CityView™
Commercial Systems

150mm Front Single Glazed

TECHNICAL MANUAL

SLS - 2000Pa
ULS - 2200Pa

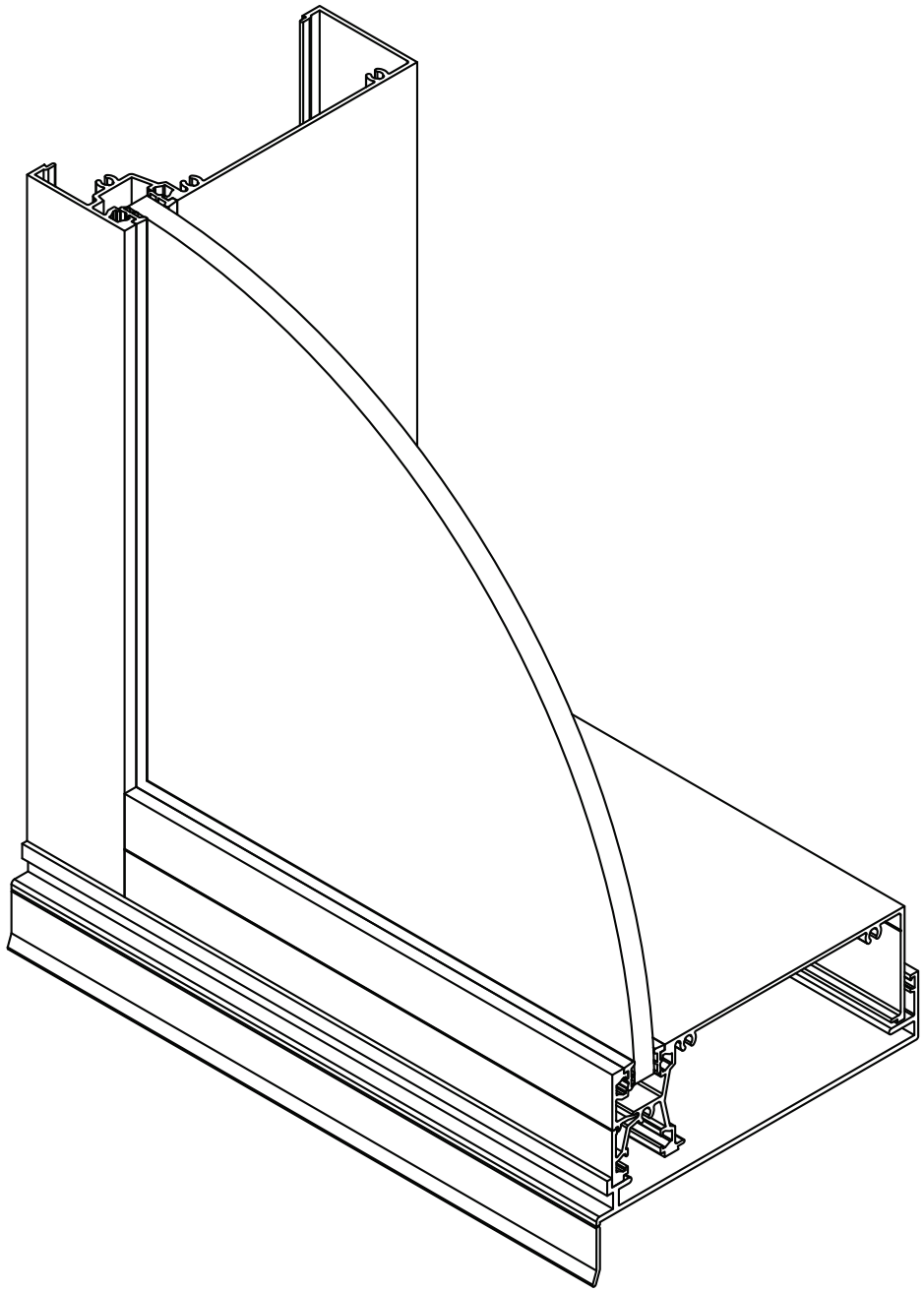
Air - 0.49L
Water - 800Pa

Acoustic - Rw 38
Estimate 10.5mm Hush

Fire Rating Tested
- DTS

Single Glazed

U VALUE	4.36 to 6.35
SHGC	0.28 to 0.72
TVW	0.17 to 0.76



53mm
76mm
100mm
150mm
165mm
200mm
250mm

Max
12.38mm

Subsill
Draining

Transom
Draining

JUN 2026 | VERSION1

DARLEY ALUMINIUM

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 Occasionally, some errors or outdated information may require rectification - Darley Aluminium takes no responsibility for any loss or damage as a result of these errors.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).
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.

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.

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Contents

Welcome

Overview

Darley's 150mm x 50mm Front Single Glazed Framing System is the ideal choice for modern architectural requirements, meeting current design trends as well as performance specifications. The system is ideally suited for shopping centres, offices, show-rooms and commercial buildings. It is also widely used in high end residential developments and apartments. Framing options include hinged and sliding door combinations and can be incorporated in a variety of awnings / casements. With the use of reducers, glazing range can be from 6mm to 28mm.
All Darley framing systems are available in powder coated and anodised finishes.
(Refer to Darley Aluminium Product Catalogue for further information.)

Design Features

- Accepts glass thickness from 6mm to 12.38mm.
- Compatible with other Darley Aluminium Commercial Systems
- Self draining transom
- Accepts a variety of awning sash options (refer to Awning Section)
- Accepts a variety of hinged and sliding door systems
- Range of sub-head and sub-sill options
- Range of heavy duty mullion options for tall framing and high-wind areas
- Tested and Approved by an independent NATA accredited laboratory

Performance Summary

150 x 50mm Front Single Glazed Framing							
MaxTested Panel Size	**SLS**	**ULS**	**Water**	**Air Infiltration**	**Acoustic**	**BAL**	**Glass**
3000 x 1400mm	3268Pa	3900Pa	1200Pa	NIL	Est.38Rw*	DTS	12.38mm

*Estimated based on 101.6 x 45mm centre glazed frame

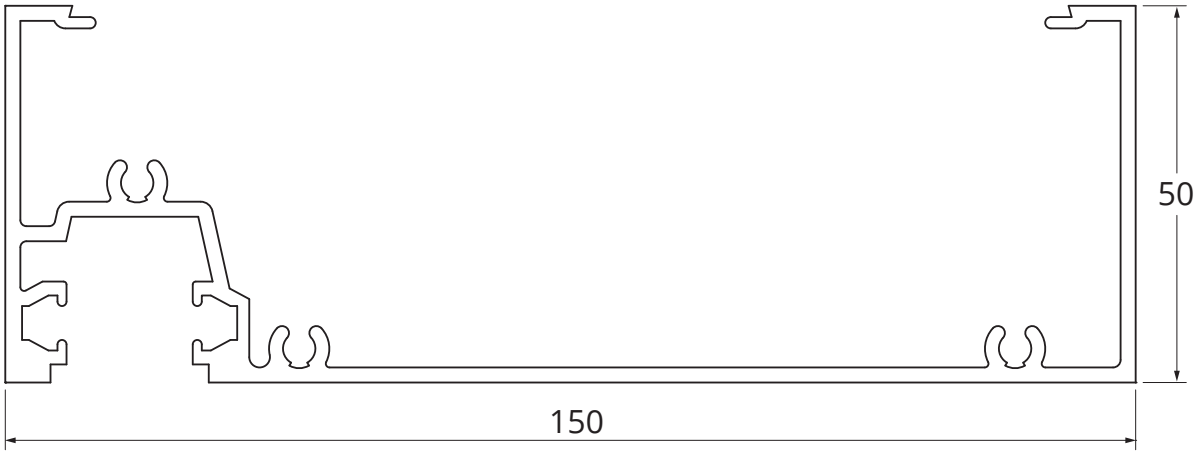
See Performance Section for more detail.
Size limitations are governed by design intent, glass selection and local wind load and deflection requirements. For further technical assistance and fabricator selection contact Darley Aluminium. An Engineer should be consulted to ensure selected framing meets the requirements as set out in the relevant Australian Standards

System Requirements

- Engineering, manufacture and installation of frames must meet requirements of:
  - AS2047-2014 (Windows and External Glazed Doors in Buildings)
- Glazing selected must meet requirements of AS1288:2021 (Glass in Buildings - Selection and Installation)

