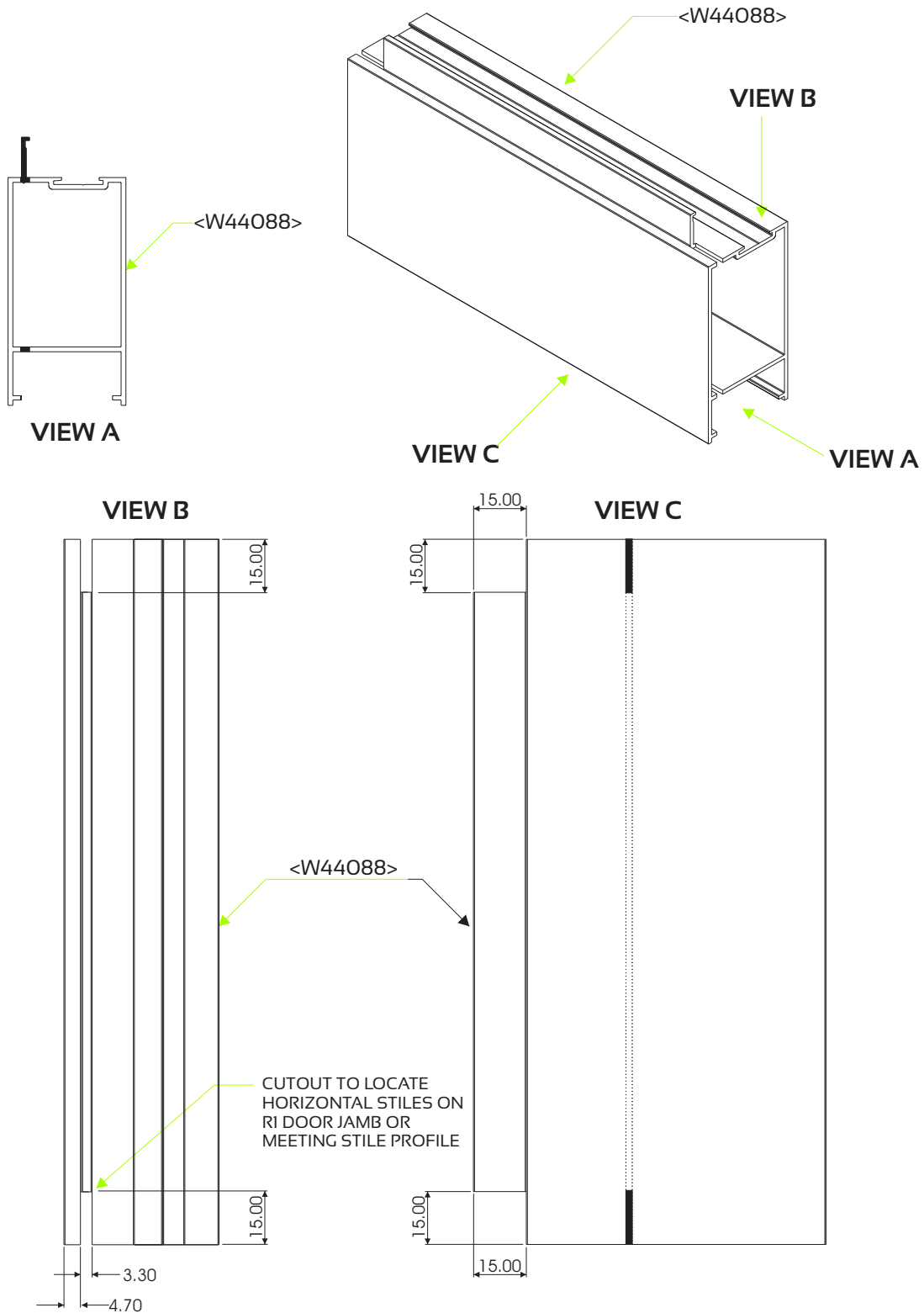
ITEM	QTY	DIE No.	DESCRIPTION
1	4	<W44088>	R4 Head/Sill Rail
2	4	<W44085>	R1 Door Jamb
3	2	<W44089>	R4-Special Midrail 85mm

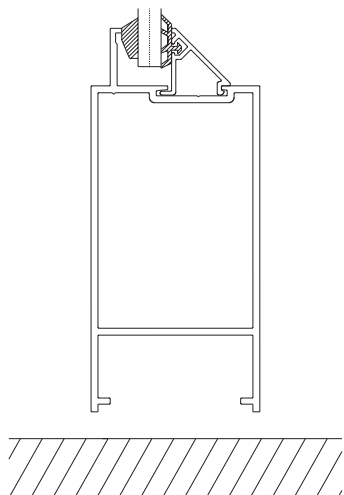
Hardware

ITEM	QTY	COMPONENT	DESCRIPTION
4	4	Threaded Rod	8mm Threaded Rod Galv 3M
5	8	Washer	Washer Galv 8mm Rod
6	8	Nut	Nut Galv 8mm Rod
7	2	Flush Bolt	Flush Bolt Nat Alufab 150x19mm
8	6	Hinge	Alufab Hinge SinkIs 100x40mm NAT
9	1	Handle	Shop Handle Univ NAT 190mm
10	1	Latch Lock	CISA Latch Lock 25mm B/SET
11	4	Spigot	30mm
12	8	Spigot	58mm

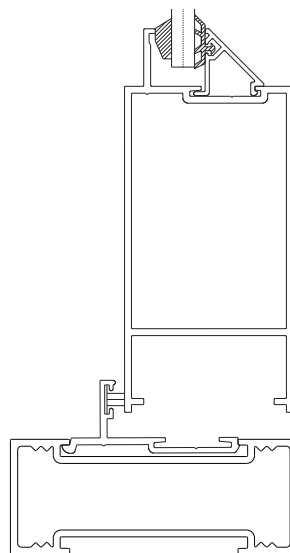
Sill Machining Detail

Sill Machining Detail To Suit All Sill Combinations

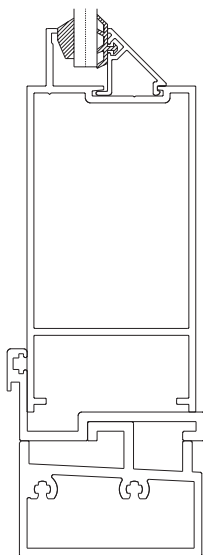




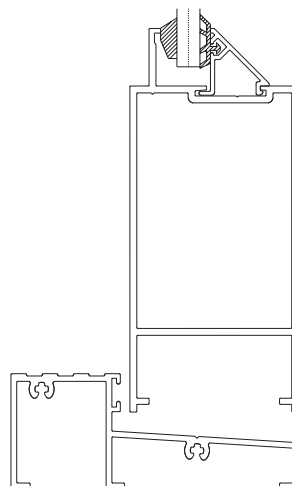
SILL OPTION 1
R4 HEAD/SILL RAIL 85mm (<W44088>)



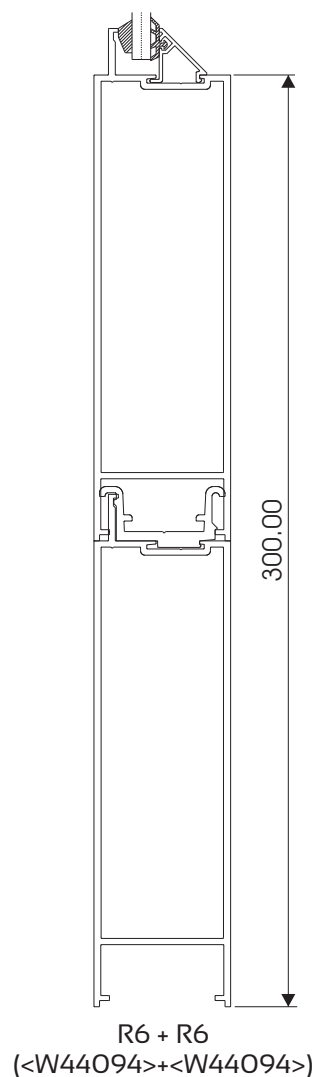
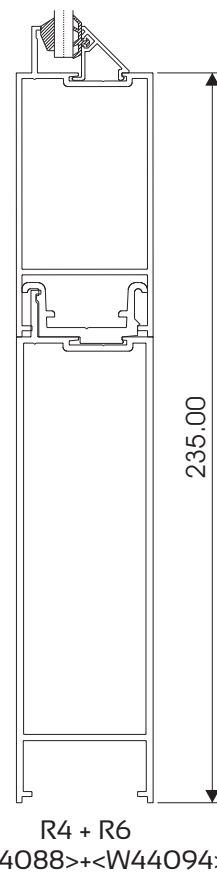
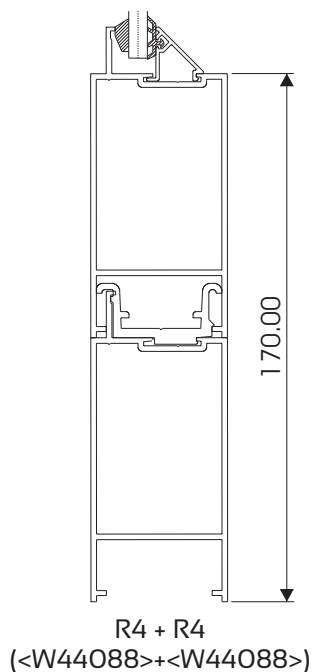
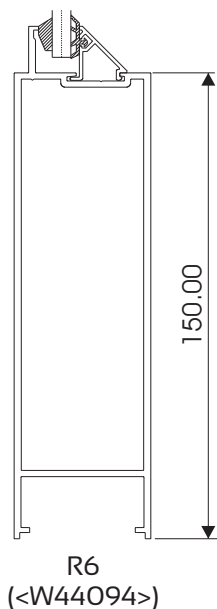
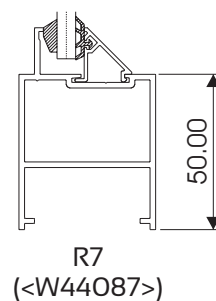
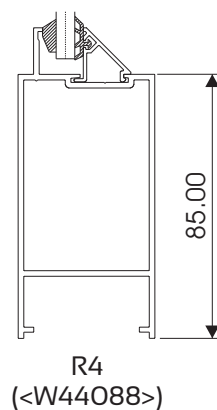
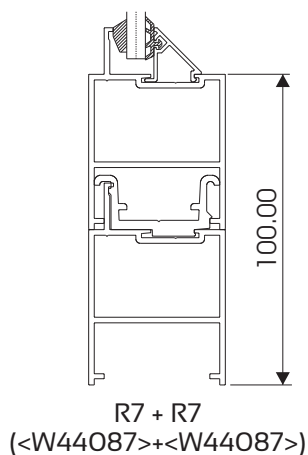
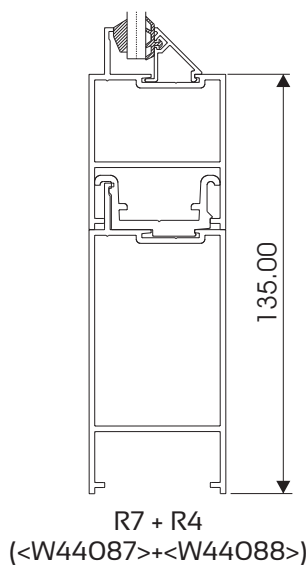
SILL OPTION 2
R4 HEAD/SILL RAIL 85mm (<W44088>)
26D RECESSED BACK (<W53365>)
DOOR ADAPTOR (<W26150>)

