



ClimateGuard™
Thermally-broken Windows & Doors

DARLEY
ALUMINIUM

TECHNICAL MANUAL

Architectural Sliding Door System



200mm

150mm

100mm

76mm

53mm

1042

Structural Deflection
Tested Pressure (Pa)

0.95

Air Infiltration
Leakage at 75 Pa

450

Water Rated
Tested Pressure (Pa)

2315

Ultimate Strength
Tested Pressure (Pa)

35

Acoustic Performance
Estimated Rw Value

BAL 40

BAL Fire Rating
Deemed to Satisfy



U Value
2.2 - 3.1

Max
30mm



Transom Draining



Subsill & Sump Draining

Disclaimer

Darley Aluminium strives to ensure the technical details contained in this manual are complete and correct. Occasionally, some errors or outdated information may require rectification - Darley Aluminium takes no responsibility for any loss or damage as a result of these errors. If you are unsure of any information provided within this manual, please contact your nearest Darley Aluminium office.

Engineering, manufacture and installation of frames must meet requirements of AS2047 (Windows in Buildings), AS 3959 (BAL) and WERS (Window Energy Rating Scheme). Glazing selected must meet requirements of AS 1288 (Glass in Buildings).

Size limitations are governed by design intent, glass selection, and local wind load requirements as per AS/NZS 1170.2 (Wind Actions) or AS 4055 (Wind Loads for Housing). An Engineer should be consulted to ensure selected framing and installation meets the requirements as set out by the relevant Australian Standards.

Any reference to an Australian Standard within this manual is based on the interpretations of Darley Aluminium. Code Compliance responsibility remains with the user of this manual. Misuse or misinterpretation of the information in this manual or of the Australian Standards remains the responsibility of the user of this manual.

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Welcome

Overview

Darley's ClimateGuard™ Architectural Door System provides a high performance sliding and stacking door solution that responds to the continual trend towards tighter energy rating requirements. The system is entirely thermally broken and provides greater energy ratings, whilst maintaining a competitive level of wind and water performance.

ClimateGuard™ Architectural Door is the future and ensures your fabrication and design remains contemporary and competitive within the market. The system is suitable for high end commercial developments and apartments.

Design Features

- Accepts glass thickness from 24mm to 30mm.
- Compatible with other Darley Aluminium Commercial Systems
- Compatible with various Darley mainframe options
- Thermally broken system for higher performance energy values
- Clean covers available to hide thermal strips if necessary
- Maximum recommended panel sizes of 2700mm x 1500mm
- Maximum recommended panel weight of 300kg (dependent on rollers and operational force)
- Tested and Approved by an independent NATA accredited laboratory

Performance Summary

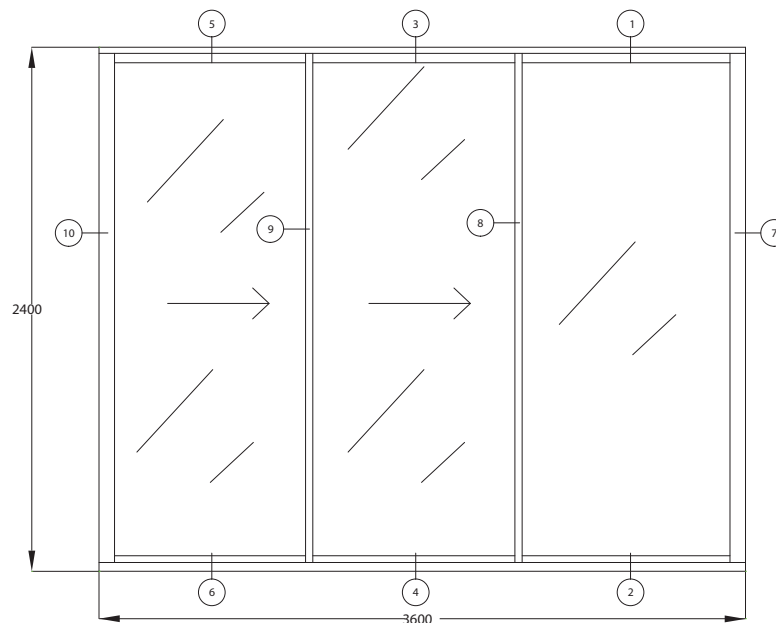
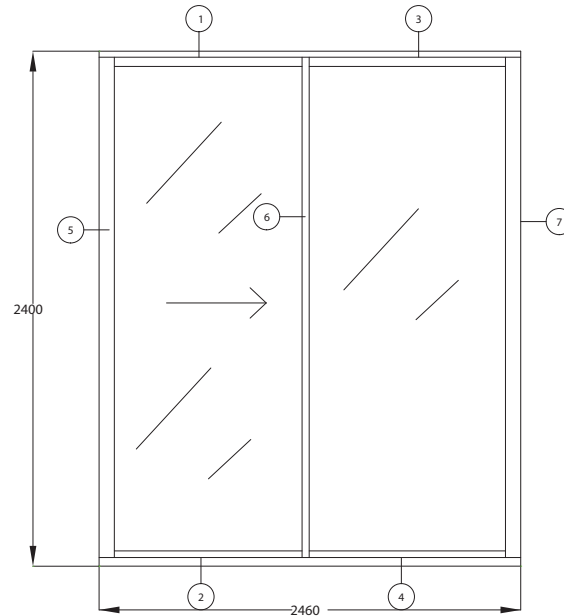
- Tested overall unit height of 2400mm
- Tested overall panel width of 1150mm
- Larger maximums achievable via strength charts
- Serviceability: 1042 Pa Positive and Negative
- Air Infiltration: 0.95 L/s.m² Positive and 1 L/s.m² Negative for FS Sliders;
- 1.53 L/s.m² Positive, 1.58 L/s.m² Negative for FSS Stackers.
- Water Penetration: 450 Pa for FS and FSS configurations
- Ultimate: 2315 Pa Positive and Negative for FS and FSS configurations
- (See 'Performance' section for more detail)
- Size limitations are governed by design intent, glass selection and local wind load and deflection requirements. For further technical assistance and fabricator selection contact Darley Aluminium.
- An Engineer should be consulted to ensure selected framing meets the requirements as set out in the relevant Australian Standards.

System Requirements

- Engineering, manufacture and installation of frames must meet requirements of:
 - AS2047-2048 (Windows in Buildings)
 - AS/NZS 1170 (Loading Code)
 - AS/NZS 1664 (Aluminium Structures Code)
- Glazing selected must meet requirements of AS1288 (Glass in Buildings)

Configuration

General Configuration



NOTES:

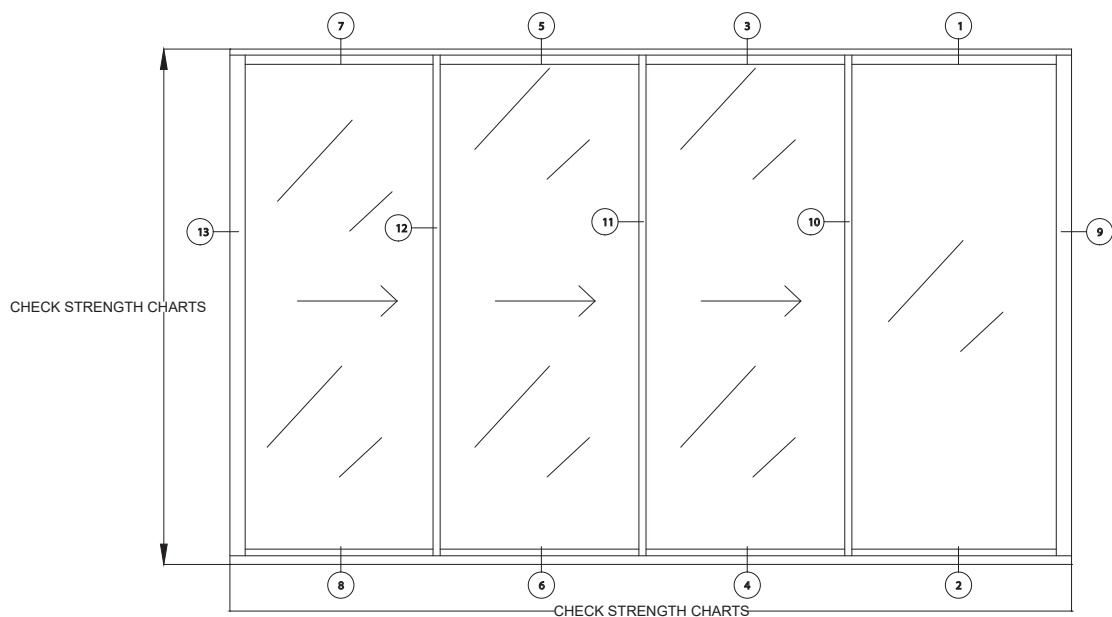
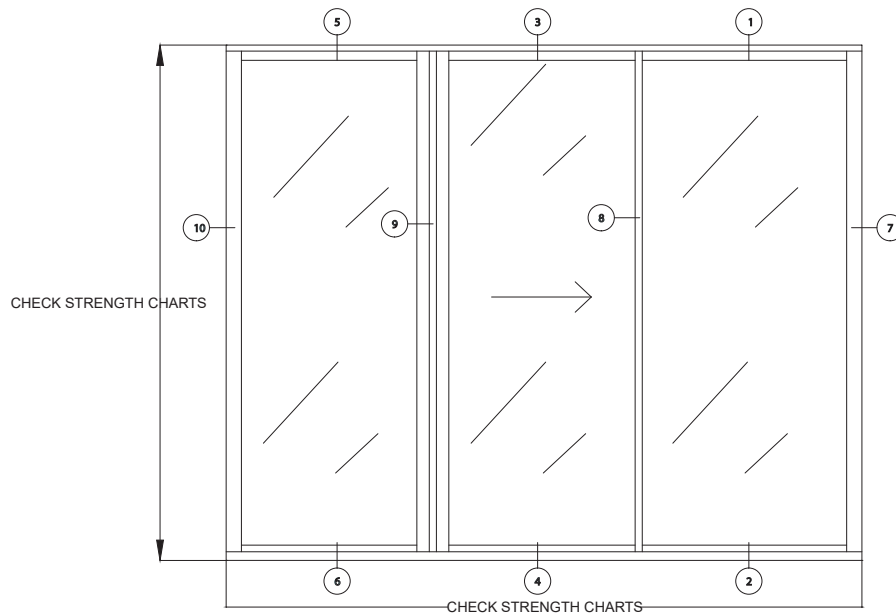
Engineering, manufacture and installation must meet requirements of AS 2047, AS3959, WERS and Acoustic requirements. Glazing selected must meet requirements of AS 1288. Size limitations are governed by design intent, glass selection, and local wind load requirements as per AS/NZS 1170.2 or AS 4055.

N.B.

- For frames, designs, and configurations outside the tested scope, an engineer or suitably qualified person should be consulted.
- All raw joints need to be sealed with small joint sealer or foam tab option.

General Configuration

Fabrication



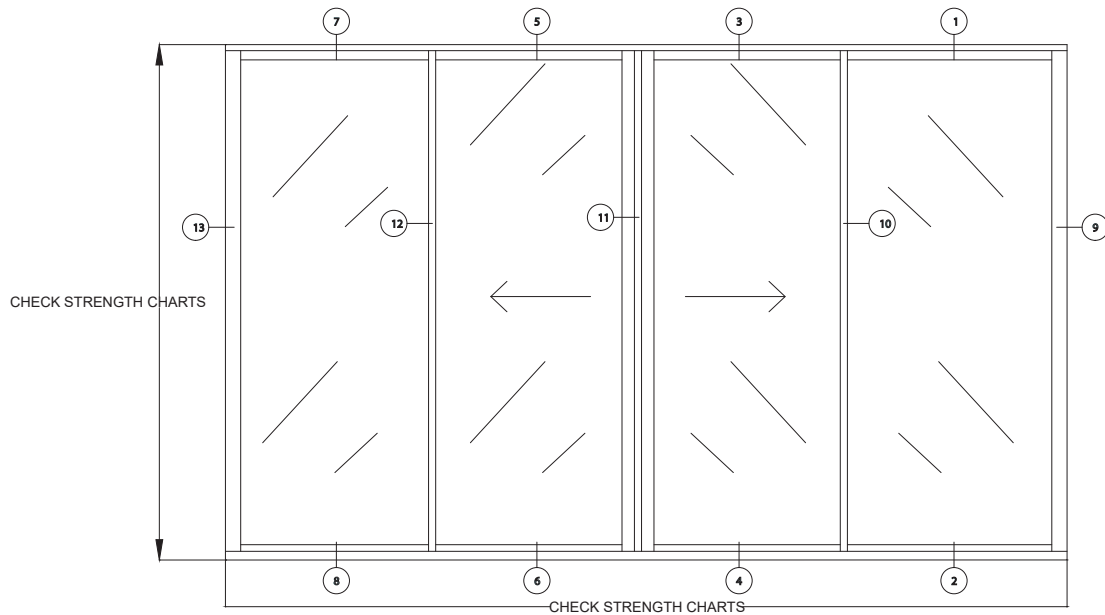
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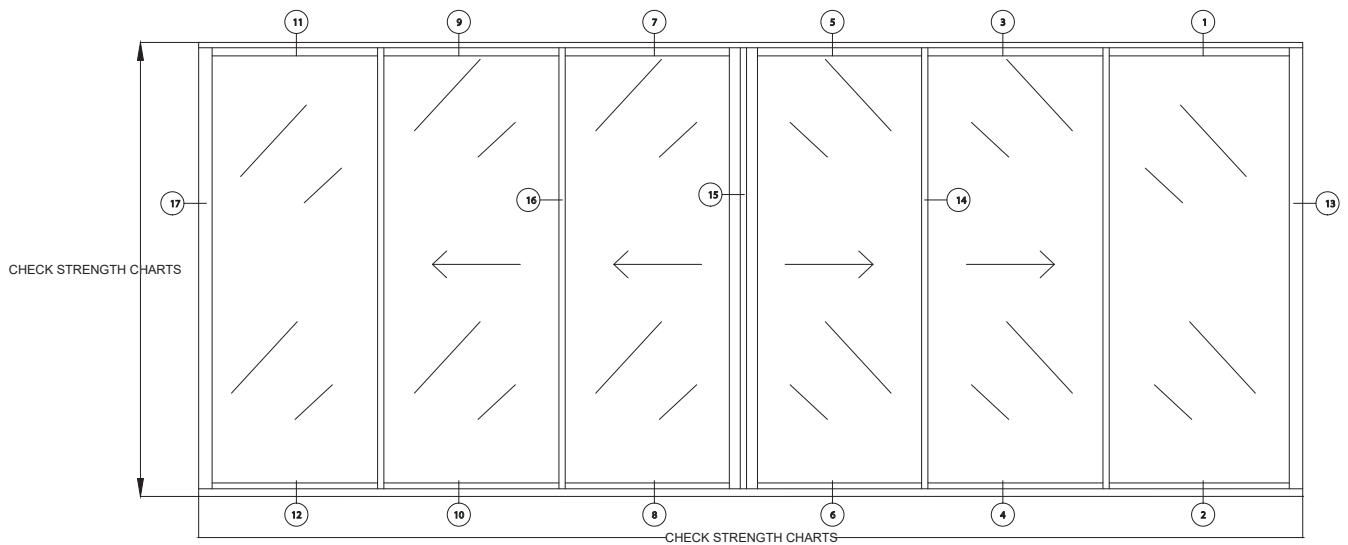
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General Configuration



Fabrication



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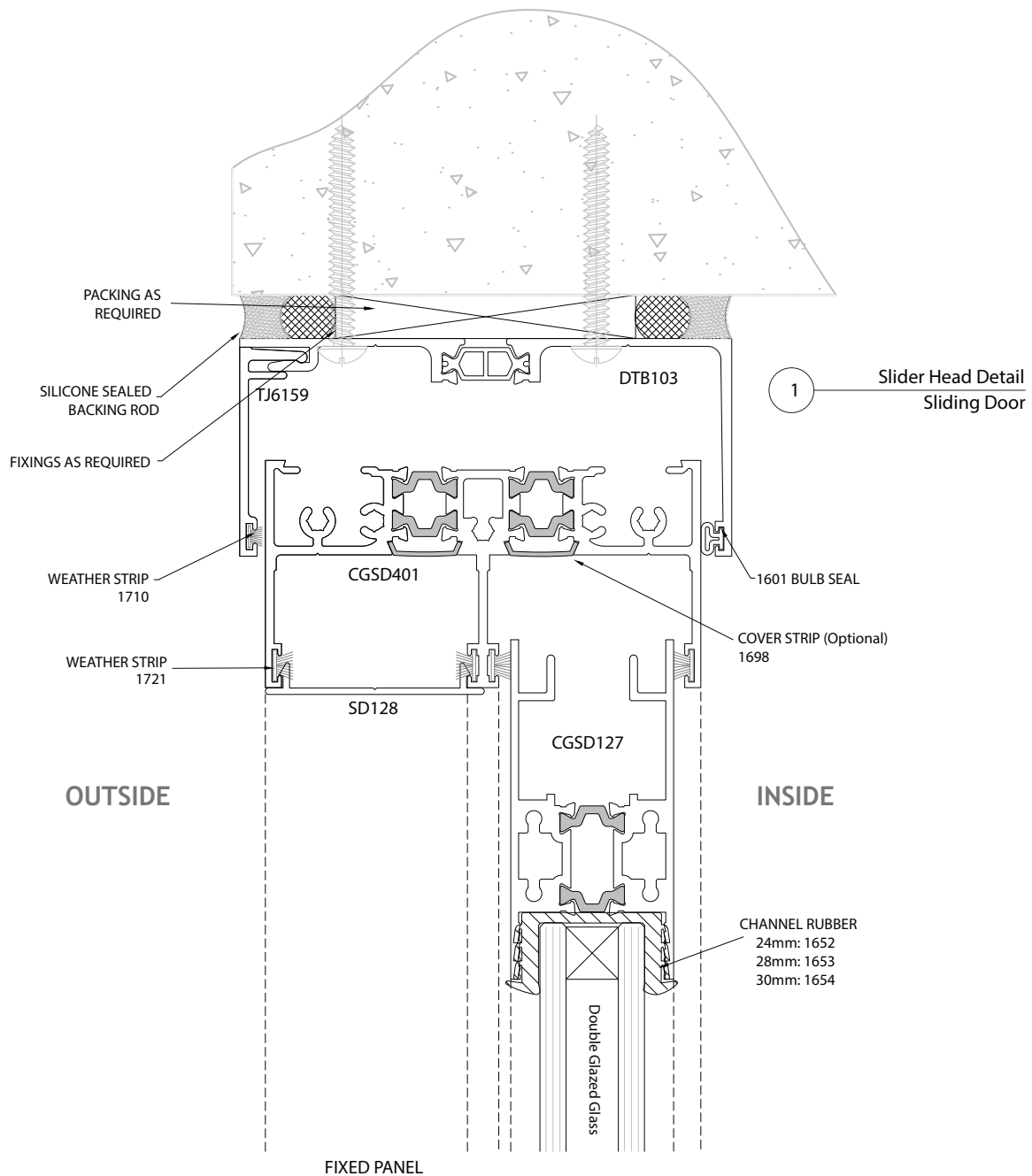
N.B.

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Cross Sections

Head Option: FS

Fabrication



NOTES:

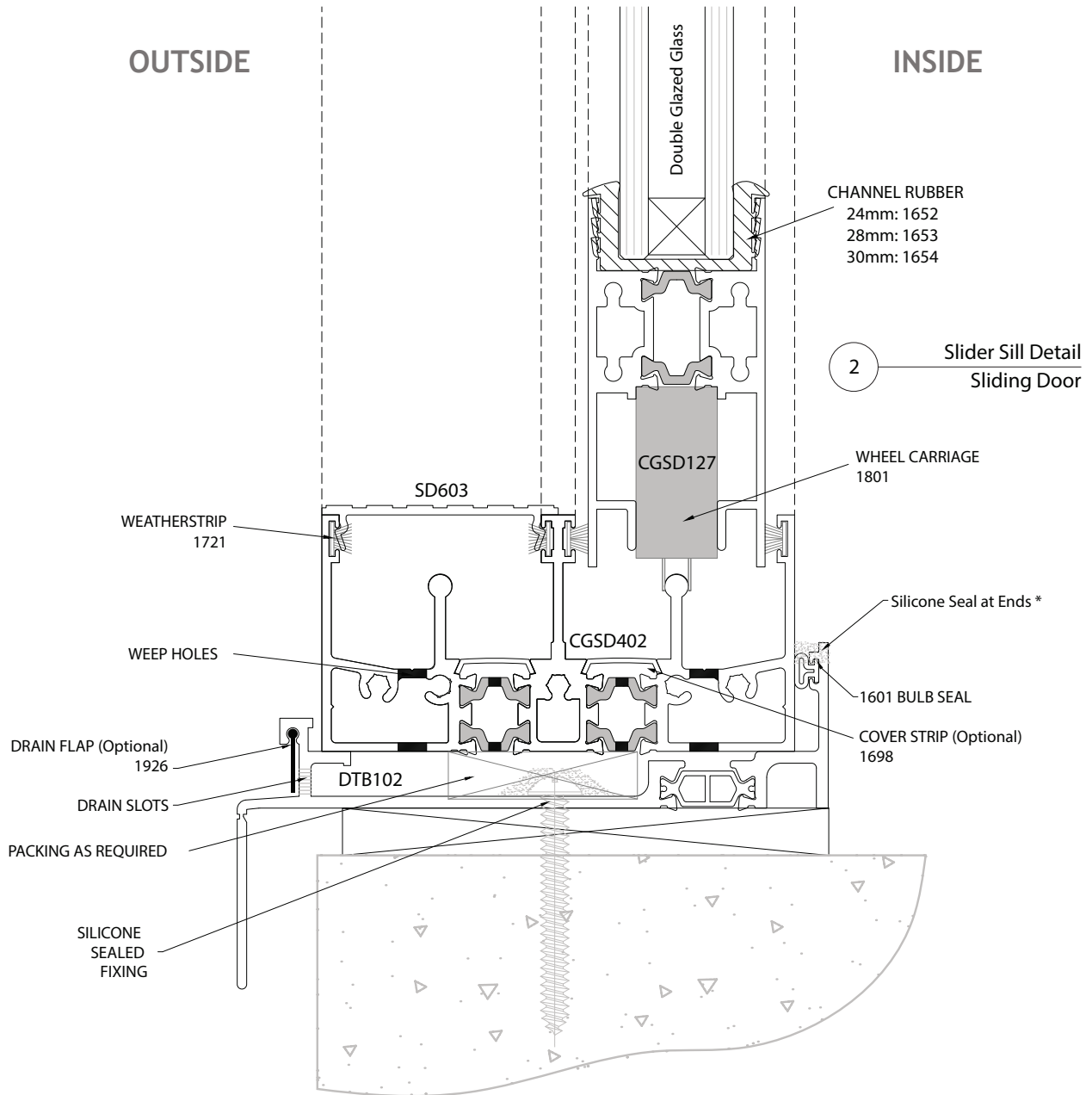
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Sill Option: FS Subsill Draining



NOTES:

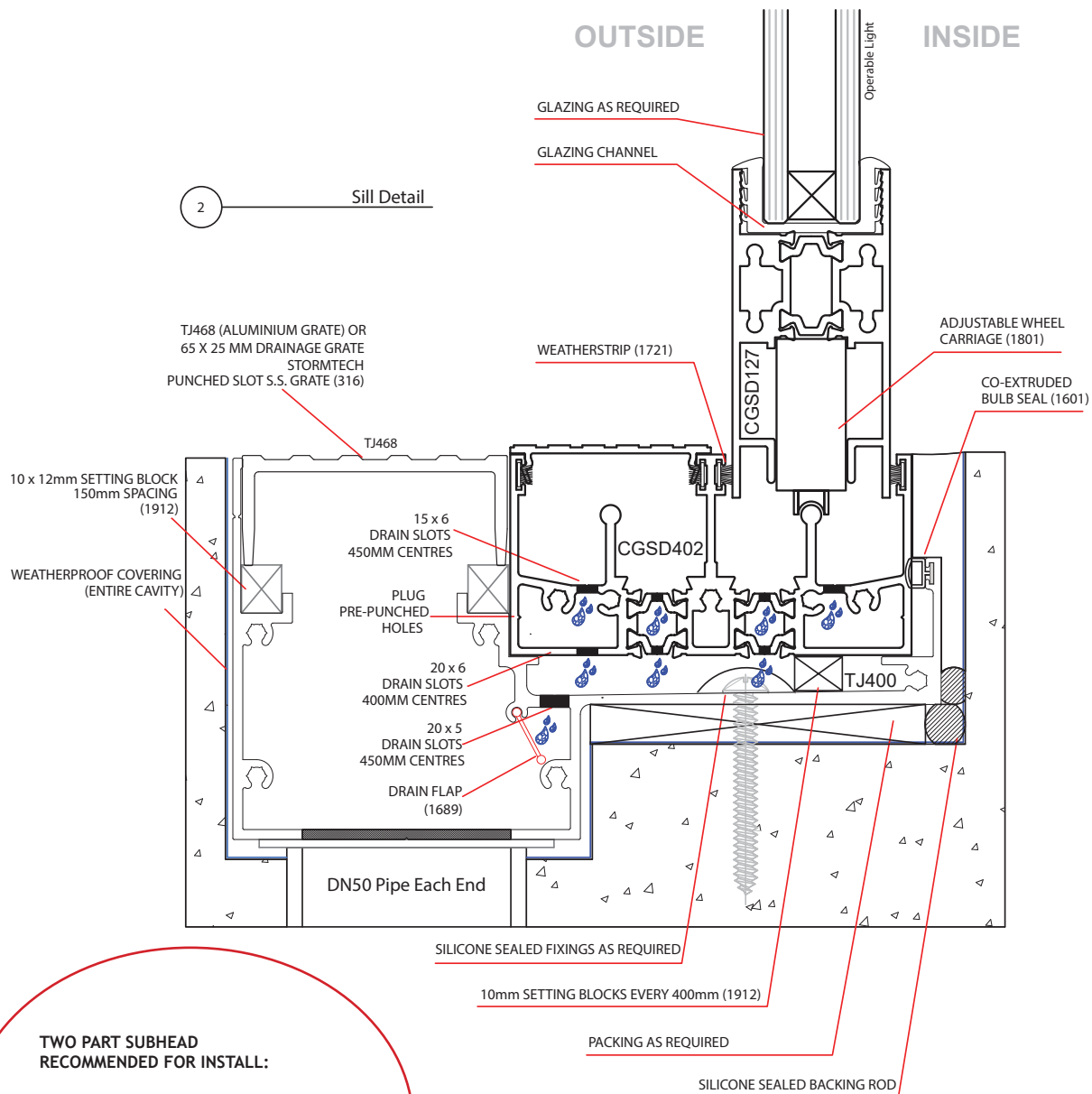
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N.B.

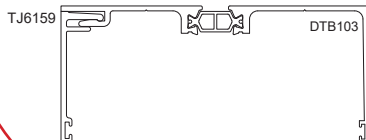
- For frames, designs, and configurations outside the tested scope, an engineer or suitably qualified person should be consulted.

- All raw joints need to be sealed with small joint sealer or foam tab option.

Sill Option: Sump Drain Slider



**TWO PART SUBHEAD
RECOMMENDED FOR INSTALL:**



NOTES:

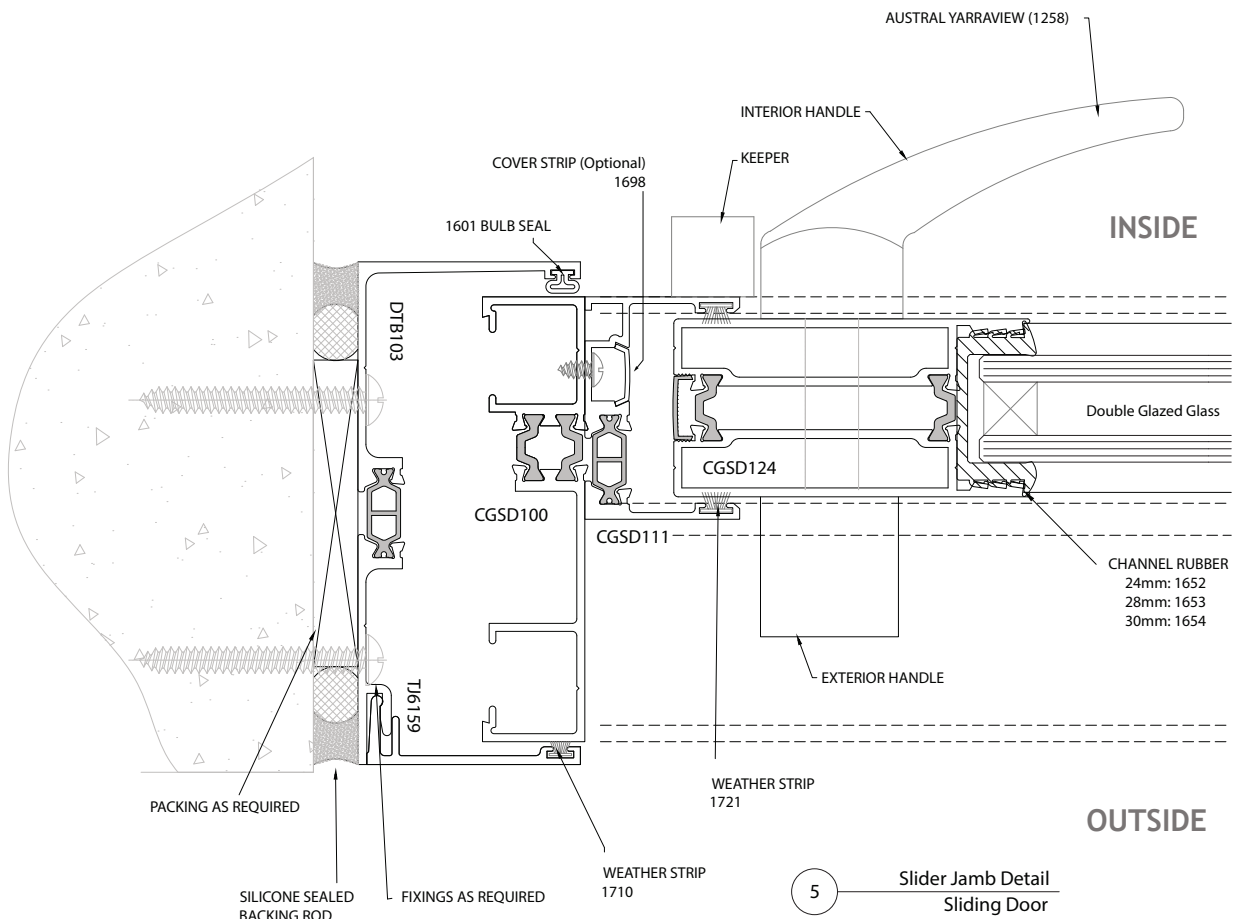
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- For frames, designs, and configurations outside the tested scope, an engineer or suitably qualified person should be consulted.

- All raw joints need to be sealed with small joint sealer or foam tab option.

Jamb Option: FS Sliding Panel



NOTES:

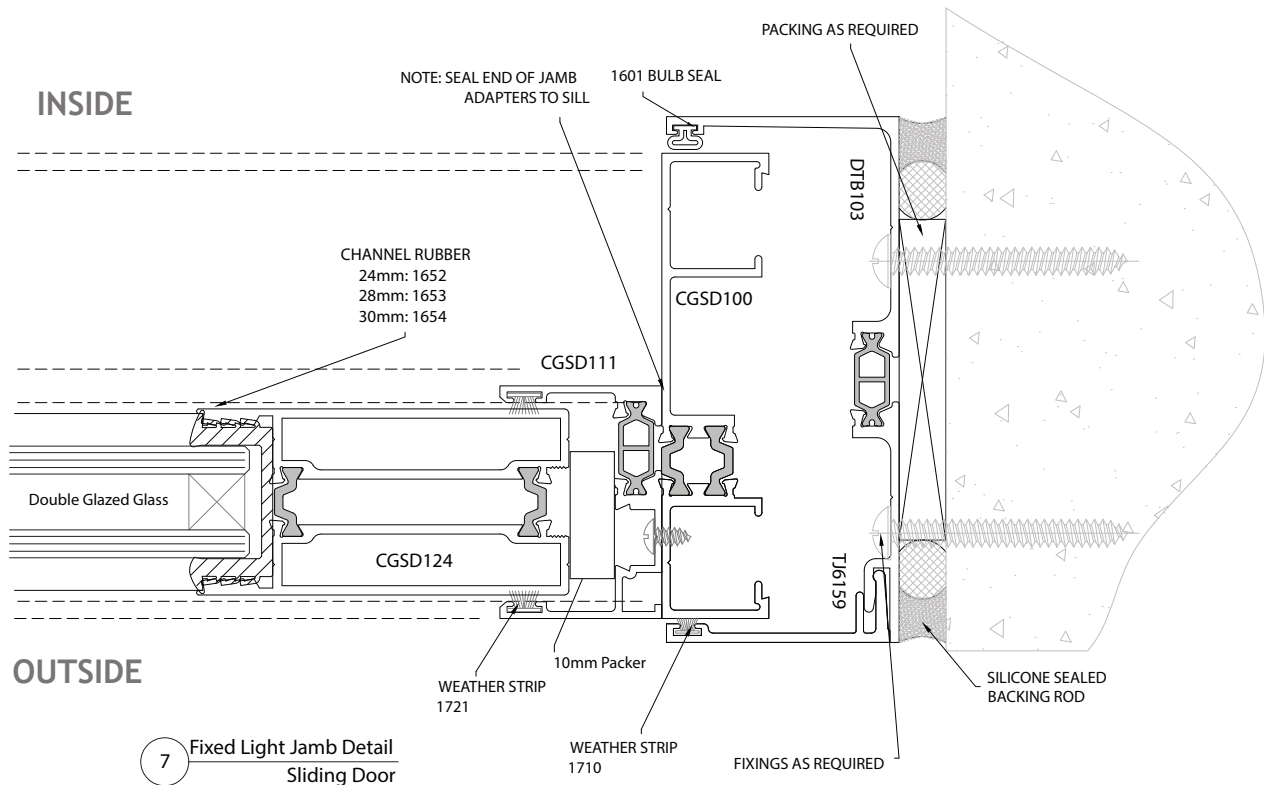
Engineering, manufacture and installation must meet requirements of AS 2047, AS3959, WERS and Acoustic requirements. Glazing selected must meet requirements of AS 1288. Size limitations are governed by design intent, glass selection, and local wind load requirements as per AS/NZS 1170.2 or AS 4055.

N.B.

- For frames, designs, and configurations outside the tested scope, an engineer or suitably qualified person should be consulted.
- All raw joints need to be sealed with small joint sealer or foam tab option.