Mainframe Profiles

Scale 1:1

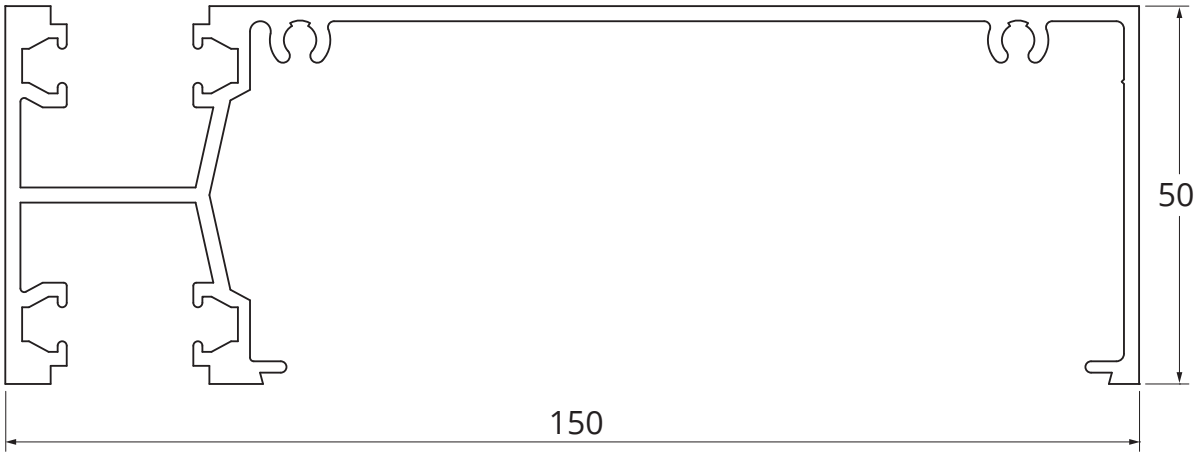


FGS601

Frame/Head/Jamb

I_{xx} = 172.4 x 10^3 mm^4
I_{yy} = 2274.2 x 10^3 mm^4

A.P. = 688 mm
P.P. = 247 mm



FGS604

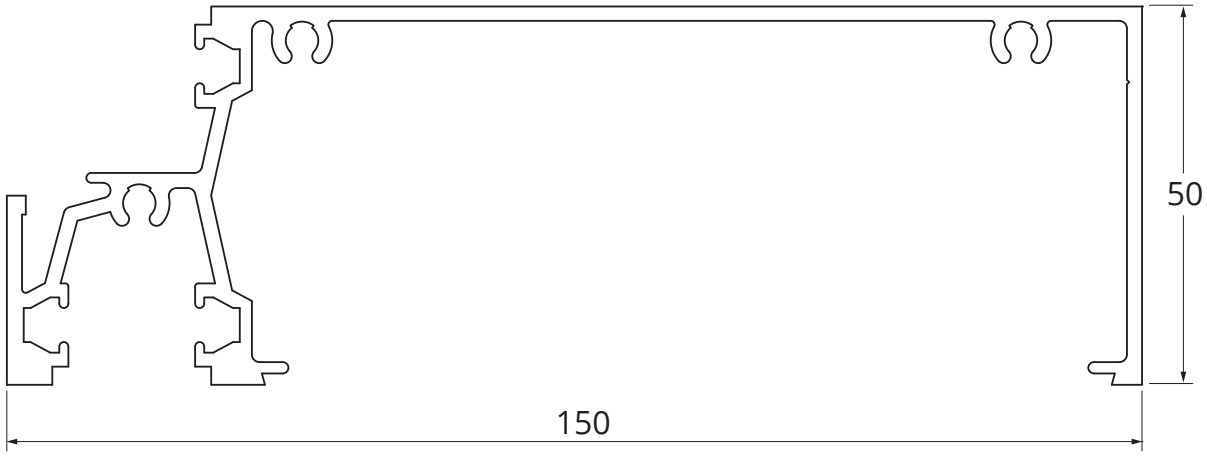
Mullion/Jamb/Head

I_{xx} = 234.8 x 10^3 mm^4
I_{yy} = 2336.6 x 10^3 mm^4

A.P. = 743 mm
P.P. = 246 mm

Mainframe Profiles

Scale 1:1

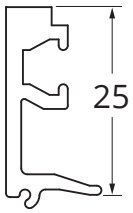


FGS602

Transom / Sill (Fits FGS403)

I_{xx} = 225.5 x 10^3 mm^4
I_{yy} = 2059.8 x 10^3 mm^4

A.P. = 697 mm
P.P. = 213 mm



FGS403

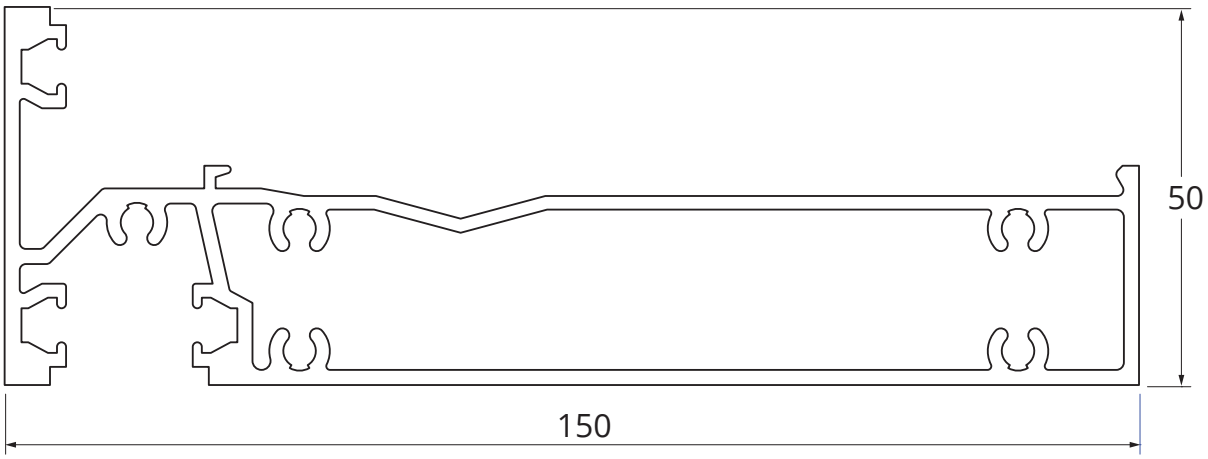
External Bead (Fits FGS602)

I_{xx} = 7.9 x 10^3 mm^4
I_{yy} = 0.9 x 10^3 mm^4

A.P. = 107 mm
P.P. = 35 mm

Mainframe Profiles

Scale 1:1

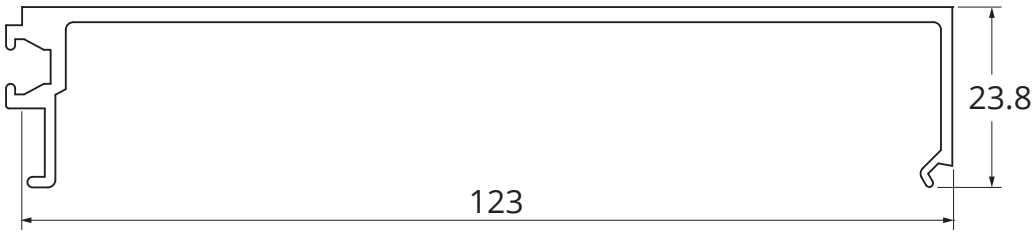


FGS632

Transom / Sill (Fits FGS610)

I_{xx} = 156.03 x 10^3 mm^4
I_{yy} = 2475.09 x 10^3 mm^4

A.P. = 561 mm
P.P. = 214 mm



FGS610

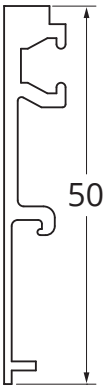
Internal Bead (Fits FGS632)

I_{xx} = 11.9 x 10^3 mm^4
I_{yy} = 663.4 x 10^3 mm^4

A.P. = 361 mm
P.P. = 149 mm

Mainframe Profiles

Scale 1:1

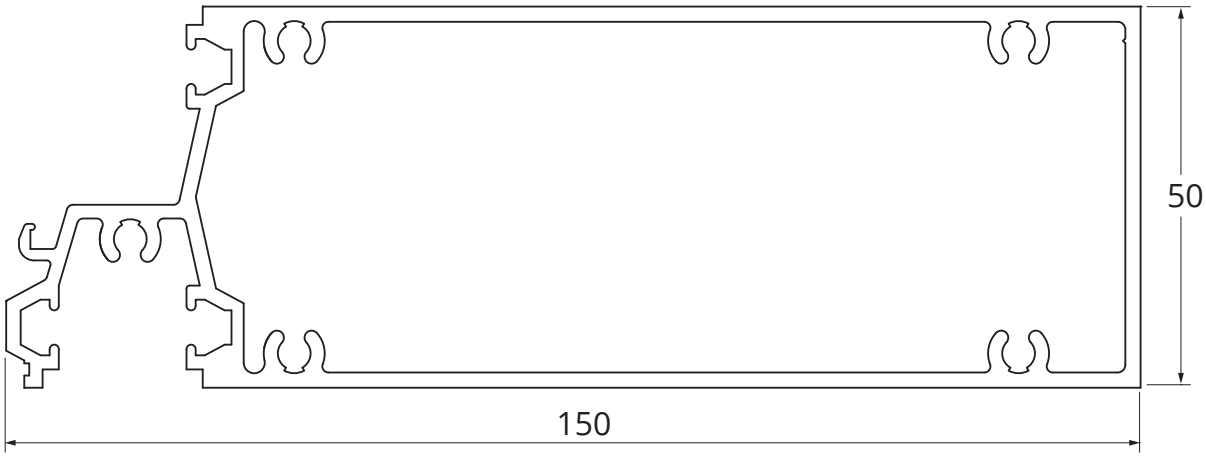


FGS412

Face Bead (Fits FGS611)

I_{xx} = 0.6 x 10^3 mm^4
I_{yy} = 26.3 x 10^3 mm^4

A.P. = 151 mm
P.P. = 60 mm



FGS611

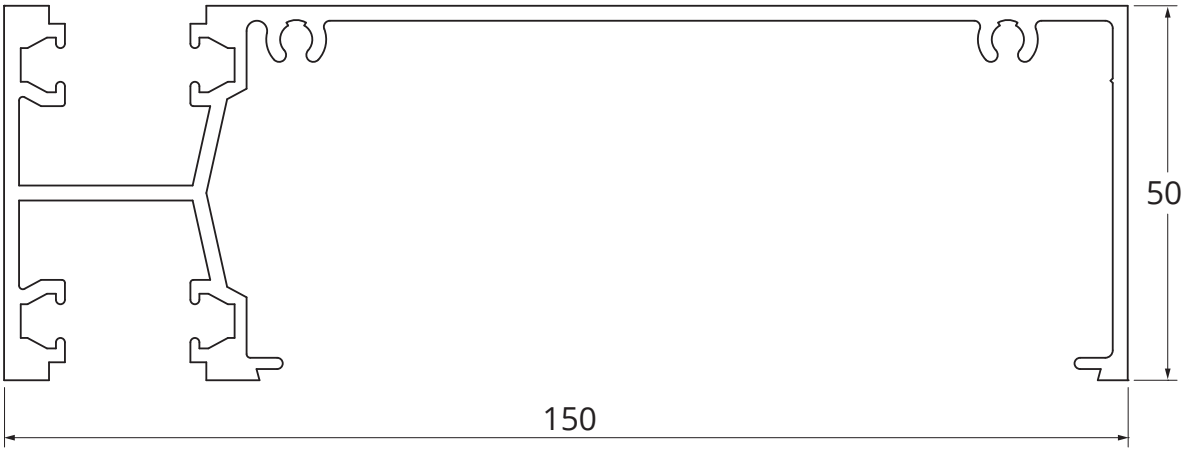
Transom (Fits FGS412)