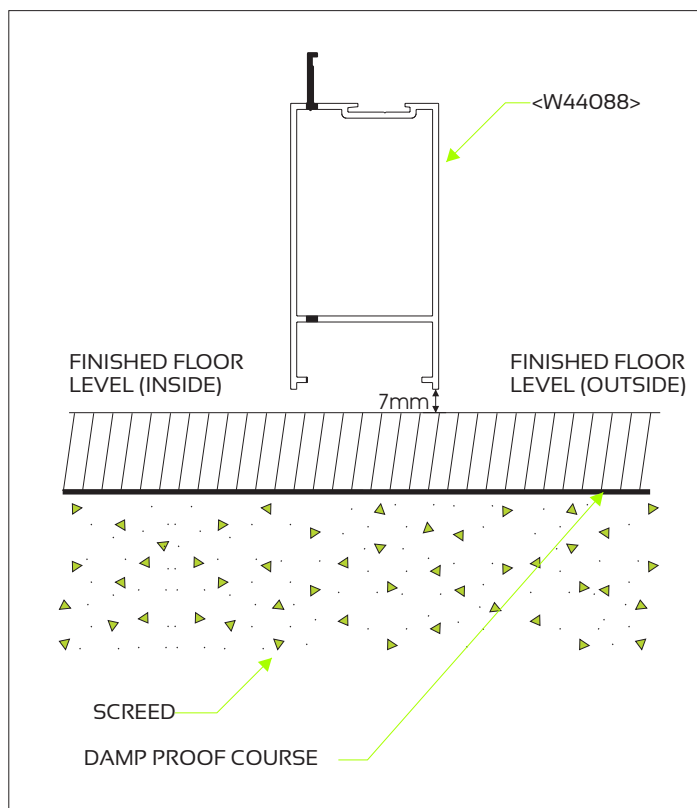
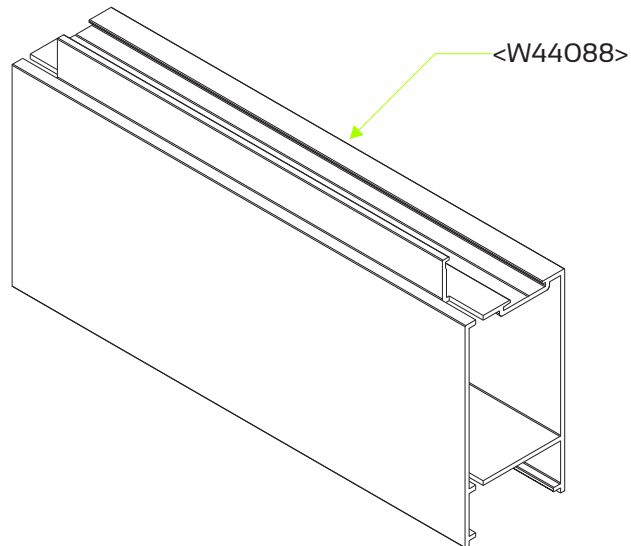


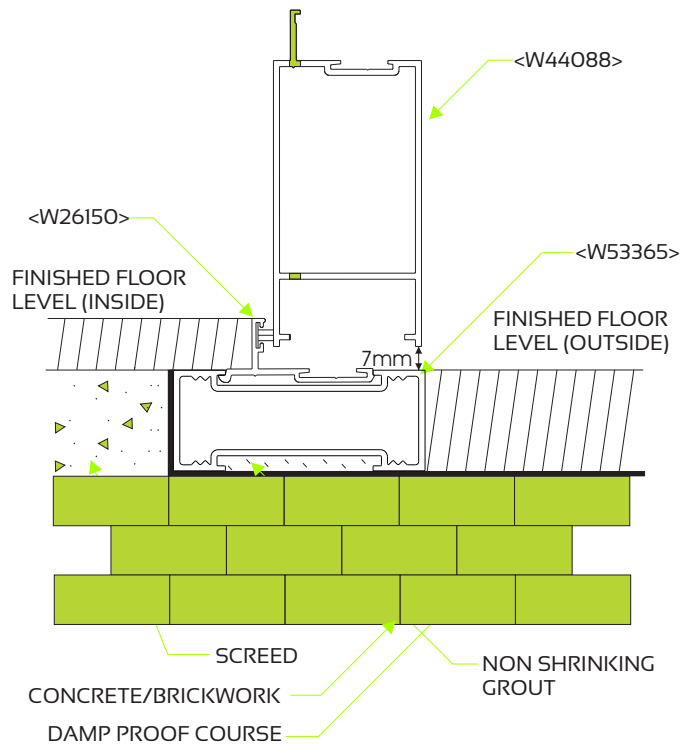
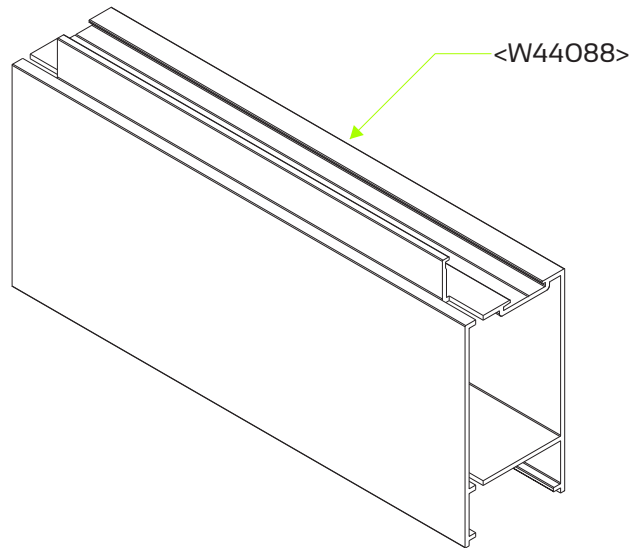
SILL OPTION 3
R4 HEAD/SILL RAIL 85mm (<W44088>)
DRAINAGE SILL (<W53448>)
DRAINAGE SILL ADAPTOR (<W27522>)