Jamb Option: FS Fixed Panel

Fabrication



NOTES:

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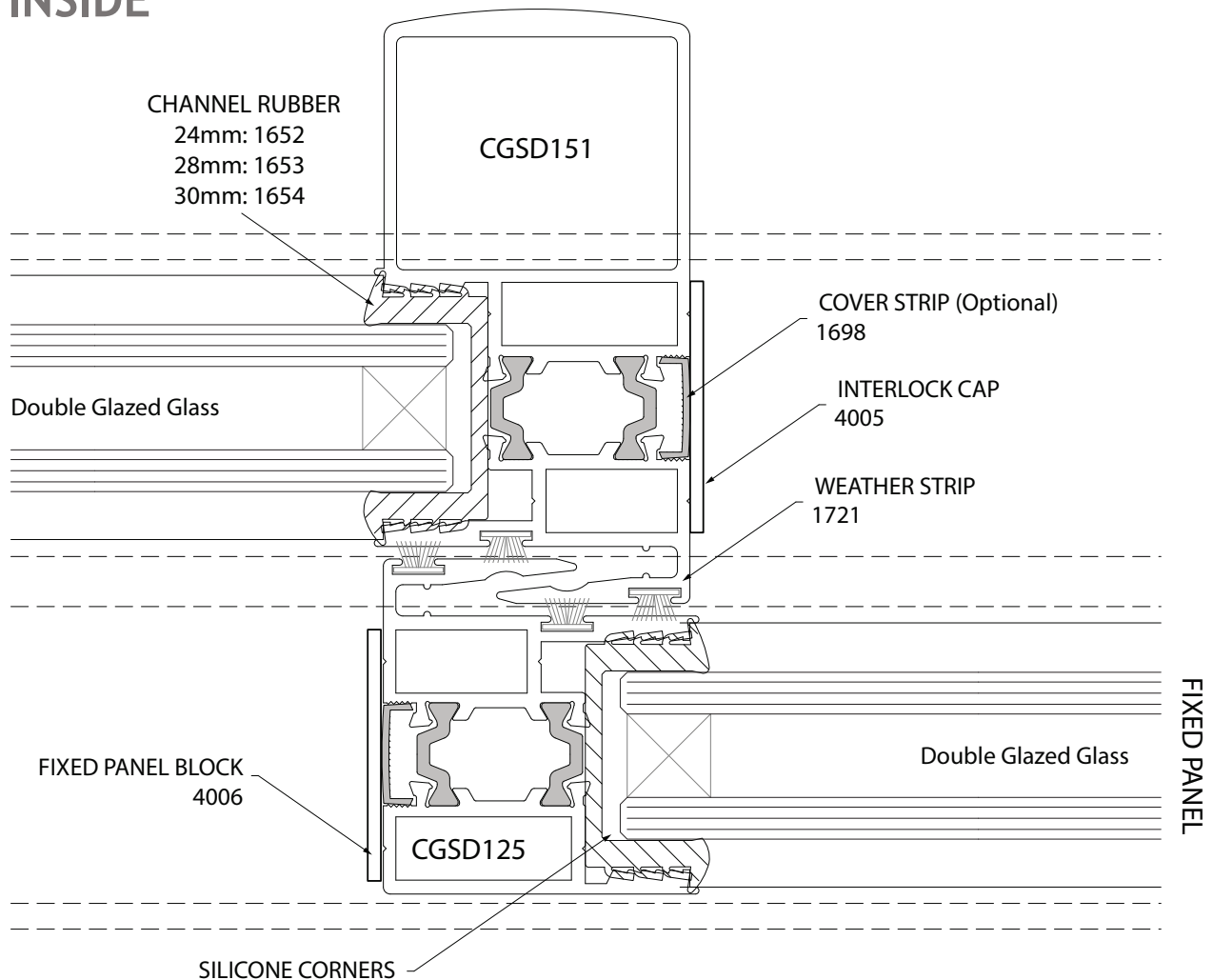
N.B.

- For frames, designs, and configurations outside the tested scope, an engineer or suitably qualified person should be consulted.

- All raw joints need to be sealed with small joint sealer or foam tab option.

Interlock Option: FS

INSIDE



6

Interlock Detail
Sliding Door

OUTSIDE

NOTES:

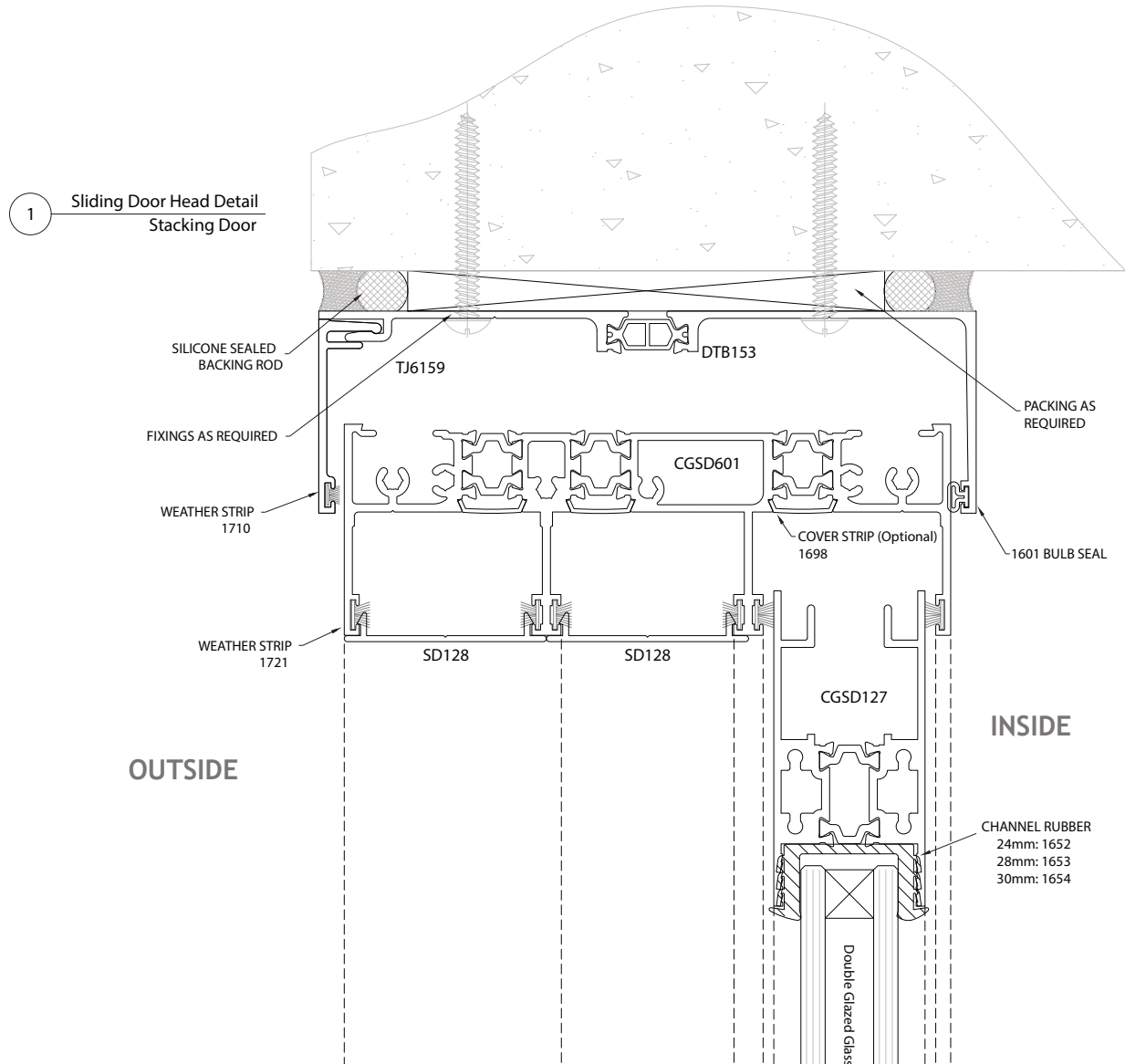
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- All raw joints need to be sealed with small joint sealer or foam tab option.

Fabrication

Head Option: FSS



NOTES:

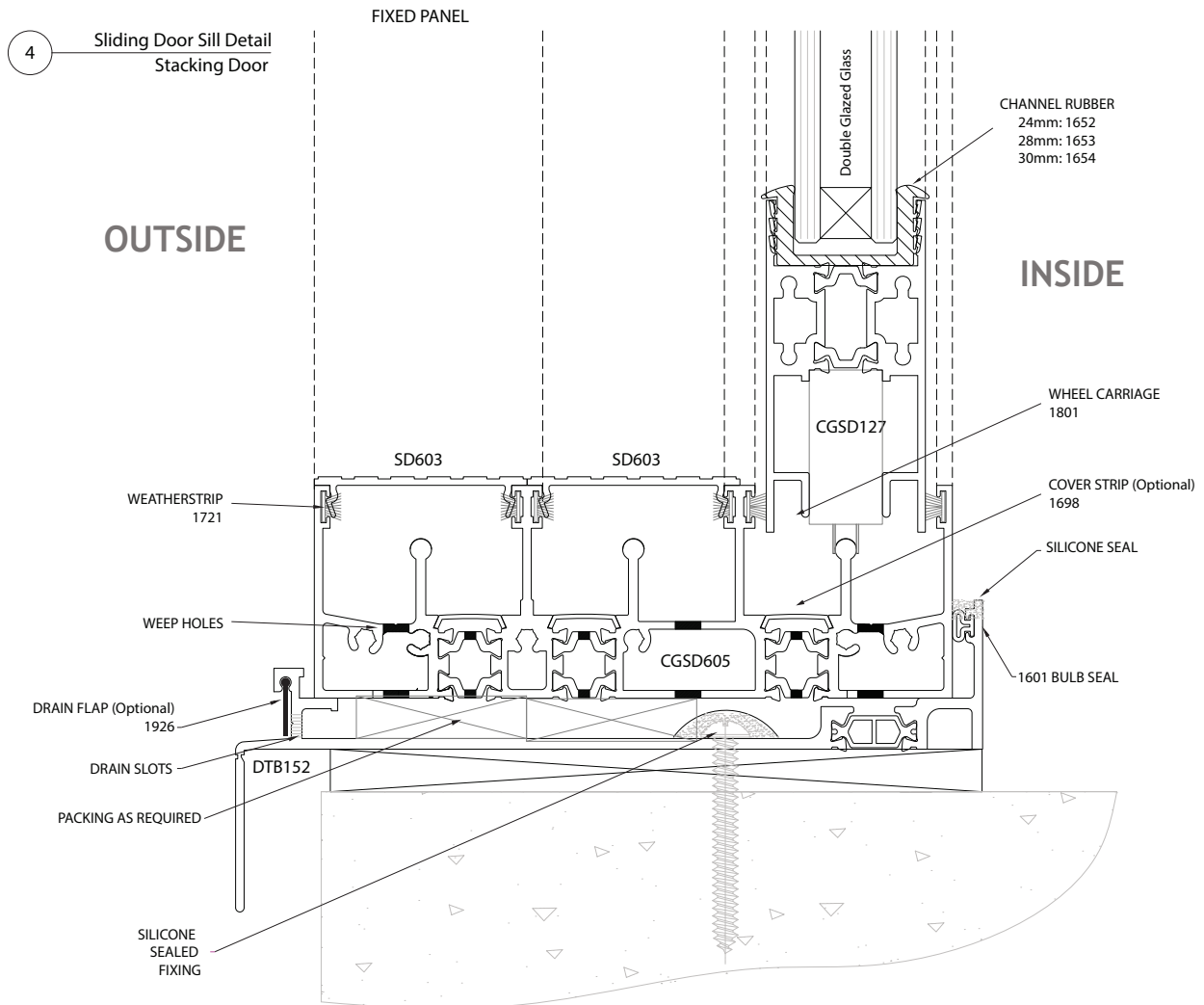
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- All raw joints need to be sealed with small joint sealer or foam tab option.

Sill Option: FSS



NOTES:

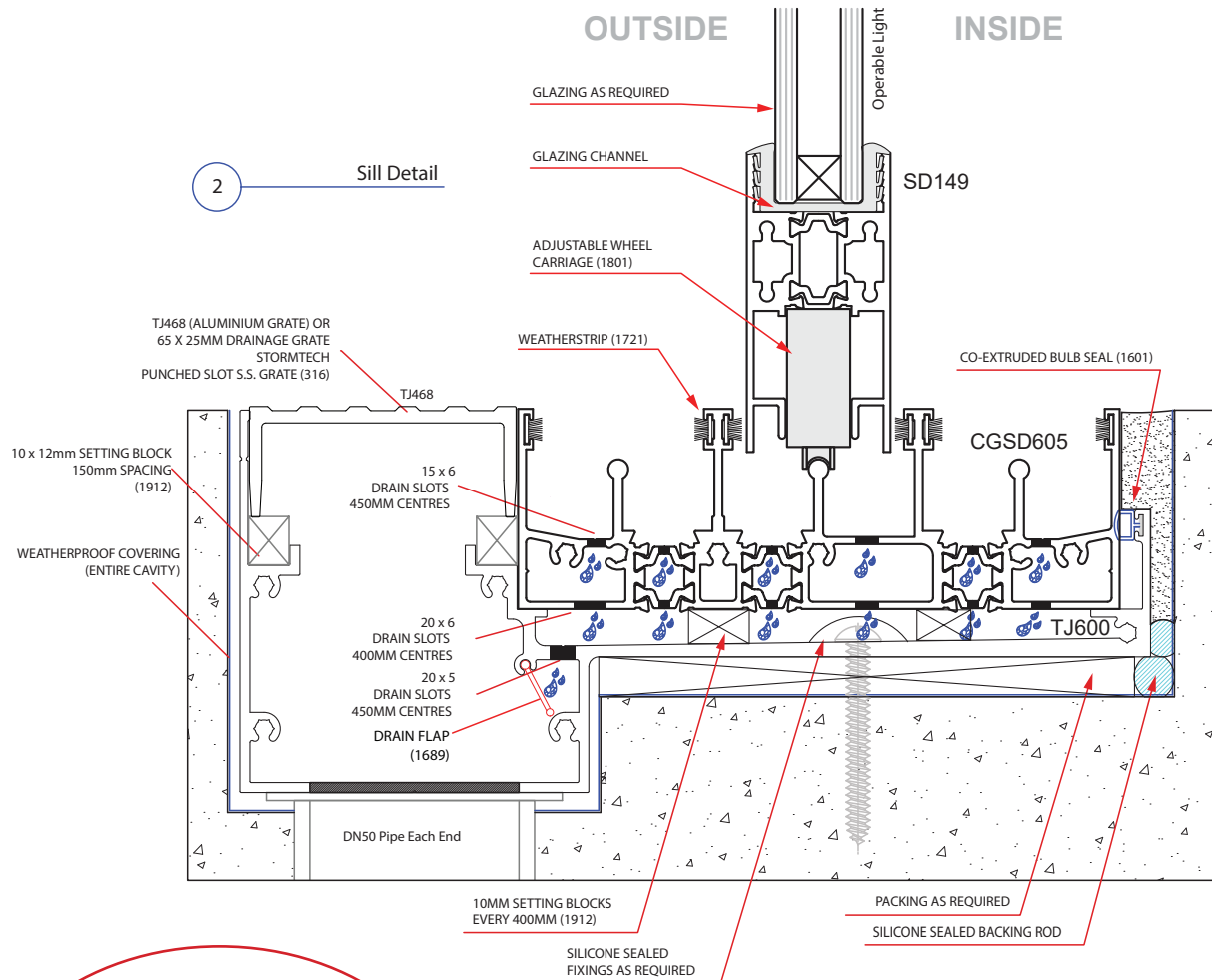
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N.B.

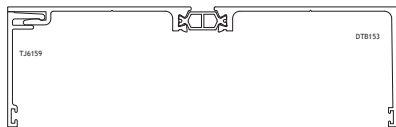
- For frames, designs, and configurations outside the tested scope, an engineer or suitably qualified person should be consulted.

- All raw joints need to be sealed with small joint sealer or foam tab option.

Sill Option: Sump Drain Stacker



**TWO PART SUBHEAD
RECOMMENDED FOR INSTALL:**



NOTES:

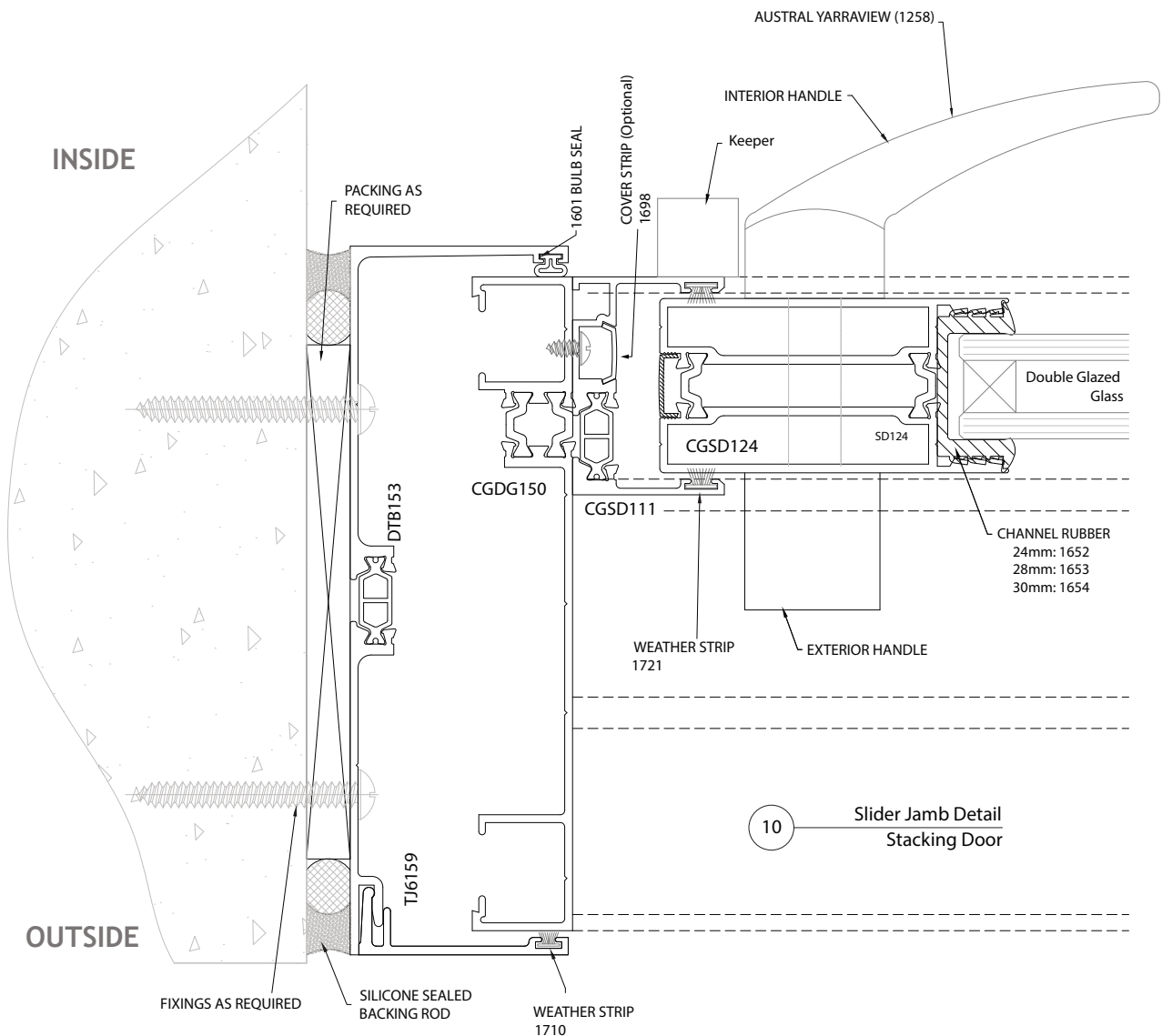
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N.B.

- For frames, designs, and configurations outside the tested scope, an engineer or suitably qualified person should be consulted.

- All raw joints need to be sealed with small joint sealer or foam tab option.

Jamb Option: FSS Operable Panel



Fabrication

NOTES:

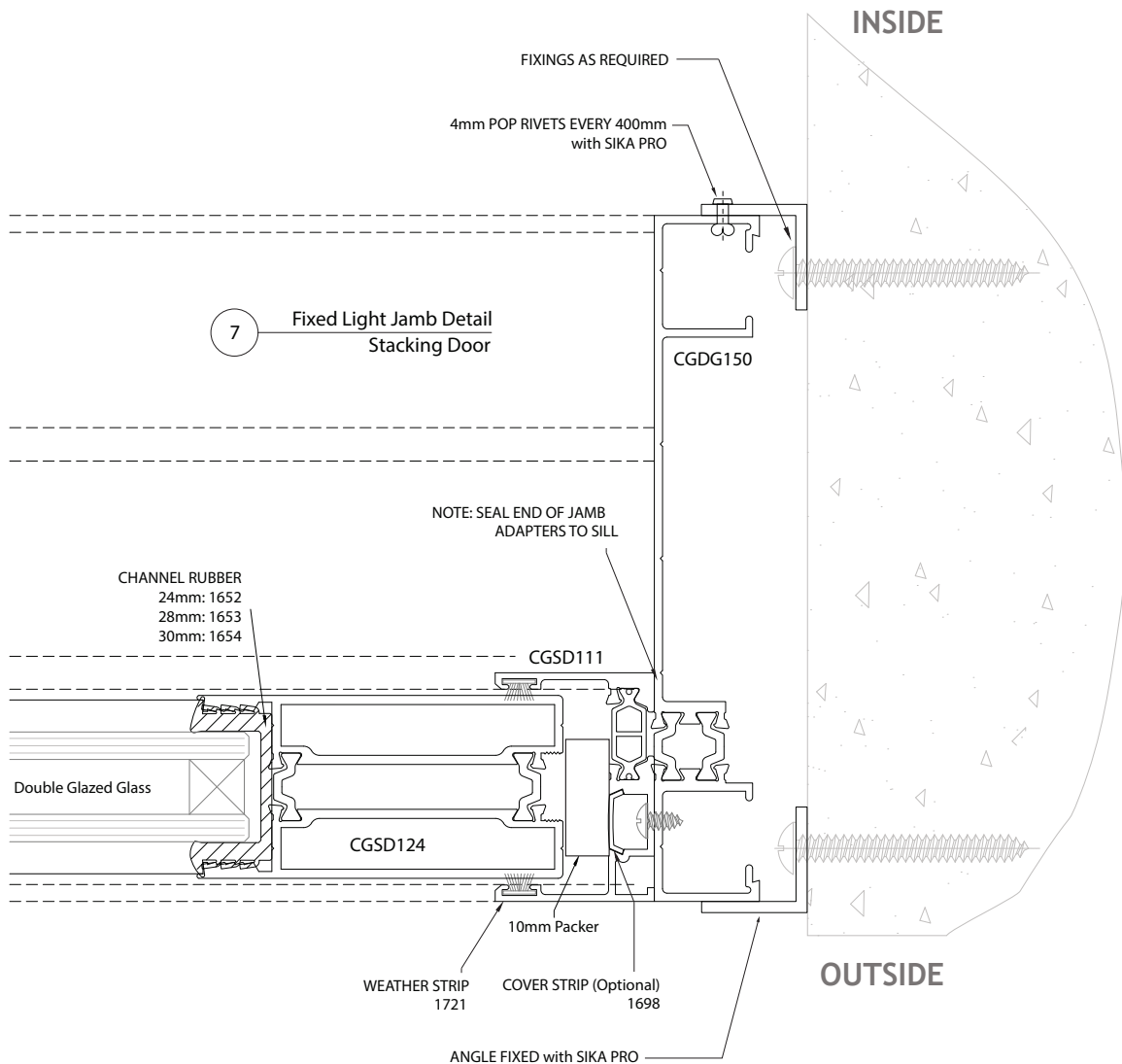
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N.B.

- For frames, designs, and configurations outside the tested scope, an engineer or suitably qualified person should be consulted.

- All raw joints need to be sealed with small joint sealer or foam tab option.

Jamb Option: FSS Fixed Panel



NOTES:

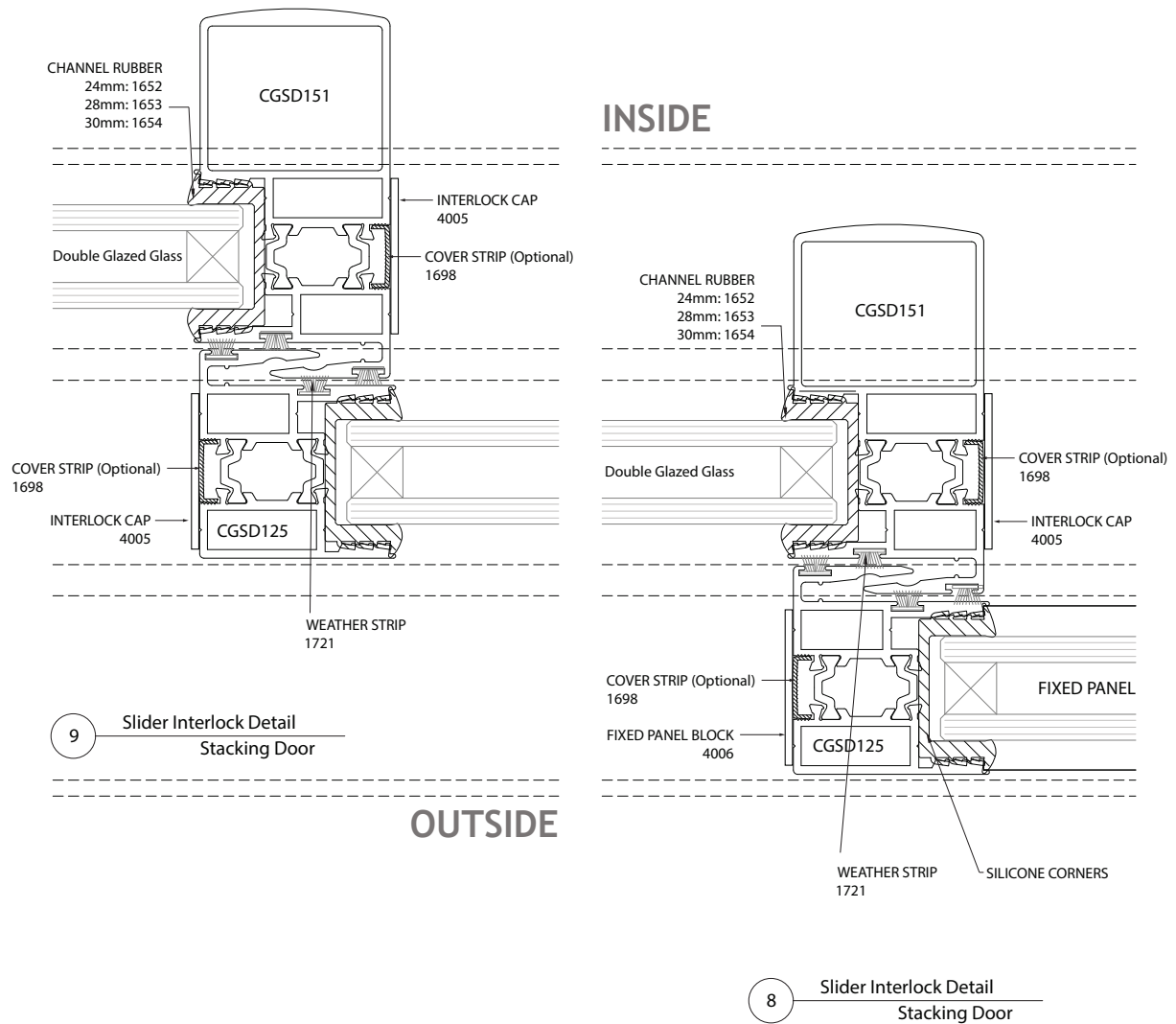
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N.B.

- For frames, designs, and configurations outside the tested scope, an engineer or suitably qualified person should be consulted.

- All raw joints need to be sealed with small joint sealer or foam tab option.

Interlock Option: FSS



NOTES:

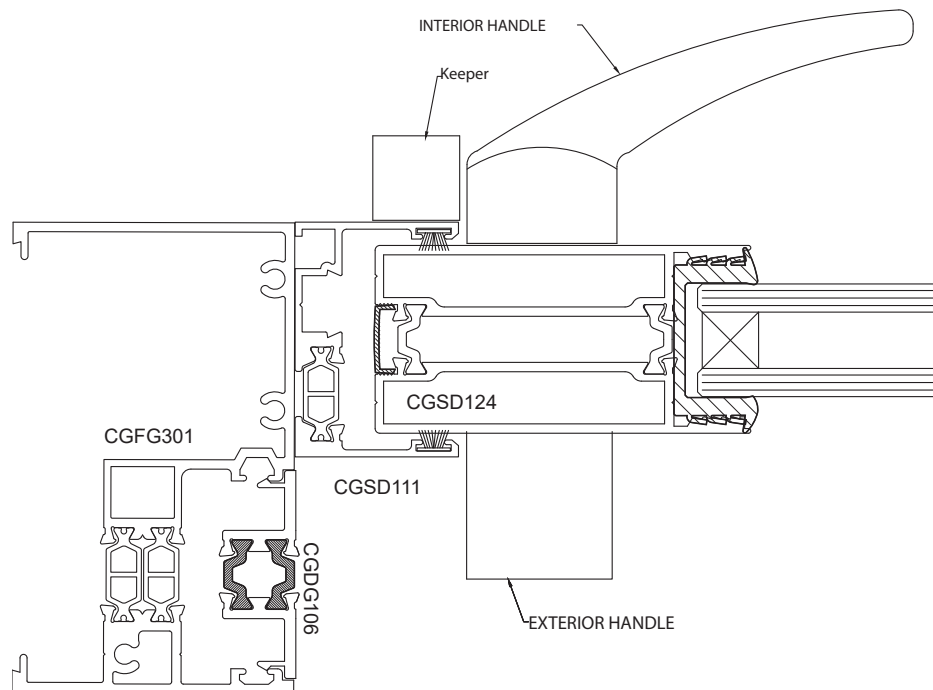
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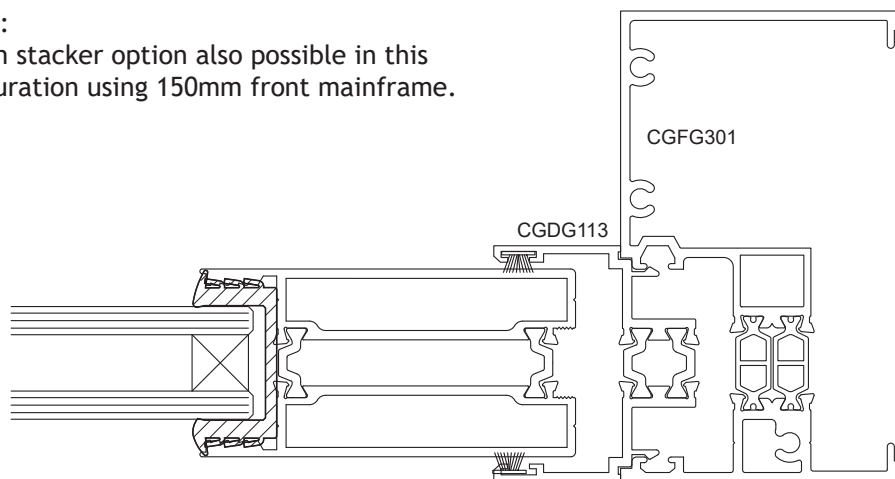
- For frames, designs, and configurations outside the tested scope, an engineer or suitably qualified person should be consulted.

- All raw joints need to be sealed with small joint sealer or foam tab option.

Alternative Jamb Option: Front Glazed Detail



NOTES:
 150mm stacker option also possible in this configuration using 150mm front mainframe.



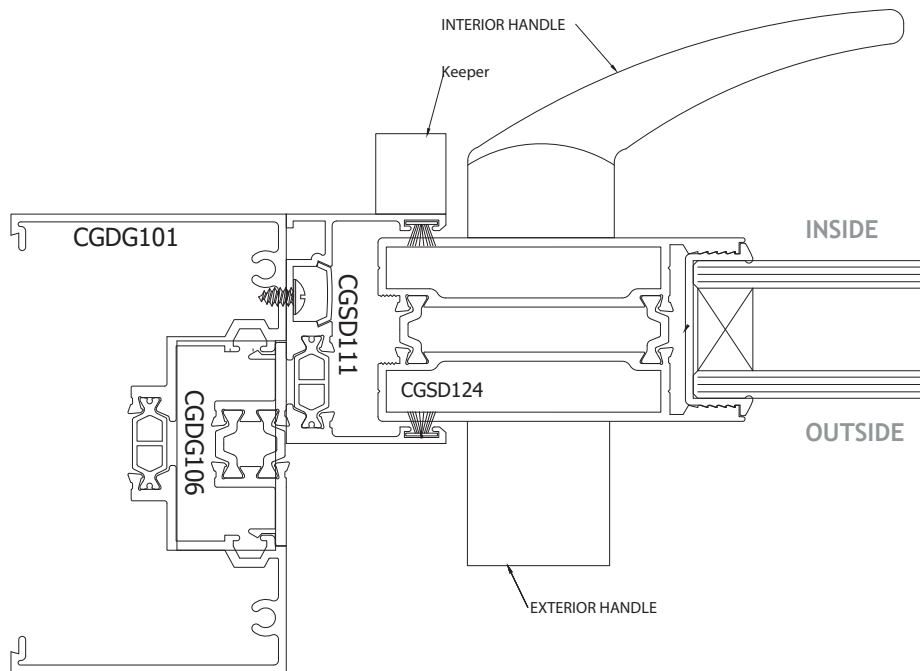
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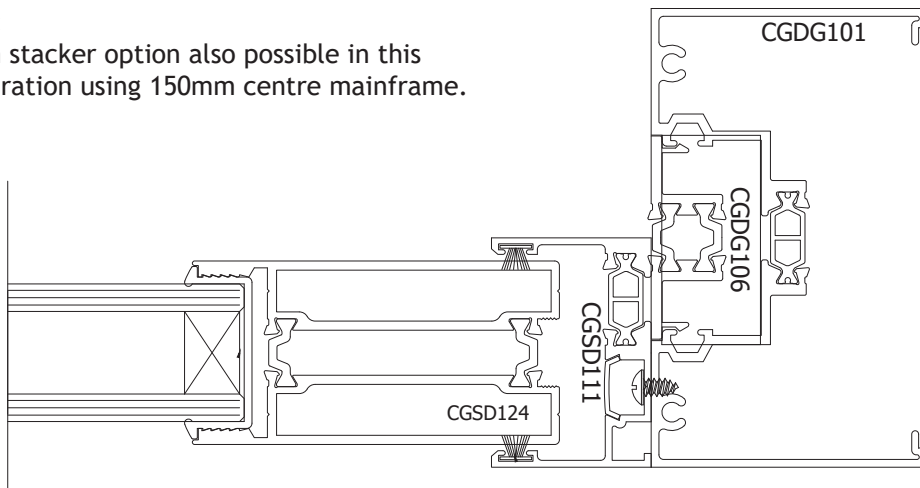
N.B.

- For frames, designs, and configurations outside the tested scope, an engineer or suitably qualified person should be consulted.
- All raw joints need to be sealed with small joint sealer or foam tab option.

Alternative Jamb Option: Centre Glazed Detail



NOTES:
 150mm stacker option also possible in this configuration using 150mm centre mainframe.