I_{xx} = 384.9 x 10^3 mm^4
I_{yy} = 22528.5 x 10^3 mm^4

A.P. = 518 mm
P.P. = 301 mm

Mainframe Profiles

Scale 1:1

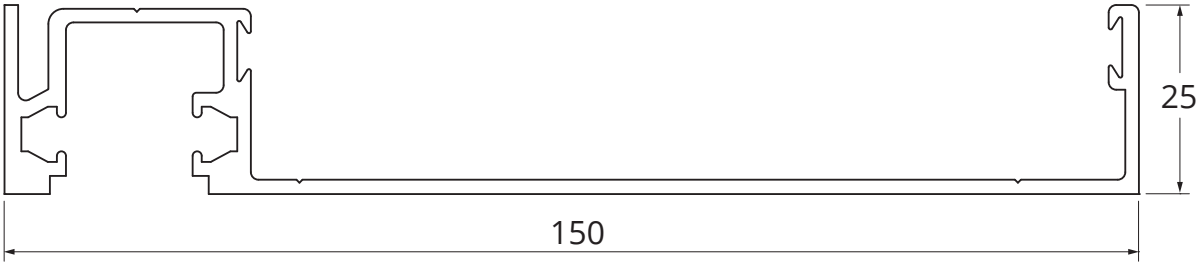


FGS604

Mullion/Jamb/Head

I_{xx} = 234.8 x 10^3 mm^4
I_{yy} = 2336.6 x 10^3 mm^4

A.P. = 743 mm
P.P. = 246 mm



FGS627

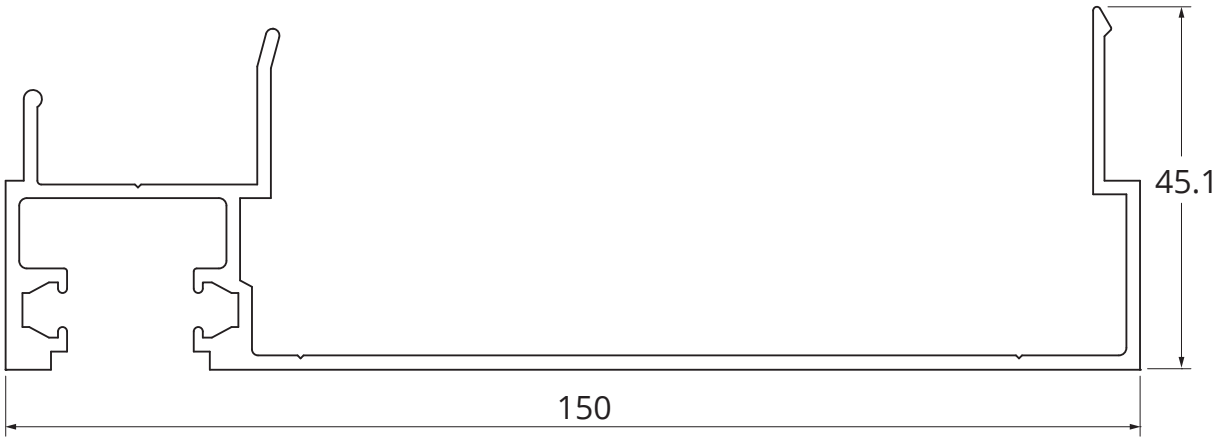
Female Split Mullion
(Fits With FGS628)