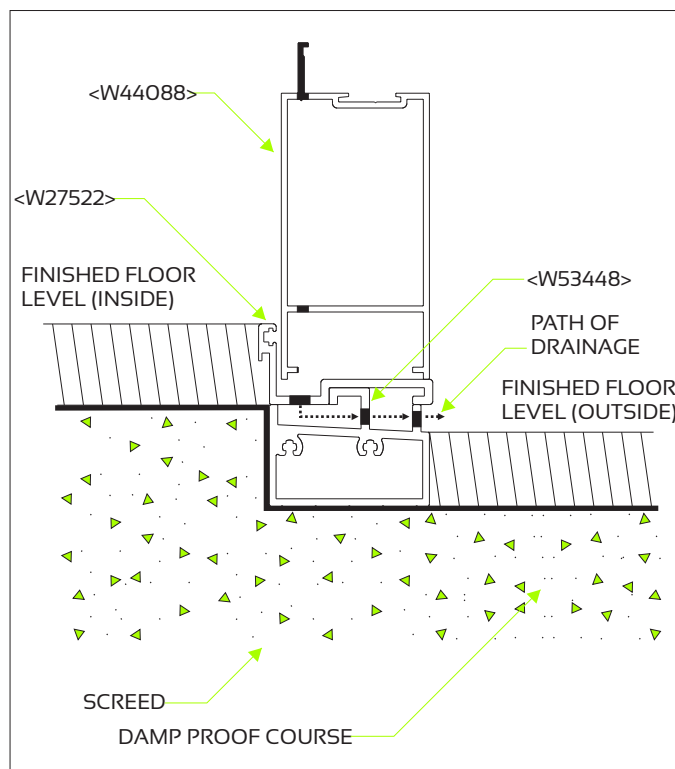
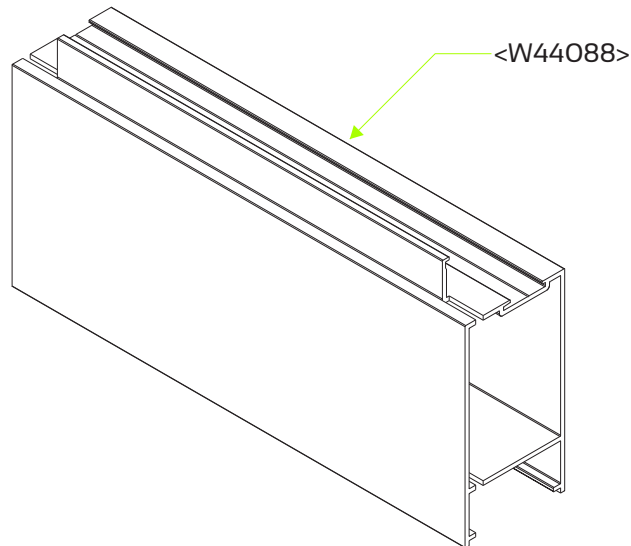


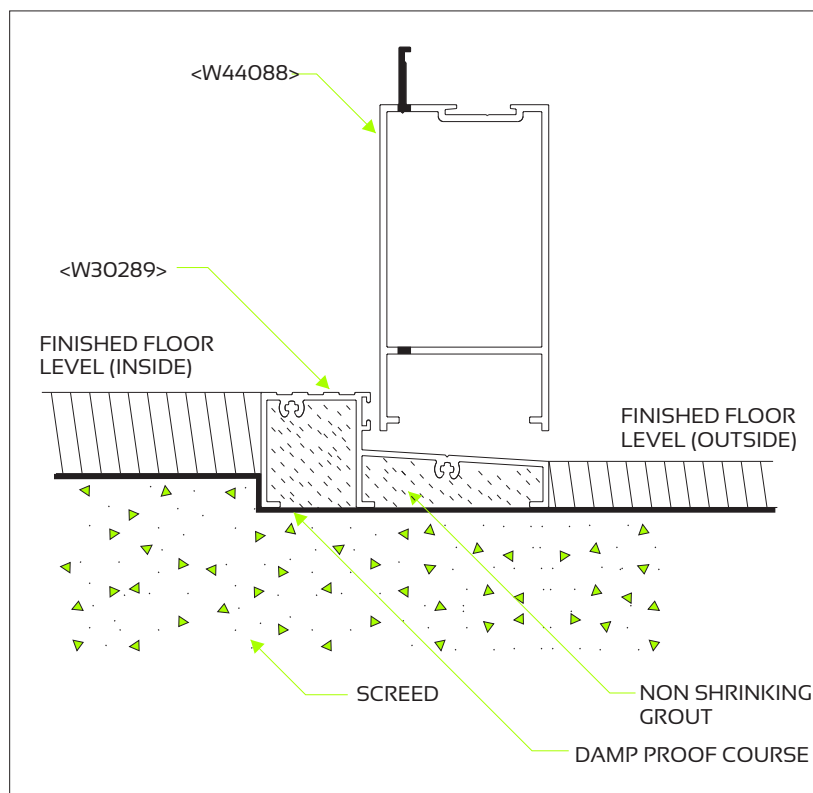
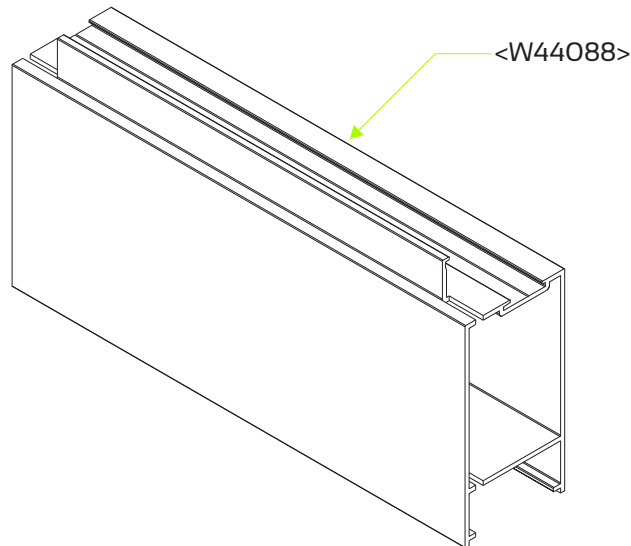
SILL OPTION 4
R4 HEAD/SILL RAIL 85mm (<W44088>)
THRESHOLD (<W30289>)