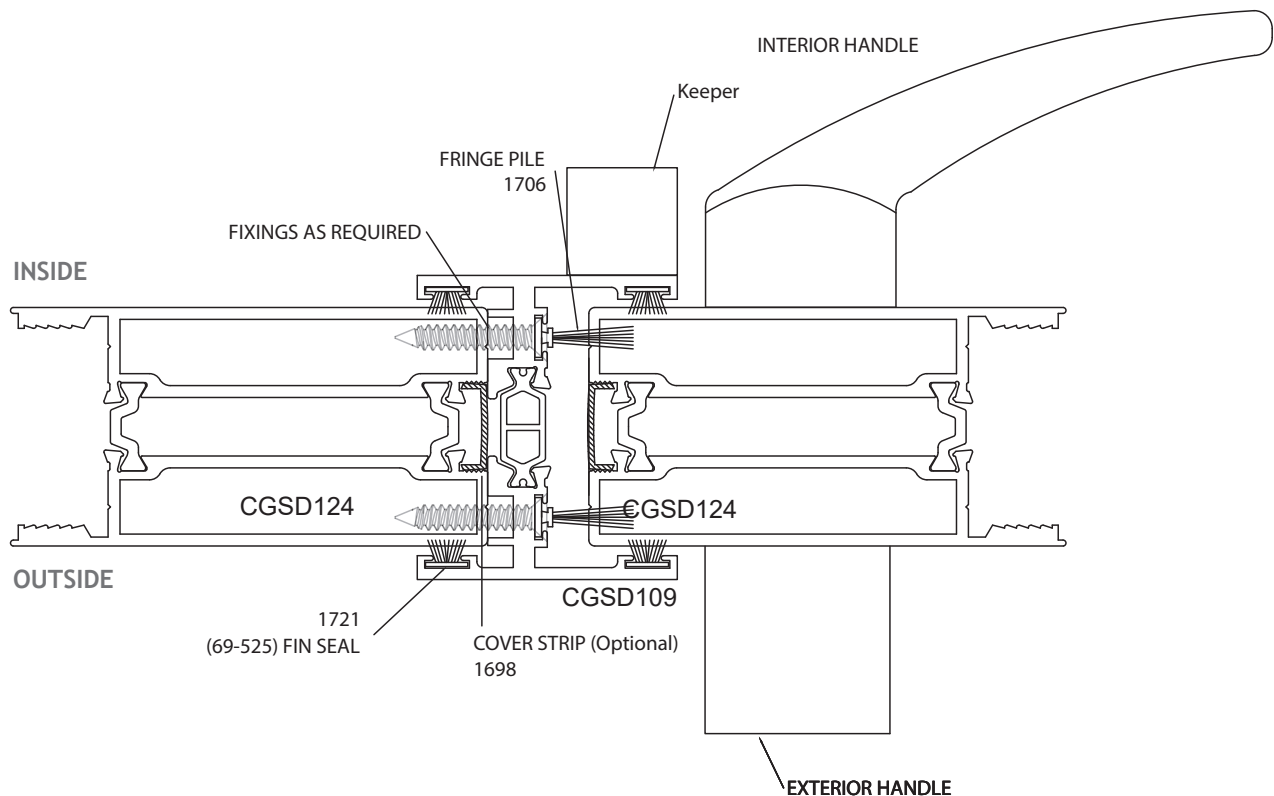
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N.B.

- For frames, designs, and configurations outside the tested scope, an engineer or suitably qualified person should be consulted.
- All raw joints need to be sealed with small joint sealer or foam tab option.

Alternative Interlock Option: FSF/FSSF/FSSSSF Using CGSD109



NOTES:

Engineering, manufacture and installation must meet requirements of AS 2047, AS3959, WERS and Acoustic requirements. Glazing selected must meet requirements of AS 1288. Size limitations are governed by design intent, glass selection, and local wind load requirements as per AS/NZS 1170.2 or AS 4055.

N.B.

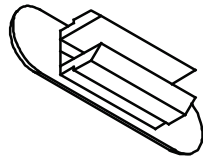
- For frames, designs, and configurations outside the tested scope, an engineer or suitably qualified person should be consulted.
- All raw joints need to be sealed with small joint sealer or foam tab option.

Hardware

Small Parts



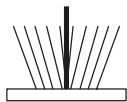
Transom Plug
Part No. 1495
(9 per Sheet)



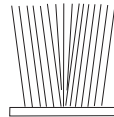
1990
SILL PLUG



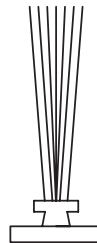
1601
BULB SEAL



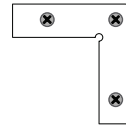
1721
FINSEAL



1710
WEATHER STRIP



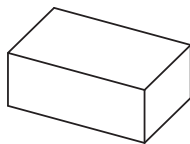
1706
FSSF
WEATHER STRIP



CORNER BRACKET
Part No. 1823



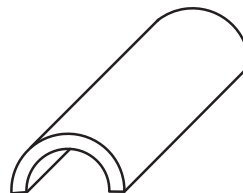
GRATE SEPERATOR
Part No. 1618



1912
FIXED PANEL
SPACING BLOCK



1926
WEATHER FLAP



1698
INFILL (FOR BREAKS)
(Optional)



1834
9-10mm HOLE PLUG



24mm CHANNEL (1652)

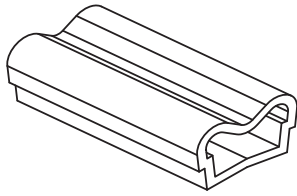


28mm CHANNEL (1653)

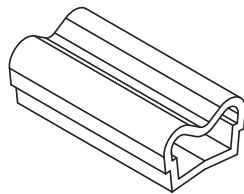


30mm CHANNEL (1654)

Small Parts



1673-150
PVC BUFFER
BLOCK 150mm



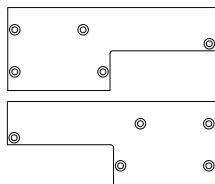
1673
PVC BUFFER BLOCK



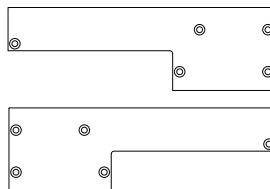
1678
INTERLOCK END CAP
(to suit CGSD151)



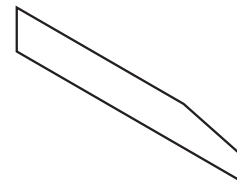
1679
INTERLOCK END CAP
(to suit CGSD152)



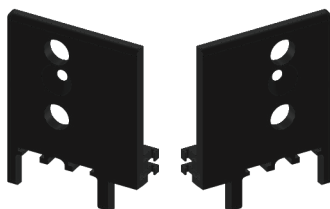
END CAP PAIR
(To suit TJ400)
Part No. 1981



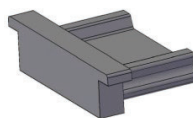
END CAP PAIR
(To suit TJ600)
Part No. 1982



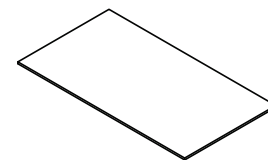
Subsill End Dam
Part No. 1938



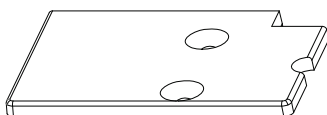
1828
FLUSH SILL
INTERLOCK BLOCK



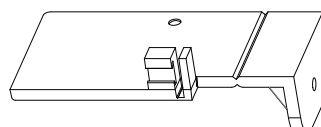
BUFFER
1598
THRESHOLD END



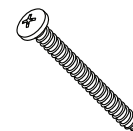
Mainframe Gasket
Part No. 1442 (100mm head/sill)
Part No. 1441 (150mm head/sill)



4005
SLIDING PANEL BLOCK



4006
ANTI-LIFT BLOCK



Screws
#8 x 15mm SS C/S
#8 x 20mm SS Pan
#8 x 50mm SS Pan
#10 x 15mm SS Pan
#10 x 25mm SS Pan
#10 x 50mm SS Pan

Small Parts



Black Onyx Handle
Sliding Door Lock
Part No. 1252



Black Handle Packer
(Must be used with 1252)
Part No. 1260



Extra Wide Strike
Part No. 1256 / 1257



Yarraview Edge
Sliding Door Lock
(Cylinders Sold Separately)
Part No. 1258



Fixed Panel
Adjustment Block
Part No. 1803



Traxster 110kg
Double Wheel Roller
Part No. 1802



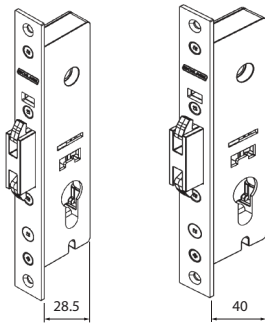
150kg Quad
Wheel Roller
Part No. 1808



80kg Double
Wheel Roller
Part No. 1801



40kg Single
Wheel Roller
Part No. 1800



Sliding Mortice Lock (No Cylinder)
(Suits 1145 - 1149 Cylinders)
Part No.
28.5mm Backset - 1113
40mm Backset - 1114



Euro Cylinder - 5 Pin/60mm
Suits 1113/1114/1167 Lock
Part No. 1145: Keyed to Differ
1146: Keyed Alike



Euro Cylinder - 5 Pin/Turn
Suits 1113/1114/1167 Lock
Part No. 1149: Keyed Alike



**Verta Offset
Pull Handle**
Part No. 1012

Available in
Black & S/Steel



**Verta 800mm
Inline Pull Handle**
Part No. 1013

Available in
Black & S/Steel



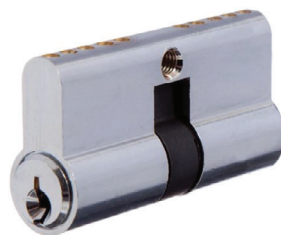
**Verta Euro
Cylinder Escutcheon**
Part No. 1014

Available in
Black & S/Steel



Verta Flush Pull Kit
Part No. 1015

Available in
Black & S/Steel



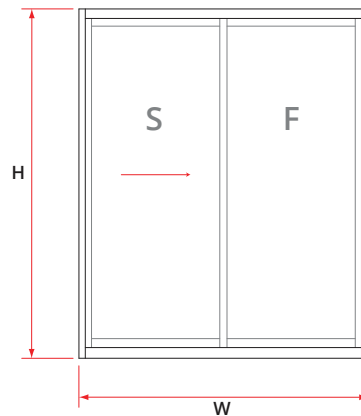
**Verta Fixed
Cam Profile Cylinder**
(Suits Verta Sliding Locks 1113/1114)
Part No. 1016



Verta Flat Strike
Part No. 1179

Machining

Cutting Formula: FS



Fabrication




CLIMATE GUARD FS DOOR

JAMB FRAME TYPE

DEDICATED JAMBS OR FRONT GLAZED (suitable for highlights)

NOTE: MEASUREMENTS ARE BASED ON OVERALL FRAME SIZE(DO NOT INCLUDE SUB HEAD/SILLS)

CODES	DESCRIPTION	QUANTITY	SIZES
CGSD100	JAMBS	2	H
CGSD401	HEAD	1	DEDICATED = W-46, FRONT = W-120
CGSD402	SILL	1	DEDICATED = W-46, FRONT = W-120
CGSD111	RECEIVER CHANNEL SCREW FIX	DEDICATED = 2, FRONT = 1	H-102
CGSD113	RECEIVER CHANNEL CLIP ON	DEDICATED = 0, FRONT = 1	H-102
CGSD124	PLAIN STILE	2	H -80
CGSD125	STANDARD INTERLOCK	1	H -80
CGSD151	BOX INTERLOCK	1	H -80
CGSD127	RAIL	4	DEDICATED = W-287/2, FRONT = W-340/2
CGDG106	SMALL FLUSH FILLER	DEDICATED = 0, FRONT = 1	H
CGDG106	LARGE FLUSH FILLER	DEDICATED = 0, FRONT = 2	H
SD603	THRESHOLD	1	DEDICATED = W - 193 - Rail, FRONT = W - 257 - Rail
SD128	HEAD FILLER	1	DEDICATED = W - 193 - Rail, FRONT = W - 257 - Rail

GLASS SIZES

QUANTITY

HEIGHT

WIDTH

2

Stile - 136

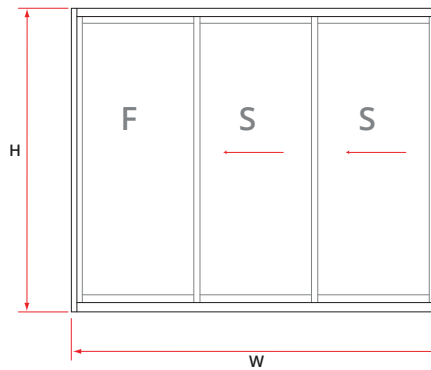
Rail + 20

NOTE:

- Dedicated = Dedicated CGSD Jambs
- Front = CGFG Jambs

Cutting Formula: FSS

Fabrication





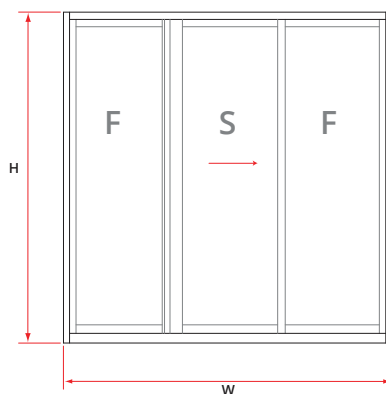

CLIMATE GUARD FSS DOOR

JAMB FRAME TYPE	DEDICATED JAMBS OR FRONT GLAZED (suitable for highlights)		
NOTE: MEASUREMENTS ARE BASED ON OVERALL FRAME SIZE(DO NOT INCLUDE SUB HEAD/SILLS)			
CODES	DESCRIPTION	QUANTITY	SIZES
CGSD150	JAMBS	2	H
CGSD601	HEAD	1	DEDICATED = W-46, FRONT = W-120
CGSD605	SILL	1	DEDICATED = W-46, FRONT = W-120
CGSD111	RECEIVER CHANNEL SCREW FIX	DEDICATED = 2, FRONT = 1	H-102
CGSD113	RECEIVER CHANNEL CLIP ON	DEDICATED = 0, FRONT = 1	H-102
CGSD124	PLAIN STILE	2	H -80
CGSD125	STANDARD INTERLOCK	2	H -80
CGSD151	BOX INTERLOCK	2	H -80
CGSD127	RAIL	6	DEDICATED = W-332/3, FRONT = W-385/3
CGDG106	SMALL FLUSH FILLER	DEDICATED = 0, FRONT = 1	H
CGDG106	LARGE FLUSH FILLER	DEDICATED = 0, FRONT = 2	H
SD603	THRESHOLD SHORT	2	DEDICATED = W - 242 - (2*Rail), FRONT = W - 306 - (2*Rail)
SD603	THRESHOLD LONG	2	DEDICATED = W - 193 - Rail, FRONT = W - 257 - Rail
SD128	HEAD FILLER	1	DEDICATED = W - 193 - Rail, FRONT = W - 257 - Rail
GLASS SIZES			
QUANTITY	HEIGHT	WIDTH	
3	Stile - 136	Rail + 20	

NOTE:

- Dedicated = Dedicated CGSD Jambs
- Front = CGFG Jambs

Cutting Formula: FSF






CLIMATE GUARD FSF DOOR

JAMB FRAME TYPE

DEDICATED JAMBS OR FRONT GLAZED (suitable for highlights)

NOTE: MEASUREMENTS ARE BASED ON OVERALL FRAME SIZE(DO NOT INCLUDE SUB HEAD/SILLS)

CODES	DESCRIPTION	QUANTITY	SIZES
CGSD100	JAMBS	2	H
CGSD401	HEAD	1	DEDICATED = W-46, FRONT = W-120
CGSD402	SILL	1	DEDICATED = W-46, FRONT = W-120
CGSD111	RECEIVER CHANNEL SCREW FIX	DEDICATED = 2, FRONT = 1	H-102
CGSD113	RECEIVER CHANNEL CLIP ON	DEDICATED = 0, FRONT = 1	H-102
CGSD124	PLAIN STILE	4	H -80
CGSD125	STANDARD INTERLOCK	1	H -80
CGSD151	BOX INTERLOCK	1	H -80
CGSD109	MEETING RECEIVER	1	H -80
CGSD127	RAIL	6	DEDICATED = W-462/3, FRONT = W-515/3
CGDG106	SMALL FLUSH FILLER	DEDICATED = 0, FRONT = 1	H
CGDG106	LARGE FLUSH FILLER	DEDICATED = 0, FRONT = 2	H
SD603	THRESHOLD	2	DEDICATED = W - 193 - Rail, FRONT = W - 257 - Rail
SD128	HEAD FILLER	1	DEDICATED = W - 193 - Rail, FRONT = W - 257 - Rail

GLASS SIZES

QUANTITY

HEIGHT

WIDTH

3

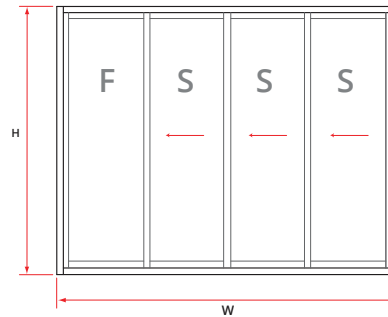
Stile - 136

Rail + 20

NOTE:

- Dedicated = Dedicated CGSD Jambs
- Front = CGFG Jambs

Cutting Formula: FSSS






CLIMATE GUARD FSSS DOOR

JAMB FRAME TYPE

DEDICATED JAMBS OR FRONT GLAZED (suitable for highlights)

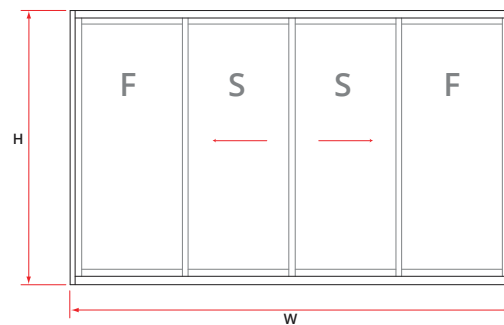
NOTE: MEASUREMENTS ARE BASED ON OVERALL FRAME SIZE(DO NOT INCLUDE SUB HEAD/SILLS)

CODES	DESCRIPTION	QUANTITY	SIZES
CGSD100	JAMBS	2	H
CGSD401	HEAD	2	DEDICATED = W-46, FRONT = W-120
CGSD402	SILL	2	DEDICATED = W-46, FRONT = W-120
CGSD111	RECEIVER CHANNEL SCREW FIX	DEDICATED = 2, FRONT = 1	H-102
CGSD113	RECEIVER CHANNEL CLIP ON	DEDICATED = 0, FRONT = 1	H-102
CGSD124	PLAIN STILE	2	H -80
CGSD125	STANDARD INTERLOCK	3	H -80
CGSD151	BOX INTERLOCK	3	H -80
CGSD127	RAIL	8	DEDICATED = W-376/4, FRONT = W-429/4
CGDG106	SMALL FLUSH FILLER	DEDICATED = 0, FRONT = 2	H
CGDG106	LARGE FLUSH FILLER	DEDICATED = 0, FRONT = 2	H
SD603	THRESHOLD SHORT	2	DEDICATED = W - 286 - (3*Rail), FRONT = W - 350 - (3*Rail)
SD603	THRESHOLD MEDIUM	2	DEDICATED = W - 242 - (2*Rail), FRONT = W - 305 - (2*Rail)
SD603	THRESHOLD LONG	2	DEDICATED = W - 193 - Rail, FRONT = W - 257 - Rail
SD128	HEAD FILLER	1	DEDICATED = W - 193 - Rail, FRONT = W - 257 - Rail

GLASS SIZES

QUANTITY	HEIGHT	WIDTH
4	Stile - 136	Rail + 20

Cutting Formula: FSSF



Fabrication




CLIMATE GUARD FSSF DOOR

JAMB FRAME TYPE

DEDICATED JAMBS OR FRONT GLAZED (suitable for highlights)

NOTE: MEASUREMENTS ARE BASED ON OVERALL FRAME SIZE(DO NOT INCLUDE SUB HEAD/SILLS)

CODES	DESCRIPTION	QUANTITY	SIZES
CGSD100	JAMBS	2	H
CGSD401	HEAD	1	DEDICATED = W-46, FRONT = W-120
CGSD402	SILL	1	DEDICATED = W-46, FRONT = W-120
CGSD111	RECEIVER CHANNEL SCREW FIX	DEDICATED = 2, FRONT = 1	H-102
CGSG113	RECEIVER CHANNEL CLIP ON	DEDICATED = 0, FRONT = 1	H-102
CGSD124	PLAIN STILE	4	H -80
CGSD125	STANDARD INTERLOCK	2	H -80
CGSD151	BOX INTERLOCK	2	H -80
CGSD109	MEETING RECEIVER	1	H -80
CGSD127	RAIL	8	DEDICATED = W - 506/4, FRONT = W - 560/4
CGDG106	LARGE FLUSH FILLER	DEDICATED = 0, FRONT = 2	H
SD603	THRESHOLD	2	DEDICATED = W - 339 -(2*Rail), FRONT = W - 393 - (2*Rail)
SD128	HEAD FILLER	1	DEDICATED = W - 193 - Rail, FRONT = W - 257 - Rail

GLASS SIZES

QUANTITY

HEIGHT

WIDTH

4

Stile - 136

Rail + 20

Cutting Formula: FSSSSF

Fabrication






CLIMATE GUARD FSSSF DOOR

JAMB FRAME TYPE

DEDICATED JAMBS OR FRONT GLAZED (suitable for highlights)

NOTE: MEASUREMENTS ARE BASED ON OVERALL FRAME SIZE(DO NOT INCLUDE SUB HEAD/SILLS)

CODES	DESCRIPTION	QUANTITY	SIZES
CGSD150	JAMBS	2	H
CGSD601	HEAD	1	DEDICATED = W - 46, FRONT = W - 120
CGSD605	SILL	1	DEDICATED = W - 46, FRONT = W - 120
CGSD111	RECEIVER CHANNEL SCREW FIX	DEDICATED = 2, FRONT = 1	H - 102
CGSG113	RECEIVER CHANNEL CLIP ON	DEDICATED = 0, FRONT = 1	H - 102
CGSD124	PLAIN STILE	4	H - 80
CGSD125	STANDARD INTERLOCK	4	H - 80
CGSD151	BOX INTERLOCK	4	H - 80
CGSD109	MEETING RECEIVER	1	H - 80
CGSD127	RAIL	12	DEDICATED = W 594/6, FRONT = W - 648/6
CGDG106	LARGE FLUSH FILLER	DEDICATED = 0, FRONT = 2	H
SD603	THRESHOLD SHORT	2	DEDICATED = W - 438 - (4* Rail), FRONT = W - 492 - (4* Rail)
SD603	THRESHOLD LONG	2	DEDICATED = W - 339 - (2* Rail), FRONT = W - 393 - (2* Rail)
SD128	HEAD FILLER	1	DEDICATED = W - 193 - Rail, FRONT = W - 257 - Rail

GLASS SIZES

QUANTITY

HEIGHT

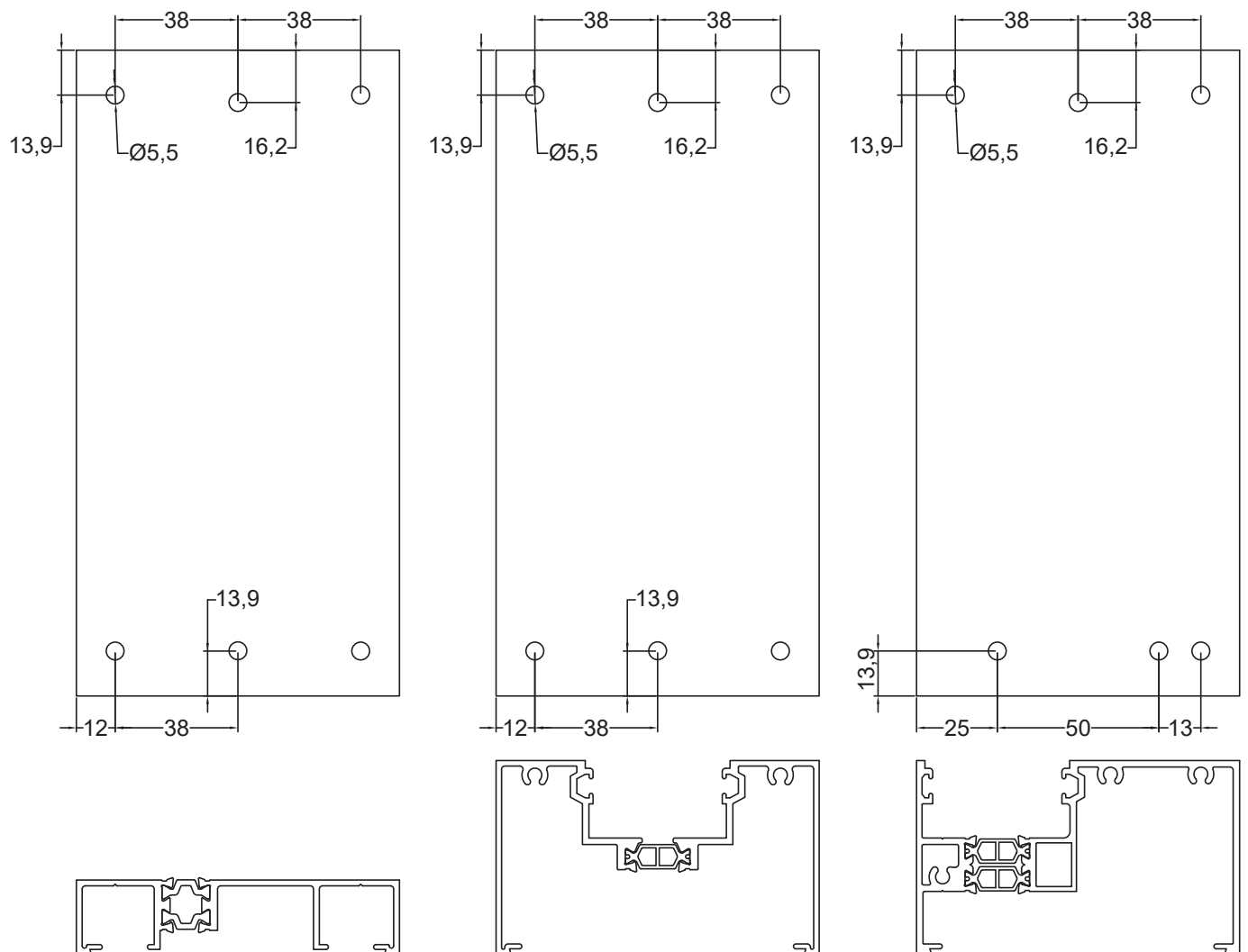
WIDTH

6

Stile - 136

Rail + 20

Machining Details: 100mm Jamb

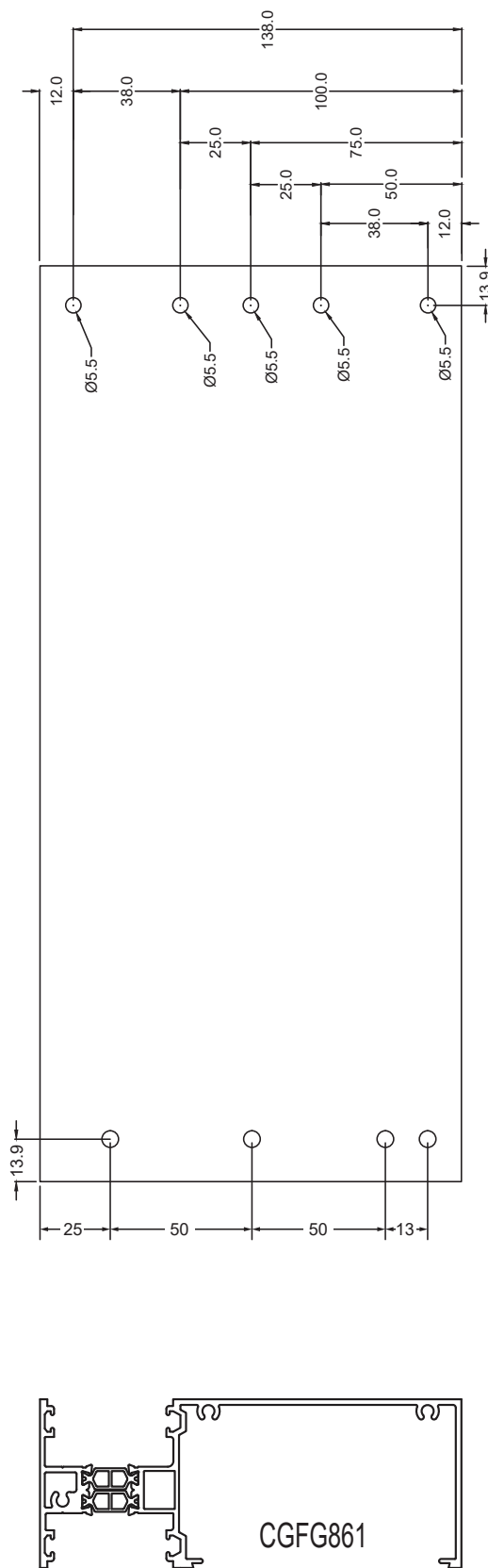
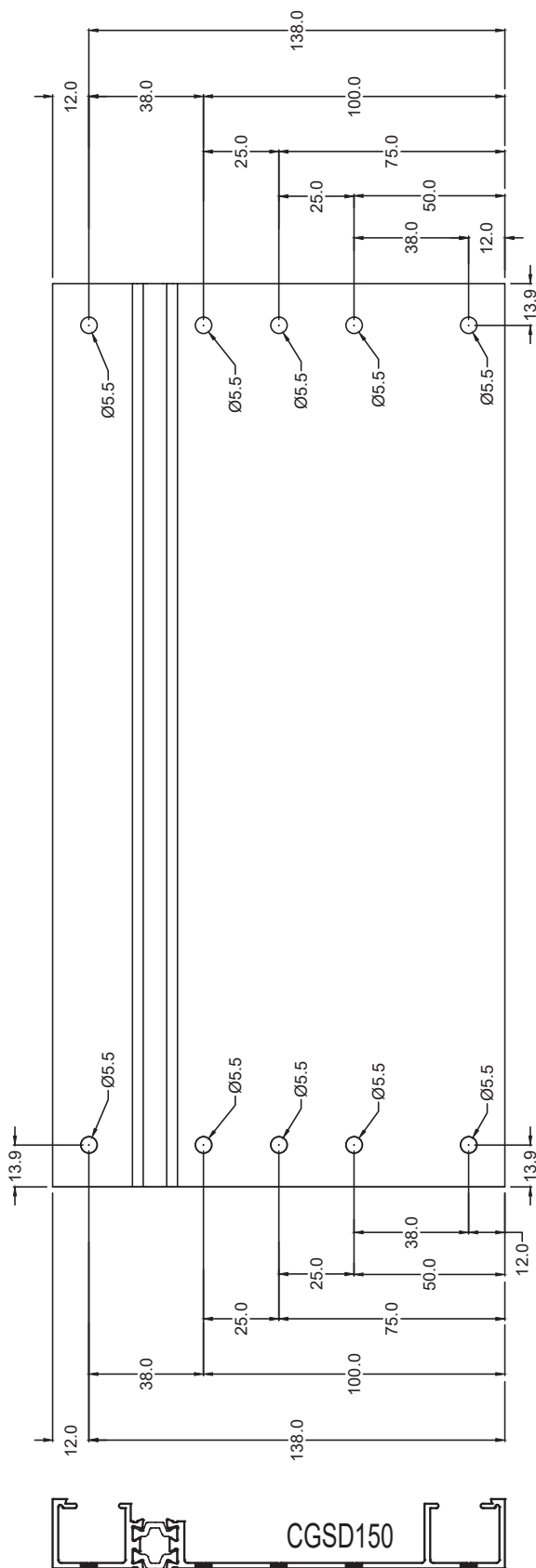


Fabrication

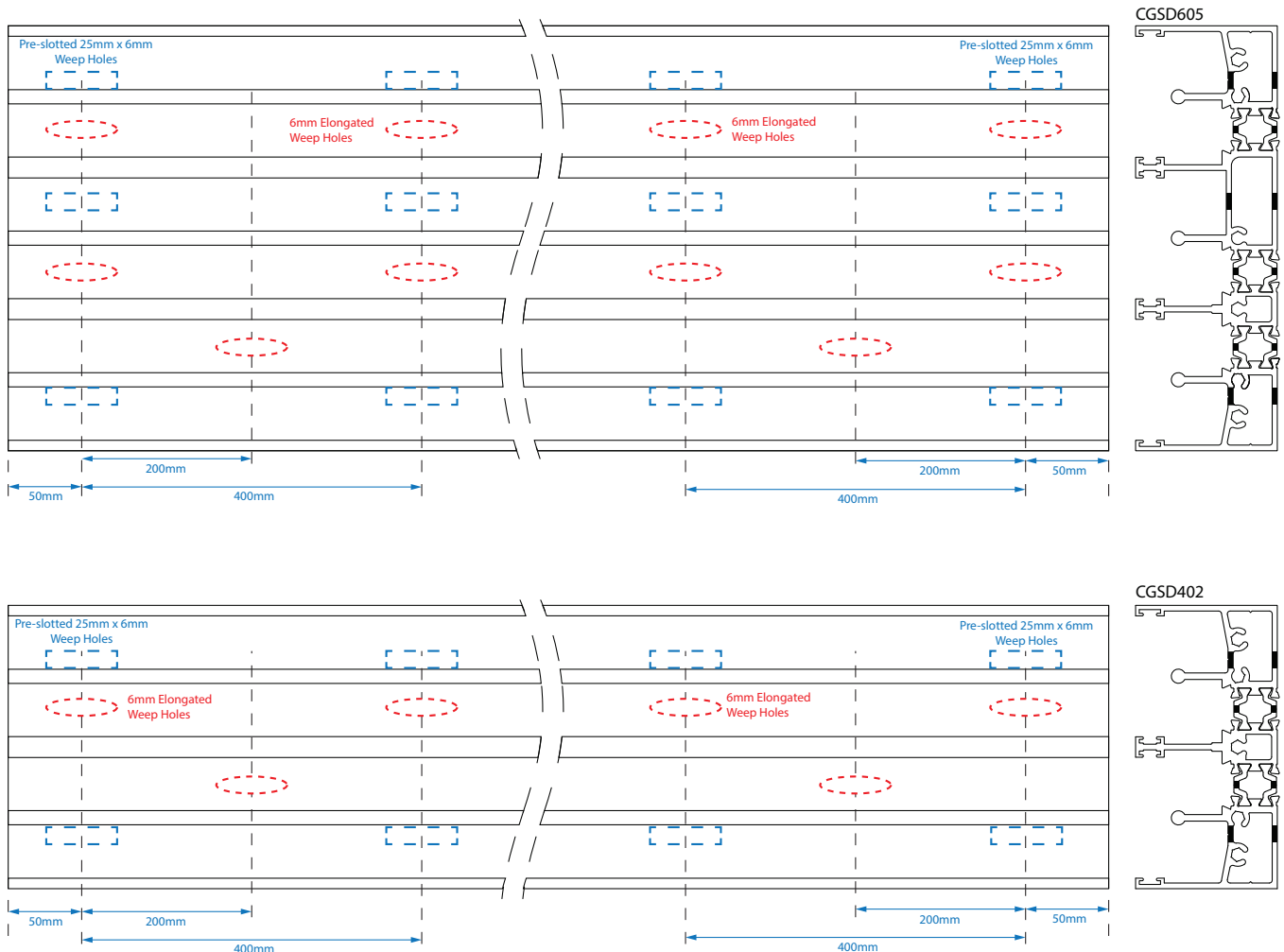
NOTES:

Machining is opposite handing for left and right jambs.