I_{xx} = 37.8 x 10^3 mm^4
I_{yy} = 1412.8 x 10^3 mm^4

A.P. = 518 mm
P.P. = 185` mm

Mainframe Profiles

Scale 1:1

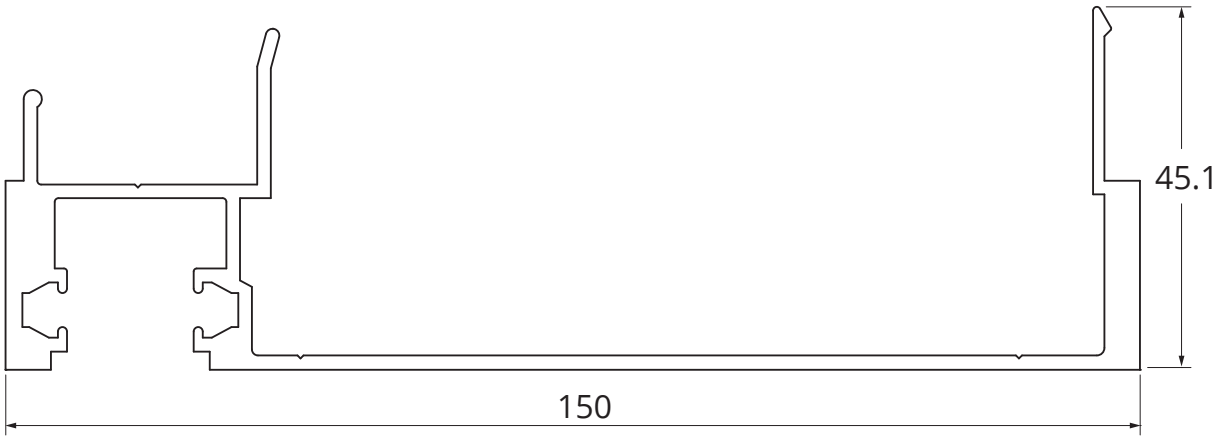


FGS628

Male Split Mullion

I_{xx} = 99.121 x 10^3 mm^4
I_{yy} = 1690.94 x 10^3 mm^4

A.P. = 616 mm
P.P. = 220 mm



FGS629

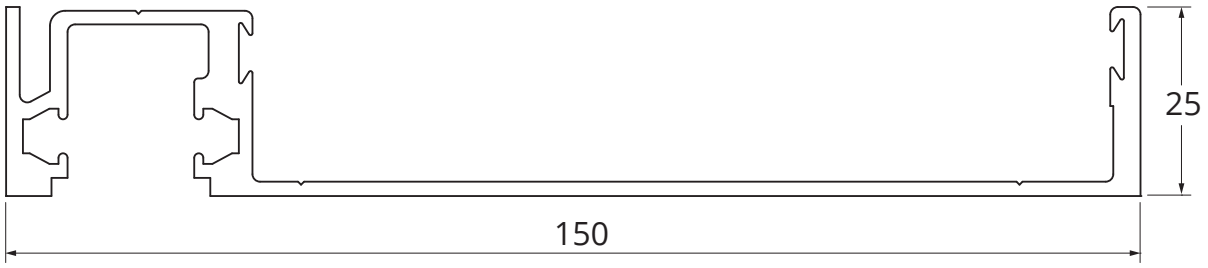
Heavy Duty Male Split Mullion

I_{xx} = 103.19 x 10^3 mm^4
I_{yy} = 2262.26 x 10^3 mm^4

A.P. = 602 mm
P.P. = 220 mm

Mainframe Profiles

Scale 1:1



FGS630

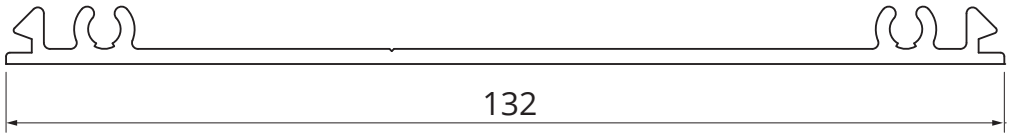
Heavy Duty Female Split Mullion

I_{xx} = 40.343 x 10^3 mm^4
I_{yy} = 1602.995 x 10^3 mm^4

A.P. = 510 mm
P.P. = 185 mm

Miscellaneous Profiles

Scale 1:1

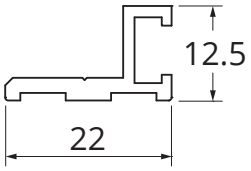


JM2865

Filler

I_{xx} = 2.06 x 10^3 mm^4
I_{yy} = 603 x 10^3 mm^4

A.P. = 334 mm
P.P. = 132 mm

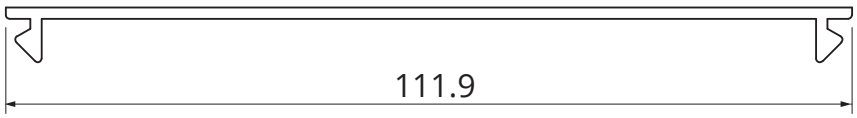


JM2809

Plant-On Door Stop

I_{xx} = 0.74 x 10^3 mm^4
I_{yy} = 3.2 x 10^3 mm^4

A.P. = 87 mm
P.P. = 87 mm



FGS605

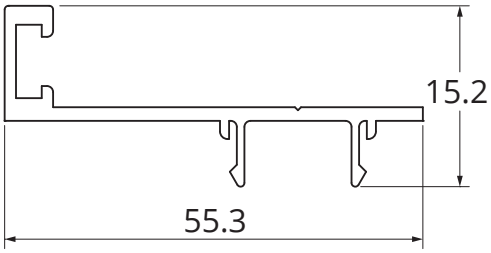
Flat Filler

I_{xx} = 0.35 x 10^3 mm^4
I_{yy} = 242.87 x 10^3 mm^4

A.P. = 252 mm
P.P. = 112 mm

Miscellaneous Profiles

Scale 1:1



FGS407

45mm Door Stop

I_{xx} = 4.3 x 10^3 mm^4
I_{yy} = 53.3 x 10^3 mm^4

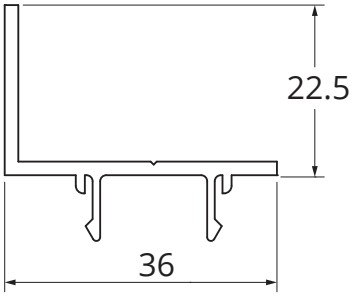
A.P. = 199 mm
P.P. = 101 mm

FGS406

Pocket Filler

I_{xx} = 0.3 x 10^3 mm^4
I_{yy} = 2.3 x 10^3 mm^4

A.P. = 74 mm
P.P. = 27 mm



FGS416

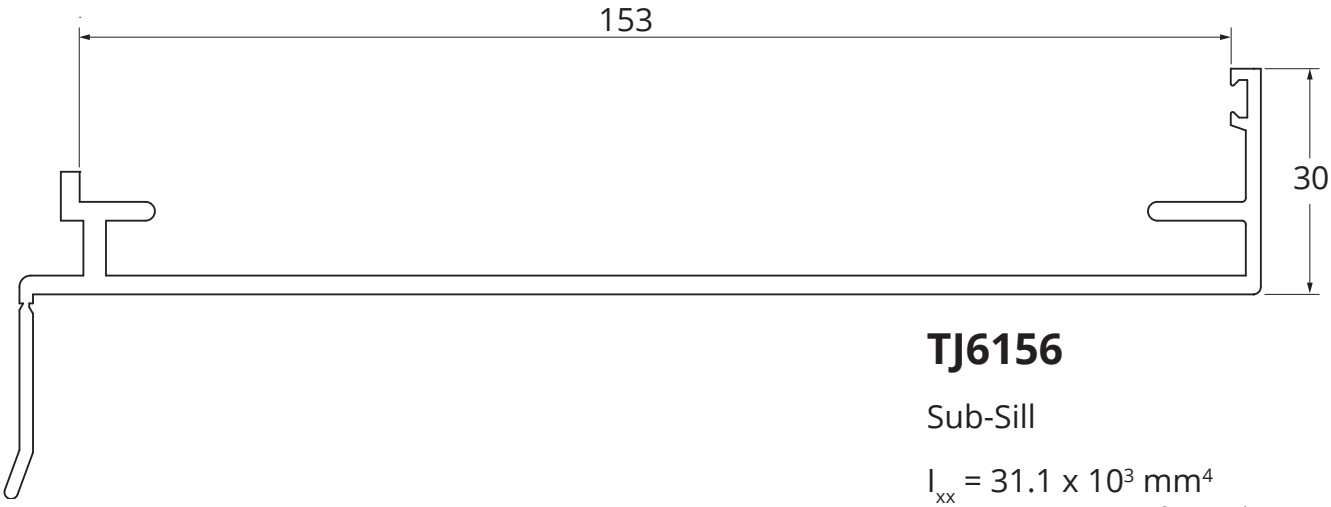
Awning Stop

I_{xx} = 6.1 x 10^3 mm^4
I_{yy} = 26.3 x 10^3 mm^4

A.P. = 151 mm
P.P. = 60 mm

Subframing Profiles

Scale 1:1

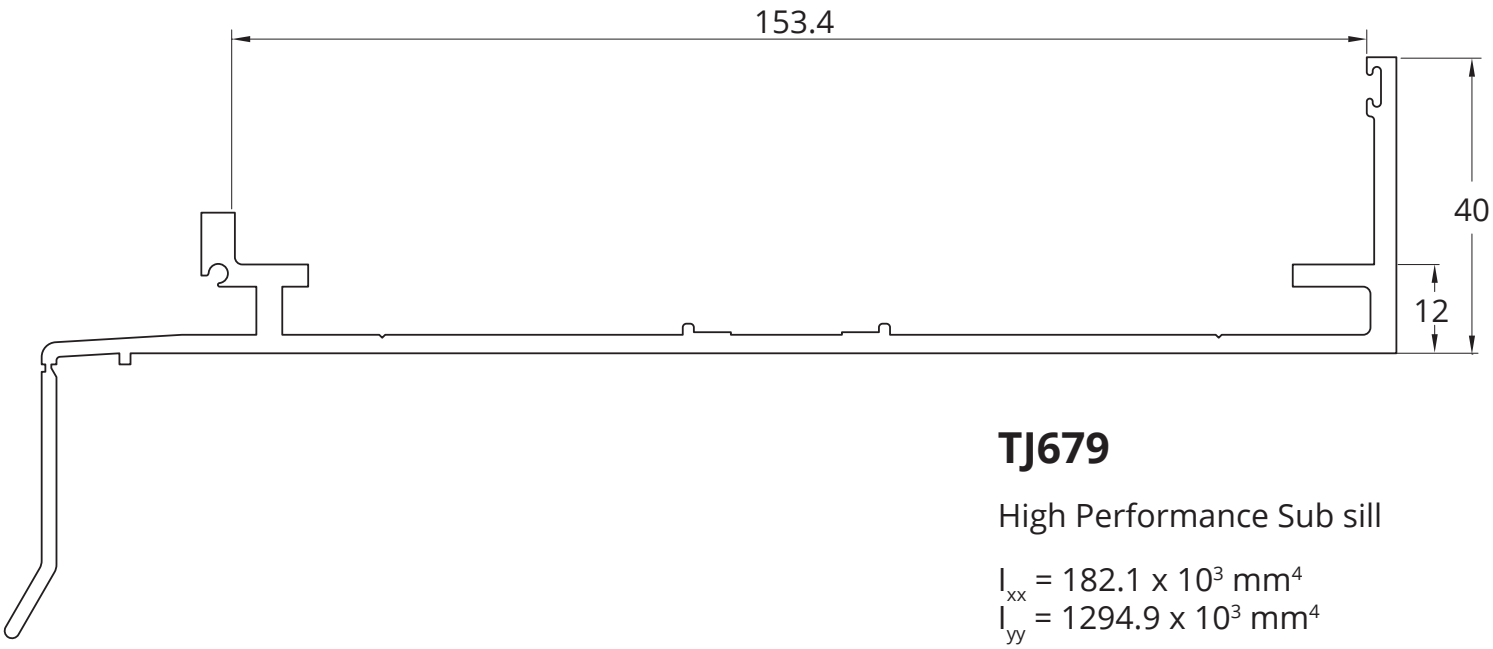


TJ6156

Sub-Sill

I_{xx} = 31.1 x 10^3 mm^4
I_{yy} = 2110.1 x 10^3 mm^4

A.P. = 524 mm
P.P. = 100 mm



TJ679

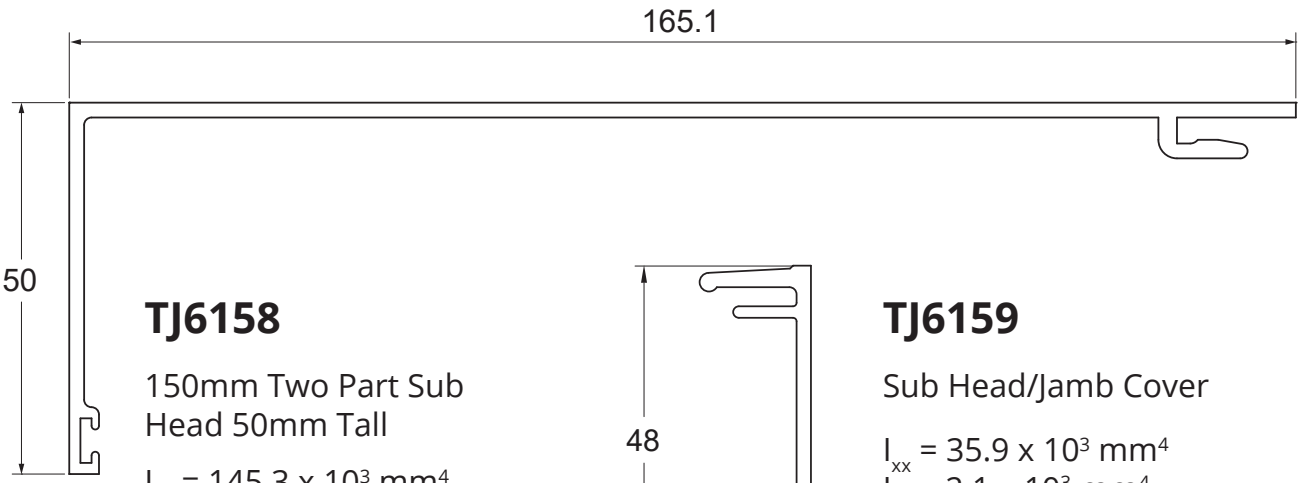