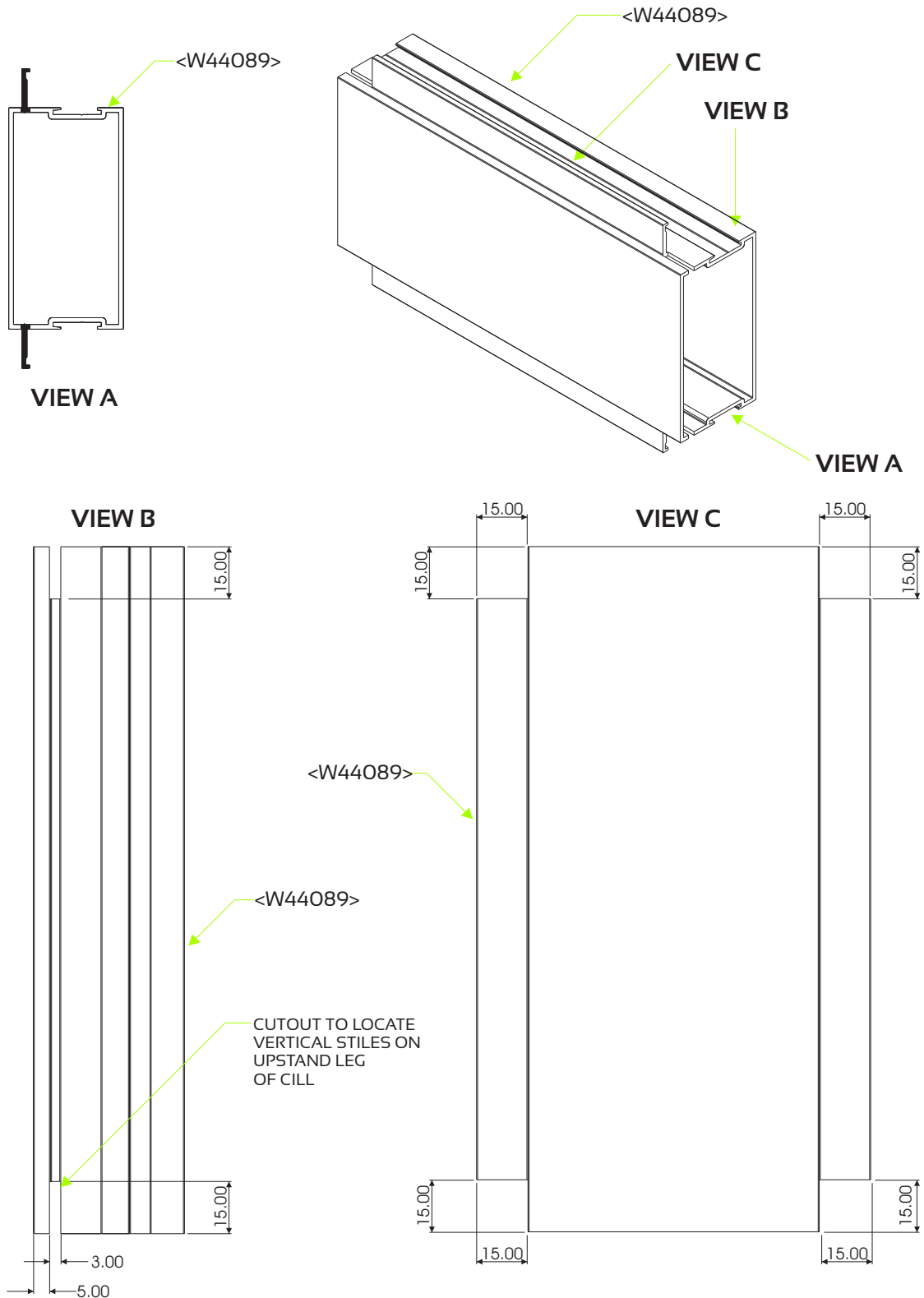




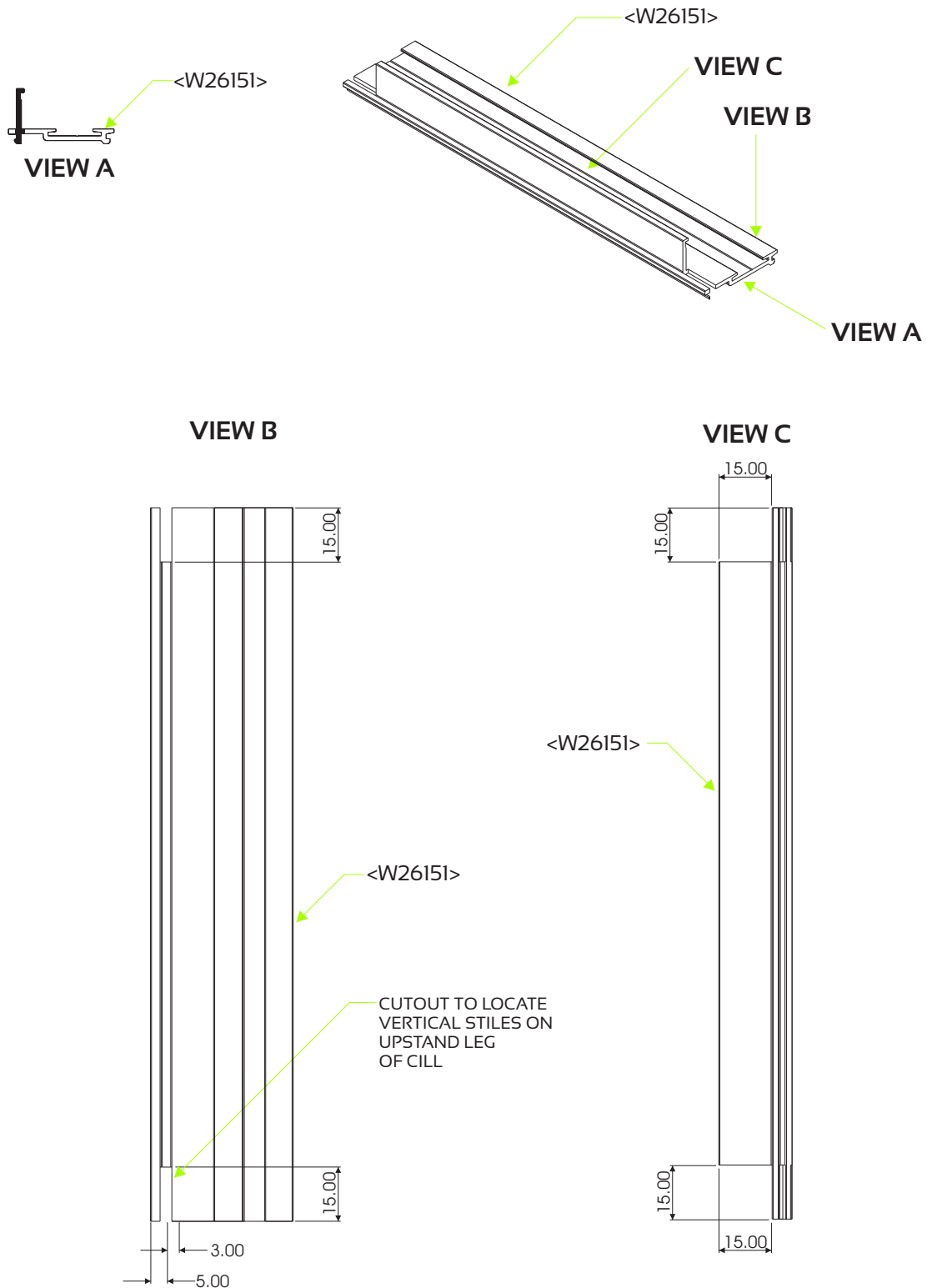




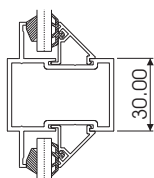
Midrail Machining Detail To Suit All Sill Options



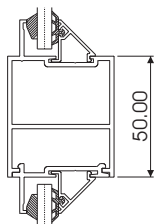
R4 Filler Adaptor Machining Detail



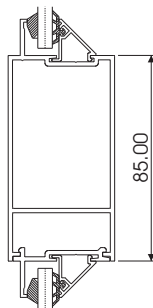
Midrail Combinations



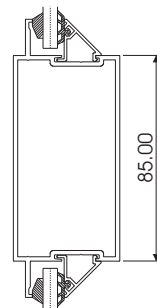
W44
(<W53033>)



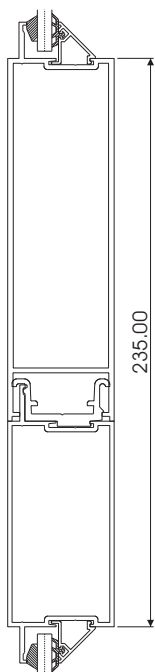
R7 + R4 FILLER
(<W44087>+<W26151>)



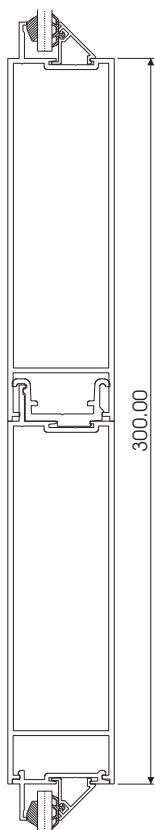
R4 + R4 FILLER
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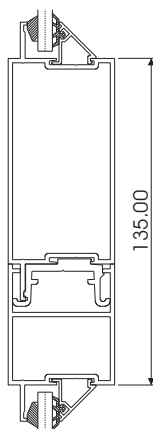
R4SP
(<W44089>)



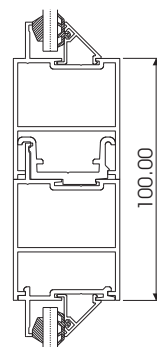
R6 + R4SP
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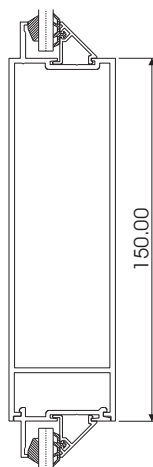
R6 + R6 + R4 FILLER
(<W44094>+<W44094>+
<W26151>)



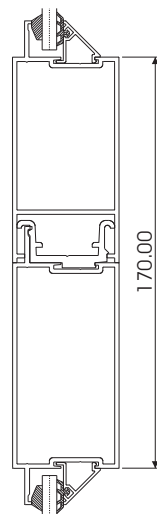
R7 + R4SP
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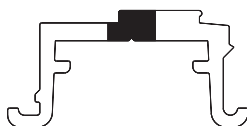
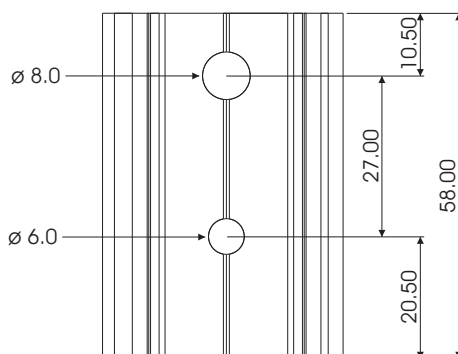
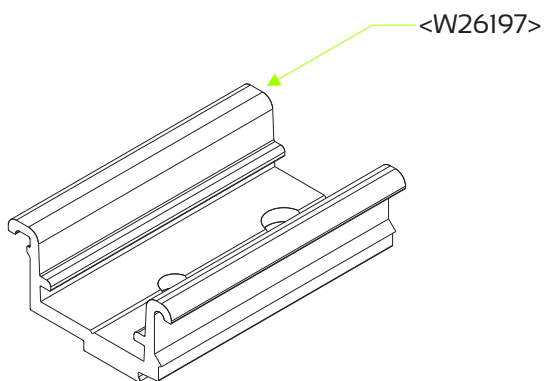
R7 + R7 + R4 FILLER
(<W44087>+<W44087>+
<W26151>)