Machining Details: 150mm Jamb



Machining Details: Sills

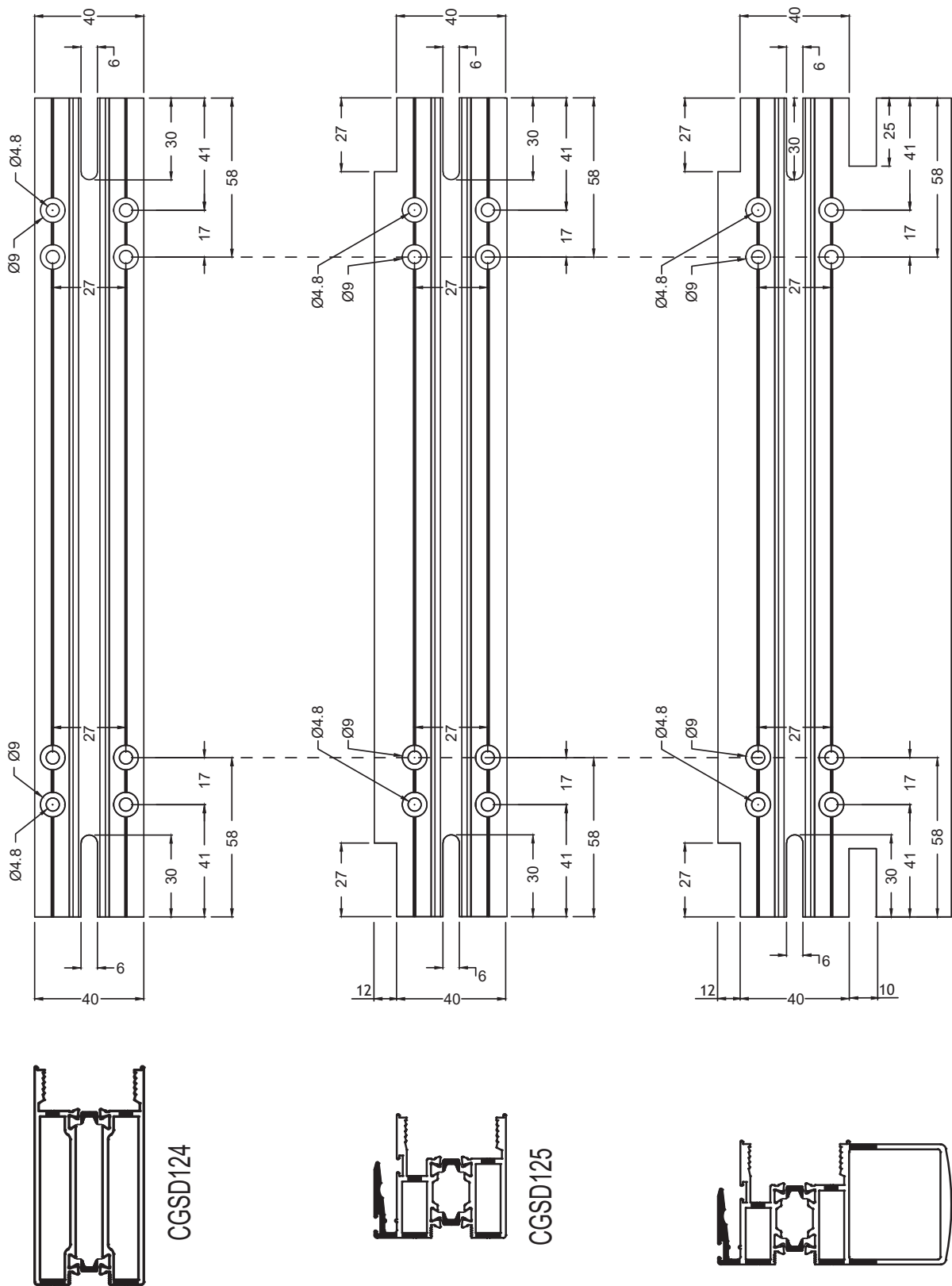


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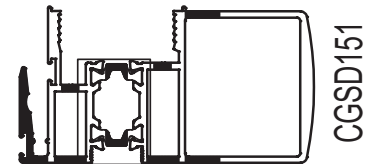
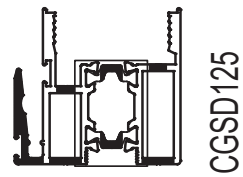
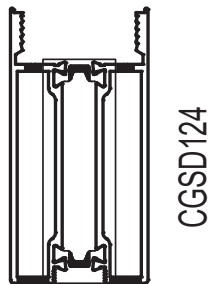
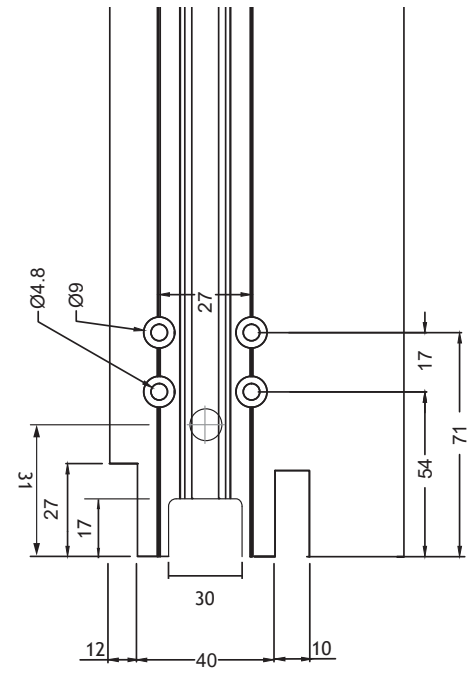
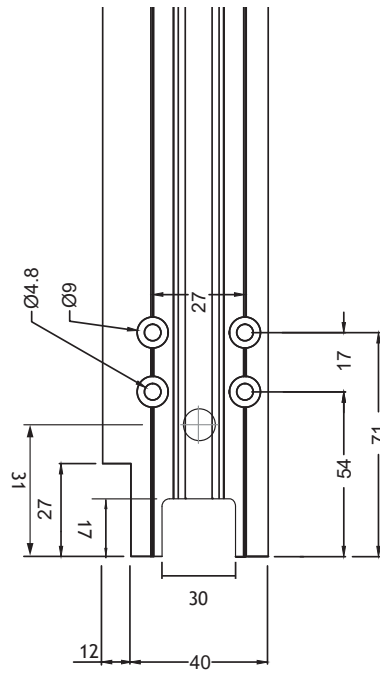
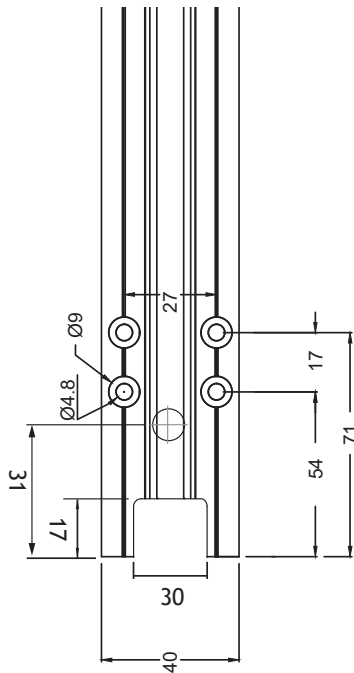
NOTE: 25mm x 6mm weep holes are preslotted
 6mm elongated holes through thermal strip
 should be aprox. 25mm long and penetrate
 both layers to allow water into the sub sill.

Machining Details: Panels

Fabrication

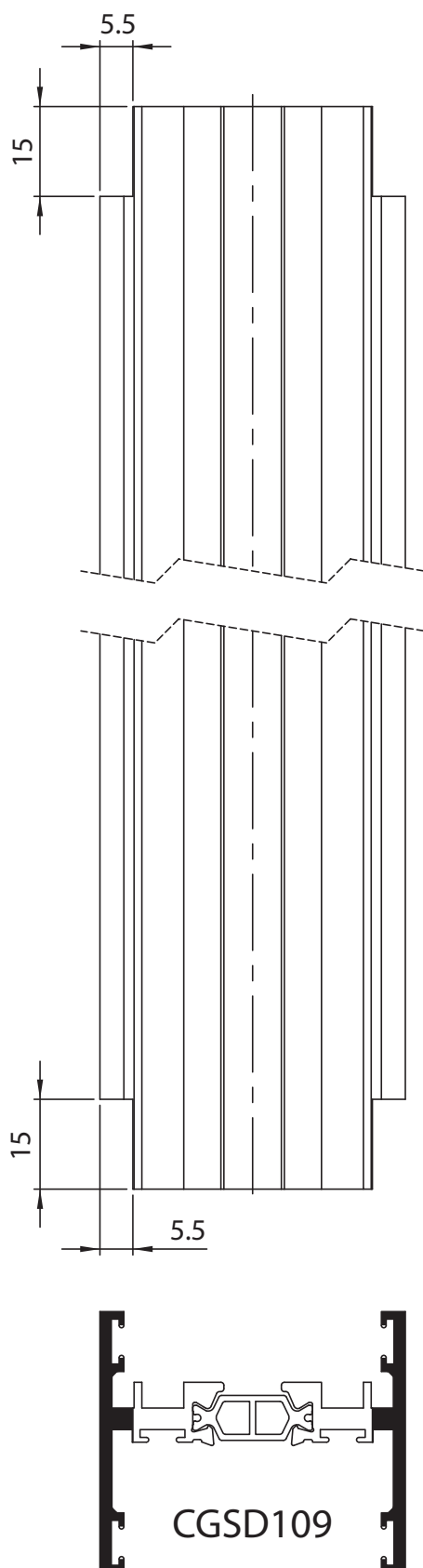


Machining Details: Bottom of Panels when using Tall Rail CGSD169 with Flush Sill SD408 or SD608



Fabrication

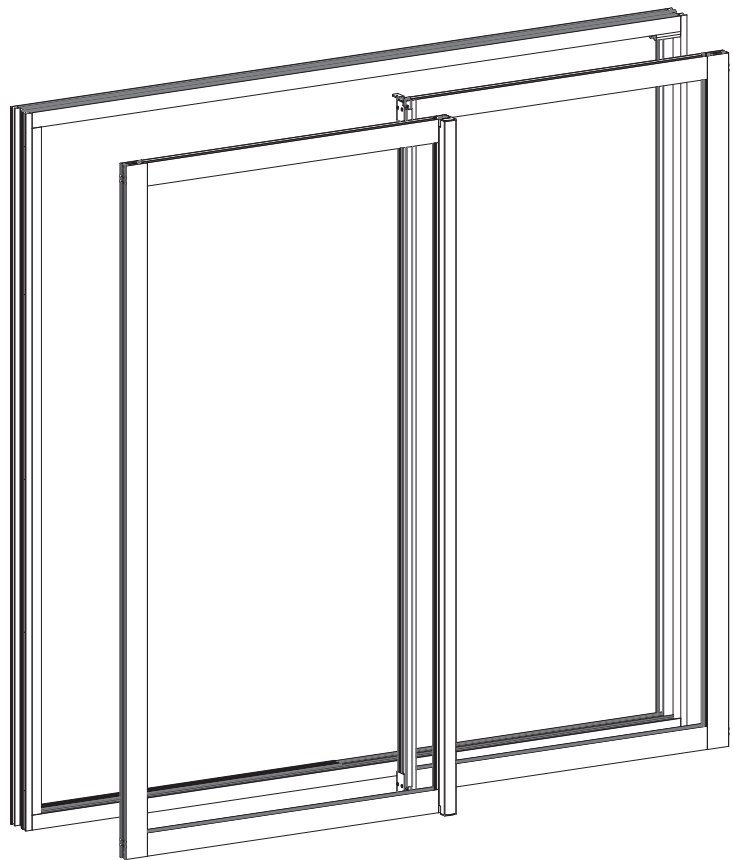
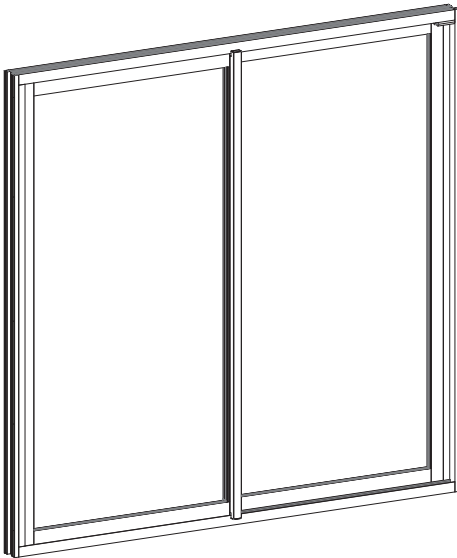
Machining Details: Meeting Receiver



NOTE: It is suggested that CGSD109 is machined and mounted AFTER window panels are inserted. This gives the best finish with the smallest gap. See cross section details for further information.

Assembly

Assembly Overview: FS



Fabrication

NOTES:

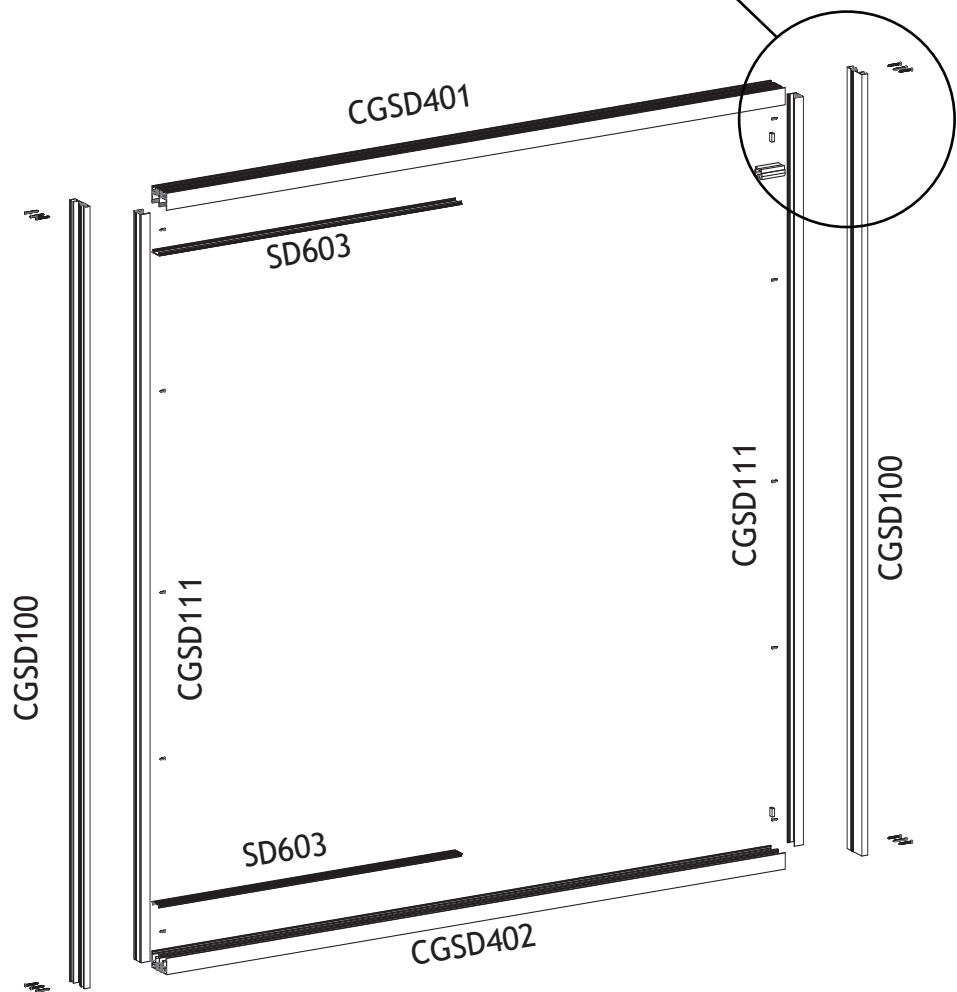
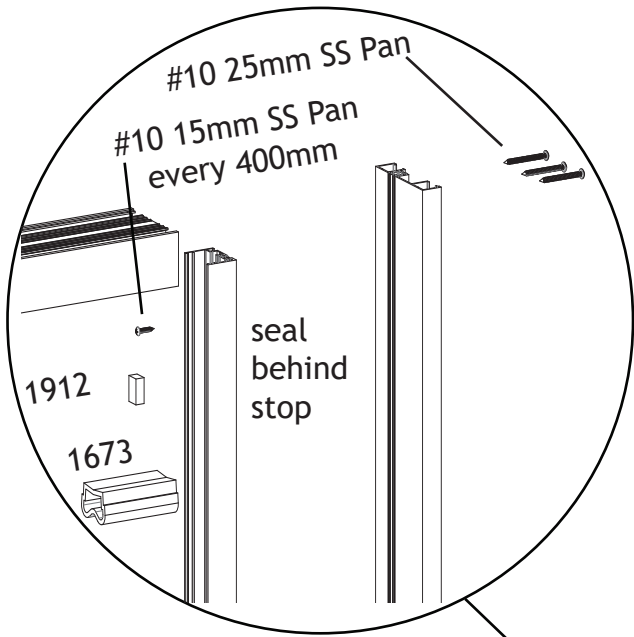
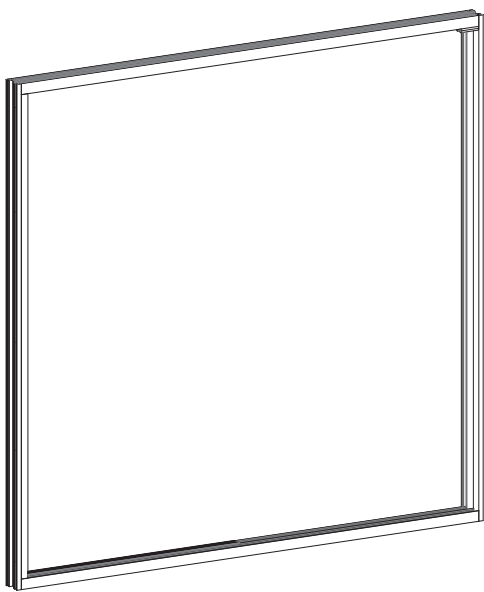
Engineering, manufacture and installation must meet requirements of AS 2047, AS3959, WERS and Acoustic requirements. Glazing selected must meet requirements of AS 1288. Size limitations are governed by design intent, glass selection, and local wind load requirements as per AS/NZS 1170.2 or AS 4055.

N.B.

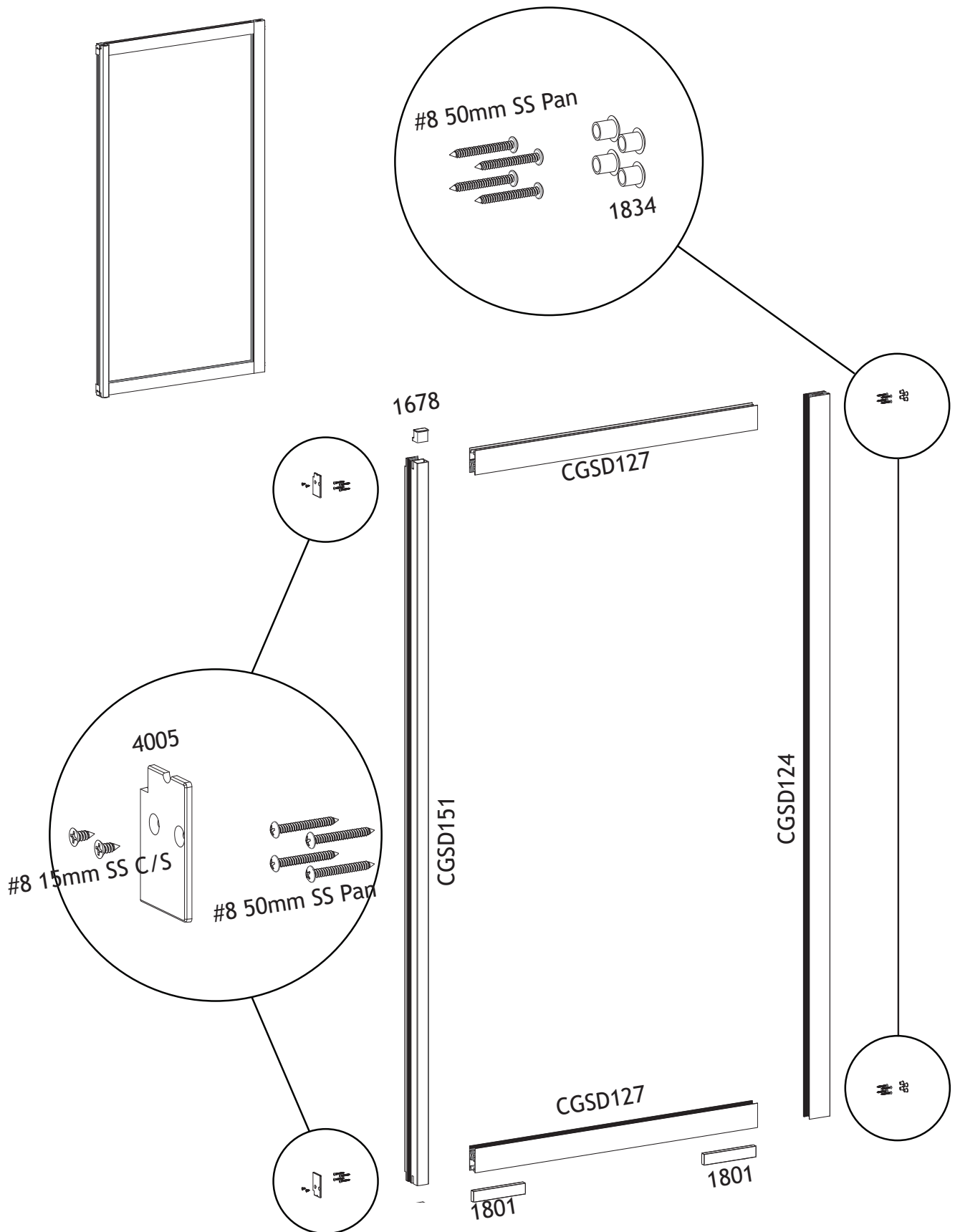
- For frames, designs, and configurations outside the tested scope, an engineer or suitably qualified person should be consulted.
- All raw joints need to be sealed with small joint sealer or foam tab option.

Frame Assembly: FS

Fabrication



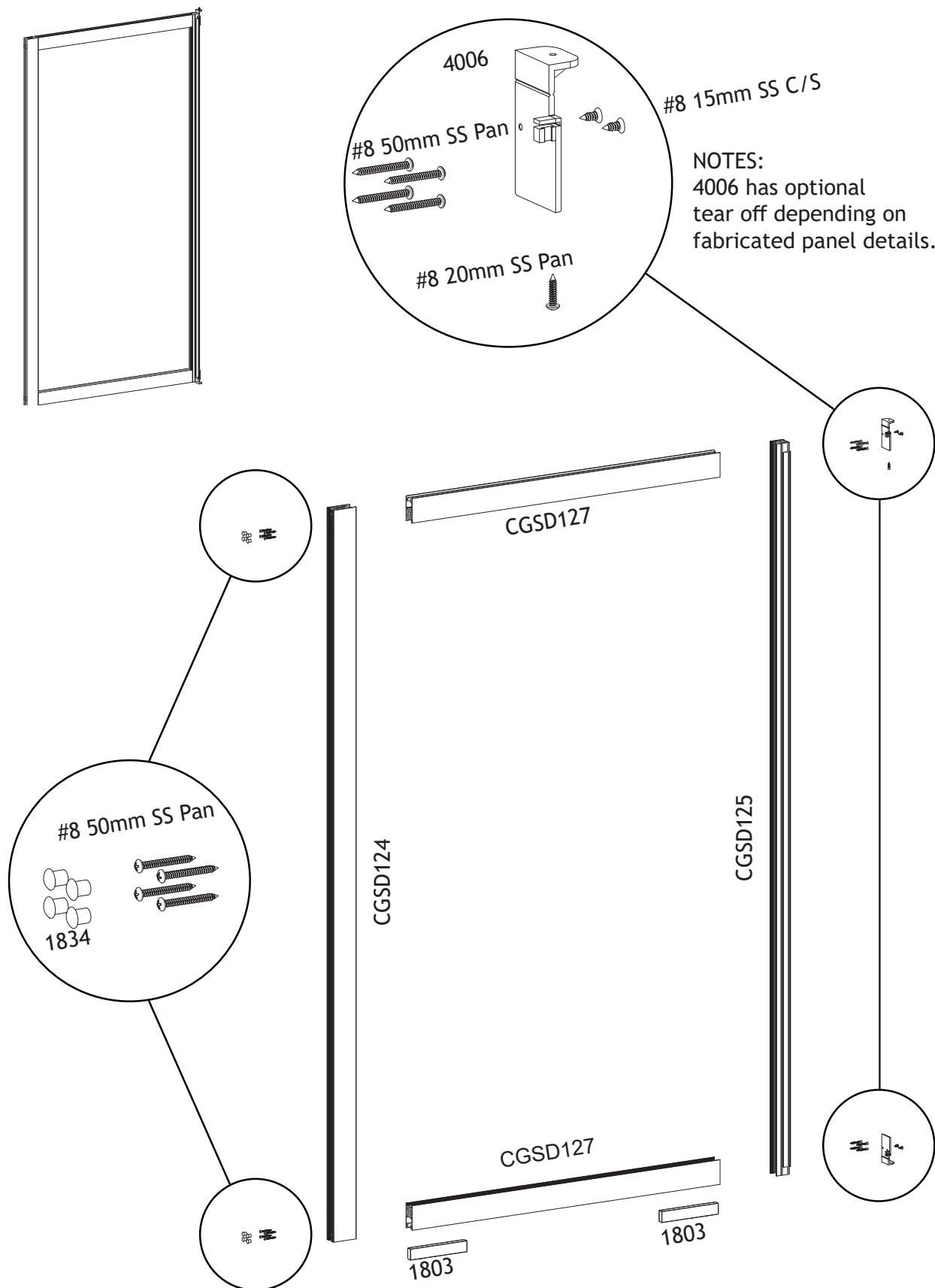
Panel Assembly: FS & FSS Sliding Panel



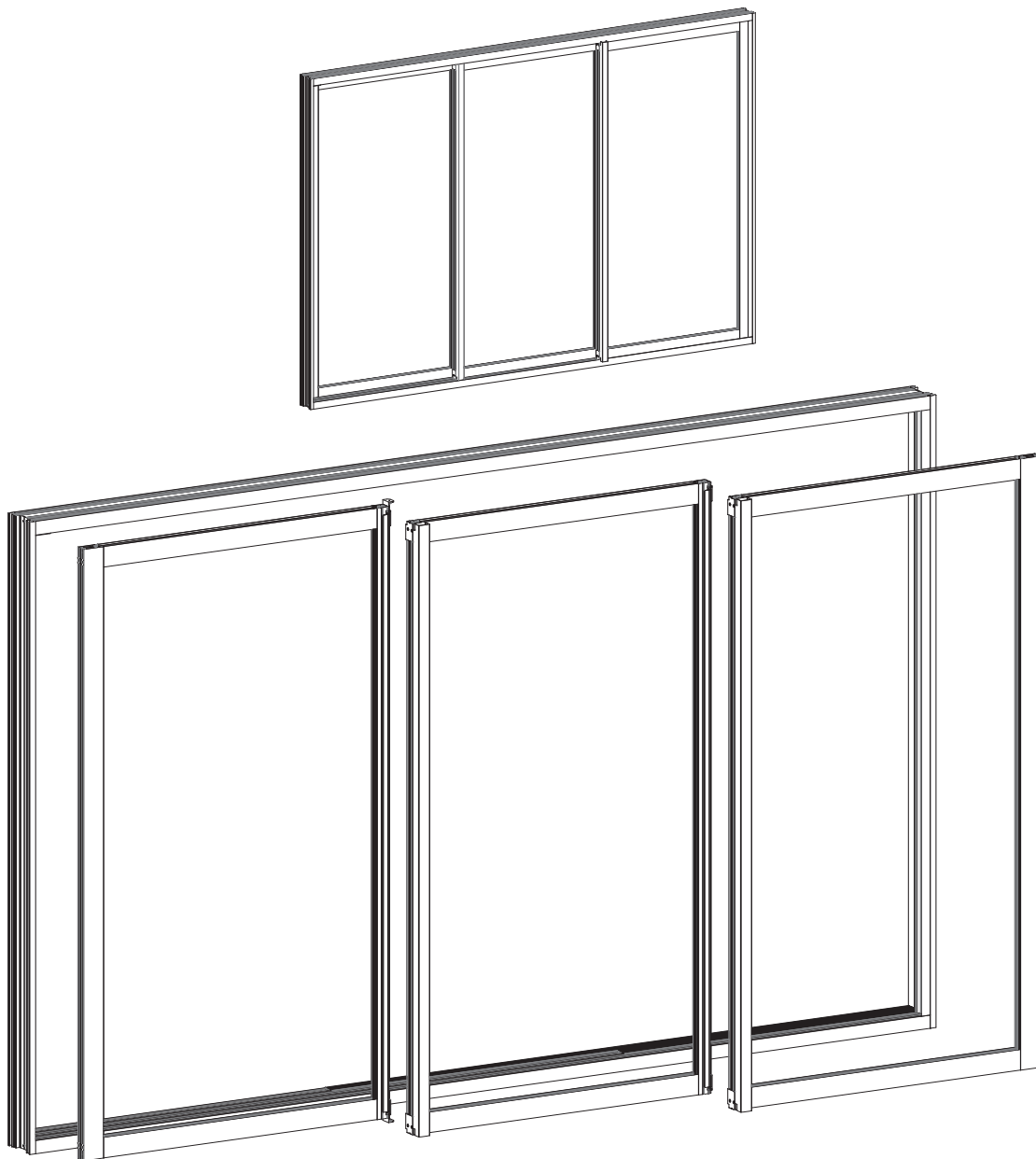
Fabrication

Panel Assembly: FS & FSS Fixed Panel

Fabrication



Assembly Overview: FSS



Fabrication

NOTES:

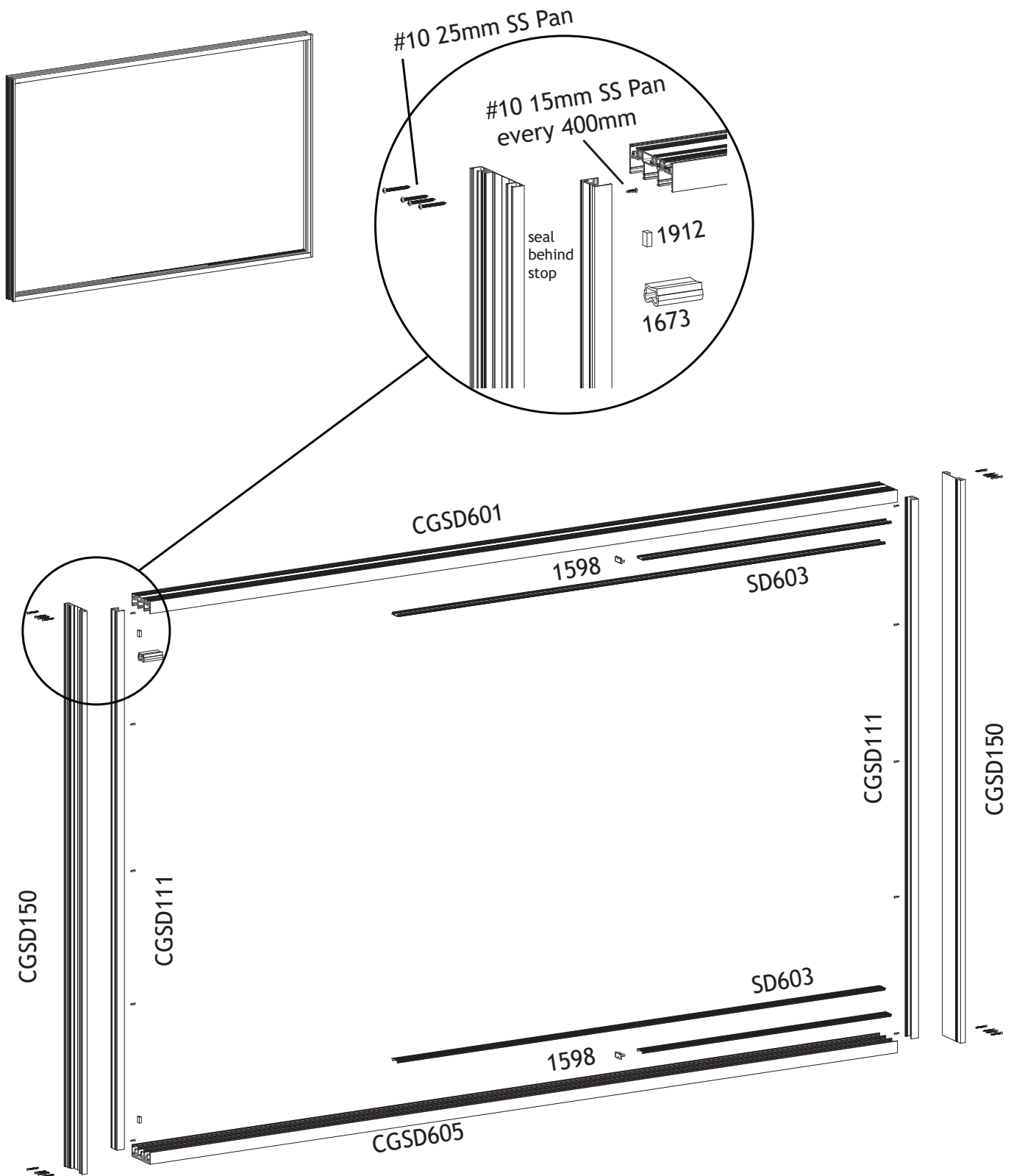
Engineering, manufacture and installation must meet requirements of AS 2047, AS3959, WERS and Acoustic requirements. Glazing selected must meet requirements of AS 1288. Size limitations are governed by design intent, glass selection, and local wind load requirements as per AS/NZS 1170.2 or AS 4055.

N.B.