High Performance Sub sill

I_{xx} = 182.1 x 10^3 mm^4
I_{yy} = 1294.9 x 10^3 mm^4

A.P. = 529 mm
P.P. = 274 mm

Subframing Profiles

Scale 1:1

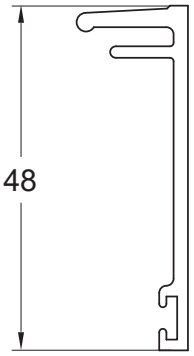


TJ6158

150mm Two Part Sub Head 50mm Tall

I_{xx} = 145.3 x 10^3 mm^4
I_{yy} = 2677 x 10^3 mm^4

A.P. = 471 mm
P.P. = _ mm

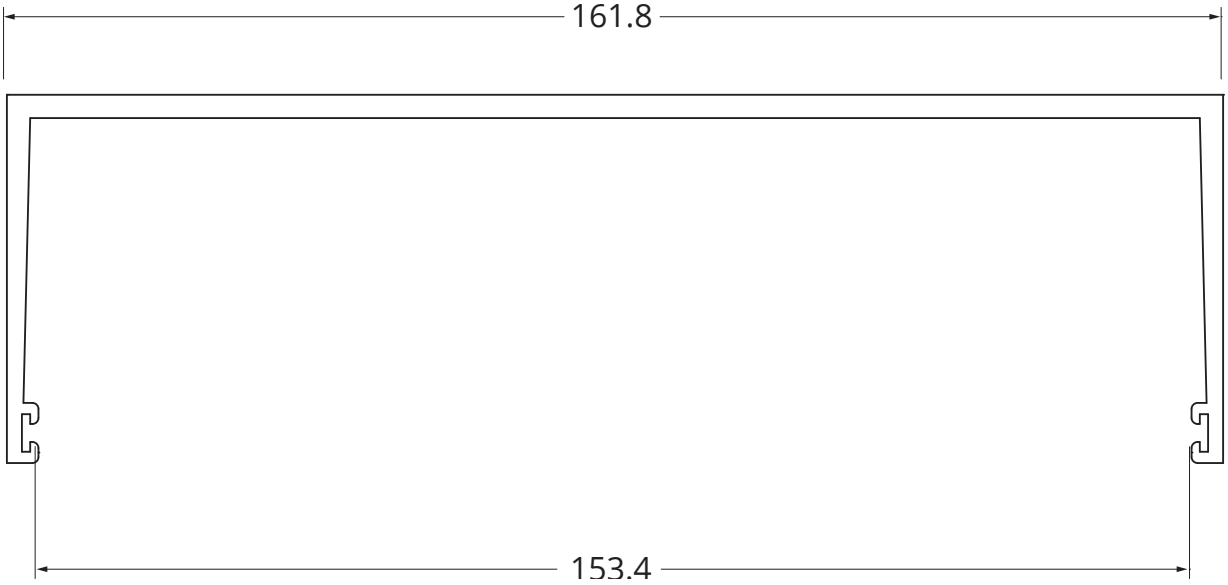


TJ6159

Sub Head/Jamb Cover

I_{xx} = 35.9 x 10^3 mm^4
I_{yy} = 2.1 x 10^3 mm^4

A.P. = 155 mm
P.P. = 100 mm



TJ6157

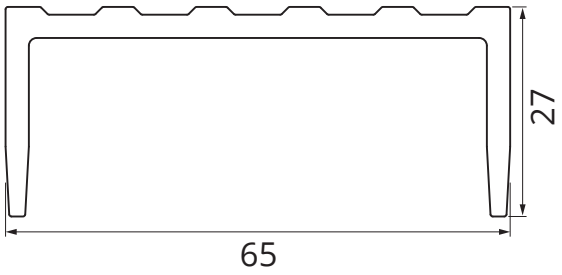
150mm Sub Head 49mm Tall

I_{xx} = 145.4x 10^3 mm^4
I_{yy} = 2677.4 x 10^3 mm^4

A.P. = 536 mm
P.P. = _ mm

Subframing Profiles

Scale 1:1

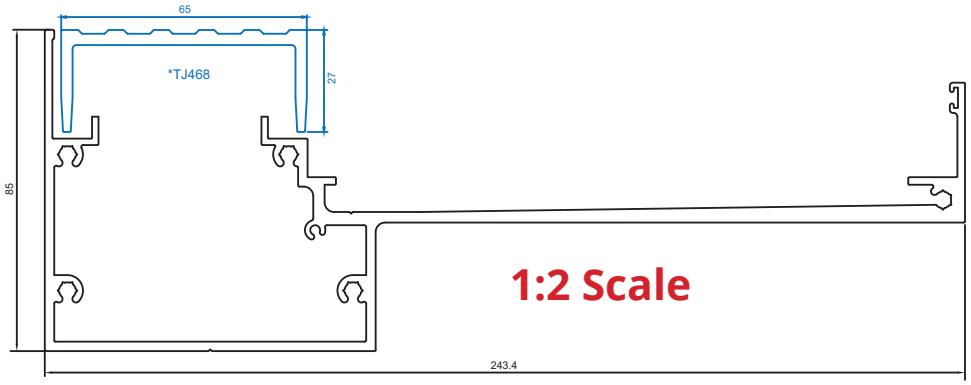


TJ468

Drainage Gate (Fits TJ400 & TJ600)

I_{xx} = 21.32 x 10^3 mm^4
I_{yy} = 214.23 x 10^3 mm^4

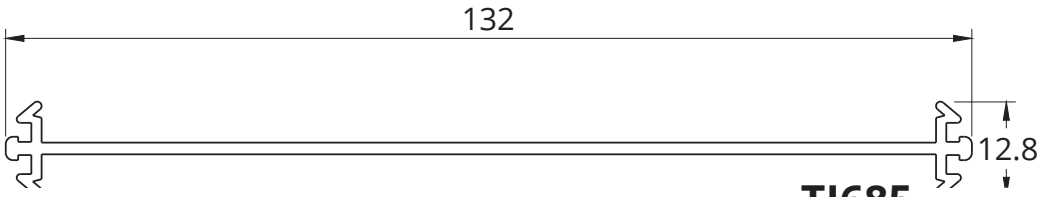
A.P. = 232 mm
P.P. = 150 mm



TJ650

150mm Sump Sill

A.P. = 1054 mm
P.P. = 409 mm



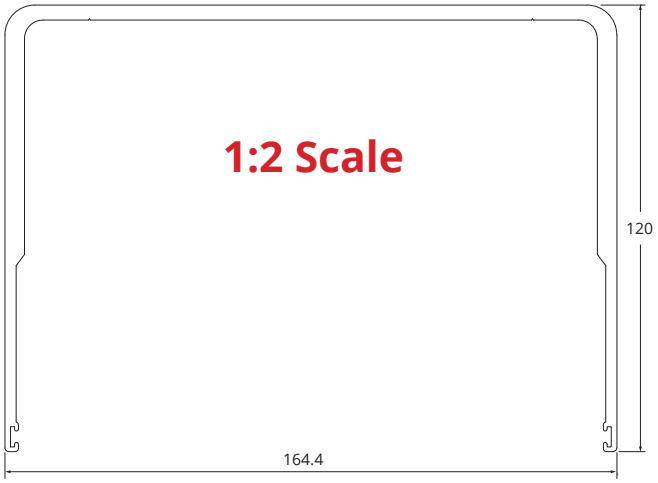
TJ685

Back-to-Back Adaptor (For 150 & 152.4mm Frame)

I_{xx} = 0.670 x 10^3 mm^4
I_{yy} = 482.034 x 10^3 mm^4

A.P. = 330 mm
P.P. = - mm

Subframe Profiles

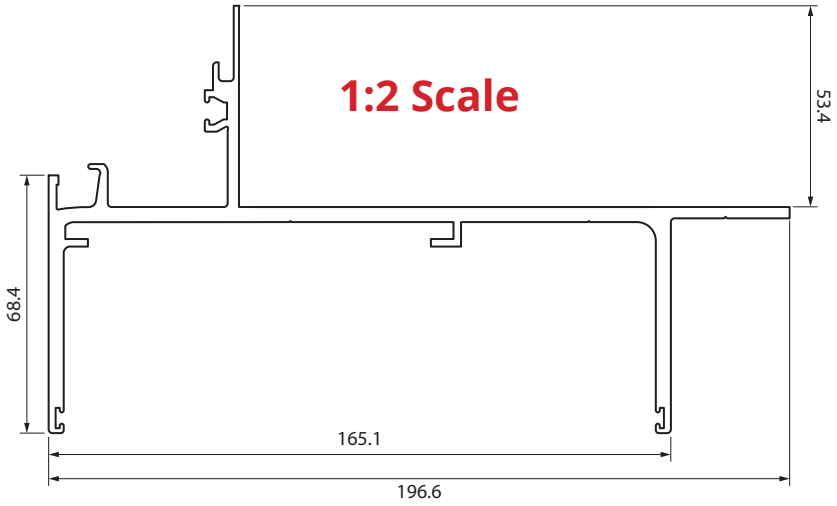


TJ6155

150mm Sub Head 120mm Deep

I_{xx} = 2019.12 x 10^3 mm^4
I_{yy} = 7606.43 x 10^3 mm^4

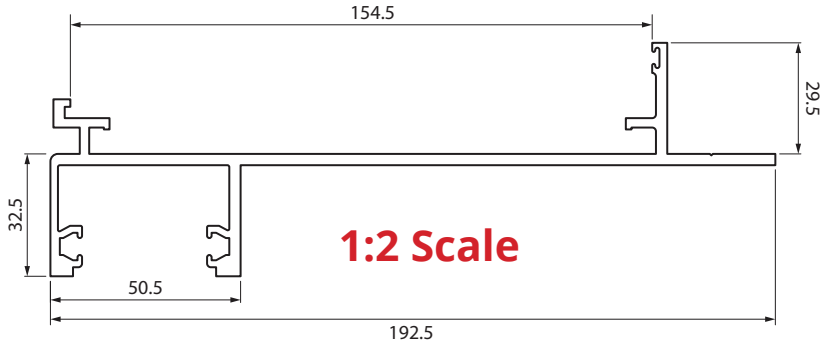
A.P. = 804 mm
P.P. = 246 mm



DGF6563

150mm DG Spandrel Sub Head 60mm Tall

A.P. = 860 mm
P.P. = 208 mm

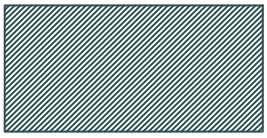


DGF6562

150mm Front DG Spandrel Subsill

A.P. = 704 mm
P.P. = 145 mm

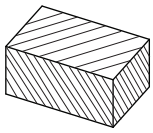
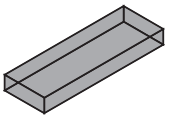
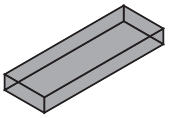
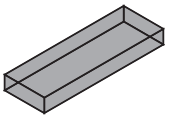
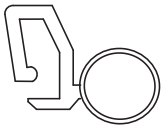
Small Parts