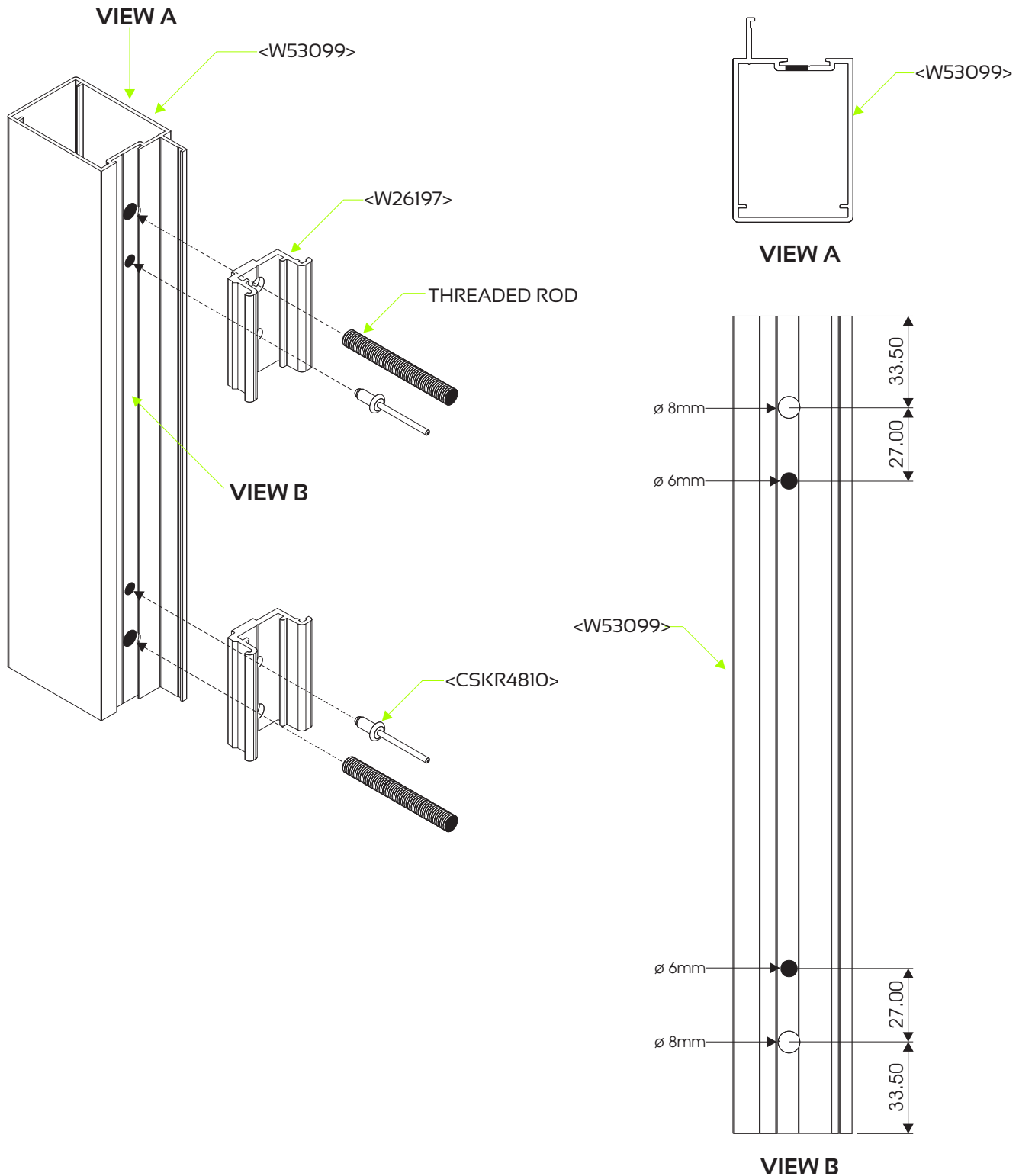


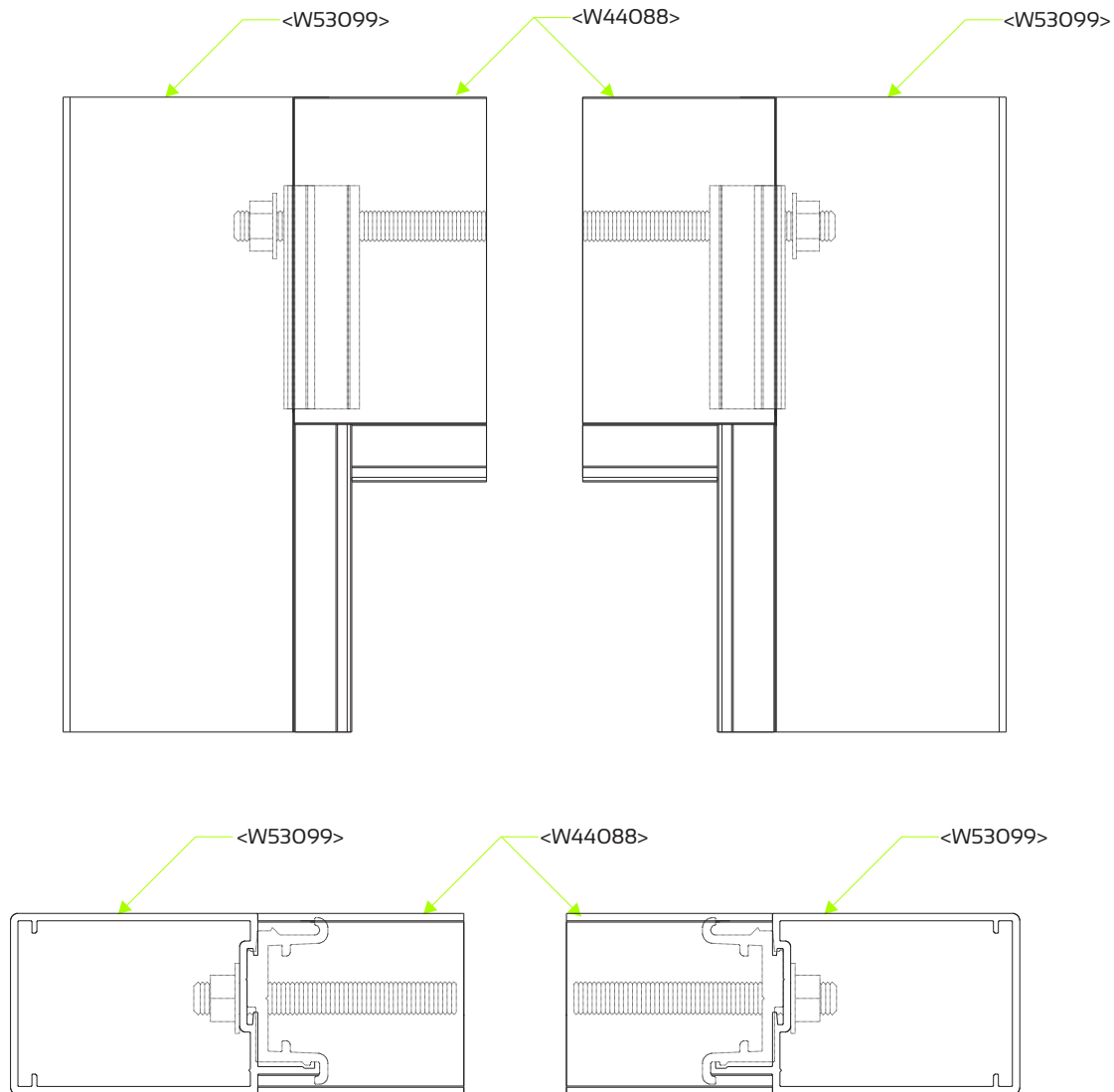
R6 + R4 FILLER
(<W44094>+<W26151>)



R4 + R4SP
(<W44088>+<W44089>)