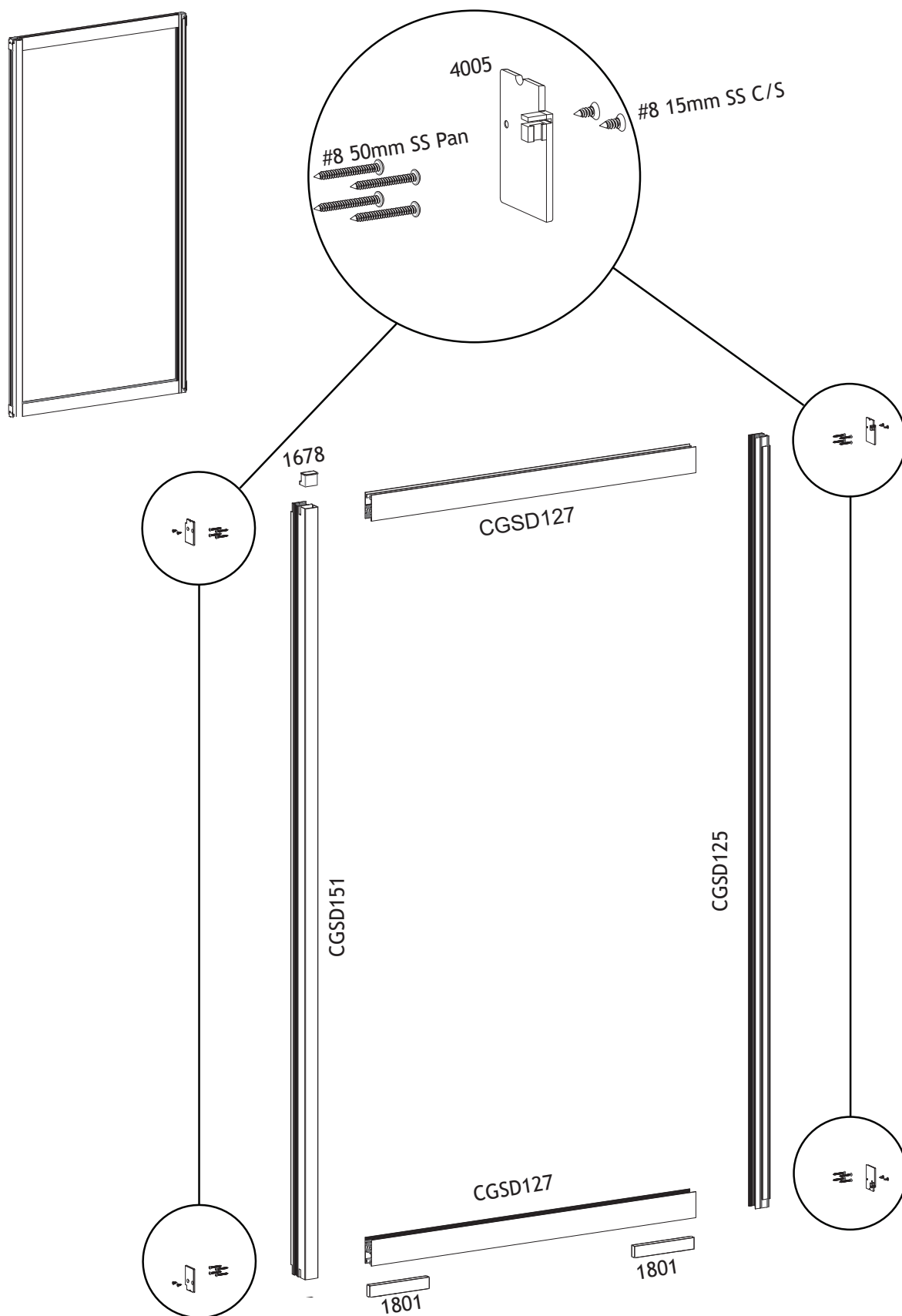
- For frames, designs, and configurations outside the tested scope, an engineer or suitably qualified person should be consulted.
- All raw joints need to be sealed with small joint sealer or foam tab option.

Frame Assembly: FSS

Fabrication



Panel Assembly: FSS Centre Panel

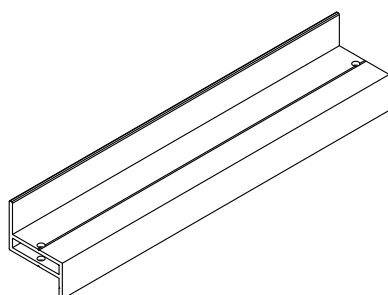


Fabrication

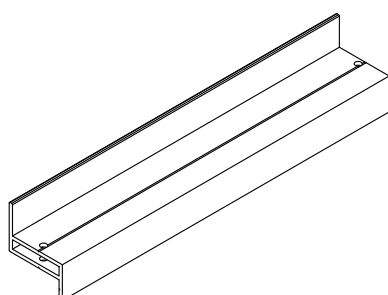
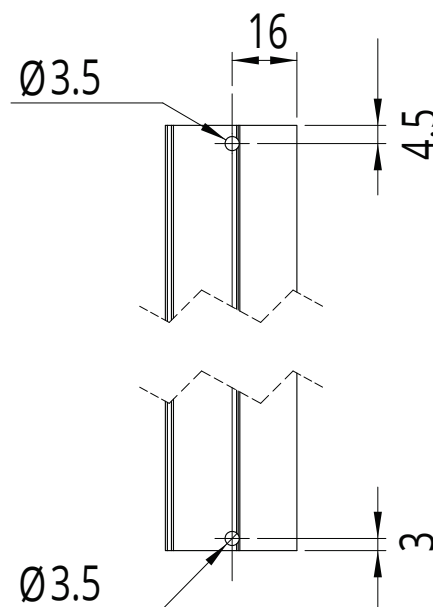
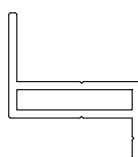
Flydoor Assembly

Single Flydoor Machining Details

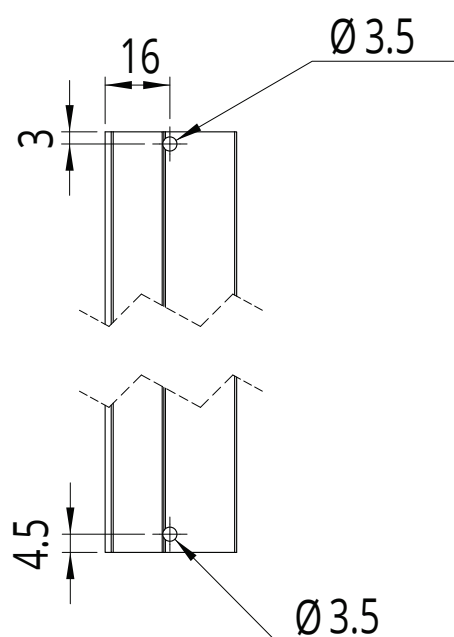
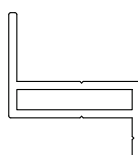
Fabrication



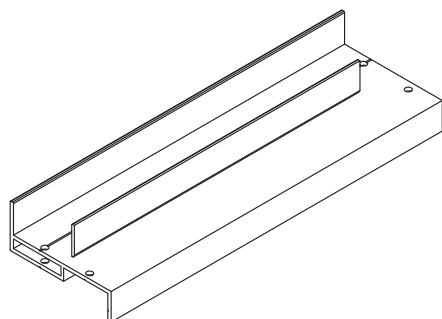
SD425 - Lefthand



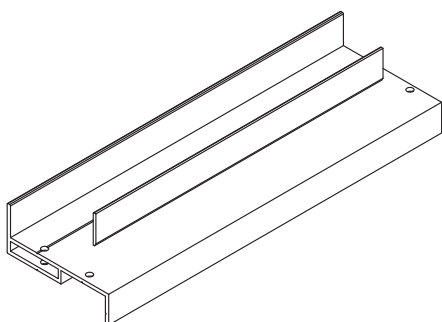
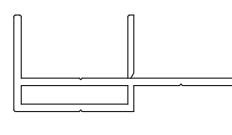
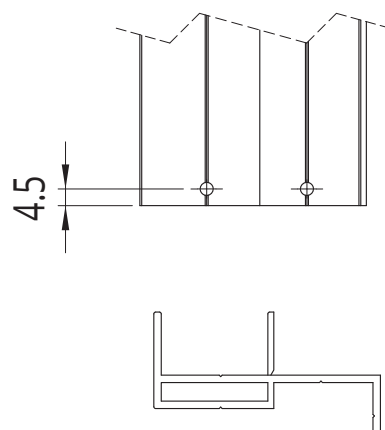
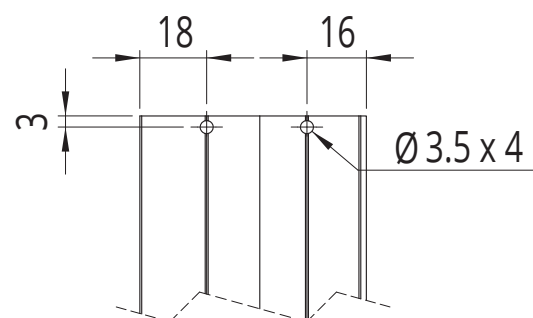
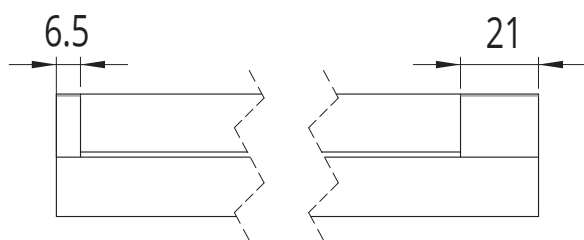
SD425 - Righthand



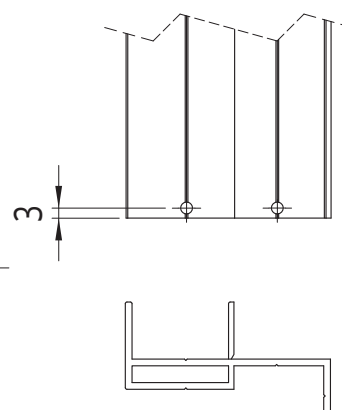
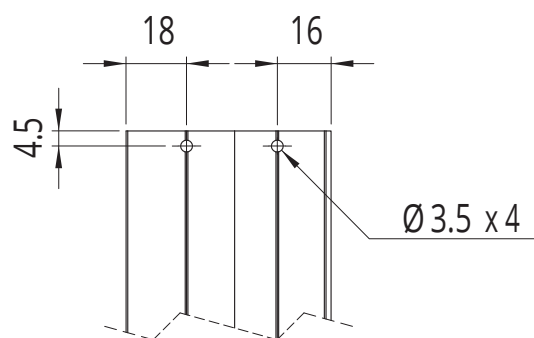
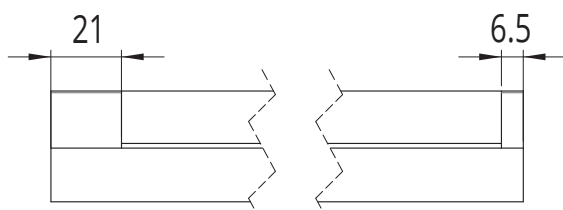
Double Flydoor Machining Details



SD625 - Lefthand



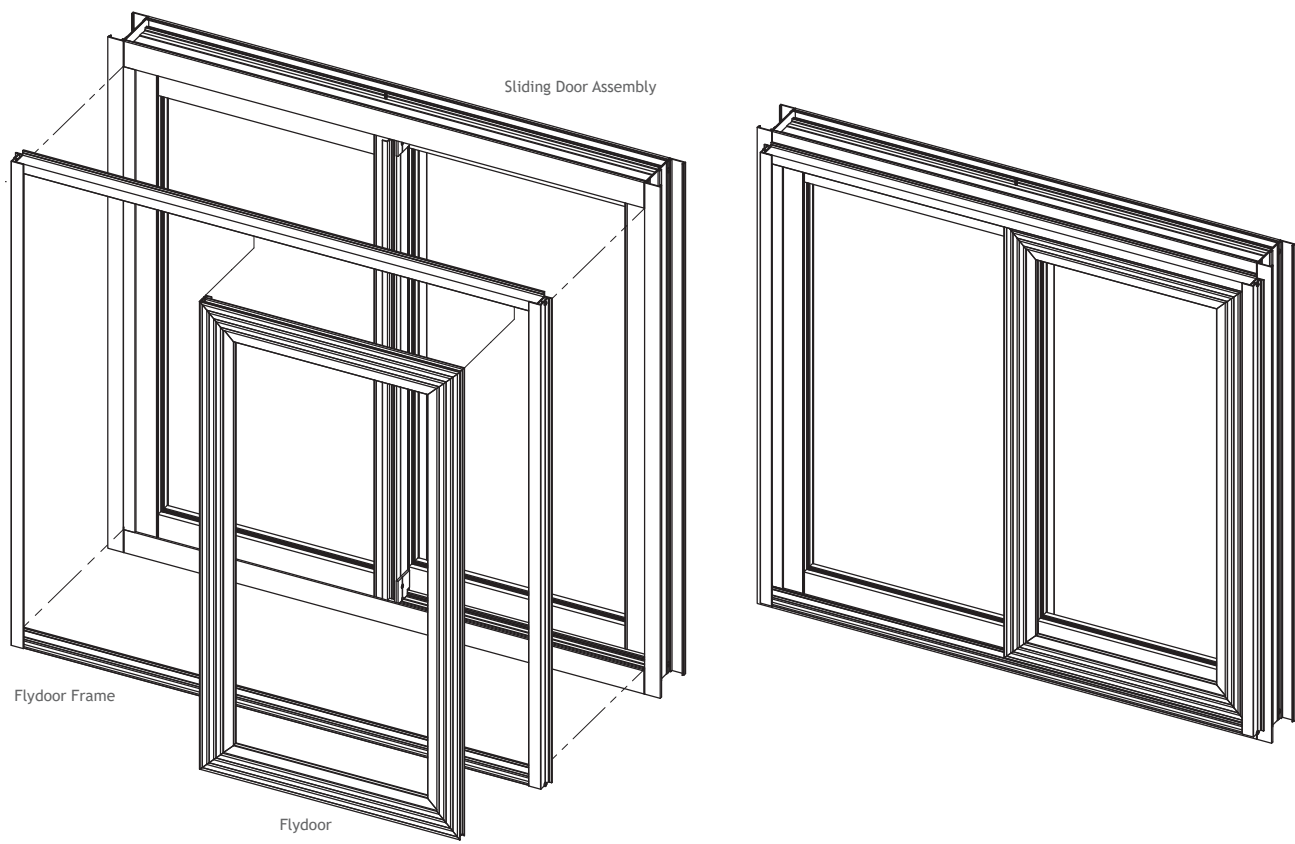
SD625 - Righthand



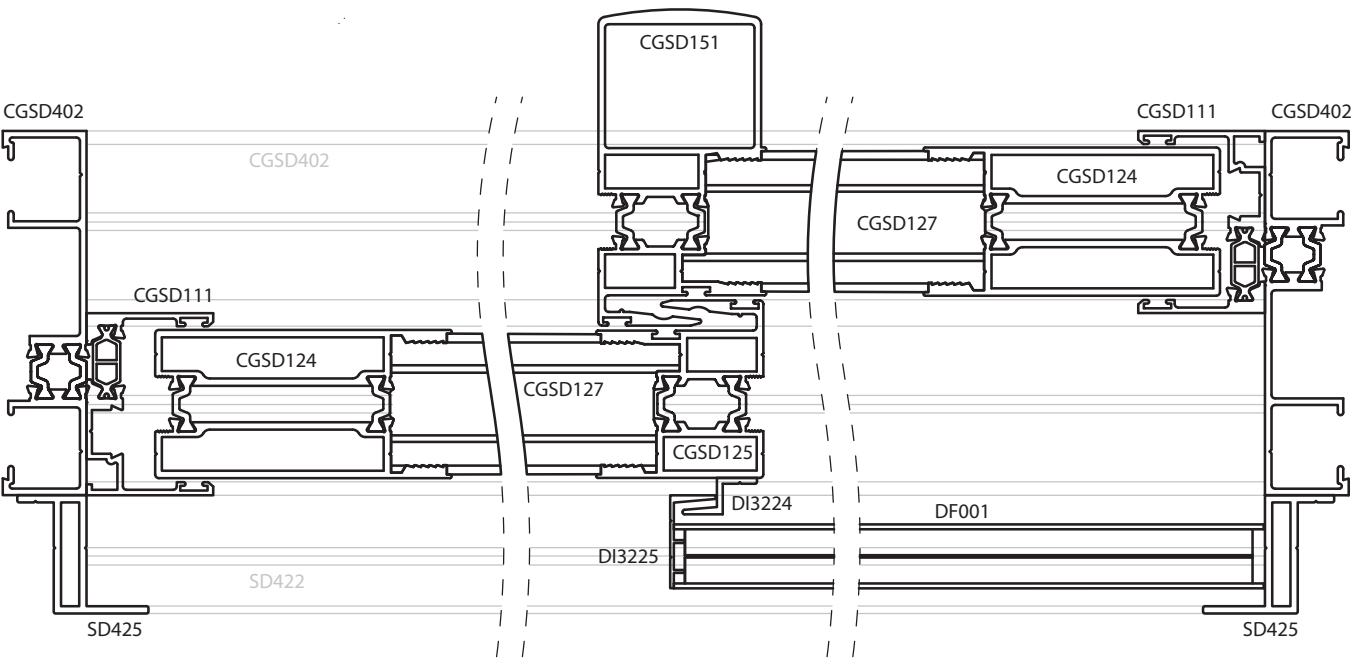
Fabrication

Assembly Overview: Single Flydoor

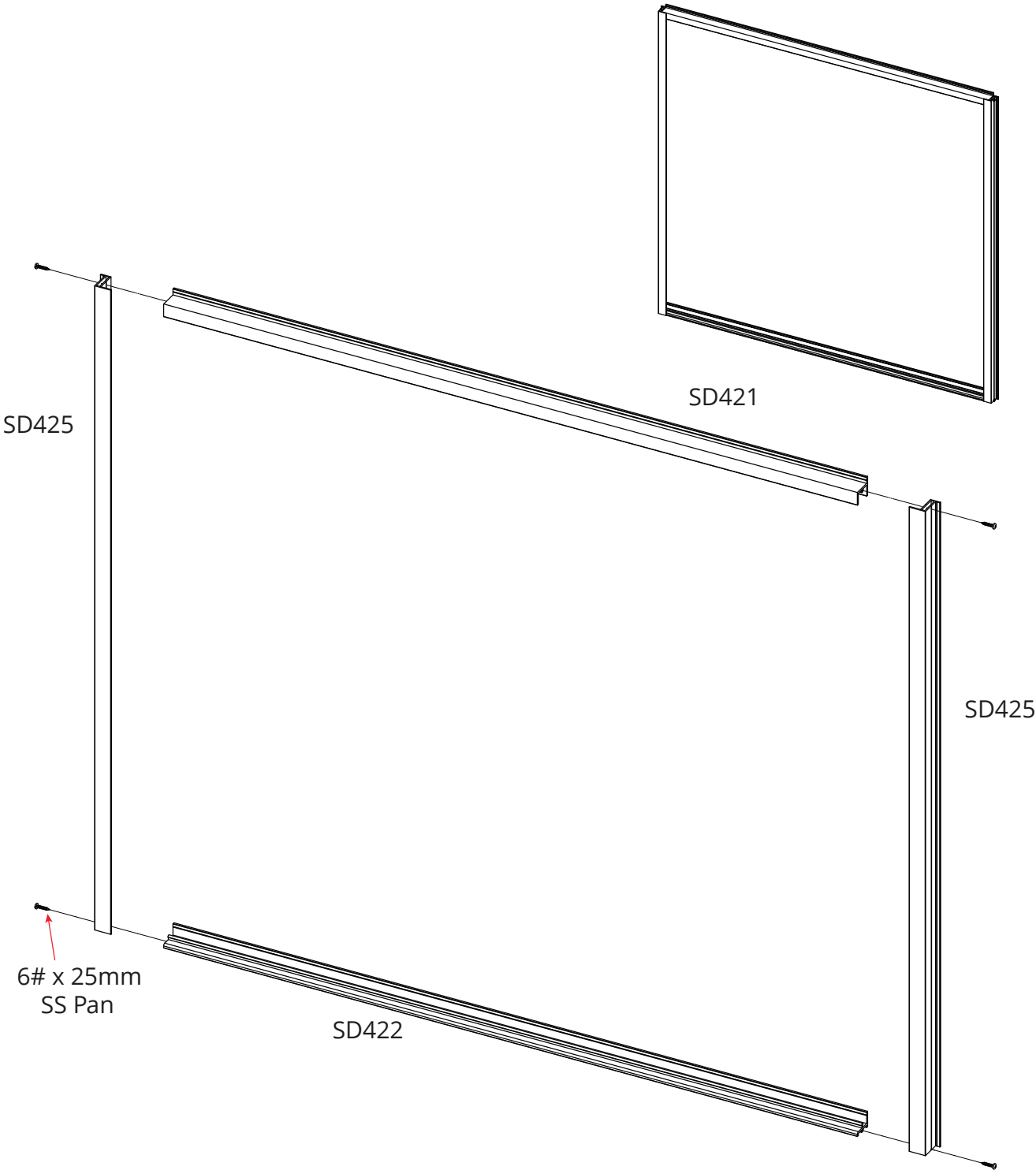
Fabrication



Single Flydoor Assembly Top View Detail:



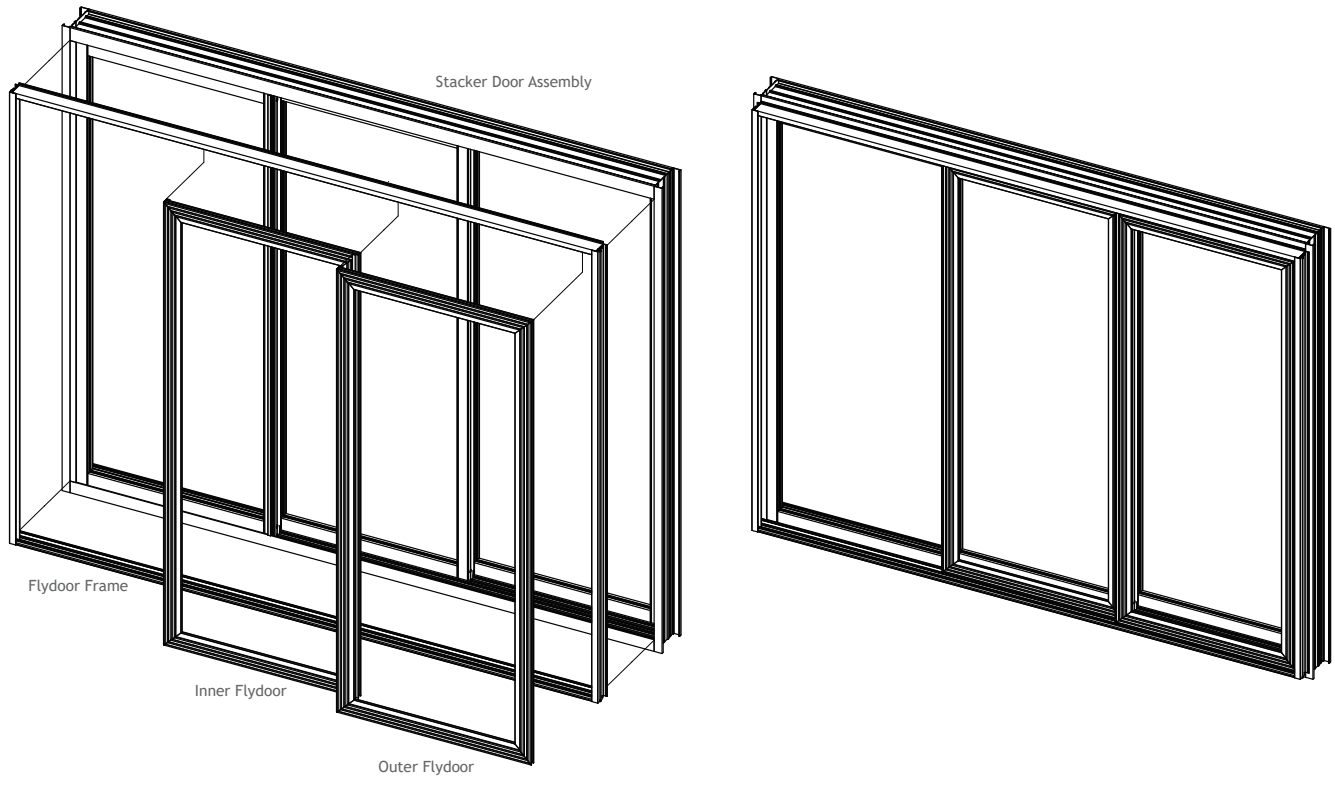
Frame Assembly: Single Flydoor



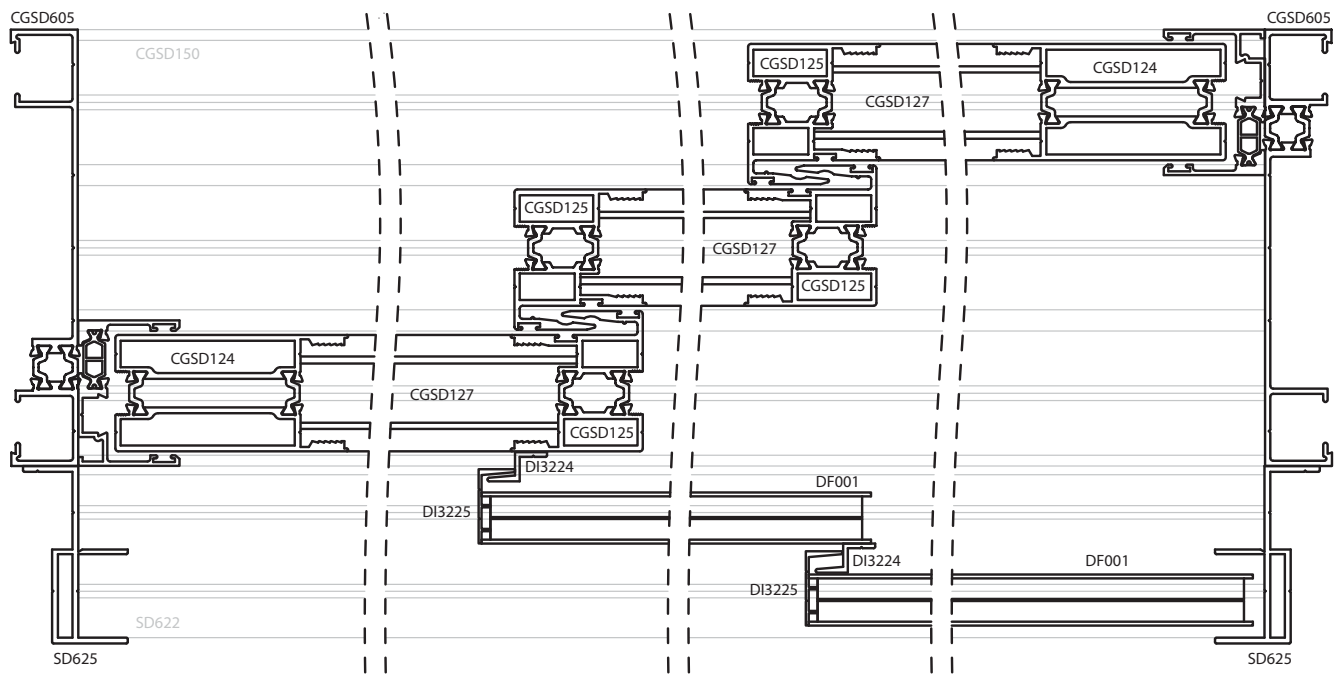
Fabrication

Exploded Assembly Overview: Double Flydoor

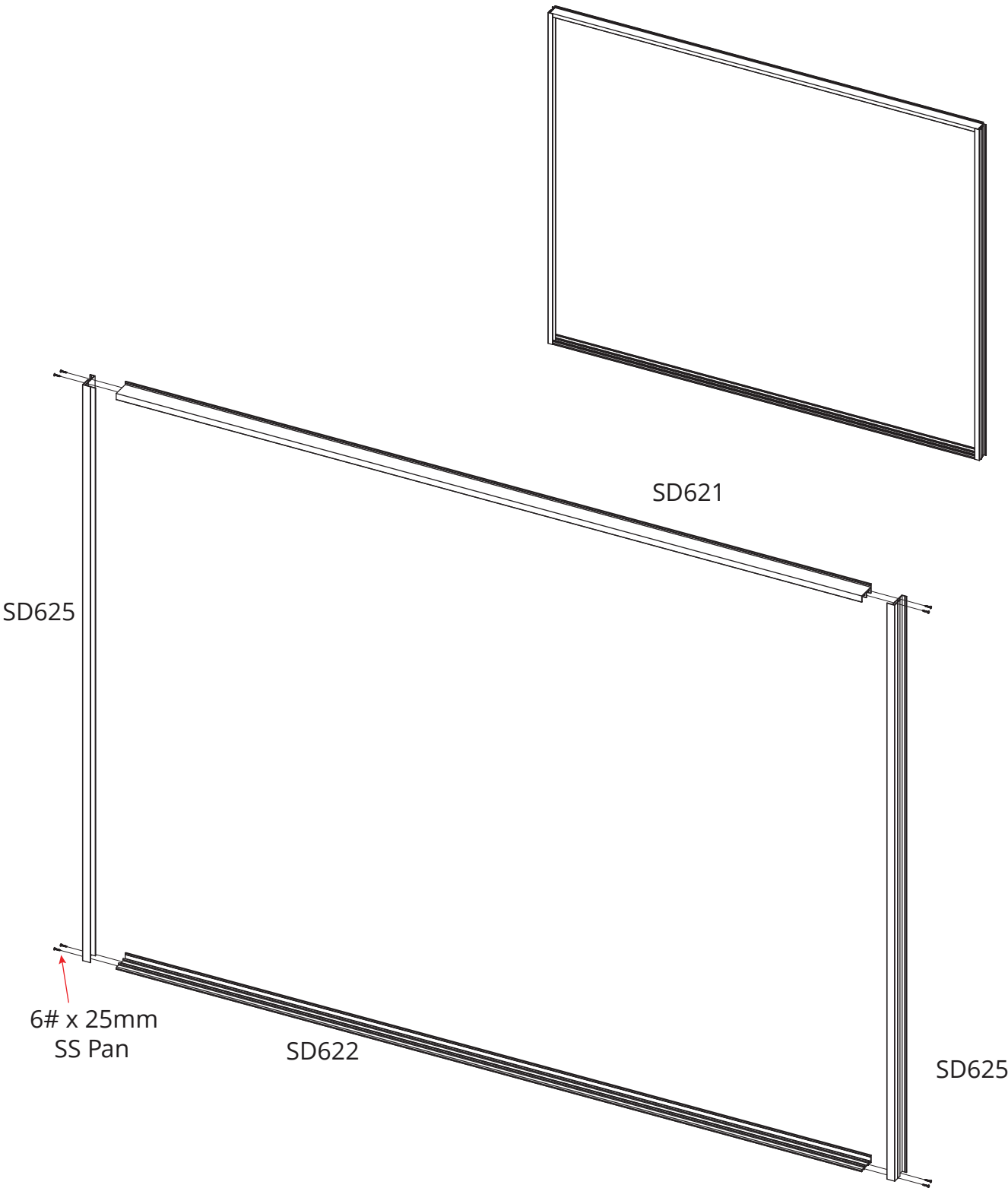
Fabrication



Double Flydoor Assembly Top View Detail:



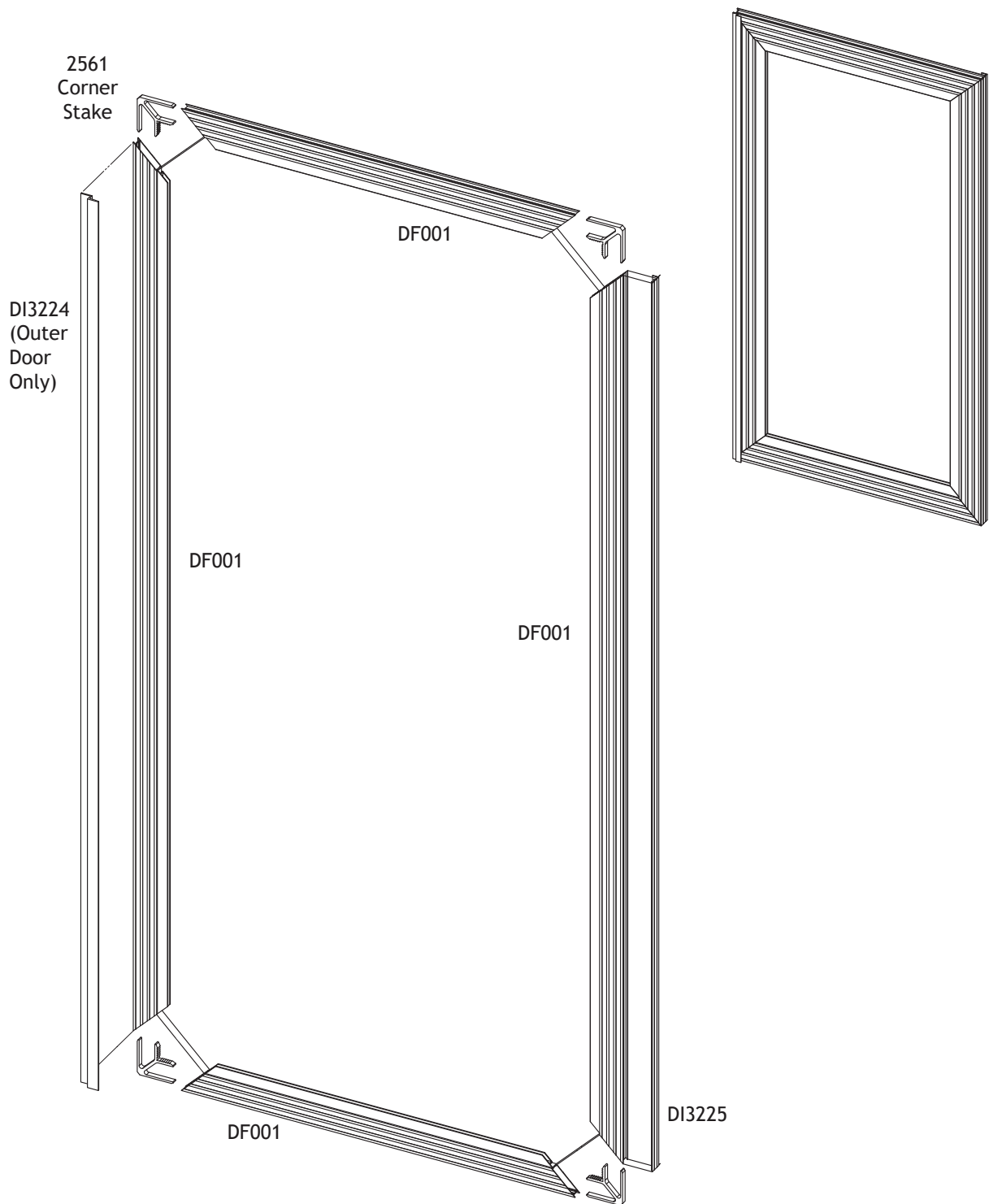
Frame Assembly: Double Flydoor



Fabrication

Panel Assembly: Inner & Outer Flydoor

Fabrication

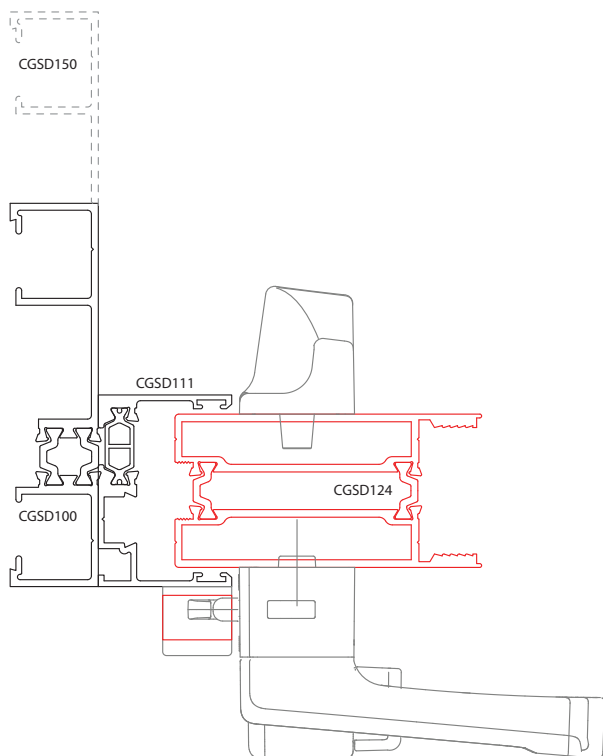


Fabrication

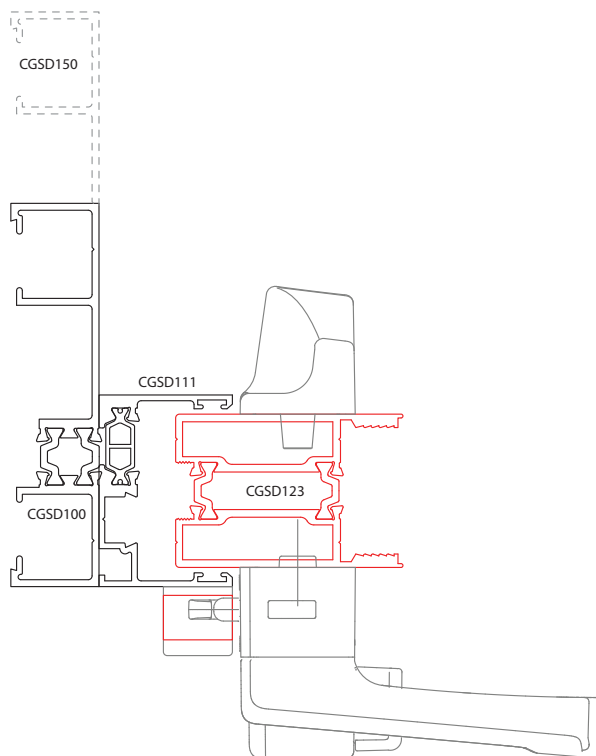


Face-Fixed Lock: 1251/1351/1254/1354

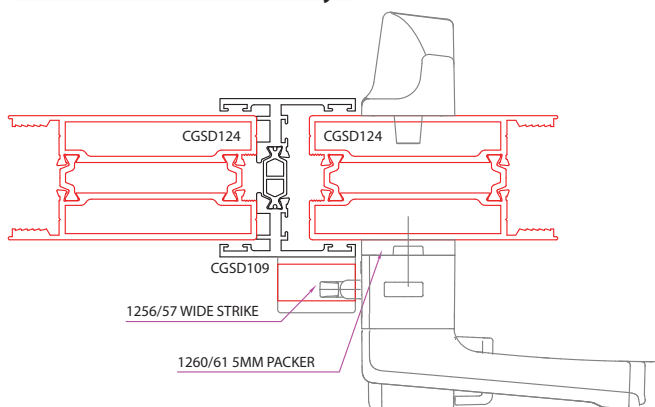
FS/FSS/FSS Onyx



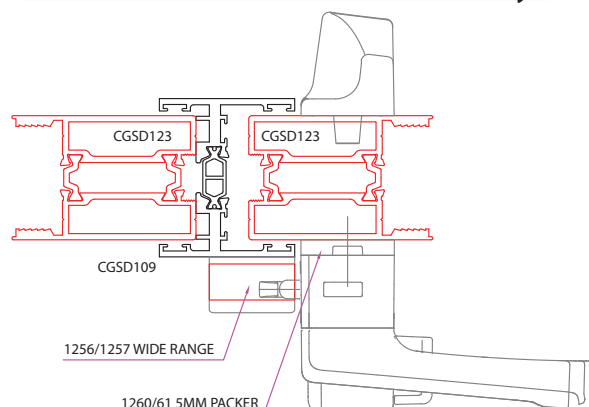
FS/FSS/FSSS (Small Stile) Onyx



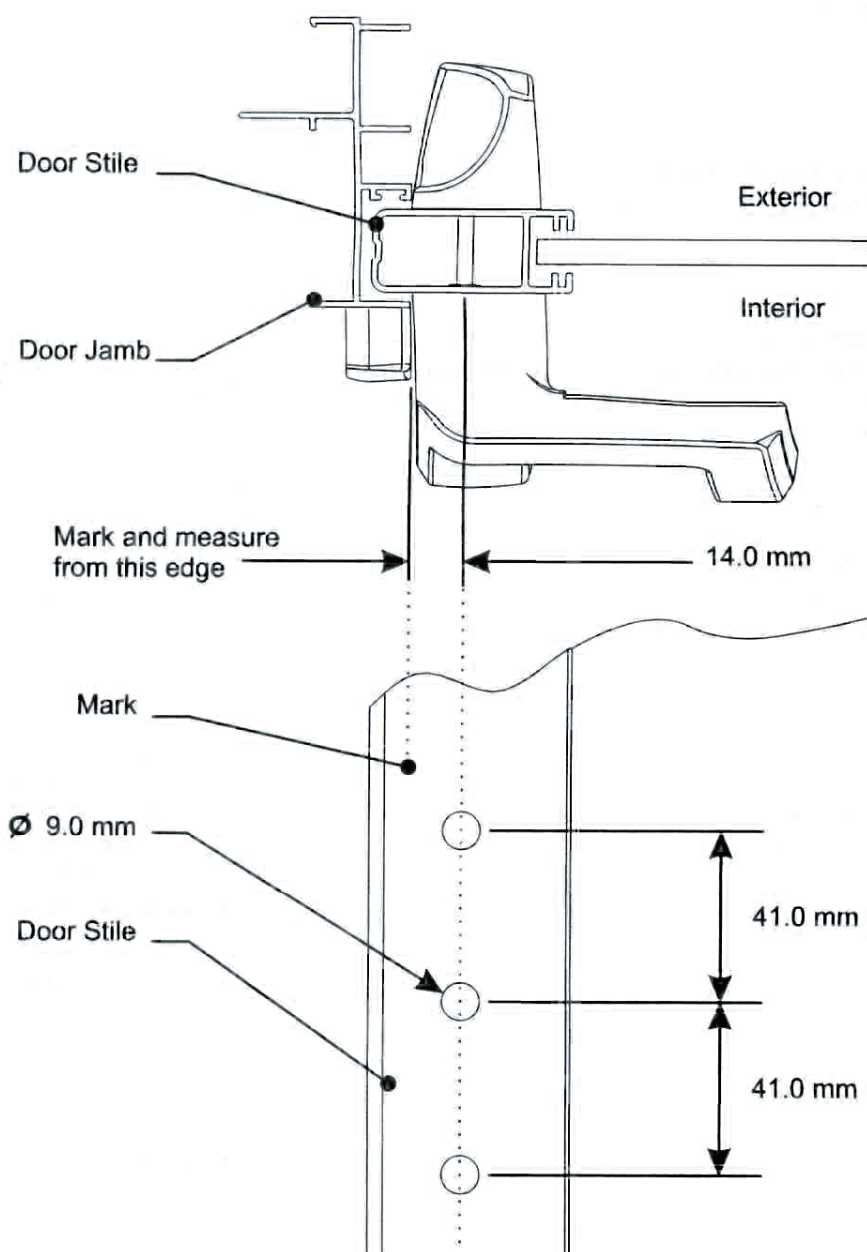
FSF/FSSF/FSSSF Onyx



FSF/FSSF/FSSSF (Small Stile) Onyx



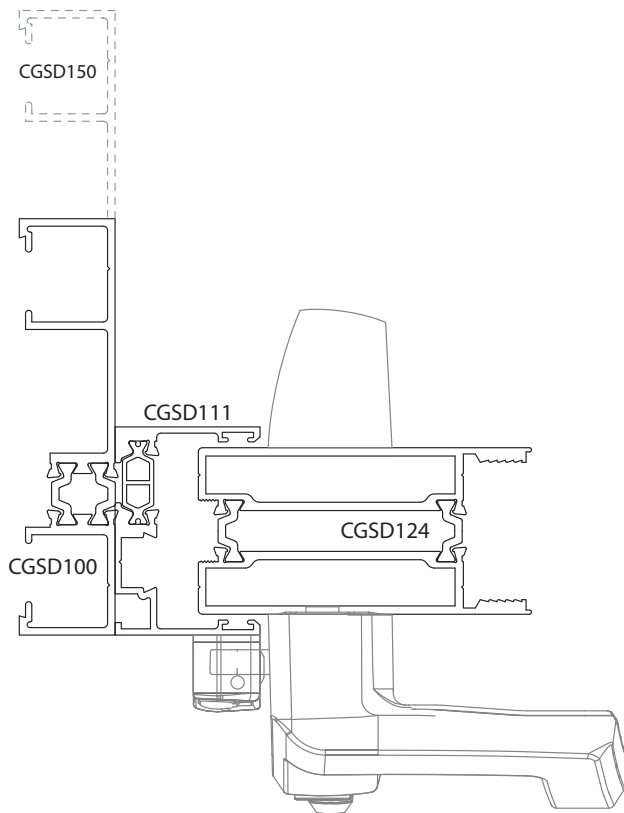
1258/1259/1268 Yarraview Edge Installation Guide



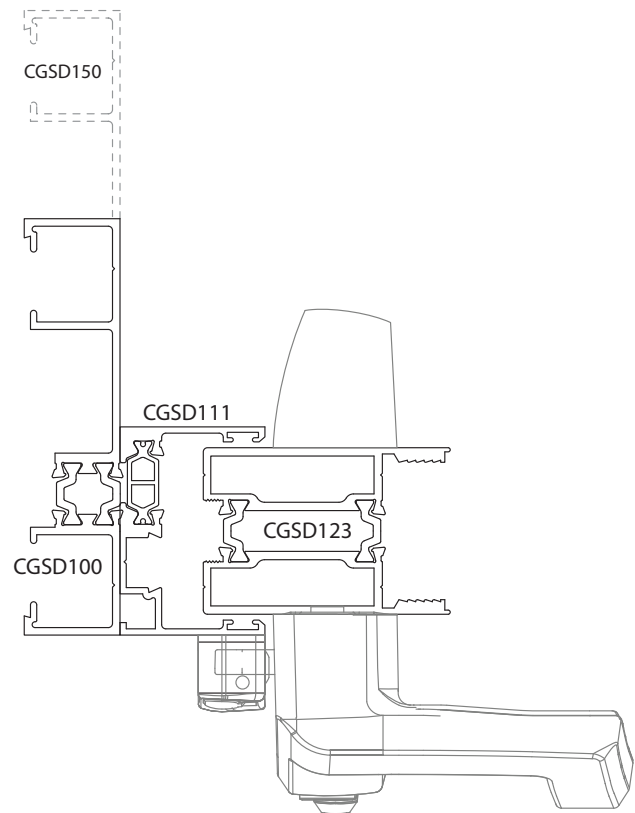
Fabrication

Face-Fixed Lock: 1258/1358

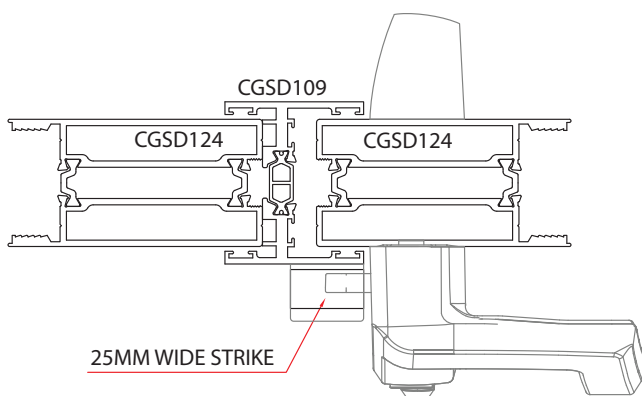
FS/FSS/FSSS Yarraview



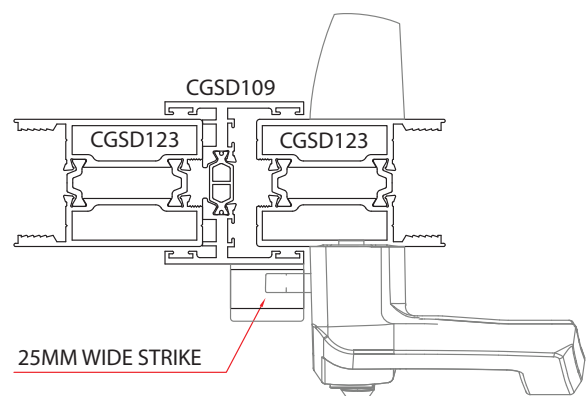
FS/FSS/FSSS (Small Stile) Yarraview



FSF/FSSF/FSSSF Yarraview

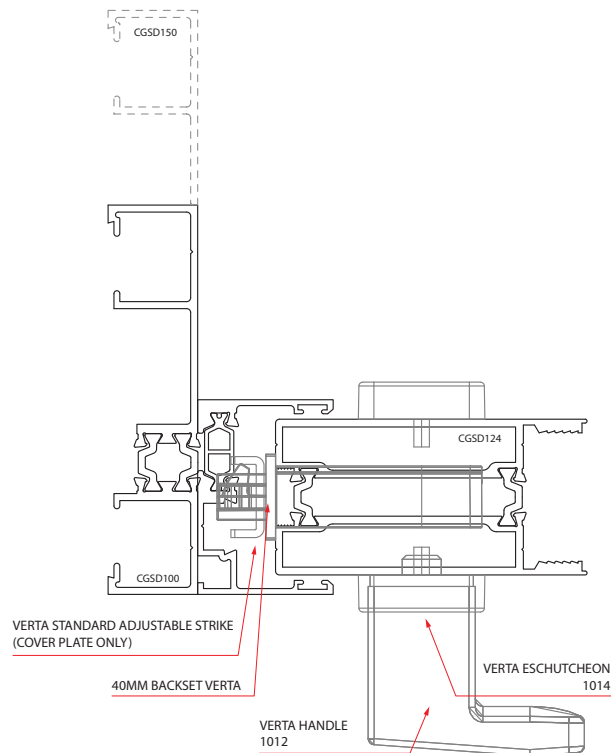
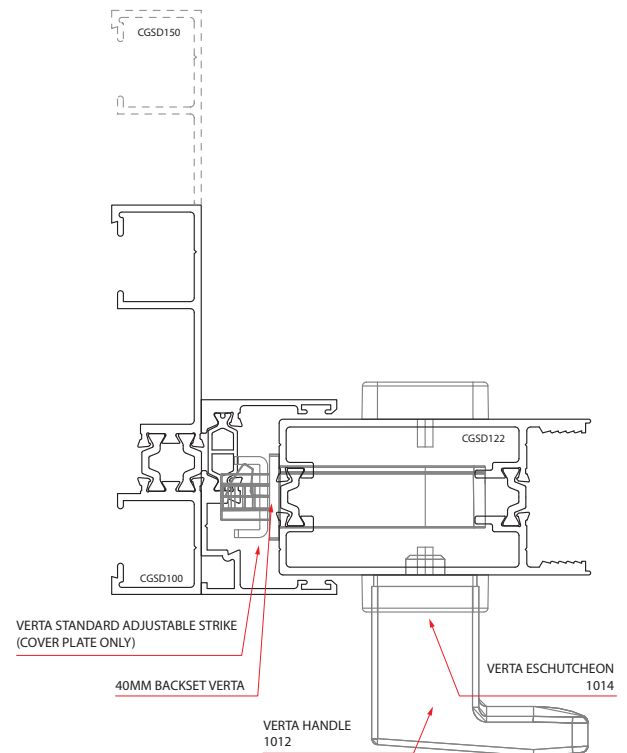
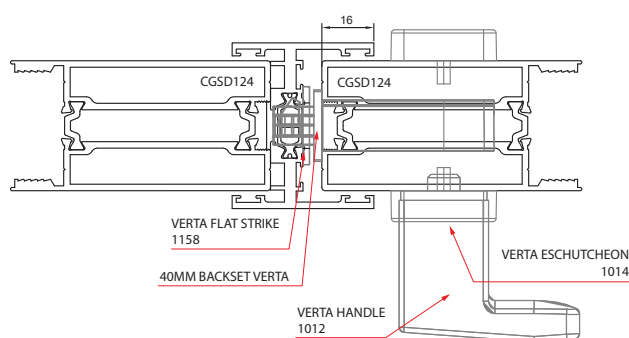
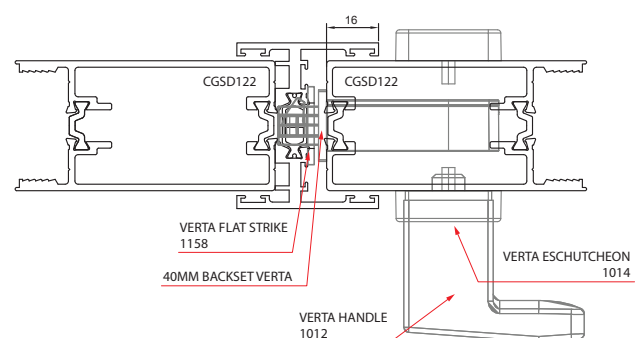


FSF/FSSF/FSSSF (Small Stile) Yarraview

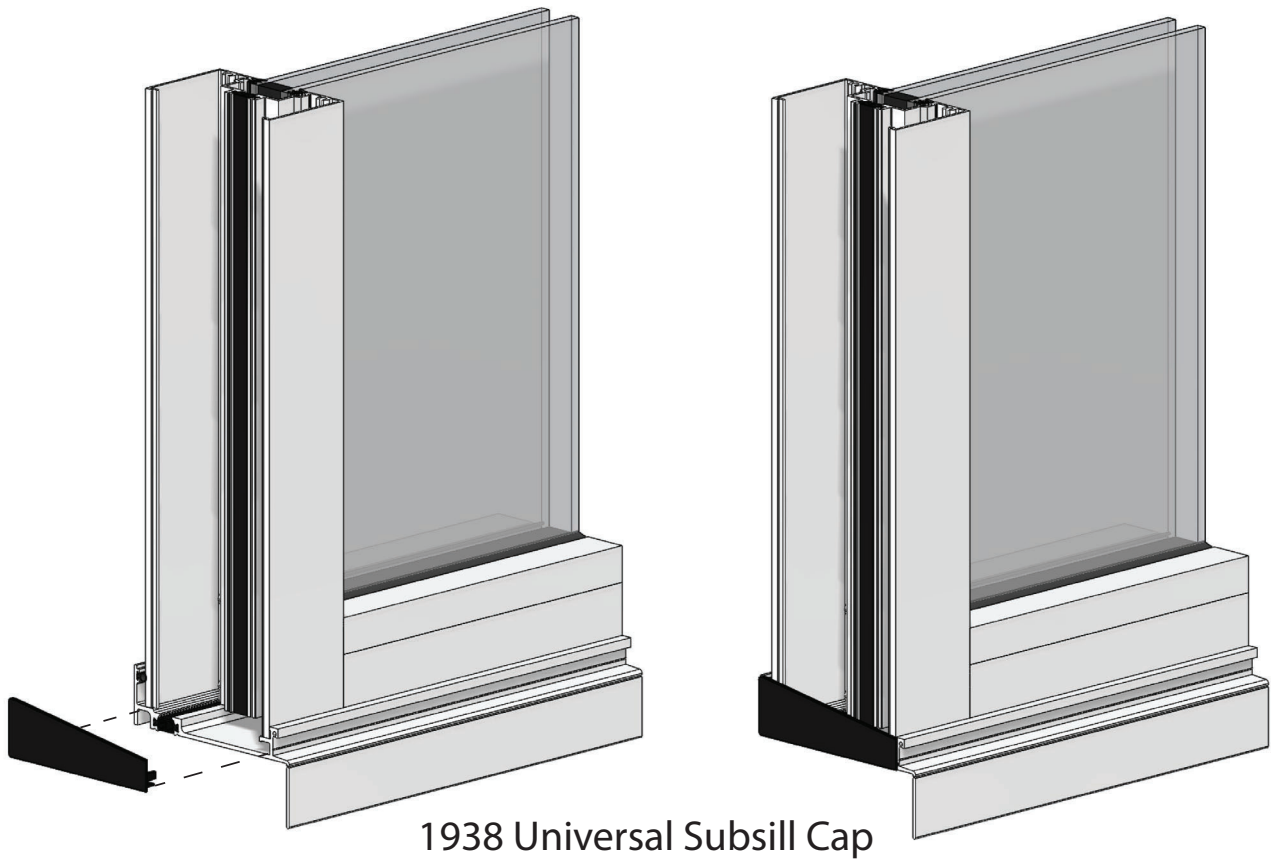


Fabrication

Mortice Lock: 1114

FS/FSS/FSSS Verta 40mm Backset with Handle

FS/FSS/FSSS Verta 40mm Backset with Handle (Hollow Stile)

FSF/FSSF/FSSSF Verta 40mm Backset with Handle

FSF/FSSF/FSSSF Verta 40mm Backset with Handle (Hollow Stile)


Subsill End Dam Installation



Appropriate Sealant



Glass & Rubber Combinations

GLAZING CHANNEL 24MM
Suit CG Apt Door
(1652)



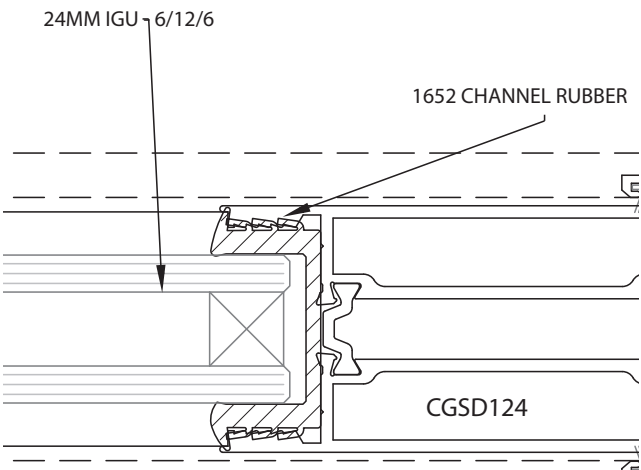
GLAZING CHANNEL 28MM
Suit CG Apt Door
(1653)



GLAZING CHANNEL 30MM
Suit CG Apt Door
(1654)



ClimateGuard		
Architectural Door		
Glass Thickness	Channel Rubber Required	Pocket Size
24mm	1652	33mm
28mm	1653	
30mm	1654	



EXAMPLE

Glazing

Energy Ratings Definitions

All Darley products have been rated under the Australian Fenestration Ratings Council (AFRC) Energy Rating Scheme.

Definitions

The following are terms used in describing the energy ratings of windows as defined by the Window Energy Rating Scheme (WERS). For further information go to www.wers.net.

U-Value (U_w)

U-Value measures how well a product prevents heat from escaping. It is a measure of the rate of non solar heat loss or gain through a material or assembly. U-Value ratings generally fall between 2.0 - 10.0 W/m² for Australian products. The rate of heat is indicated in the terms of the U-Value of a window assembly which includes the effect of the frame, glass, seals and any spacers. The lower the U-value, the greater a window's resistance to heat flow and the better its insulating value. The U-Value for a window takes account for the various U-values for the components making up the window, so you may see these in technical literature:

U_w is the value for the whole window and because of its importance is usually abbreviated to U.

U_c is the value at the centre of glass.

U_f is the value for the frame.

Solar Heat Gain Coefficient ($SHGC_w$)

SHGC measures how well a product blocks heat caused by sunlight. The SHGC is a fraction of incident solar radiation admitted through a window, both directly transmitted, and absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.

Visible Transmittance (T_{vw})

Visible transmittance measures how much light comes in through a product. It is an optical property that indicates the amount of visible light transmitted. T_{vw} is expressed as a number between 0 and 1. The higher the number, the more light is transmitted.

Energy Ratings

ClimateGuard Sliding Door			
DAR	Glass	U	SHGC
DAR_052_05_01	6,38ComPlsClr-18Ar-6mmClr	2.473	0.455
DAR_052_05_02	6,38ComPlsClr-12Ar-6mmClr	2.428	0.458
DAR_052_05_03	6,38Sx-12-6mmClr	2.606	0.459
DAR_052_05_04	LightBridge_ClrSI_6,38-14-4	2.273	0.409
DAR_052_05_05	LightBridge_ClrSO_6mm-12-6mm	2.267	0.434
DAR_052_05_06	6mm-12Ar-6mm	3.067	0.54
DAR_052_05_07	6mmET-12Ar-6mm	2.436	0.469
DAR_052_05_08	6mmETGy-12Ar-6mm	2.464	0.298
DAR_052_05_09	6mmEVanClr-12Ar-6mm	2.68	0.428
DAR_052_05_010	6mmSngyClr-12Ar-6mm	2.612	0.389
DAR_052_05_11	6mmSolTech-12Ar-6mm	2.444	0.347
DAR_052_05_12	6mmPerformtech-12Ar-6mm	2.234	0.258
ClimateGuard Stacker Door			
DAR	Glass	U	SHGC
DAR_051_05_01	6.38ComPlsClr_18Ar_6Clr	2.51	0.453
DAR_051_05_02	6.38ComPlsClr_12Ar_6Clr	2.448	0.454
DAR_051_05_03	6.38Sx_12_6Clr	2.627	0.455
DAR_051_05_04	LightBridge_ClrSI_6,38-14-4	2.295	0.404
DAR_051_05_05	LightBridge_ClrSO_6-12-6	2.291	0.429
DAR_051_05_06	6mmClr_12Ar_6mmClr	3.091	0.536
DAR_051_05_07	6mmET_12Ar_6mmClr	2.461	0.464
DAR_051_05_08	6mmETGry_12Ar_6mmClr	2.489	0.293
DAR_051_05_09	6mmEVanClr_12_6mmClr	2.705	0.423
DAR_051_05_10	6mmSngyClr_12Ar_6mmClr	2.637	0.385
DAR_051_05_11	6mmSolTech_12Ar_6mmClr	2.478	0.342
DAR_051_05_12	6mmPerformaTech_12Ar_6mmClr	2.267	0.253

KEY

Gy = Grey, Ntl = Neutral, Gn = Green, Clr = Clear, B = Blue, Bz = Bronze, Lam = Laminate, ComPls = Comfort Plus, SolT - SolTech, Sp = Super, ET = Energy Tech, EVan = Evantage, AZT = Solar Cool Azuria, Sngy = Sunergy.

NOTES

1. U is the whole window U-Value
2. SHGC is the whole window solar heat gain coefficient
3. Twv is the whole window visible light transmittance
4. Percentage improvement figures are compared with using base-case Generic Window 1 (3mm clear in standard aluminium frame)
5. A negative percentage improvement figure indicates performance worse than the base-case window
6. A positive percentage improvement figure indicates performance better than the base-case window
7. Maximum air infiltration is 5.0 L/s.m² at a positive pressure difference of 75Pa as measured according to AS 2047
8. Static performance (U, SHGC, Twv, Tdw) Calculated using Window 5.2 and Therm 5.2 software (LBNL), 2000-2003
9. Annual energy performance (stars and % improvements) calculated using Nationwide House Energy Rating Software (AccuRate)
10. Results disclosed at National fenestration Rating Council (NFRC) regulations

Test Results

Structural Test Report: FS Slider

LABORATORY TEST RESULTS: ClimateGuard™ FS Sliding Door

The following data was obtained from the results of the tests on the ClimateGuard™ FS Sliding Door as performed in the Azuma Testing Laboratory (NATA Accredited).

Test Report No. : AZT0410.18
Date: 21/08/2018

Test: Deflection Test

Results: The test unit satisfied the requirement of AS 2047.1 in both positive and negative deflection at the nominated design pressure of 1042 Pa.

Test: Air Infiltration Test

Results: The test unit satisfied the requirements of AS 2047.1. The unit passed 75Pa air pressure in the sealed and unsealed states. Results were as follows:

- 0.95 L/s.m² @75Pa Positive
- 1.0 L/s.m² @75Pa Negative

Test: Water Penetration

Results: The test unit satisfied the requirement of AS 2047 in positive pressure at the maximum pressure of 450 Pa.

Test: Ultimate Strength Test

Results: The test unit satisfied the requirement of AS 2047 at the maximum pressure of 2315 Pa Positive and Negative.

Test & Date	AZT0410.18, 21/08/2018
Serviceability Load	+/- 1042Pa
Air Infiltration	+75 Pa = 0.95 L/s.m2 -75 Pa = 1.00 L/s.m2
Water Penetration	450 Pa
Ultimate Strength	+/- 2315Pa

Structural Test Report: FSS Stacker

LABORATORY TEST RESULTS: ClimateGuard™ FSS Stacking Door

The following data was obtained from the results of the tests on the ClimateGuard™ FSS Stacking Door as performed in the Azuma Testing Laboratory (NATA Accredited).

Test Report No. : AZT0411.18

Date: 22/08/2018

Test: Deflection Test

Results: The test unit satisfied the requirement of AS 2047.1 in both positive and negative deflection at the nominated design pressure of 1042 Pa.

Test: Air Infiltration Test

Results: The test unit satisfied the requirements of AS 2047.1. The unit passed 75Pa air pressure in the sealed and unsealed states. Results were as follows:

- 1.53 L/s.m² @75Pa Positive
- 1.58 L/s.m² @75Pa Negative

Test: Water Penetration

Results: The test unit satisfied the requirement of AS 2047 in positive pressure at the maximum pressure of 450 Pa.

Test: Ultimate Strength Test

Results: The test unit satisfied the requirement of AS 2047 at the maximum pressure of 2315 Pa Positive and Negative.

Acoustic Test Report

Acoustic Performance

ESTIMATED TEST RESULTS: ClimateGuard Sliding (Architectural) Door

Estimated Rw value of 35 based on results of a similar system; see results below

Test Report No. : 4258-2

Date: 01/02/2010

Glass Type: 10.38 clrlam

Acoustic Rating: 35Rw

Acoustic Test Report

Acoustic Performance

ESTIMATED TEST RESULTS: ClimateGuard Sliding (Architectural) Door

Estimated Rw value of 34 based on results of a similar system; see results below

Test Report No. : 4258-3

Date: 01/02/2010

Glass Type: 6tgh / 12air / 6.38clrlam

Acoustic Rating: 34Rw

BAL Compliance

BAL Fire Rating

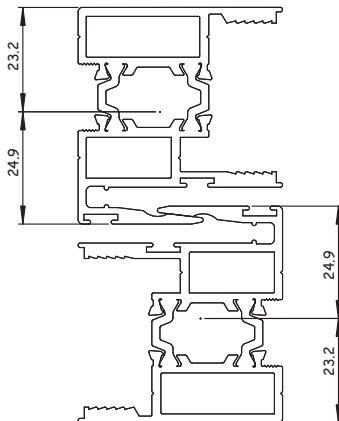


Bushfire attack levels achievable with “Deemed to Satisfy” checklist.

Bushfire Attack Level	Description of Predicted Bushfire Attack and Levels of Exposure	
BAL-Low	There is insufficient risk to warrant specific construction requirements	✓
BAL-12.5	Ember attack.	✓
BAL-19	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing heat flux between 12.5 and 19 kWm ² .	✓
BAL-29	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing heat flux between 19 and 29 kWm ² .	✓
BAL-40	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing heat flux and the increased likelihood of exposure to flames.	✓
BAL-FZ	Direct exposure to flames from fire front in addition to heat flux and ember attack.	✗

	BAL-12.5	BAL-19	BAL-29	BAL-40
FRAME	Low-level framing must be manufactured from either: • Metal, or • Bushfire resistant timber or • Timber species with a density greater than 650 kg/m³ or • Metal reinforced uPVC.	Low-level framing must be manufactured from either: • Metal, or • Bushfire resistant timber or • Timber species with a density greater than 650 kg/m³ or • Metal reinforced uPVC.	Low-level framing must be manufactured from either: • Metal, or • Bushfire resistant timber or • Metal reinforced uPVC.	All framing must be metal .
GLAZING	Low-level glazing must be Grade A safety glass with a minimum thickness of 4 mm.	Low-level glazing must be Grade A safety glass with a minimum thickness of 5 mm. In all other locations where annealed glass is used, it must be protected by an external screen (see screen requirements).	All glazing must be toughened glass with a minimum thickness of 6 mm. Low-level glazing must be protected by an external screen (see screen requirements).	All glazing must be toughened glass with a minimum thickness of 6 mm. All glazing must be protected by an external screen (see screen requirements).
SCREENS	Openable portions of doors must be screened either internally or externally. Mesh or perforated sheet with a maximum aperture of 2mm manufactured from either: - Corrosion resistant steel (Screenguard), or - Bronze, or - Aluminium (Perfguard). Supporting frame must be manufactured from either: • Metal (including aluminium), or • Bushfire resistant timber or • Timber species with a density greater than 650 kg/m³.	Openable portions of doors must be screened either internally or externally. Mesh or perforated sheet with a maximum aperture of 2mm manufactured from either: - Corrosion resistant steel (Screenguard), or - Bronze, or - Aluminium (Perfguard). Supporting frame must be manufactured from either: • Metal (including aluminium), or • Bushfire resistant timber or • Timber species with a density greater than 650 kg/m³. Where annealed glass is used, it must be protected by an external screen.	Openable portions of doors must be screened either internally or externally. Mesh or perforated sheet with a maximum aperture of 2mm manufactured from either: - Corrosion resistant steel (Screenguard), or - Bronze, or - Aluminium (Perfguard). Supporting frame must be manufactured from either: • Metal (including aluminium), or • Bushfire resistant timber. Low-level glazing must be protected by an external screen. Screen assemblies must be attached using metal fixings.	Fixed and openable portions of doors must be screened either internally or externally. Mesh or perforated sheet with a maximum aperture of 2 mm manufactured from either: - Corrosion resistant steel (Screenguard), or - Bronze. Aluminium mesh or perforated sheet cannot be used. Supporting frame must be manufactured from metal (including aluminium). Screen assemblies must be attached using metal fixings.
SEALS	N/A	N/A	N/A	Seals must be manufactured from silicone or have a flammability index less than 5.
HARDWARE	N/A	N/A	Externally fitted hardware that supports the sash in its functions of opening and closing must be metal unless shielded by metal frame components.	Externally fitted hardware that supports the sash in its functions of opening and closing, must be metal.