	Code	Description	U.O.M	BOX QTY.
	1475	Foam Seal - 1120 Pieces Roll Suits 150mm Front Glazed Single	Roll	1
	1493	Foam Plug Suits: Centre Single Glazed Framing (20 Per Sheet)	Roll	1
	1494	Foam Plug Suits: Front Single Glazed Framing (16 Per Sheet)	Roll	1
	1610-M100	6mm Door Stop - 100m	Roll	1
	1611	Weatherstrip 90-900 Black - 150m Roll	Roll	1
	1614	Door Stop Rubber - Large 200m	Roll	1
	1615	Glazing Wedge PVC - 200m Roll	Roll	1
	1620	Glazing Wedge PVC - 200m Roll	Roll	1
	1625	Glazing Wedge PVC for 8.38mm Glass - 250m Roll	Roll	1
	1630	Glazing Wedge PVC - 200m Roll	Roll	1
	1645	Glazing Wedge Captive Co-Extruded Santoprene - 100m Roll	Roll	N/A

Small Parts

	Code	Description	U.O.M	BOX QTY.
	1646	Glazing Wedge Captive Co-Extruded Santoprene - 100m Roll	Roll	N/A
	1647	Glazing Wedge Captive Co-Extruded Santoprene - 100m Roll	Roll	N/A
	1660	V Seal (Mullion Rubber) - 500m Roll	Roll	1
	1900-M	Frame Packers - 1.5mm X 90mm - Blue 100/Bag	Bag	N/A
	1901-M	Frame Packers - 3mm X 90mm - Green 100/Bag	Bag	N/A
	1902-M	Frame Packers - 5mm X 90mm - Ochre 100/Bag	Bag	N/A
	1903-M	Frame Packers - 10mm X 90mm - Black 100/Bag	Bag	N/A
	1906	Aluminium Frame Packers 1mm - 100/Bag	Bag	N/A
	1907	Aluminium Frame Packers 2mm - 100/Bag	Bag	N/A
	1908	Aluminium Frame Packers 5mm - 100/Bag	Bag	N/A
	1909	Aluminium Frame Packers 10mm - 100/Bag	Bag	N/A

Small Parts

	Code	Description	U.O.M	BOX QTY.
	1912	Setting Blocks 10mm Thick - Bag of 500	Bag	N/A
	1977	Setting Blocks 5mm X 25mm - 3m Self Adhesive - Bag of 200	Bag	N/A
	1978	Setting Blocks 10mm X 25mm - 3m Self Adhesive - Bag of 200	Bag	N/A
	1979	Setting Blocks 3mm X 10mm X 25mm - 3m Double Sided Tape - Bag of 200	Bag	N/A
	1608	Co-Expansion Seal - 2.7m	Roll	N/A
	1960	Lanotec General Purpose Liquid Lanolin 400g	Tube	12
	1961	Lanotec "Citra Force" Cleaner Degreaser 400g	Tube	12
	BDX-CV-CS-G/H/AW	CSG Frame / Hinged / Hook Awning Hydraulic Tool		

Test Results

PERFORMANCE							
System	Test Size	Panel Size	Ser	Water	Ult	Report	Glass
150mm Front Glazed Light Duty Mullion	3062 x 4258	3000 x 1400	1900	1000	3250	AZT0272.24	8mm T
150mm Front Glazed Heavy Duty Mullion	2400 x 2400	2400 x 1200	3268	1200	3900	AZT0176.08	10mm T

ACOUSTIC PERFORMANCE				
System	Rw	C : Ctr	Report	Glass
CityView 150 FSG	38	-	Estimate based on 4858-2	10.5 Hush

BAL FIRE RATING			
System	BAL	Report	Glass
CityView 150 FSG	BAL-40	DTS	6mm Toughened

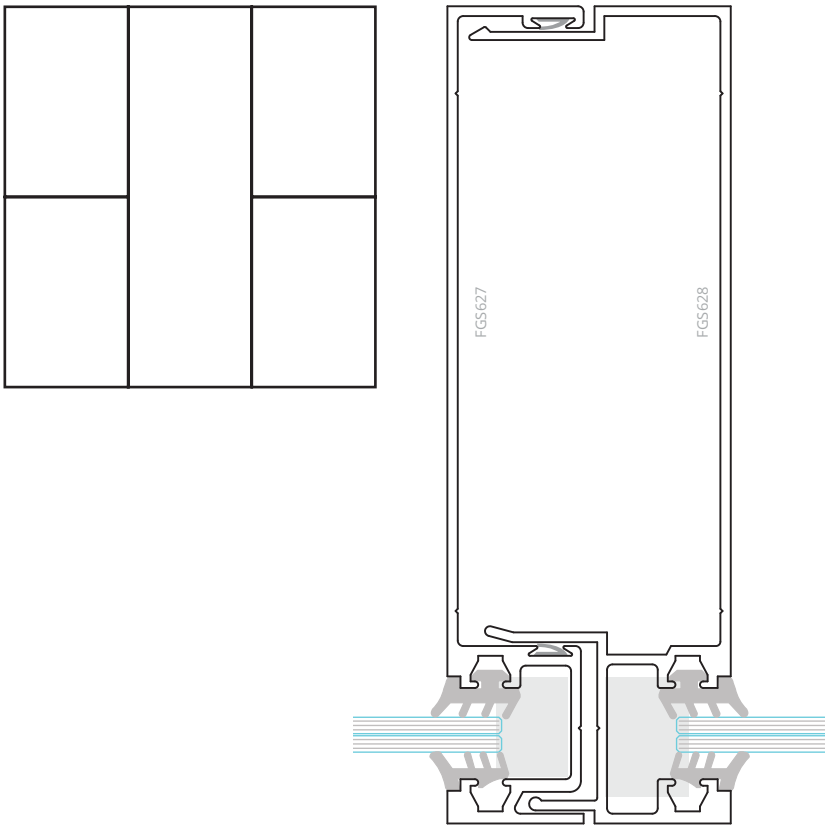
TESTED BY NEUTRAL THIRD PARTIES

See Performance Section for more detail.
Taller maximums may be achievable via strength charts
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

Structural Test Report: 150mm Front Single Glazed

The following data was obtained from the results of the tests on the 150mm Centre (CSG) only as performed in the Azuma Testing Laboratory (NATA Accredited).

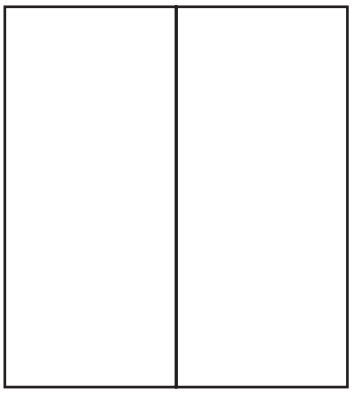


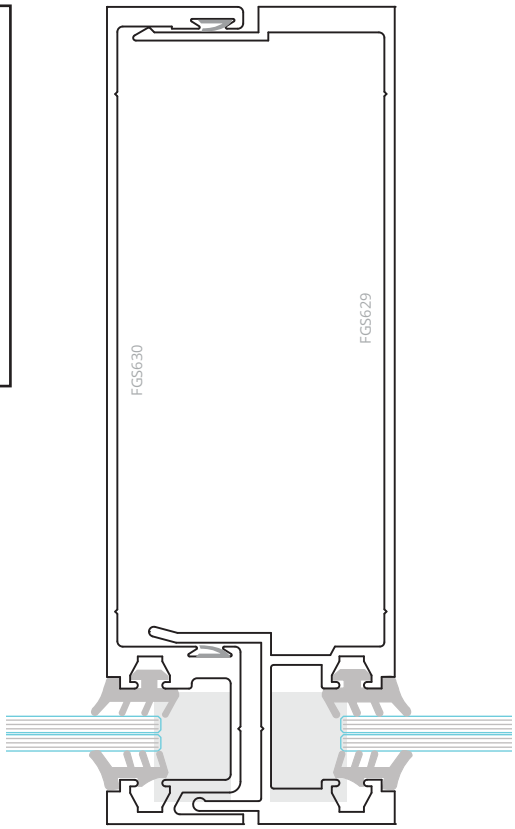
Test & Date	AZT0272.24, 18/06/2024
Test Size	3062mm H x 4258mm W
Mullion	FGS627, FGS628, TJ6156
Serviceability Load	+2000 Pa, - 1900 Pa
Air Infiltration	Low
Water Penetration	1000 Pa
Ultimate Strength	+/- 3250 Pa

Performance

Structural Test Report: 150mm Front Single Glazed

The following data was obtained from the results of the tests on the 150mm Centre (CSG) only as performed in the Azuma Testing Laboratory (NATA Accredited).





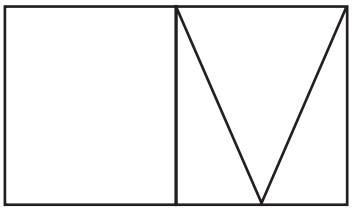
Test & Date	AZT0176.08, 13/11/2008
Test Size	2400mm H x 2400mm W
Mullion	FGS629, FGS630, TJ6156
Serviceability Load	+/- 3268 Pa
Air Infiltration	Low
Water Penetration	1200 Pa
Ultimate Strength	+/- 3900 Pa