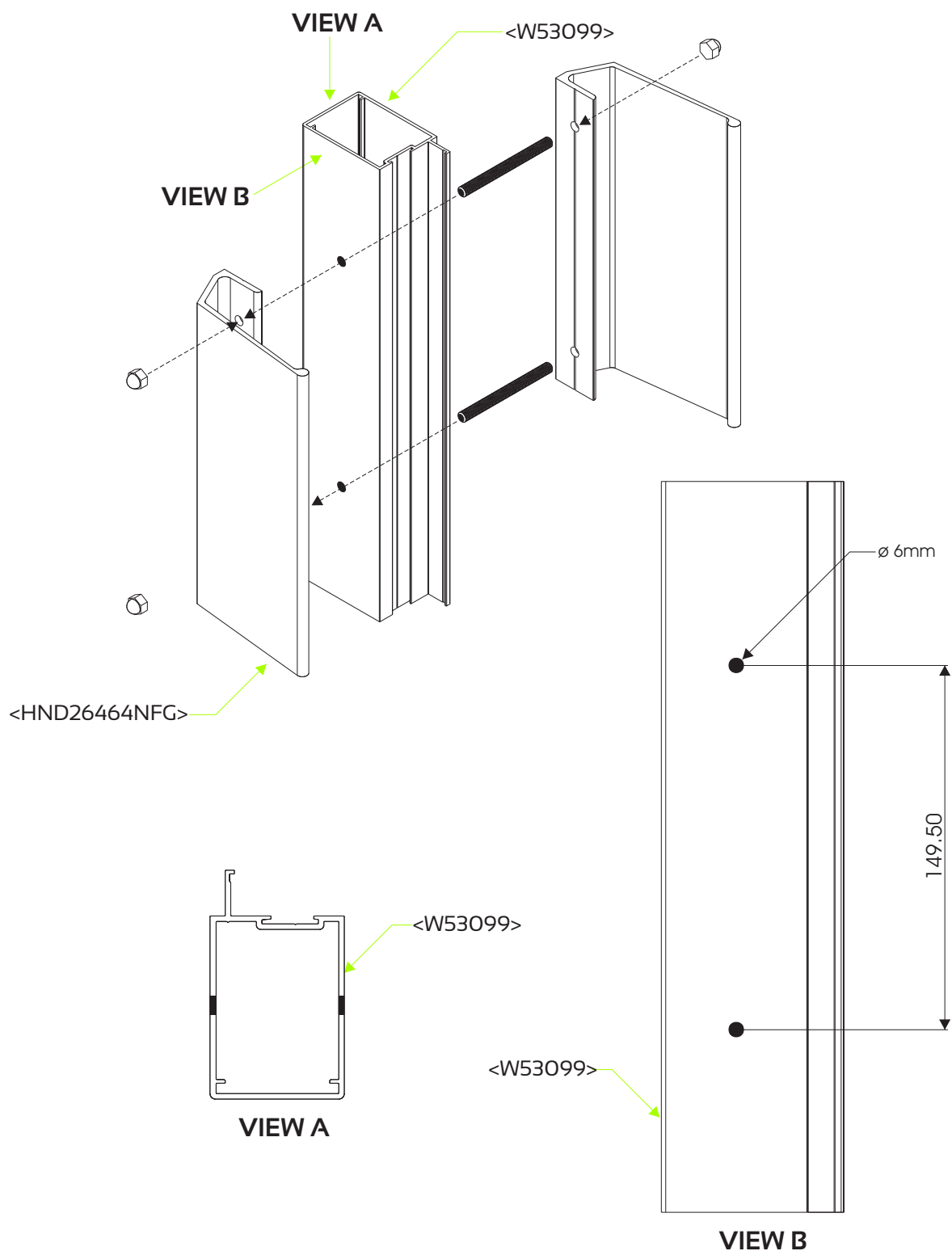






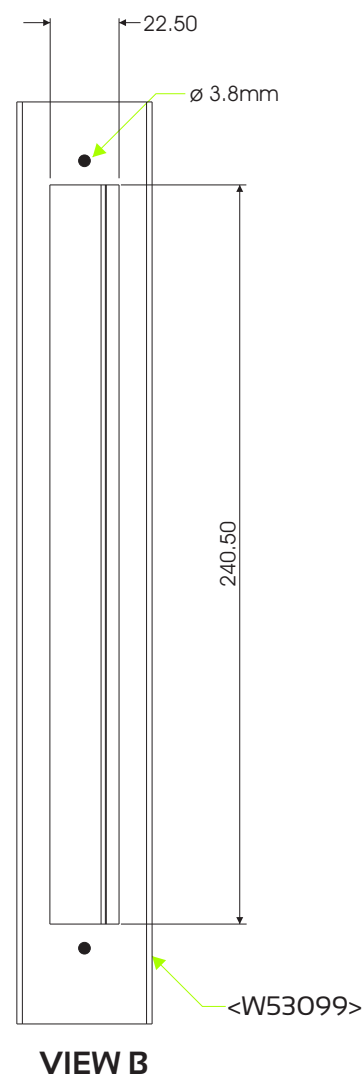
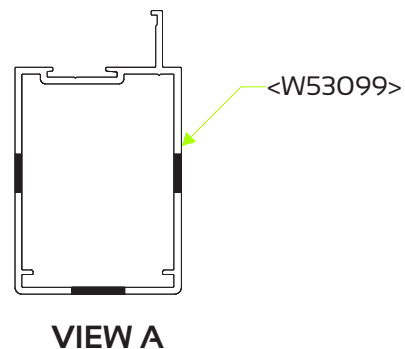
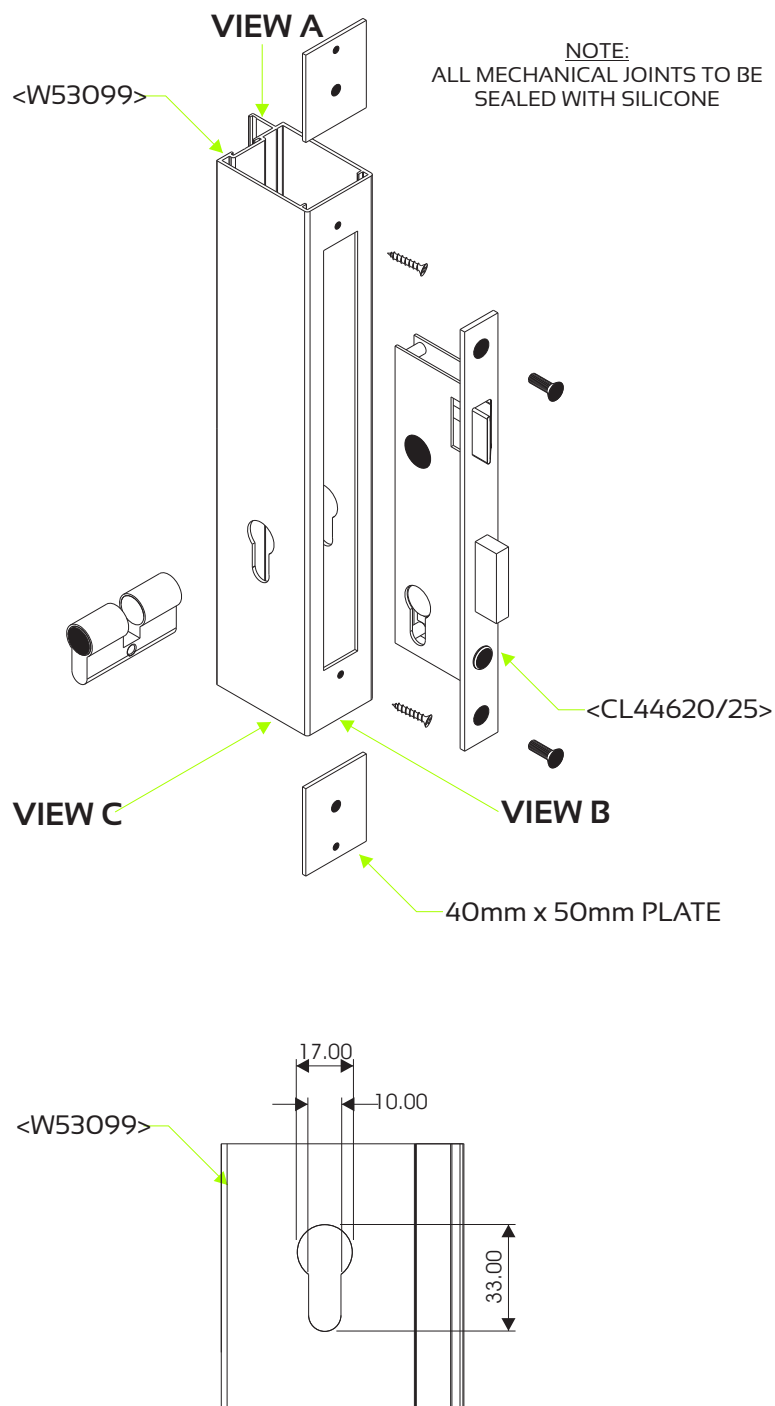
DETAIL TYPICAL TO HEAD AND SILL OF HINGED DOOR

1. ATTACH SPIGOTS TO STILES WITH NO 8 FIXING SCREWS (<STPPS830>)
2. FASTEN STILES TO TOP AND BOTTOM RAILS WITH NUTS (<NVT8MM>) AND THREADED RODS (<TR8MM>). USE WASHERS (<WSH8MM>).
3. ENSURE ALL MATING JOINTS ARE BEDDED IN SEALANT BEFORE ASSEMBLY.