Interlock Strength Charts: CGSD125 x 2



$$I_{xx} = 136.81 \times 10^3 \text{ mm}^4$$

$$y_{\text{max}} = 24.9 \text{ mm}$$

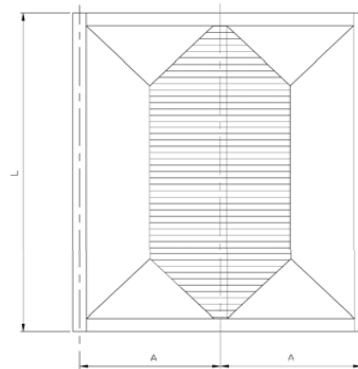
$$I_{xx} = 136.81 \times 10^3 \text{ mm}^4$$

$$y_{\text{max}} = 24.9 \text{ mm}$$

$$\text{Total } I_{yy} = 273.62 \times 10^3 \text{ mm}^4$$

$$\text{Total } x_{\text{max}} = 24.9 \text{ mm}$$

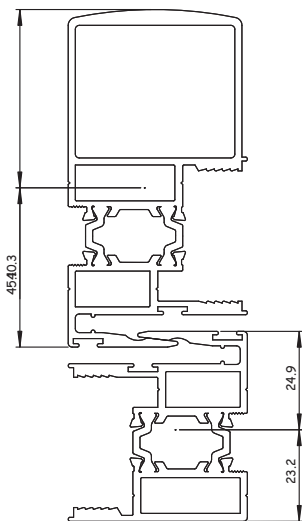
I - moment of inertia	273.62	$\times 10^3 \text{ mm}^4$
y - max depth of section from N axis	24.9	mm
E- Modulus	69	GPa
Ultimate stress	110	Mpa
Z - Section modulus	11.0	
Panel Width Increments	100	mm
Window Height Increments	100	mm



Mullion Pressure Ratings (Pa): Symmetrical Panels

Darley Aluminium			Serviceability 1/250	Ultimate U				Limitations: Serviceability to 5000Pa & Ultimate to 8000Pa		CGSD125 x 2
	Panel Width (mm) (A)									
Window Height (mm) (L)	800	900	1000	1100	1200	1300	1400	1500	1600	Serviceability
600	5000	5000	5000	5000	5000	5000	5000	5000	5000	250
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U
700	5000	5000	5000	5000	5000	5000	5000	5000	5000	250
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U
800	5000	5000	5000	5000	5000	5000	5000	5000	5000	250
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U
900	5000	5000	5000	5000	5000	5000	5000	5000	5000	250
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U
1000	5000	5000	5000	5000	5000	5000	5000	5000	5000	250
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U
1100	5000	5000	5000	5000	5000	5000	5000	5000	5000	250
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U
1200	4966	4709	4495	4401	4370	4370	4370	4370	4370	250
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U
1300	3761	3540	3385	3250	3192	3173	3173	3173	3173	250
	8000	7567	7128	6832	6660	6602	6602	6602	6602	U
1400	3010	2731	2595	2497	2408	2371	2359	2359	2359	250
	6920	6358	5945	5647	5445	5326	5286	5286	5286	U
1500	2384	2220	2034	1947	1884	1822	1798	1790	1790	250
	5935	5427	5045	4760	4553	4410	4326	4298	4298	U
1600	1921	1781	1625	1548	1490	1433	1405	1388	1383	250
	5151	4692	4343	4076	3874	3725	3623	3562	3541	U
1700	1570	1452	1361	1252	1200	1160	1120	1100	1089	250
	4516	4101	3782	3535	3344	3197	3088	3012	2968	U
1800	1301	1199	1121	1027	981	945	917	888	874	250
	3994	3618	3327	3099	2920	2779	2670	2589	2532	U
1900	1090	1002	934	880	813	780	755	735	713	250
	3559	3217	2951	2741	2575	2442	2336	2254	2192	U
2000	973	846	787	740	702	652	629	610	596	250
	3192	2881	2637	2444	2289	2164	2064	1984	1921	U
2100	830	721	669	628	595	551	530	513		
	2880	2595	2372	2194	2050	1934	1839	1761		
2200	714	619	574	537	508					
	2613	2351	2146	1981	1848					
2300	619	565								
	2381	2140								
2400	540									
	2179									
2500										

Interlock Strength Charts:
CGSD125 + CGSD151

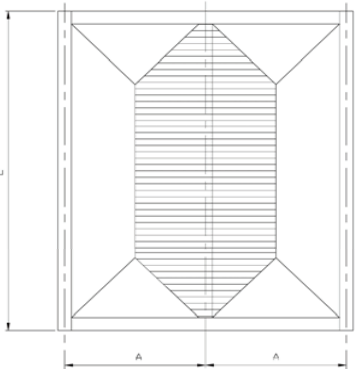


$I_{xx} = 614.92 \times 10^3 \text{ mm}^4$
 $y \text{ max} = 45.1 \text{ mm}$

$I_{xx} = 136.81 \times 10^3 \text{ mm}^4$
 $y \text{ max} = 24.9 \text{ mm}$

Total $I_{xx} = 751.73 \times 10^3 \text{ mm}^4$
Total $y \text{ max} = 45.1 \text{ mm}$

I - moment of inertia 751.73 $\times 10^3 \text{ mm}^4$
y - max depth of section from N axis 45.1 mm
E- Modulus 69 GPa
Ultimate stress 110 Mpa
Z - Section modulus 16.7
Panel Width Increments 100 mm
Window Height Increments 100 mm

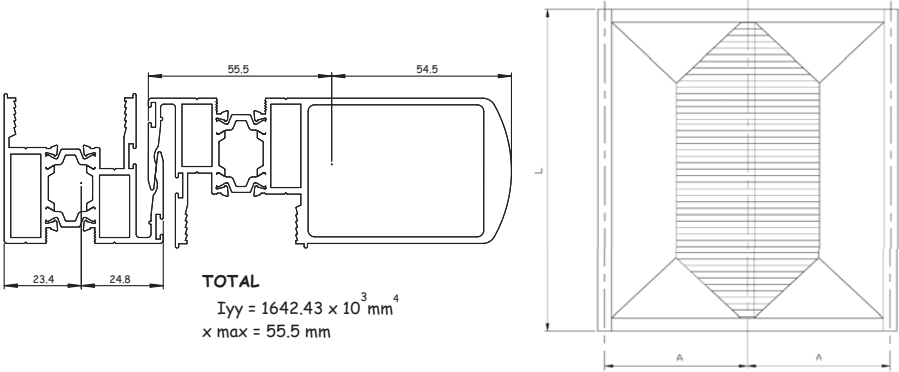


Mullion Pressure Ratings (Pa): Symmetrical Panels

Darley Aluminium			Serviceability 1/250	Ultimate U						Limitations: Serviceability to 5000Pa & Ultimate to 8000Pa	CGSD125 + CGSD151
Window Height (mm) (L)	Panel Width (mm) (A)										Serviceability
	800	900	1000	1100	1200	1300	1400	1500	1600		
1100	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	U
	8000	8000	8000	8000	8000	8000	8000	8000	8000	250	U
1200	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	U
	8000	8000	8000	8000	8000	8000	8000	8000	8000	250	U
1300	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	U
	8000	8000	8000	8000	8000	8000	8000	8000	8000	250	U
1400	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	U
	8000	8000	8000	8000	8000	8000	8000	8000	8000	250	U
1500	5000	5000	5000	4814	4604	4460	4375	4346	4346	250	U
	8000	8000	7653	7221	6906	6690	6562	6519	6519	250	U
1600	5000	4745	4392	4122	3918	3767	3663	3602	3581	250	U
	7813	7117	6587	6183	5877	5651	5495	5403	5372	250	U
1700	4314	3988	3739	3440	3296	3188	3077	3023	2991	250	U
	6850	6220	5737	5362	5072	4849	4684	4569	4501	250	U
1800	3573	3294	3079	2823	2695	2596	2520	2439	2401	250	U
	6058	5487	5046	4701	4429	4215	4050	3927	3841	250	U
1900	2993	2753	2566	2419	2233	2144	2073	2019	1959	250	U
	5398	4880	4476	4158	3905	3703	3544	3419	3326	250	U
2000	2672	2324	2161	2032	1930	1791	1727	1677	1637	250	U
	4842	4369	4000	3707	3473	3283	3131	3009	2913	250	U
2100	2281	1980	1838	1725	1634	1513	1455	1408	1371	250	U
	4369	3937	3598	3328	3110	2933	2789	2672	2578	250	U
2200	1963	1701	1576	1476	1395	1330	1237	1194	1160	250	U
	3963	3566	3255	3006	2803	2638	2502	2391	2300	250	U
2300	1701	1553	1362	1273	1202	1143	1061	1022	990	250	U
	3612	3247	2959	2729	2541	2387	2260	2154	2066	250	U
2400	1484	1353	1185	1106	1042	990	946	882	853	250	U
	3306	2969	2703	2489	2315	2171	2052	1952	1868	250	U
2500	1303	1186	1094	967	910	863	823	790	740	250	U
	3037	2725	2479	2281	2118	1984	1872	1778	1699	250	U
2600	1150	1046	964	851	799	757	721	691	646	250	U
	2801	2511	2282	2098	1946	1821	1716	1627	1552	250	U
2700	1020	927	853	752	706	667	635	608	585	250	U
	2591	2322	2108	1936	1795	1677	1579	1495	1424	250	U
2800	909	825	759	705	627	592	563	538	517	250	U
	2404	2153	1954	1793	1661	1551	1458	1379	1312	250	U
2900	813	738	678	629	559	527	501			250	U
	2237	2002	1816	1665	1541	1438	1351			250	U
3000	731	662	608	564	528					250	U
	2087	1867	1692	1551	1435					250	U

Performance

Interlock Strength Charts:
CGSD125 + CGSD152



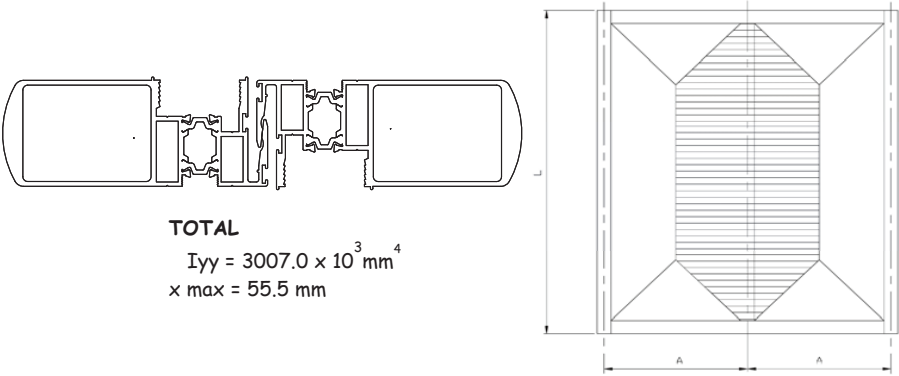
I - moment of inertia	1642.43	x 10 ³ mm ⁴
y - max depth of section from N axis	55.5	mm
E- Modulus	69	GPa
Ultimate stress	110	Mpa
Z - Section modulus	29.6	
Panel Width Increments	100	mm
Window Height Increments	100	mm

Mullion Pressure Ratings (Pa): Symmetrical Panels

Darley Aluminium			Serviceability 1/250	Ultimate U				Limitations: Serviceability to 5000Pa & Ultimate to 8000Pa		CGSD125 & CGSD152
Panel Width (mm) (A)										
Window Height (mm) (L)	1200	1300	1400	1500	1600	1700	1800	1900	2000	Serviceability
1400	5000 8000	5000 8000	5000 8000	5000 8000	5000 8000	5000 8000	5000 8000	5000 8000	5000 8000	250 U
1500	5000 8000	5000 8000	5000 8000	5000 8000	5000 8000	5000 8000	5000 8000	5000 8000	5000 8000	250 U
1600	5000 8000	5000 8000	5000 8000	5000 8000	5000 8000	5000 8000	5000 8000	5000 8000	5000 8000	250 U
1700	5000 8000	5000 8000	5000 8000	5000 8000	5000 7992	5000 7951	5000 7951	5000 7951	5000 7951	250 U
1800	5000 7863	4989 7484	4794 7191	4648 6972	4546 6820	4486 6729	4465 6698	4465 6698	4465 6698	250 U
1900	4622 6933	4383 6575	4194 6291	4047 6070	3936 5904	3859 5788	3812 5719	3797 5695	3797 5695	250 U
2000	4110 6165	3886 5829	3705 5558	3561 5342	3448 5173	3363 5045	3303 4955	3267 4901	3255 4883	250 U
2100	3569 5522	3305 5208	3178 4952	3076 4744	2995 4576	2902 4445	2855 4345	2823 4274	2803 4232	250 U
2200	3049 4977	2905 4684	2703 4443	2610 4245	2534 4083	2473 3952	2402 3848	2366 3769	2341 3713	250 U
2300	2625 4512	2497 4238	2319 4012	2234 3824	2164 3669	2107 3541	2061 3437	2004 3354	1978 3291	250 U
2400	2277 4110	2162 3855	2067 3643	1927 3465	1863 3317	1810 3194	1767 3091	1731 3008	1686 2942	250 U
2500	1988 3761	1885 3523	1799 3324	1727 3157	1616 3016	1567 2898	1526 2798	1493 2716	1465 2648	250 U
2600	1746 3456	1653 3233	1576 3046	1510 2889	1411 2756	1366 2643	1328 2547	1296 2467	1270 2399	250 U
2700	1542 3187	1458 2978	1388 2803	1329 2655	1278 2529	1198 2421	1163 2330	1133 2252	1108 2186	250 U
2800	1369 2949	1293 2753	1229 2588	1175 2449	1129 2330	1057 2228	1025 2140	997 2065	973 2001	250 U
2900	1221 2737	1152 2553	1094 2398	1045 2267	1003 2154	967 2057	907 1974	882 1902	860 1840	250 U
3000	1153 2547	1030 2374	978 2229	933 2104	894 1998	861 1906	833 1827	784 1758	763 1698	250 U
3100	1037 2377	926 2214	877 2077	836 1960	801 1859	771 1772	744 1696	700 1630	681 1573	250 U
3200	936 2224	835 2070	791 1940	753 1829	721 1734	693 1651	668 1579	647 1517	610 1462	250 U
3300	847 2085	797 1940	715 1817	680 1712	650 1622	625 1543	602 1475	583 1415	548 1363	250 U

Performance

Interlock Strength Charts:
CGSD152 x 2



I - moment of inertia	3007	x 10 ³ mm ⁴
y - max depth of section from N axis	55.5	mm
E- Modulus	69	GPa
Ultimate stress	110	Mpa
Z - Section modulus	54.2	
Panel Width Increments	100	mm
Window Height Increments	100	mm

Mullion Pressure Ratings (Pa): Symmetrical Panels

Darley Aluminium			Serviceability 1/250	Ultimate U				Limitations: Serviceability to 5000Pa & Ultimate to 8000Pa		CGSD152 & CGSD152
Panel Width (mm) (A)										
Window Height (mm) (L)	1200	1300	1400	1500	1600	1700	1800	1900	2000	Serviceability
2100	5000	5000	5000	5000	5000	5000	5000	5000	5000	250
	8000	8000	8000	8000	8000	8000	7954	7826	7748	U
2200	5000	5000	4949	4778	4639	4528	4397	4332	4287	250
	8000	8000	8000	7772	7475	7235	7045	6900	6798	U
2300	4807	4571	4245	4090	3962	3857	3773	3670	3620	250
	8000	7759	7345	7001	6717	6482	6292	6140	6025	U
2400	4169	3958	3784	3528	3411	3314	3234	3170	3088	250
	7525	7058	6669	6344	6073	5847	5660	5507	5385	U
2500	3640	3451	3293	3162	2959	2869	2794	2733	2683	250
	6886	6449	6085	5779	5522	5305	5123	4972	4849	U
2600	3197	3027	2885	2765	2584	2501	2432	2373	2325	250
	6327	5919	5577	5289	5045	4838	4663	4516	4393	U
2700	2824	2670	2541	2433	2341	2194	2130	2075	2029	250
	5834	5452	5132	4860	4630	4433	4265	4123	4002	U
2800	2506	2367	2250	2152	2068	1935	1876	1825	1782	250
	5398	5040	4739	4483	4265	4078	3918	3781	3664	U
2900	2235	2109	2003	1912	1836	1770	1661	1614	1574	250
	5010	4674	4391	4150	3943	3766	3614	3482	3369	U
3000	2111	1887	1790	1708	1637	1577	1525	1435	1397	250
	4663	4347	4080	3853	3658	3490	3344	3219	3109	U
3100	1898	1695	1606	1531	1467	1411	1363	1281	1246	250
	4352	4054	3802	3588	3403	3244	3105	2985	2880	U
3200	1713	1528	1447	1378	1319	1268	1224	1185	1116	250
	4071	3790	3552	3349	3175	3023	2892	2777	2677	U
3300	1551	1459	1309	1245	1191	1144	1103	1067	1004	250
	3817	3552	3327	3135	2969	2825	2700	2591	2495	U
3400	1409	1324	1187	1129	1079	1035	997	964	935	250
	3586	3335	3123	2940	2783	2647	2527	2423	2331	U
3500	1284	1206	1140	1027	980	940	905	874	847	250
	3376	3138	2937	2764	2615	2485	2371	2272	2184	U
3600	1173	1101	1040	936	893	856	824	795	770	250
	3184	2959	2767	2603	2461	2338	2230	2134	2050	U
3700	1074	1008	952	856	817	782	752	725	702	250
	3008	2794	2612	2456	2321	2204	2101	2010	1929	U
3800	987	925	873	828	748	716	688	663	641	250
	2846	2643	2470	2322	2193	2081	1983	1896	1819	U
3900	909	852	803	761	688	658	632	608	588	250
	2697	2504	2340	2198	2076	1969	1875	1792	1718	U
4000	838	785	740	702	668	605	581	559	540	250
	2560	2376	2219	2084	1967	1865	1775	1696	1625	U

Performance

Interlock Strength Charts: CGSD123 x 2 + CGSD109

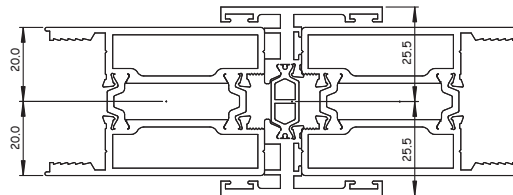
I - moment of inertia 393.27 x 10³ mm⁴
 y - max depth of section from N axis 25.5 mm
 E- Modulus 69 GPa
 Ultimate stress 110 Mpa

Z - Section modulus 15.4

Panel Width Increments 100 mm
 Window Height Increments 100 mm

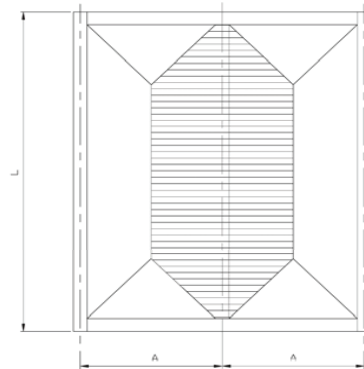
$I_{xx} = 160.79 \times 10^3 \text{ mm}^4$
 y max = 25.5 mm

$I_{yy} = 116.24 \times 10^3 \text{ mm}^4$
 x max = 20 mm



TOTAL

$I_{yy} = 393.27 \times 10^3 \text{ mm}^4$
 x max = 25.5 mm



Mullion Pressure Ratings (Pa): Symmetrical Panels

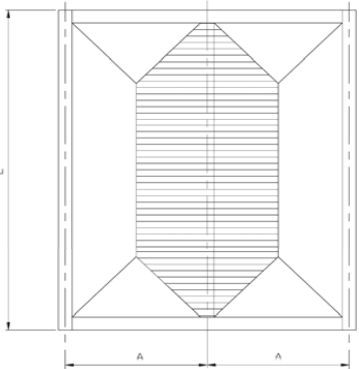
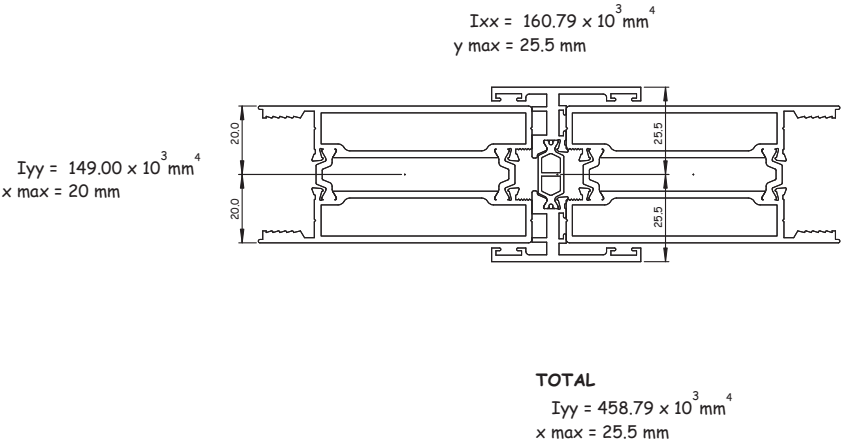
Darley Aluminium			Serviceability 1/250	Ultimate U						Limitations: Serviceability to 5000Pa & Ultimate to 8000Pa	CGSD123 & CGSD109 & CGSD123
	Panel Width (mm) (A)										
Window Height (mm) (L)	700	800	900	1000	1100	1200	1300	1400	1500	Serviceability	
400	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U	
500	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U	
600	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U	
700	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U	
800	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U	
900	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U	
1000	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U	
1100	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U	
1200	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U	
1300	5000	5000	5000	4866	4671	4588	4560	4560	4560	250	
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U	
1400	4709	4326	3925	3729	3590	3461	3408	3391	3391	250	
	8000	8000	8000	8000	7926	7642	7475	7419	7419	U	
1500	3745	3426	3191	2924	2798	2707	2619	2584	2573	250	
	8000	8000	7616	7081	6681	6390	6190	6071	6032	U	
1600	3029	2760	2560	2336	2225	2141	2060	2019	1995	250	
	8000	7229	6585	6095	5721	5437	5229	5084	4999	U	
1700	2484	2257	2087	1956	1799	1724	1668	1610	1581	250	
	7111	6338	5756	5308	4962	4693	4487	4334	4228	U	
1800	2176	1869	1723	1611	1477	1410	1358	1318	1276	250	
	6302	5605	5077	4669	4349	4098	3900	3748	3634	U	
1900	1827	1566	1440	1342	1265	1168	1121	1085	1056	250	
	5625	4994	4515	4142	3848	3613	3427	3279	3164	U	
2000	1549	1398	1216	1131	1063	1010	937	904	877	250	
	5053	4480	4043	3701	3430	3213	3038	2897	2784	U	
2100	1325	1193	1036	961	902	855	791	761	737	250	
	4565	4042	3642	3329	3079	2878	2714	2580	2472	U	
2200	1142	1027	890	824	772	730	696	647	625	250	
	4146	3667	3300	3011	2781	2594	2441	2315	2212	U	
2300	991	890	813	712	666	629	598	555	535	250	
	3782	3342	3004	2738	2525	2351	2209	2091	1993	U	

Interlock Strength Charts:
CGSD124 x 2 + CGSD109

I - moment of inertia 458.79 x 10³ mm⁴
y - max depth of section from N axis 25.5 mm
E- Modulus 69 GPa
Ultimate stress 110 Mpa

Z - Section modulus 18.0

Panel Width Increments 100 mm
Window Height Increments 100 mm



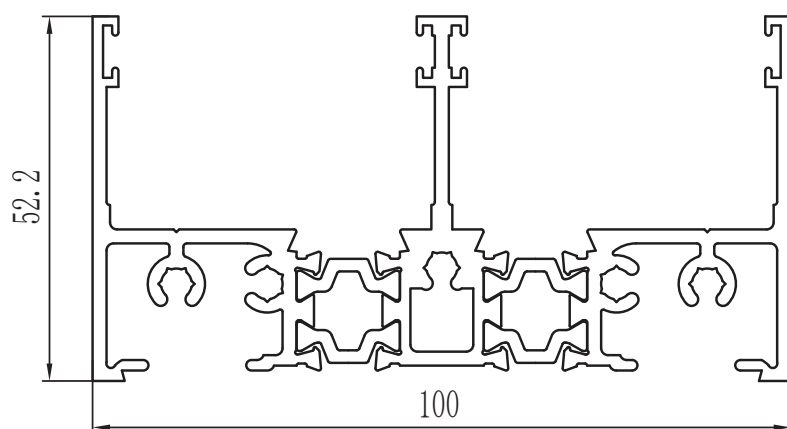
Mullion Pressure Ratings (Pa): Symmetrical Panels

Darley Aluminium			Serviceability 1/250	Ultimate	U			Limitations: Serviceability to 5000Pa & Ultimate to 8000Pa			CGSD124 & CGSD109 & CGSD124
	Panel Width (mm) (A)										
Window Height (mm) (L)	700	800	900	1000	1100	1200	1300	1400	1500	Serviceability	
500	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U	
600	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U	
700	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U	
800	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U	
900	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U	
1000	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U	
1100	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U	
1200	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U	
1300	5000	5000	5000	5000	5000	5000	5000	5000	5000	250	
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U	
1400	5000	5000	4579	4351	4188	4038	3976	3955	3955	250	
	8000	8000	8000	8000	8000	8000	8000	8000	8000	U	
1500	4369	3997	3722	3411	3264	3158	3056	3015	3002	250	
	8000	8000	8000	8000	7794	7454	7221	7083	7037	U	
1600	3533	3220	2987	2725	2595	2498	2403	2355	2328	250	
	8000	8000	7682	7111	6674	6343	6100	5931	5832	U	
1700	2898	2633	2434	2282	2099	2012	1945	1878	1845	250	
	8000	7394	6714	6193	5788	5475	5235	5056	4932	U	
1800	2539	2181	2010	1879	1723	1645	1584	1538	1489	250	
	7352	6539	5923	5447	5074	4780	4550	4372	4239	U	
1900	2132	1827	1680	1566	1476	1363	1308	1265	1232	250	
	6562	5827	5267	4832	4489	4215	3997	3825	3691	U	
2000	1807	1631	1418	1319	1240	1178	1093	1054	1023	250	
	5895	5226	4716	4318	4002	3748	3544	3379	3248	U	
2100	1545	1392	1208	1122	1053	997	923	888	859	250	
	5326	4716	4249	3884	3592	3357	3166	3010	2884	U	
2200	1332	1198	1038	962	901	852	811	755	729	250	
	4836	4278	3849	3513	3244	3026	2848	2701	2581	U	
2300	1156	1038	948	831	777	733	697	648	624	250	
	4412	3898	3504	3194	2945	2743	2577	2439	2325	U	
2400	1010	906	826	723	675	636	604	577	538	250	
	4041	3568	3204	2918	2687	2499	2344	2215	2107	U	

Performance

Section Profiles

Mainframe Profiles

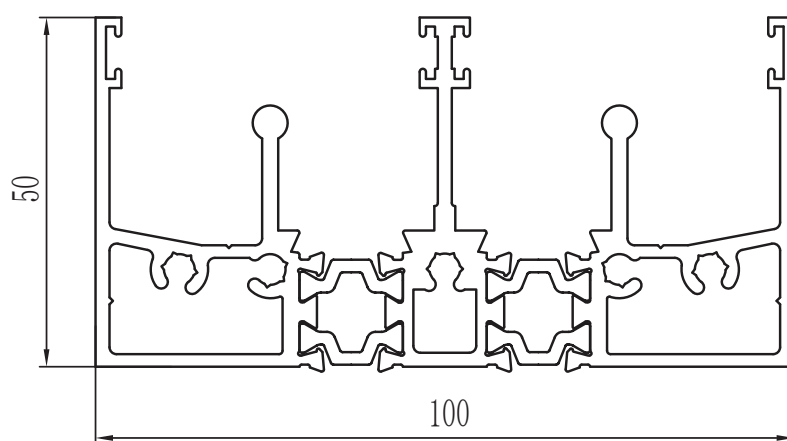


CGSD401

Head

A.P. = 832 mm

P.P. = 362 mm

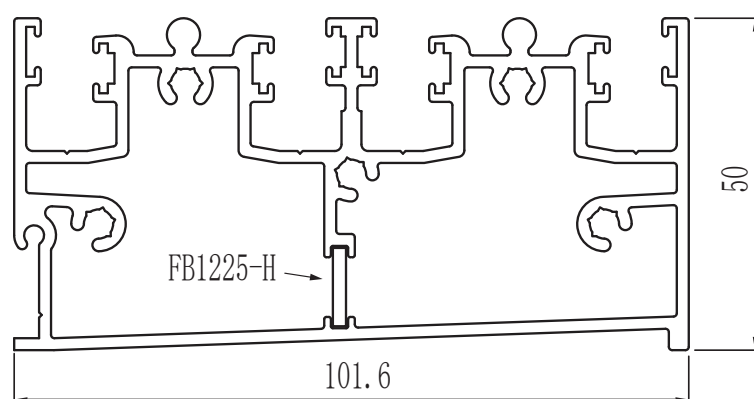


CGSD402

Sill

A.P. = 682 mm

P.P. = 428 mm

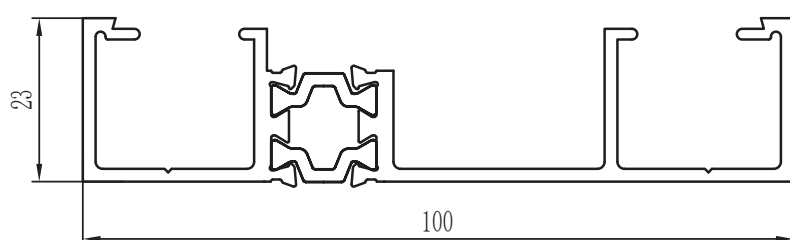


SD408

Non-Thermal Flush Sill
(Suits CGSD169 Rail)

A.P. = 624 mm

P.P. = 520 mm



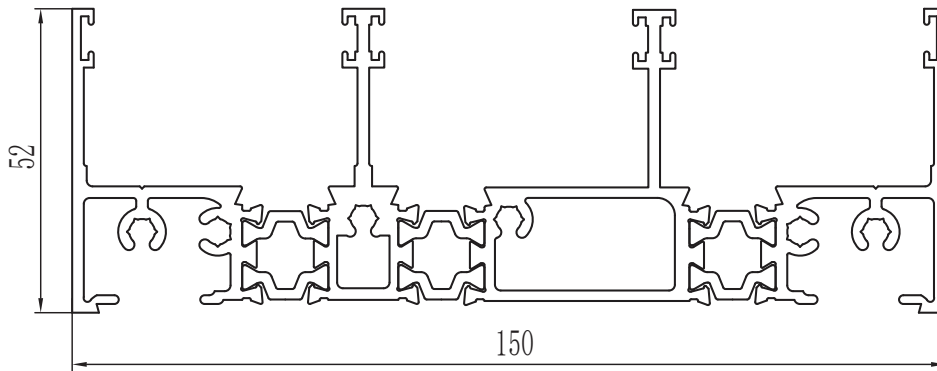
CGSD100

Jamb

A.P. = 453 mm

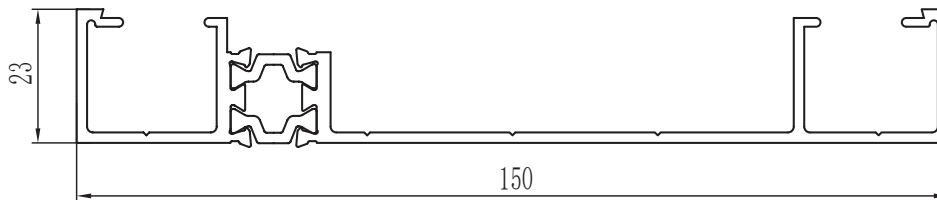
P.P. = 200 mm

Mainframe Profiles



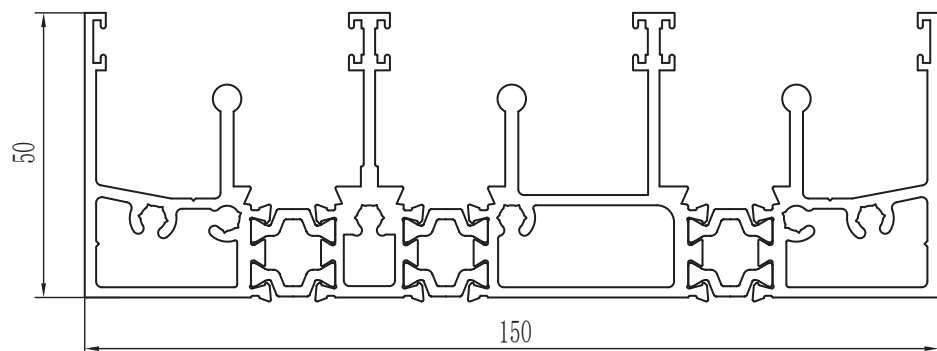
CGSD601
Stacker door Head

A.P. = 1086 mm
P.P. = 490 mm



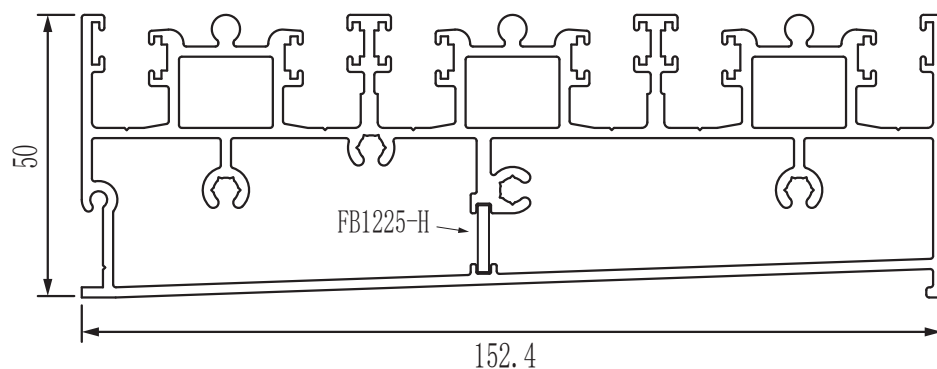
CGSD150
Stacker Door Jamb

A.P. = 554 mm
P.P. = 231 mm



CGSD605
Stacker Door Sill

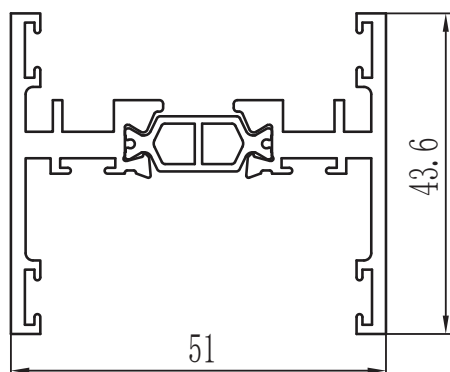
A.P. = 976 mm
P.P. = 596 mm



SD608
Non-Thermal Flush
Stacker Door Sill
(Suits CGSD169 Rail)