Acoustic Test Report Estimate

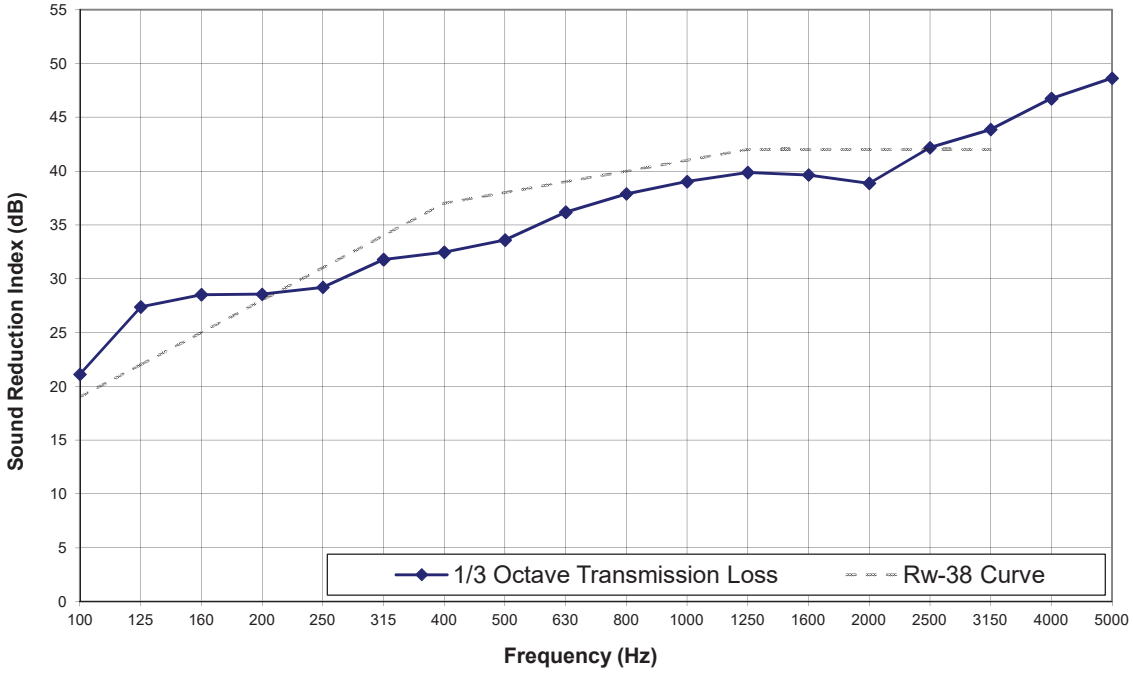
LABORATORY TEST ESTIMATE: CityView 150mm Centre Style Glazed

Tested Rw value of 38 based on testing of 100mm Centre Glazed; see results below

Test Report No. : 4858-2	
Test Date	15/12/2012
Glass Type	10.5mm Hush
Acoustic Rating Rw(C;Ctr)	38 (-1;-4)dB



Frequency - Hz	Sound Reduction Index - dB	
	1/3 Octave	1/1 Octave
100	21.1	
125	27.4	24.4
160	28.5	
200	28.6	
250	29.2	29.6
315	31.8	
400	32.5	
500	33.6	33.8
630	36.2	
800	37.9	
1000	39.0	38.8
1250	39.9	
1600	39.6	
2000	38.9	40.0
2500	42.2	
3150	43.9	
4000	46.7	46.0
5000	48.6	
R_w ($C;C_{tr}$)	38 (-1 ; -4)	

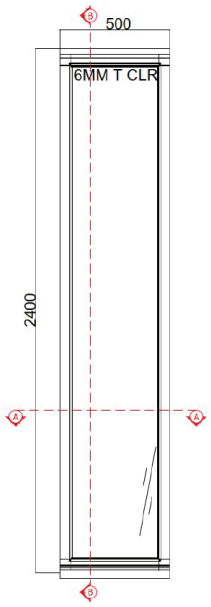


Acoustic

BAL Compliance

Bushfire attack levels

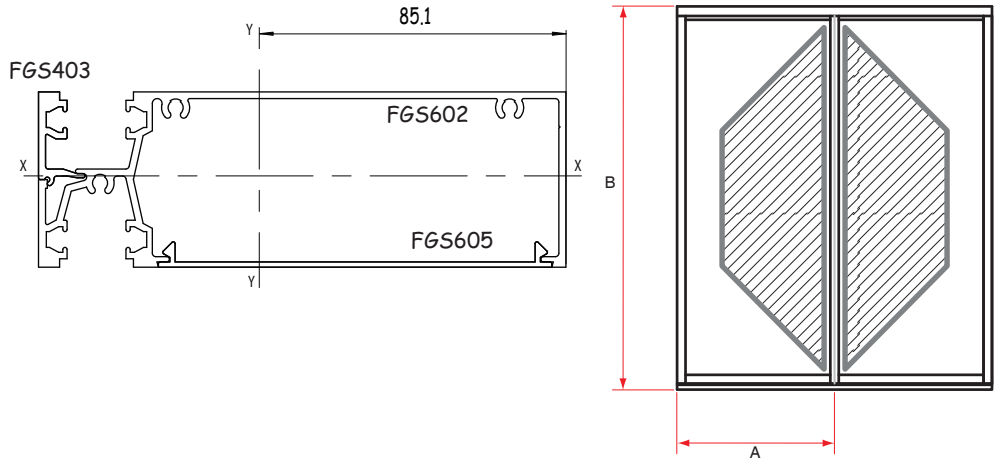
Similar system tested to AS1530.8.1 2018 - BAL 40
Test covers BAL requirements below BAL-40.
Alternatively refer to DTS criteria below for alternative compliance method



Test Standard: Clauses 14 and 16 of AS 1530.8.1:2018
Test Sponsor: Darley Aluminium Trading Pty Ltd
Product: Darley CityView Combination Window System
Bushfire Attack Level (BAL) Exposure: 40 kW/m^2
Crib Class: AA
Job Number: FRT210417
Test Date: 10 March 2022 **Revision:** R1.0

	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/m$_3$ 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/m$_3$ 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 4mm.	Low-level glazing must be Grade A safety glass with a minimum thickness of 5mm. 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 5mm. Low-level glazing must be protected by an external screen (see screen requirements).	All glazing must be toughened glass with a minimum thickness of 6mm. All glazing must be protected by an external screen (see screen requirements).
SCREENS	Openable portions of windows 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/m$_3$.	Openable portions of windows 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/m$_3$. Where annealed glass is used, it must be protected by an external screen.	Openable portions of windows 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 windows 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. 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.

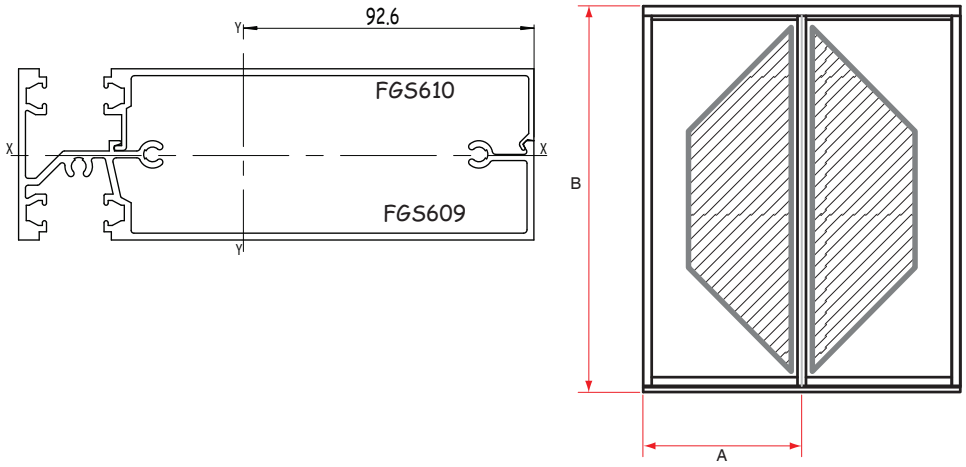
Transom Strength Chart: FGS602 + FGS403 + FGS605



Darley 150x50 Front Glazed	Deflection Ratio's Serviceability =1/150		Serviceability =1/180		Serviceability =1/250		Ultimate = U	Limitations: Serviceability to 5000 Pa & Ultimate to 8000 Pa		Extrusions: FGS602 + FGS403 + FGS605	
	Glazing Width either side of the mullion in mm (A)										
Window Height (mm) (B)	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
2200	4290	3861	3524	3254	3035	2856	2709	2588	2490	2410	2346
	4290	3861	3524	3254	3035	2856	2709	2588	2490	2410	2346
	4290	3861	3524	3254	3035	2856	2709	2588	2490	2410	2346
	6436	5791	5285	4881	4553	4284	4064	3883	3734	3614	3520
2400	3579	3214	2926	2695	2506	2351	2221	2113	2023	1947	1885
	3579	3214	2926	2695	2506	2351	2221	2113	2023	1947	1885
	3579	3214	2926	2695	2506	2351	2221	2113	2023	1947	1885
	5368	4821	4389	4043	3759	3526	3332	3170	3034	2921	2828
2600	3032	2719	2471	2271	2107	1971	1857	1762	1680	1611	1553
	3032	2719	2471	2271	2107	1971	1857	1762	1680	1611	1553
	3032	2719	2471	2271	2107	1971	1857	1762	1680	1611	1553
	4548	4078	3706	3407	3161	2957	2786	2642	2520	2417	2330
2800	2603	2331	2115	1941	1798	1679	1578	1493	1421	1358	1305
	2603	2331	2115	1941	1798	1679	1578	1493	1421	1358	1305
	2603	2331	2115	1941	1798	1679	1578	1493	1421	1358	1305
	3904	3496	3173	2912	2697	2518	2367	2240	2131	2038	1958
3000	2259	2021	1832	1679	1553	1448	1359	1283	1218	1162	1114
	2259	2021	1832	1679	1553	1448	1359	1283	1218	1162	1114
	2259	2021	1832	1679	1553	1448	1359	1283	1218	1162	1114
	3389	3032	2748	2519	2330	2172	2038	1925	1827	1743	1671
3200	1980	1770	1603	1468	1356	1262	1183	1116	1057	1007	963
	1980	1770	1603	1468	1356	1262	1183	1116	1057	1007	963
	1910	1709	1550	1421	1315	1226	1151	1087	1032	985	943
	2970	2655	2404	2201	2034	1894	1775	1673	1586	1510	1445
3400	1749	1563	1414	1294	1194	1111	1040	979	927	882	842
	1749	1563	1414	1294	1194	1111	1040	979	927	882	842
	1588	1420	1286	1178	1089	1014	951	897	850	810	775
	2624	2344	2122	1941	1792	1666	1560	1469	1390	1322	1263
3600	1557	1390	1258	1150	1060	985	922	867	820	779	743
	1557	1390	1258	1150	1060	985	922	867	820	779	743
	1334	1192	1080	988	912	849	795	749	709	674	644
	2336	2086	1886	1725	1591	1478	1383	1301	1230	1168	1114
3800	1395	1245	1126	1028	948	880	823	773	730	693	660
	1395	1245	1126	1028	948	880	823	773	730	693	660
	1132	1011	915	837	772	718	672	632	598	568	542
	2093	1868	1689	1543	1422	1320	1234	1160	1096	1040	991