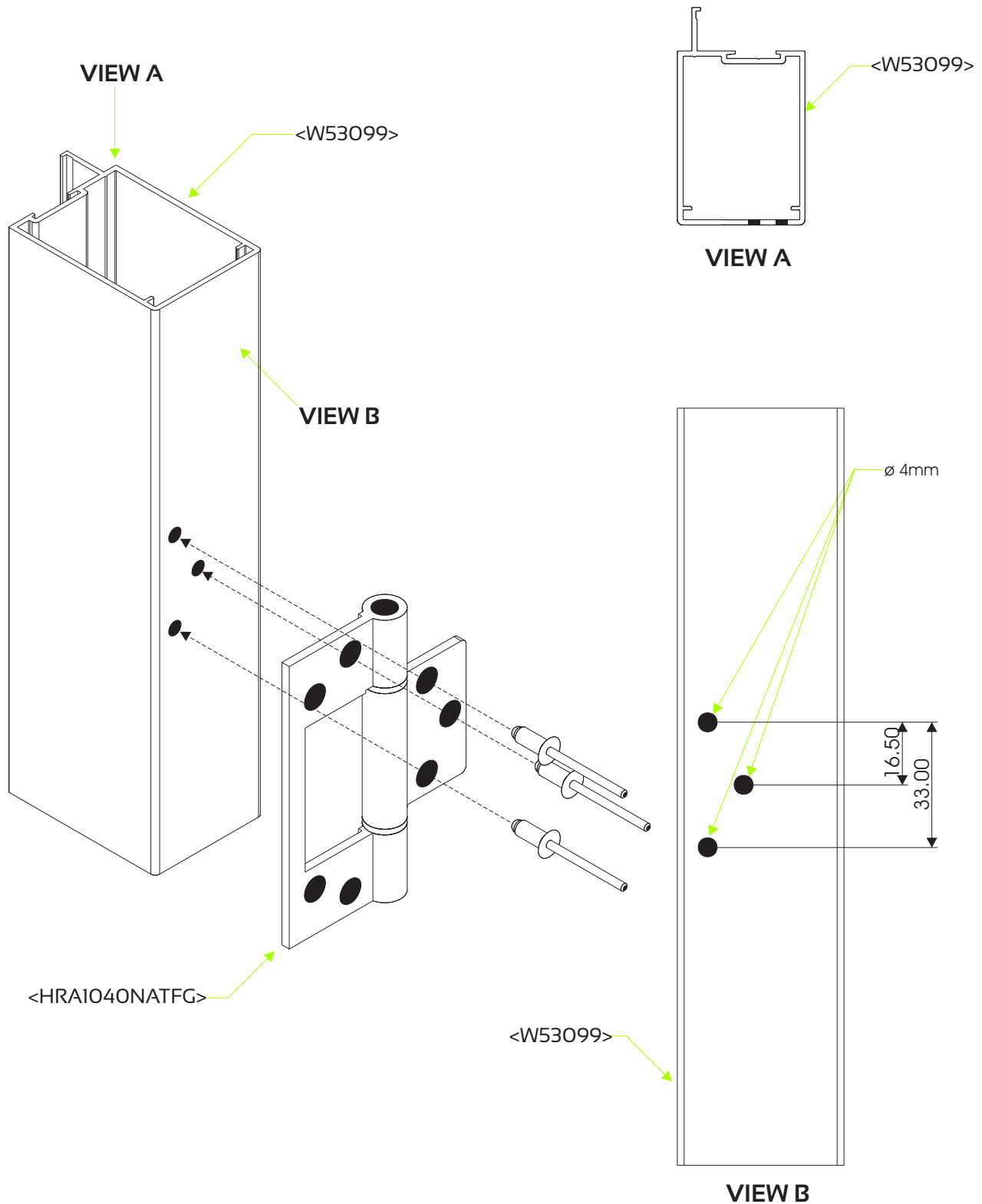
Hinge Machining Detail HRA1040NATFG

On Mullion To Suit 26B; 26C & 26E



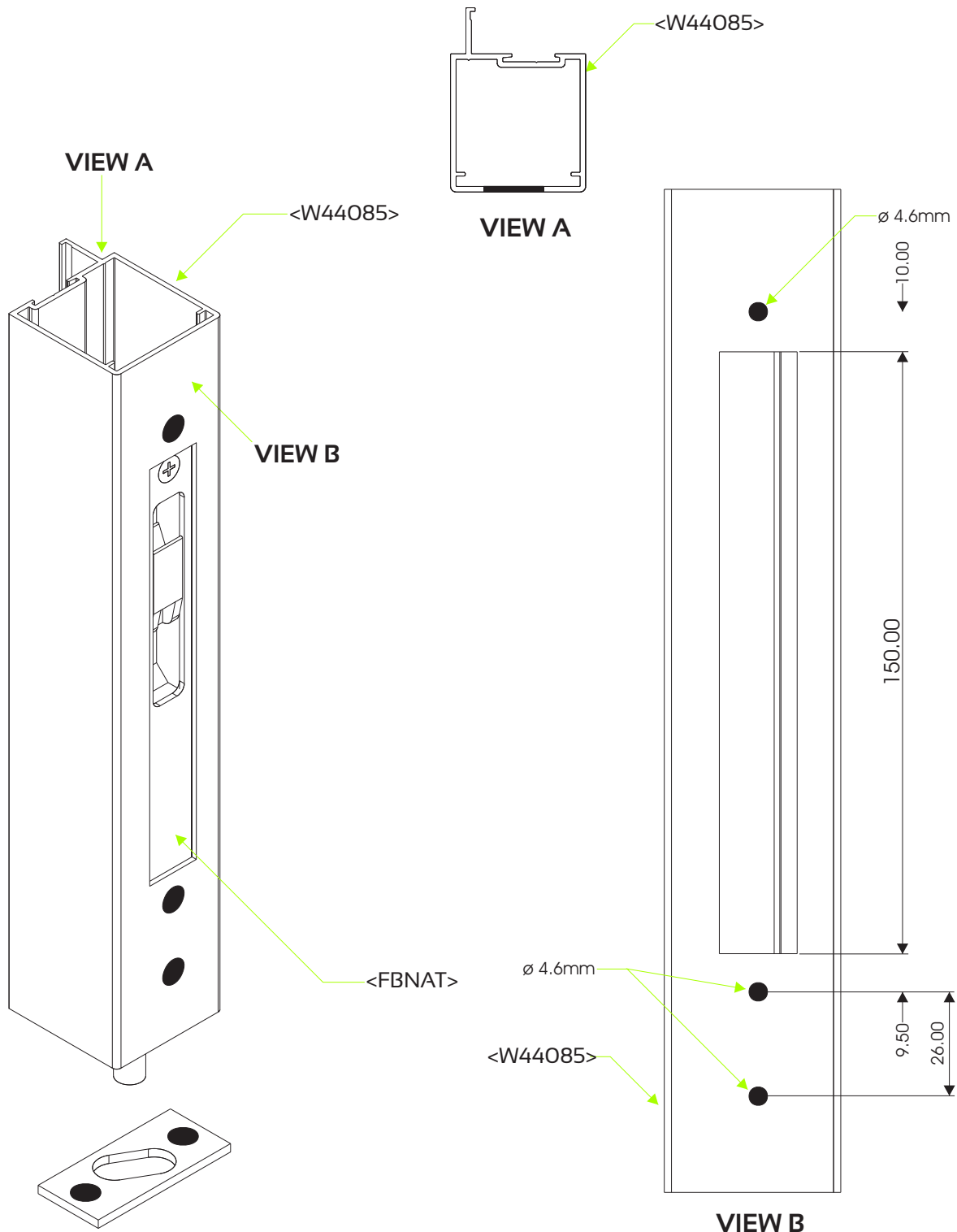
Hinge Machining Detail On Door Jamb

HRA1040NATFG



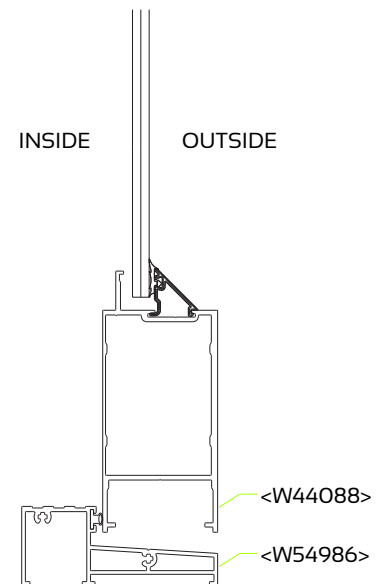
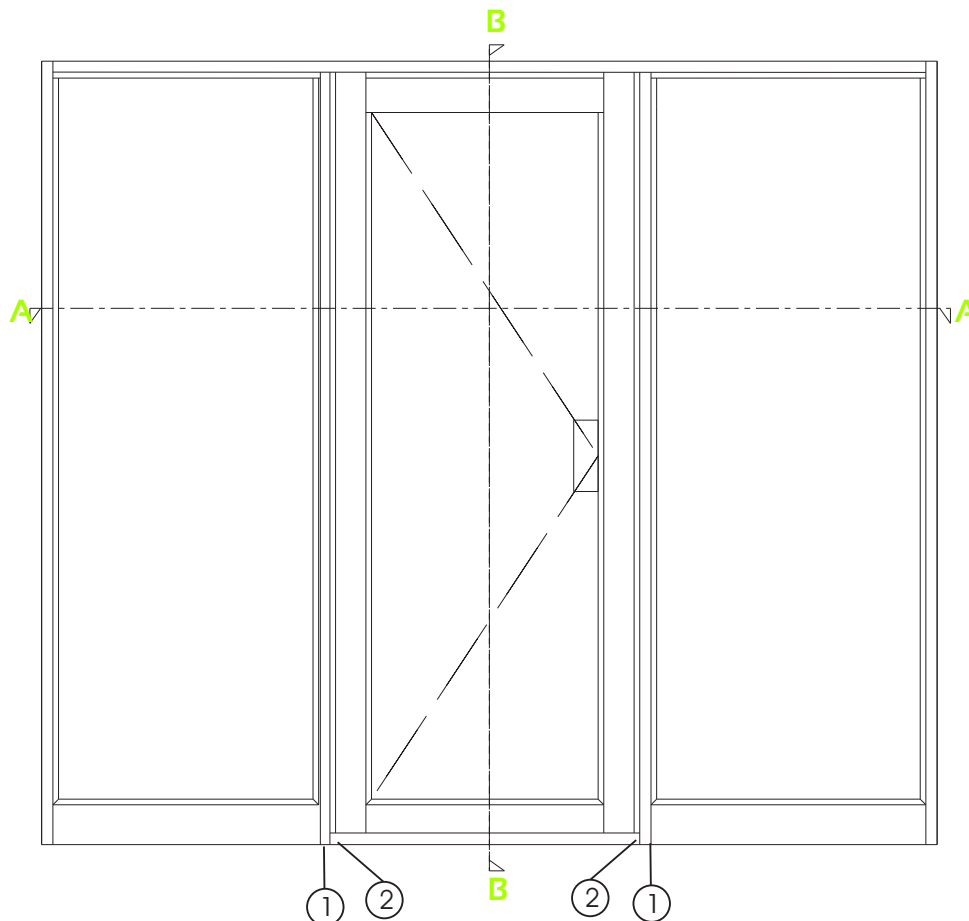
Flush Bolt Machining Detail On R1 Door