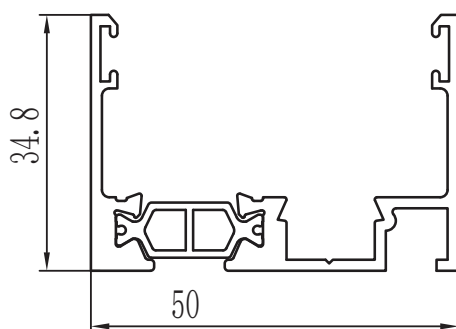
A.P. = 885 mm
P.P. = 727 mm

Mainframe Profiles



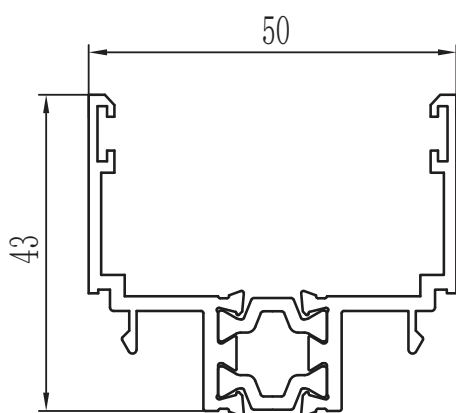
CGSD109
Meeting Stile Receiver

A.P. = 388 mm
P.P. = 200 mm



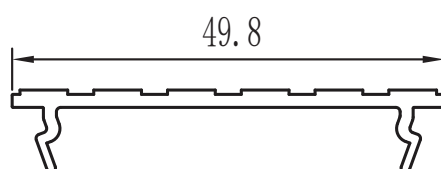
CGSD111
Plant-On Jamb Receiver

A.P. = 301 mm
P.P. = 200 mm



CGSD113
Clip in Jamb Receiver

A.P. = 344 mm
P.P. = 200 mm



SD603
Universal Threshold

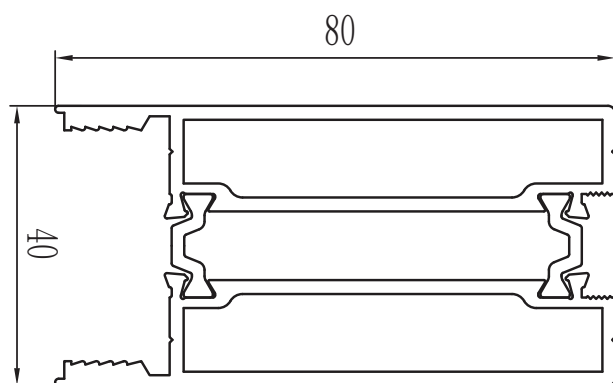
A.P. = 140 mm
P.P. = 100 mm



SD128
Head/Jamb Filler

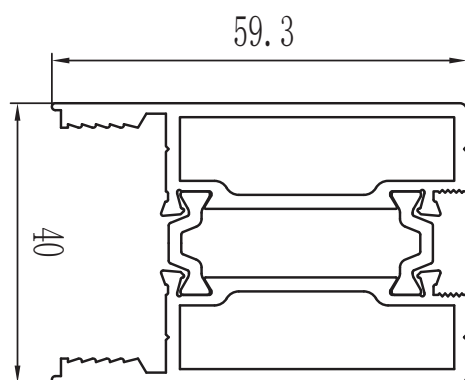
A.P. = 127 mm
P.P. = 100 mm

Panel Profiles



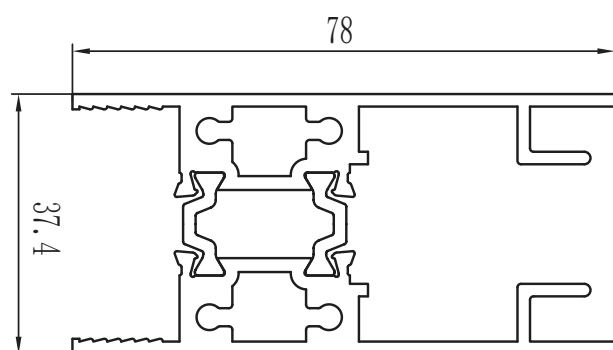
CGSD124 Stile

A.P. = 434 mm
P.P. = 200 mm



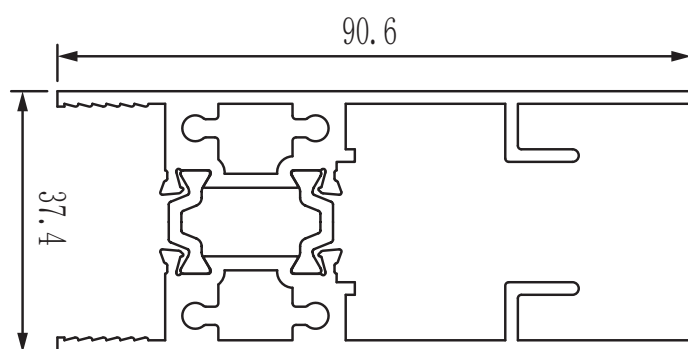
CGSD123 Small Stile

A.P. = 352 mm
P.P. = 200 mm



CGSD127 Rail

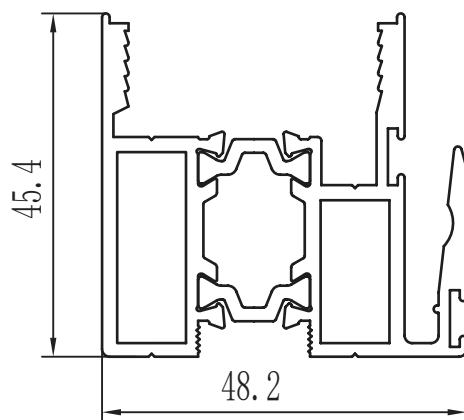
A.P. = 484 mm
P.P. = 200 mm



CGSD169 Flush Sill Rail (Suits SD408/SD608)

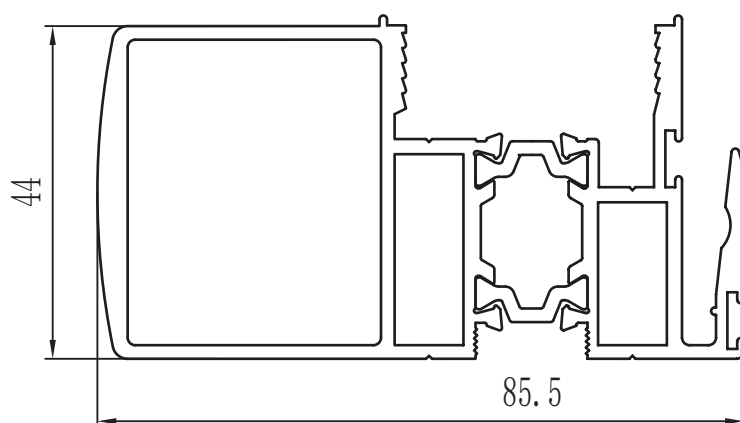
A.P. = 534 mm
P.P. = 200 mm

Panel Profiles



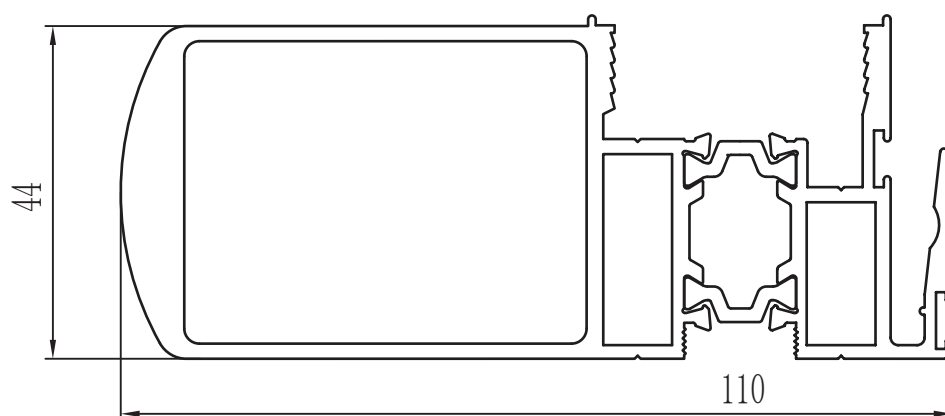
CGSD125 Interlock

A.P. = 394 mm
P.P. = 243 mm



CGSD151 Medium Box Interlock

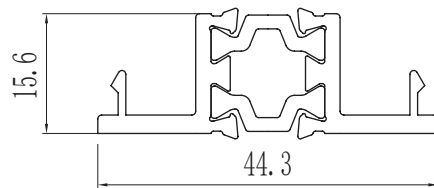
A.P. = 463 mm
P.P. = 269 mm



CGSD152 Large Box Interlock

A.P. = 506 mm
P.P. = 318 mm

Alternative Mainframe Profiles

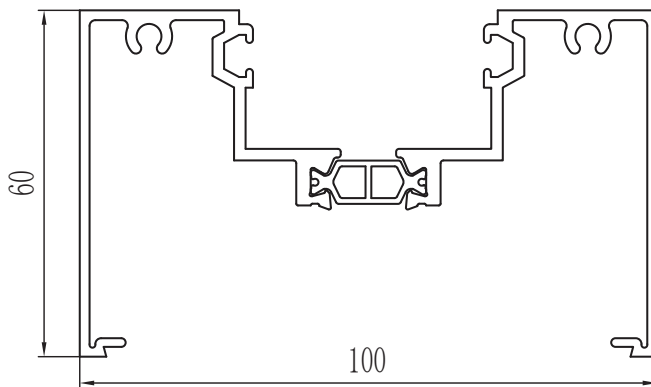


CGDG106

Flat filler (Fits CGDG101/
CGFG301)

A.P. = 117 mm

P.P. = 100 mm

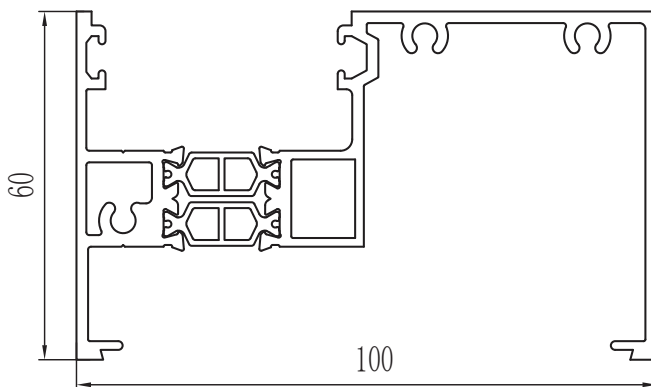


CGDG101

100 x 60mm Centre
Glazed Jamb

A.P. = 666 mm

P.P. = 200 mm

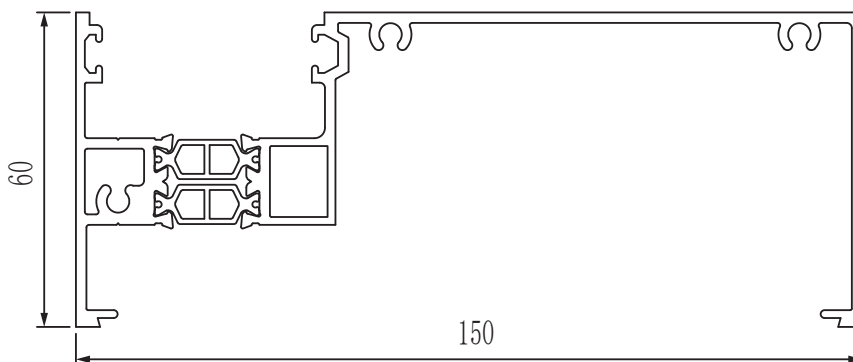


CGFG301

100 x 60mm Front Glazed
Jamb

A.P. = 623 mm

P.P. = 213 mm



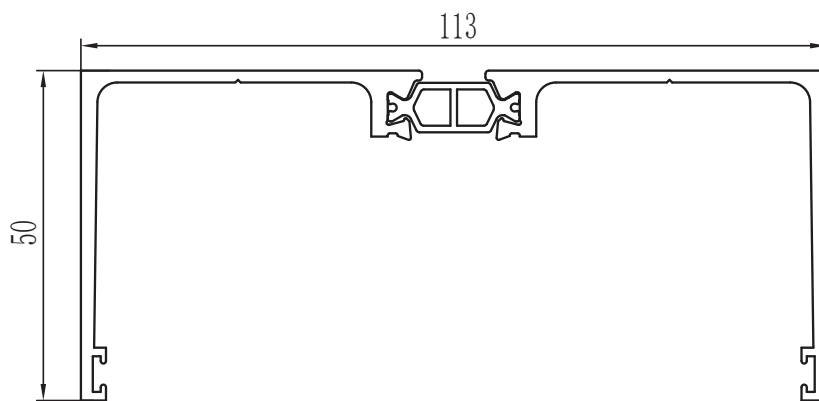
CGFG860

150 x 60mm Front Glazed
Jamb

A.P. = 723 mm

P.P. = 263 mm

Subframing Profiles

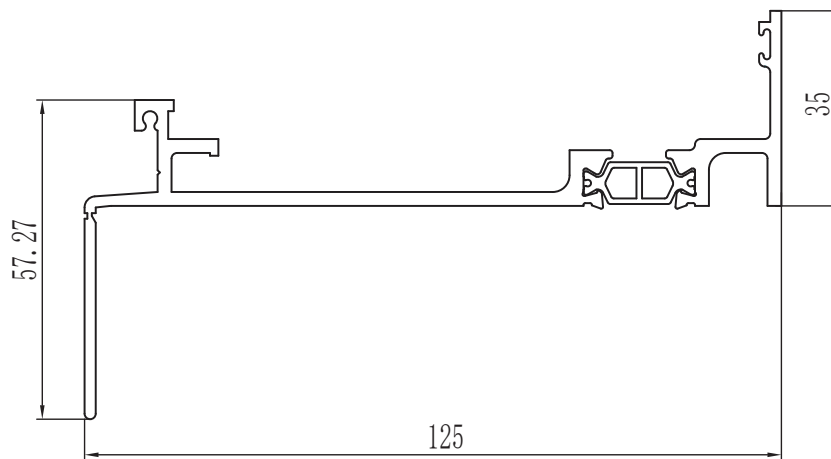


DTB101

100mm Thermal Subhead
50mm Tall

A.P. = 474 mm

P.P. = 210 mm

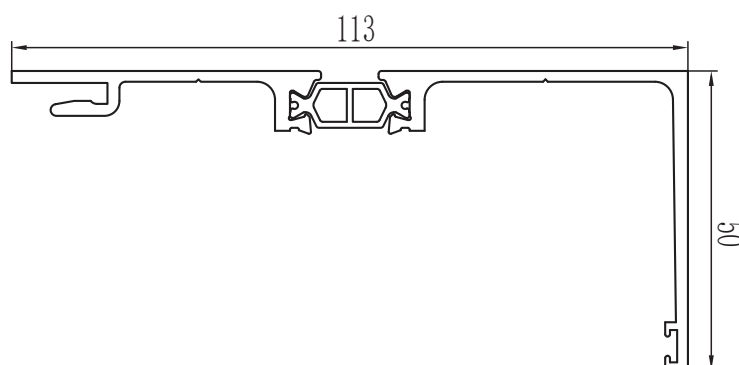


DTB102

100mm Subsill

A.P. = 506 mm

P.P. = 200 mm

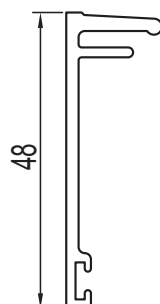


DTB103

100mm Thermal
Subhead / Subjamb
50mm Tall

A.P. = 396 mm

P.P. = 205 mm



TJ6159

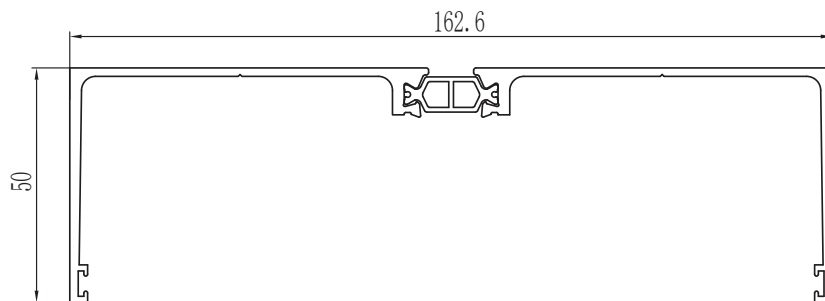
Sub Head / Jamb Cover
50mm Tall

(Covers can suit 100, 150, 165
framing, Thermal & non-
thermal)

A.P. = 155 mm

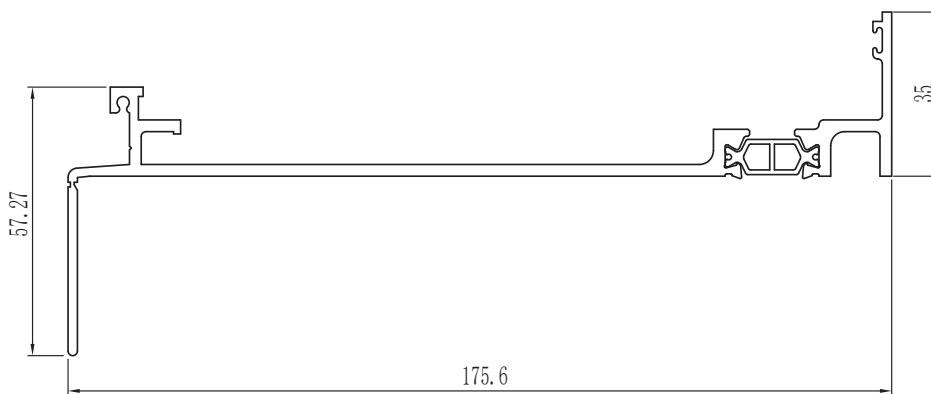
P.P. = 100 mm

Subframing Profiles



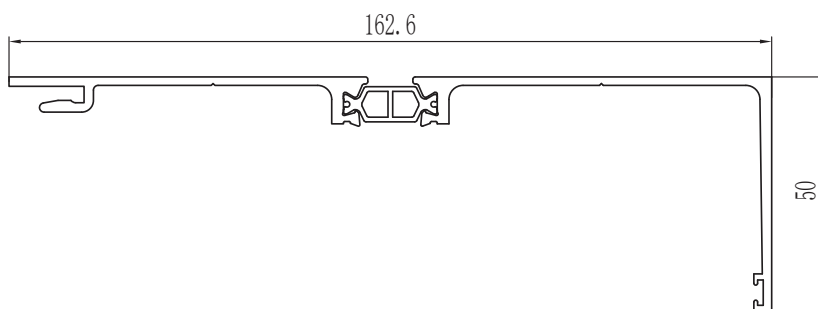
DTB151
 150mm Thermal Subhead
 50mm Tall

A.P. = 574 mm
 P.P. = 260 mm



DTB152
 100mm Subsill

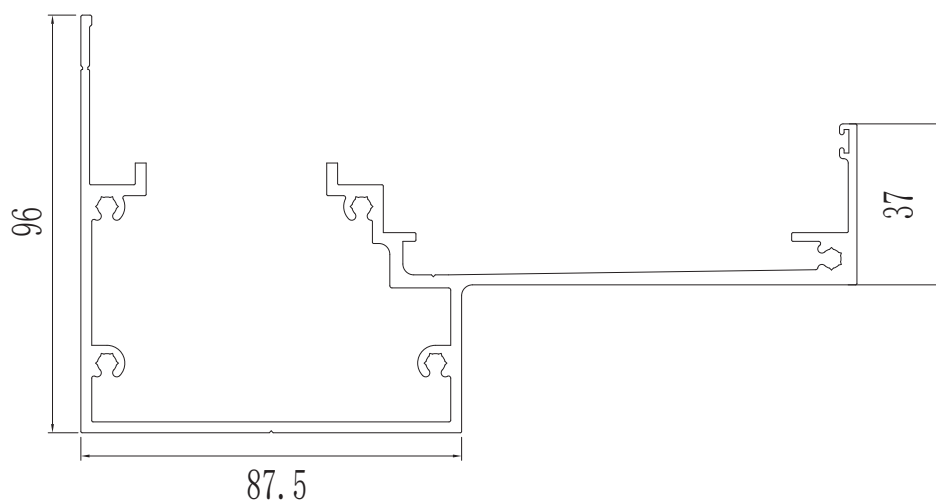
A.P. = 607 mm
 P.P. = 200 mm



DTB153
 150mm Thermal Sub
 Head/Jamb 50mm Tall

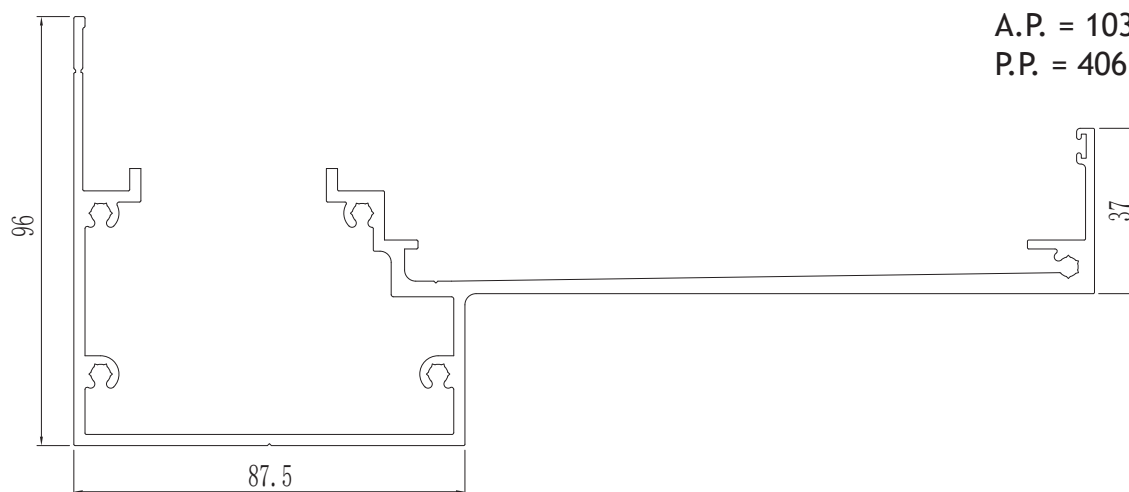
A.P. = 496 mm
 P.P. = 230 mm

Subframing Profiles



TJ400
Flush Transition Subsill

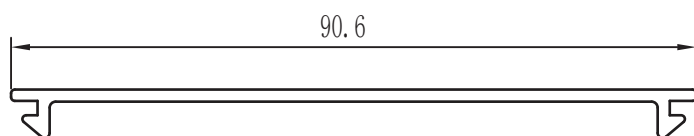
A.P. = 935 mm
P.P. = 357 mm



TJ600
150mm Flush Transition
Subsill

A.P. = 1034 mm
P.P. = 406 mm

Additional Profiles

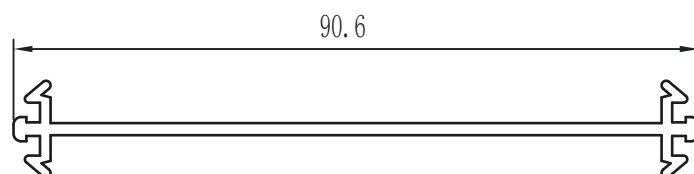


TJ305

100mm Non-Thermal
Frame Filler

A.P. = 206 mm

P.P. = 100 mm

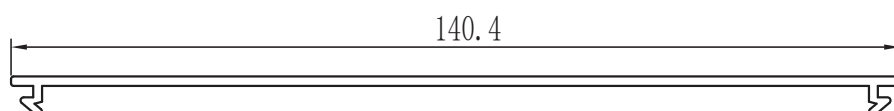


TJ385

100mm Non-Thermal Back
To Back Adaptor

A.P. = 247 mm

P.P. = - mm

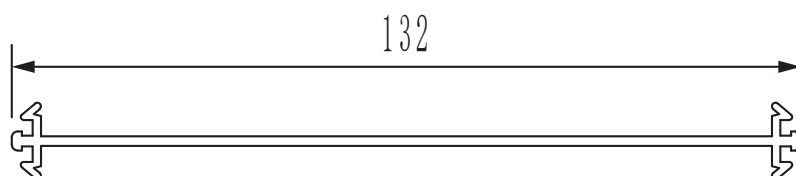


CGM684

150mm Non-Thermal
Frame Filler

A.P. = 309 mm

P.P. = 144 mm



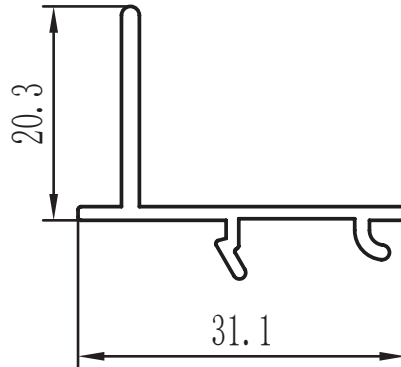
CGM685

150mm Non-Thermal Back
to Back Adaptor

A.P. = 345 mm

P.P. = - mm

Additional Profiles

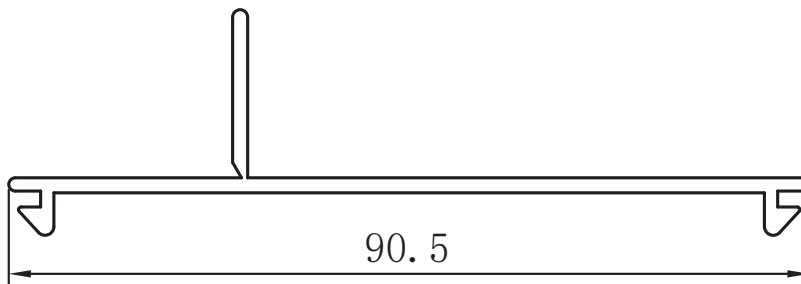


CGSD342

Reveal Adaptor (Fits
CGSD100/CGSD401)

A.P. = 123 mm

P.P. = 100 mm

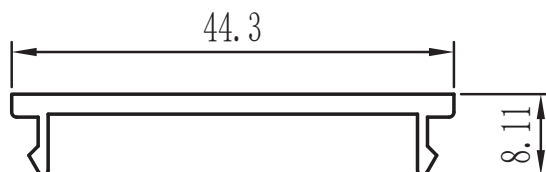


TJ342

Reveal Adaptor (Fits
CGFG301)

A.P. = 244 mm

P.P. = 130 mm



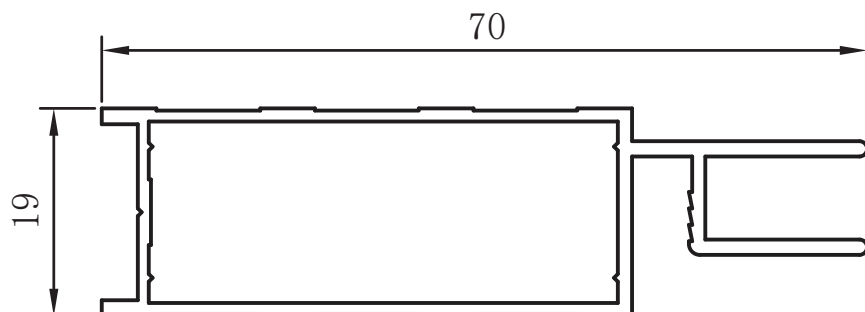
CGM106

Non-Thermal Pocket Filler

A.P. = 117 mm

P.P. = 100 mm

Flyoor Profiles

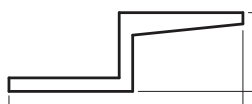


DF001 Fly Door Section

$$I_{xx} = 10.48 \times 10^3 \text{ mm}^4$$

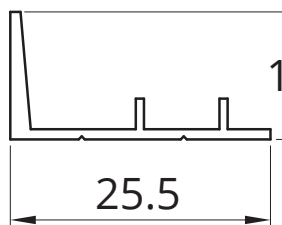
$$I_{yy} = 95.01 \times 10^3 \text{ mm}^4$$

A.P. = 235 mm
P.P. = 195 mm



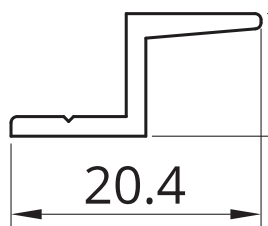
DI3224 7mm Fly Door Interlock

A.P. = 55 mm
P.P. = 55 mm



DI3225 Fly Door Interlock

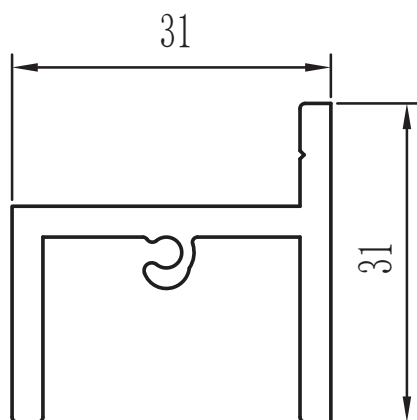
A.P. = 88 mm
P.P. = 100 mm



SD626 10mm Interlock

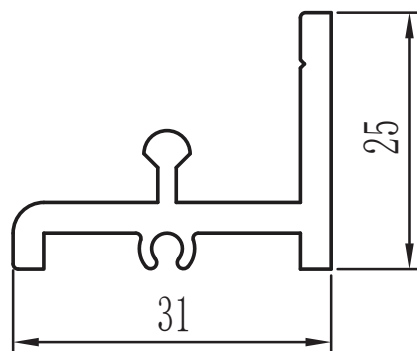
A.P. = 60 mm
P.P. = 60 mm

Fly Door Profiles



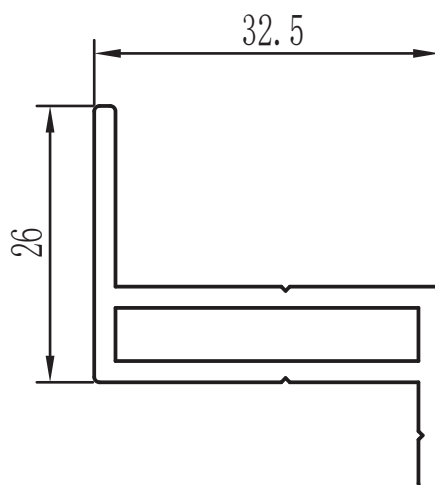
SD421
Single Rail Fly Door Frame
Head

A.P. = 174 mm
P.P. = 133 mm



SD422
Single Rail Fly Door Frame
Sill

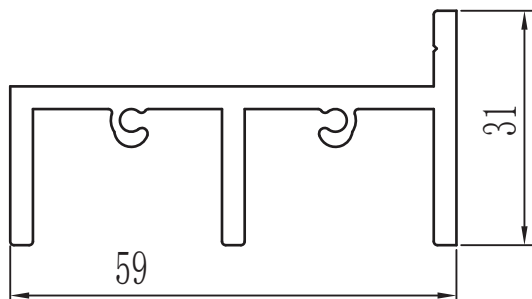
A.P. = 145 mm
P.P. = 100 mm



SD425
Single Rail Fly Door Frame
Jamb

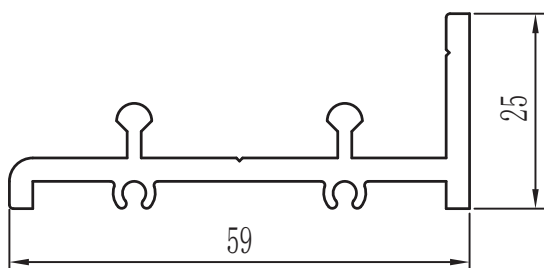
A.P. = 137 mm
P.P. = 137 mm

Fly Door Profiles



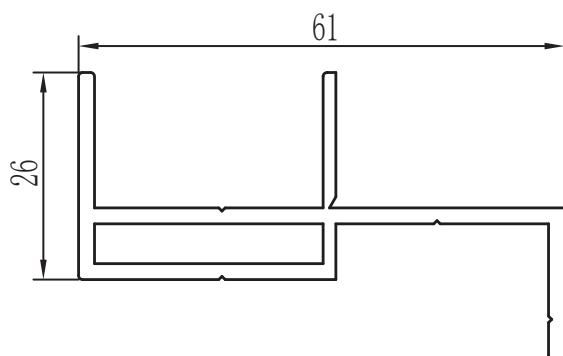
SD621
Double Rail Fly Door
Frame Head

A.P. = 280 mm
P.P. = 210 mm



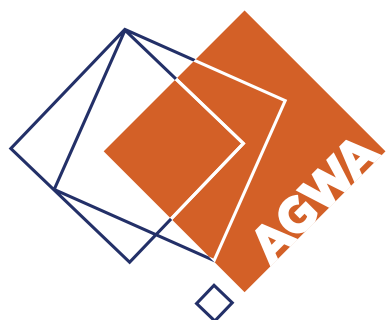
SD622
Double Raily Fly Door
Frame Sill

A.P. = 230 mm
P.P. = 143 mm



SD625
Double Rail Fly Door
Frame Jamb

A.P. = 243 mm
P.P. = 243 mm



AUSTRALIAN
**GLASS &
WINDOW**
ASSOCIATION
M E M B E R



Darley Aluminium

Darley Aluminium are long standing members of various industry associations including the Australian Glass & Window Association (AGWA) and the Window Energy Rating Scheme (WERS) and as such we conform to an Industry Code of Conduct designed to protect consumers.

Manufacturing Standards;

All aluminium extrusions supplied to by Darley Aluminium have been supplied in accordance with Australian Standard AS1866 – 'Aluminium and Aluminium alloy: Extruded rod, bar, solid and hollow shapes'. All Anodised and Painted Extrusions are as per AS1231 Aluminium and Aluminium Alloys – 'Anodic Oxidation Coatings' and AS3715 – 'Metal Finishing-Thermoset Powder Coatings for Architectural Applications of Aluminium and Aluminium Alloys'.

Product Testing and Compliance;

Darley Aluminium products are tested in NATA accredited independent laboratories to ensure they meet the relevant Australian Standards. Energy ratings can also be found on the Window Energy Rating Scheme (WERS) website: <https://agwa.imiscloud.com/WERS/>

[DARLEYALUMINIUM.COM.AU](https://darleyaluminium.com.au)

| ABN 14 076 364 657

NEW SOUTH WALES

8 Tyrone Place, Erskine Park NSW 2759
Tel: (02) 8887 2888
Fax: (02) 9834 3244
salesnsw@darleyaluminium.com.au

VICTORIA | SOUTH AUSTRALIA

10 Bridge Road, Keysborough VIC 3173
Tel: (03) 9238 3888
Fax: (03) 9768 7288
salesvic@darleyaluminium.com.au

WESTERN AUSTRALIA

36 Armstrong Road, Hope Valley WA 6165
Tel: (08) 9437 2999
Fax: (08) 9437 1024
saleswa@darleyaluminium.com.au

QUEENSLAND

29 Access Avenue, Yatala QLD 4207
Tel: (07) 3287 1888
Fax: (07) 3287 2088
saleqlld@darleyaluminium.com.au



Warranty

Darley Aluminium, Door & Framing extrusions are warranted for a period of 6 years as per AS2047 requirements, unless otherwise specified. Powder coat and anodised finished can be warranted for extended periods subject to application. Warranty is subject to the following conditions:

- ☐ The product is installed in accordance with the relevant Building Codes practices and maintained as per the recommended Care & Maintenance.
- ☐ The product has not been subject to misuse, physical abuse or neglect.
- ☐ Claims under this warranty should be made within one month of defect arising in the product.
- ☐ A documented maintenance schedule is required to obtain extended warranty.

Care & Maintenance

- ☐ A gentle wash with a soft non-abrasive brush or cloth using a mild detergent followed by a fresh water rinse will maintain the long term performance of the powder coat or anodised finish.
- ☐ If paint splashes, sealants or other residue need to be removed, then methylated spirits or white spirits can be applied with a soft cloth and gentle wiping only.
- ☐ In rural or normal urban environments, cleaning should occur at least every 12 months.
- ☐ In areas of pollution, industrial or coastal areas back one kilometre from the water, cleaning should occur at least every 3 months.
- ☐ In hazardous locations such as beachfronts, severe marine environments or areas of high industrial pollution, the frequency of cleaning should be increased to monthly.
- ☐ Special maintenance may be required in some extended warranty applications.

Tracks Keep tracks free from obstruction and excessive dirt or water.

Guides and Spindles To be greased with good quality automotive grease every 6 months.

Rollers As per manufacturer's instructions.

Hinges, Hangers & Flush Bolts Visible surfaces should be cleaned using a damp cloth and mild detergent, then wiped dry. Apply a light application of non-corrosive preventative lubricant to all surfaces and internals, using a dry cloth to remove excess. Repeat at intervals no greater than 3 months.

Seals and PVC Product An occasional wipe with a damp cloth or a wash with warm soapy water is all that is required.

Glass Simply wipe over the surface with a few drops of methylated spirits on a damp cloth, then polish the surface with a dry, lint-free, non-abrasive cloth.

Ver 3: August 2023

DARLEYALUMINIUM.COM.AU

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salesnsw@darleyaluminium.com.au

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1. Technical Manual Release Notes

Fabrication

[illegible]