Jamb Used In Meeting Stile To Suit: R3SP;R9;R9W;R11 & R11W HRA1040NATFG



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

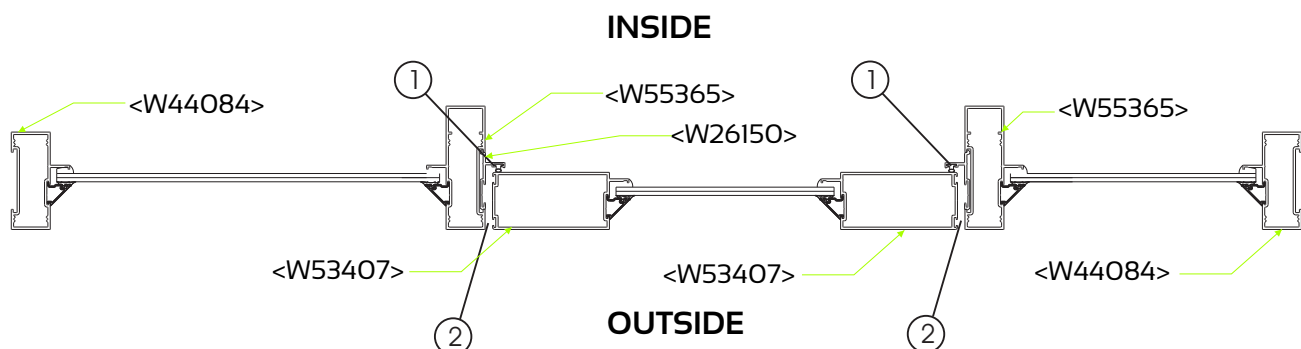
Section B-B



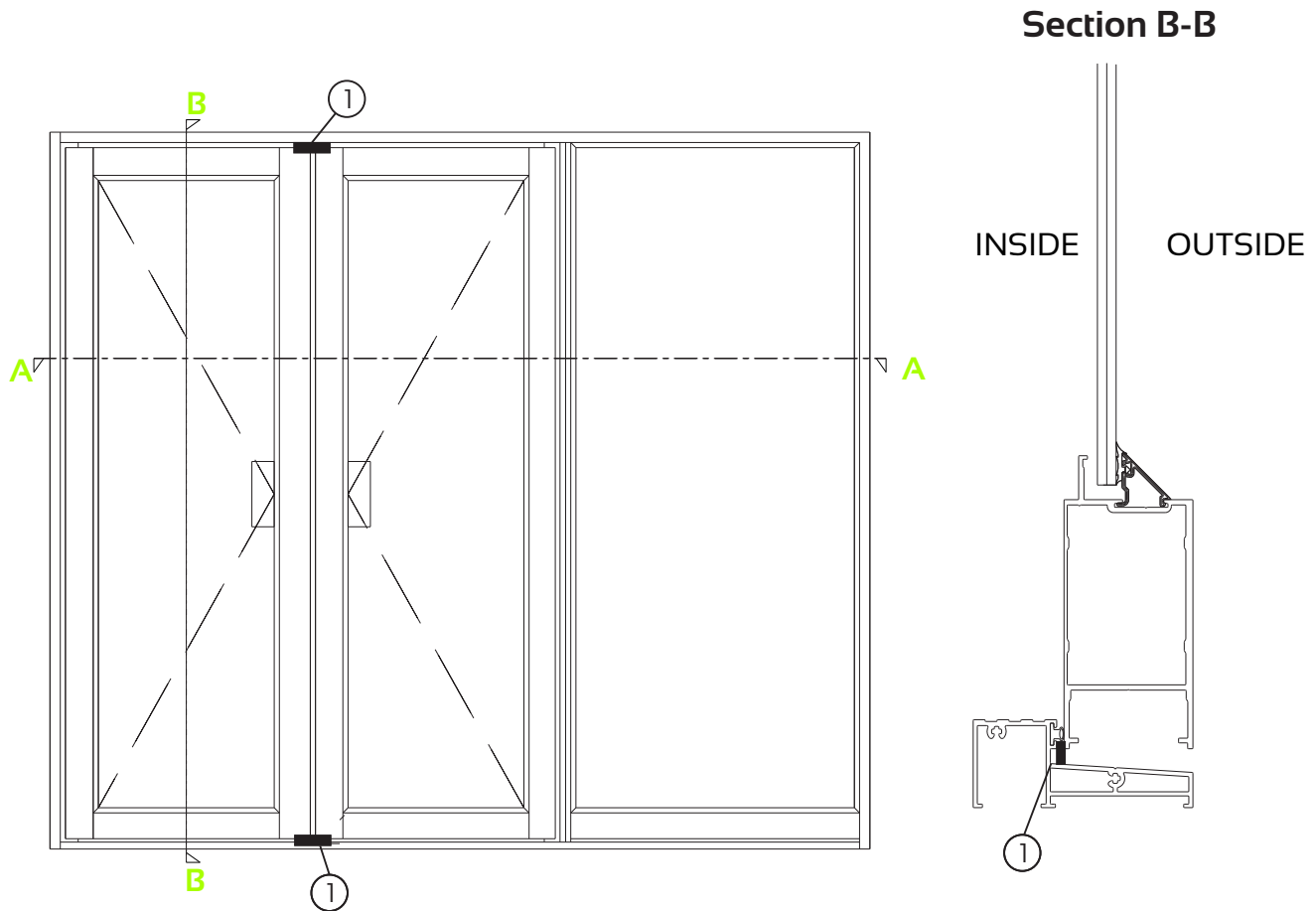
NOTES:

1. Silicone injected behind the hard backing bubble seal.
2. Silicone used in and around the outer frame weather seal joints to seal corners of bubble seal,

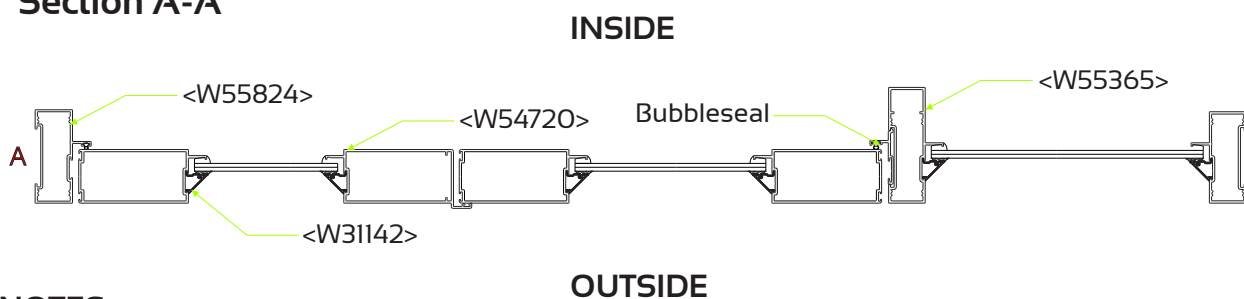
Section A-A



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



Section A-A



NOTES:

1. Sondor tape to be added on the inside of the sill and head sections where doors close.
2. Silicone to be added to the bubble seal backing

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.

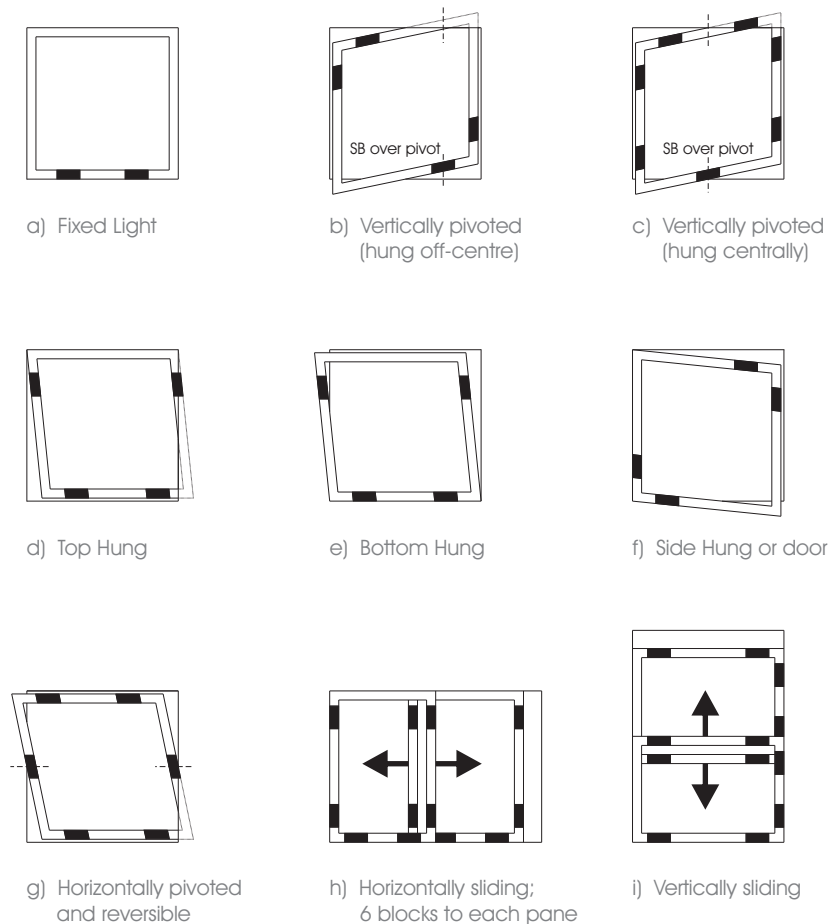


FIGURE 2 - POSITION OF SETTING AND LOCATION BLOCKS