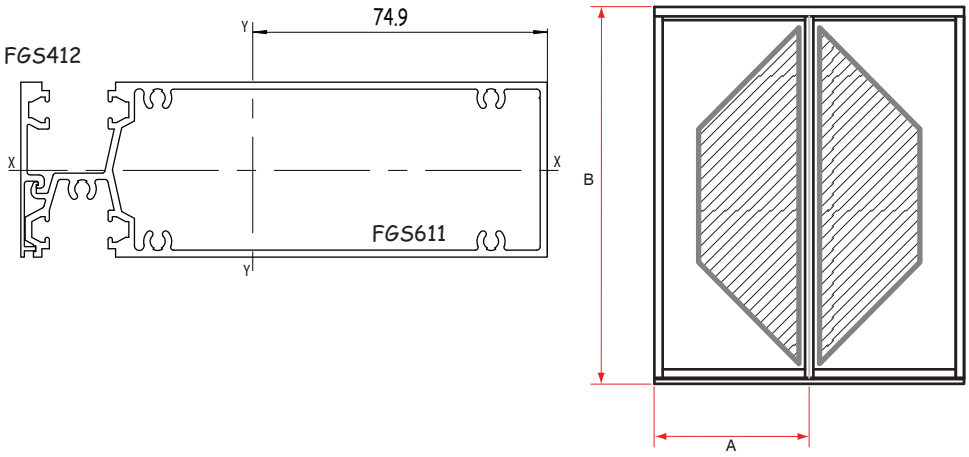
Performance

Transom Strength Chart: FGS610+FGS609



Darley 150x50 Front Glazed	Deflection Ratio's Serviceability =1/150		Serviceability =1/180		Serviceability =1/250		Ultimate = U	Limitations: Serviceability to 5000 Pa & Ultimate to 8000 Pa		Extrusions: FGS609 + FGS610	
	Glazing Width either side of the mullion in mm (A)										
Window Height (mm) (B)	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
2200	4735	4261	3889	3591	3350	3152	2990	2857	2747	2659	2589
	4735	4261	3889	3591	3350	3152	2990	2857	2747	2659	2589
	4735	4261	3889	3591	3350	3152	2990	2857	2747	2659	2589
	7102	6391	5833	5386	5024	4728	4485	4285	4121	3989	3884
2400	3949	3547	3229	2974	2766	2594	2451	2332	2232	2149	2080
	3949	3547	3229	2974	2766	2594	2451	2332	2232	2149	2080
	3949	3547	3229	2974	2766	2594	2451	2332	2232	2149	2080
	5924	5320	4844	4461	4149	3891	3677	3498	3348	3224	3121
2600	3346	3000	2727	2506	2326	2176	2050	1944	1854	1778	1714
	3346	3000	2727	2506	2326	2176	2050	1944	1854	1778	1714
	3346	3000	2727	2506	2326	2176	2050	1944	1854	1778	1714
	5019	4501	4090	3760	3488	3263	3075	2916	2782	2668	2571
2800	2872	2572	2335	2142	1984	1853	1742	1648	1568	1499	1440
	2872	2572	2335	2142	1984	1853	1742	1648	1568	1499	1440
	2872	2572	2335	2142	1984	1853	1742	1648	1568	1499	1440
	4309	3858	3502	3214	2976	2779	2613	2472	2352	2249	2160
3000	2493	2231	2022	1853	1714	1598	1500	1416	1345	1283	1229
	2493	2231	2022	1853	1714	1598	1500	1416	1345	1283	1229
	2493	2231	2022	1853	1714	1598	1500	1416	1345	1283	1229
	3740	3346	3033	2780	2571	2397	2250	2124	2017	1924	1844
3200	2185	1953	1769	1620	1496	1393	1306	1231	1167	1111	1063
	2185	1953	1769	1620	1496	1393	1306	1231	1167	1111	1063
	2185	1953	1769	1620	1496	1393	1306	1231	1167	1111	1063
	3277	2930	2654	2429	2245	2090	1959	1847	1750	1667	1594
3400	1931	1725	1561	1428	1318	1226	1148	1081	1023	973	929
	1931	1725	1561	1428	1318	1226	1148	1081	1023	973	929
	1907	1705	1545	1415	1308	1218	1142	1077	1021	972	929
	2896	2587	2342	2142	1977	1839	1722	1621	1535	1459	1394
3600	1719	1534	1388	1269	1170	1087	1017	957	905	859	820
	1719	1534	1388	1269	1170	1087	1017	957	905	859	820
	1602	1432	1296	1186	1095	1019	955	899	851	810	774
	2578	2302	2082	1903	1755	1631	1526	1435	1357	1289	1229
3800	1540	1374	1242	1135	1046	971	908	853	806	765	729
	1540	1374	1242	1135	1046	971	908	853	806	765	729
	1360	1214	1099	1005	927	862	806	759	718	682	651
	2310	2061	1864	1703	1569	1457	1362	1280	1209	1147	1093

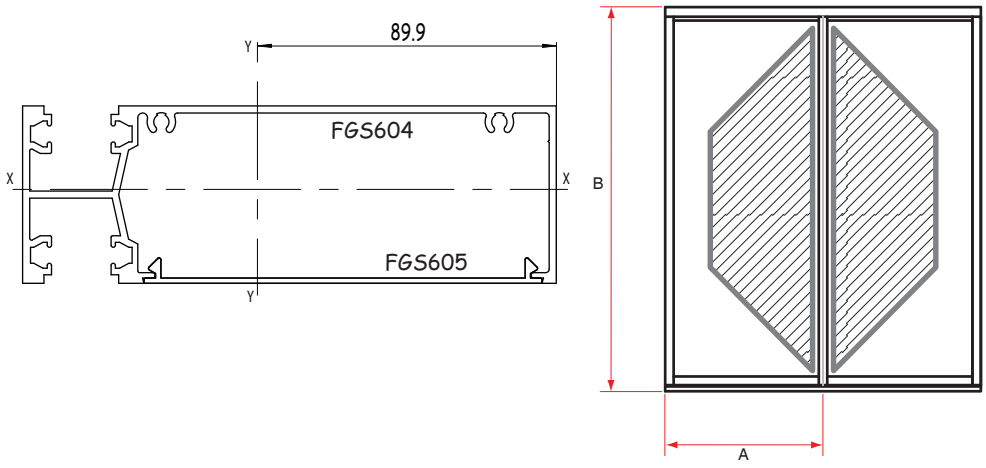
Transom Strength Chart: FGS412+FGS611



Darley 150x50 Front Glazed	Deflection Ratio's Serviceability =1/150		Serviceability =1/180		Serviceability =1/250		Ultimate = U	Limitations: Serviceability to 5000 Pa & Ultimate to 8000 Pa		Extrusions: FGS611 + FGS412	
	Glazing Width either side of the mullion in mm (A)										
Window Height (mm) (B)	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
2200	4763	4286	3912	3612	3369	3171	3008	2874	2764	2675	2605
	4763	4286	3912	3612	3369	3171	3008	2874	2764	2675	2605
	4763	4286	3912	3612	3369	3171	3008	2874	2764	2675	2605
	7144	6429	5868	5418	5054	4756	4512	4310	4146	4012	3907
2400	3973	3568	3249	2992	2782	2610	2466	2346	2246	2162	2093
	3973	3568	3249	2992	2782	2610	2466	2346	2246	2162	2093
	3973	3568	3249	2992	2782	2610	2466	2346	2246	2162	2093
	5959	5352	4873	4488	4174	3914	3699	3519	3368	3243	3139
2600	3366	3018	2743	2521	2339	2188	2062	1956	1865	1789	1724
	3366	3018	2743	2521	2339	2188	2062	1956	1865	1789	1724
	3366	3018	2743	2521	2339	2188	2062	1956	1865	1789	1724
	5049	4527	4115	3782	3509	3283	3093	2933	2798	2683	2586
2800	2889	2588	2348	2155	1996	1864	1752	1658	1577	1508	1449
	2889	2588	2348	2155	1996	1864	1752	1658	1577	1508	1449
	2808	2518	2289	2104	1952	1826	1720	1631	1555	1490	1435
	4334	3881	3523	3233	2994	2795	2628	2486	2366	2262	2173
3000	2508	2244	2034	1864	1724	1607	1509	1425	1352	1290	1237
	2508	2244	2034	1864	1724	1607	1509	1425	1352	1290	1237
	2273	2036	1848	1696	1571	1467	1380	1305	1242	1187	1140
	3762	3366	3051	2796	2586	2411	2263	2137	2029	1936	1855
3200	2198	1965	1780	1629	1505	1401	1314	1238	1174	1118	1069
	2198	1965	1780	1629	1505	1401	1314	1238	1174	1118	1069
	1866	1670	1515	1388	1285	1198	1124	1062	1008	962	922
	3297	2947	2669	2444	2258	2102	1970	1858	1761	1677	1604
3400	1942	1735	1570	1436	1326	1233	1155	1087	1029	979	935
	1942	1735	1570	1436	1326	1233	1155	1087	1029	979	935
	1551	1387	1257	1151	1064	991	929	876	831	791	757
	2913	2602	2355	2155	1989	1850	1732	1631	1544	1468	1402
3600	1729	1544	1396	1276	1177	1094	1023	963	910	864	824
	1729	1544	1396	1276	1177	1094	1023	963	910	864	824
	1304	1165	1055	965	891	829	777	732	693	659	629
	2593	2315	2094	1914	1766	1641	1535	1444	1365	1297	1237
3800	1549	1382	1250	1142	1052	977	913	858	811	769	733
	1549	1382	1250	1142	1052	977	913	858	811	769	733
	1106	988	894	818	754	701	656	618	584	555	529
	2323	2074	1875	1713	1579	1466	1370	1288	1216	1154	1100

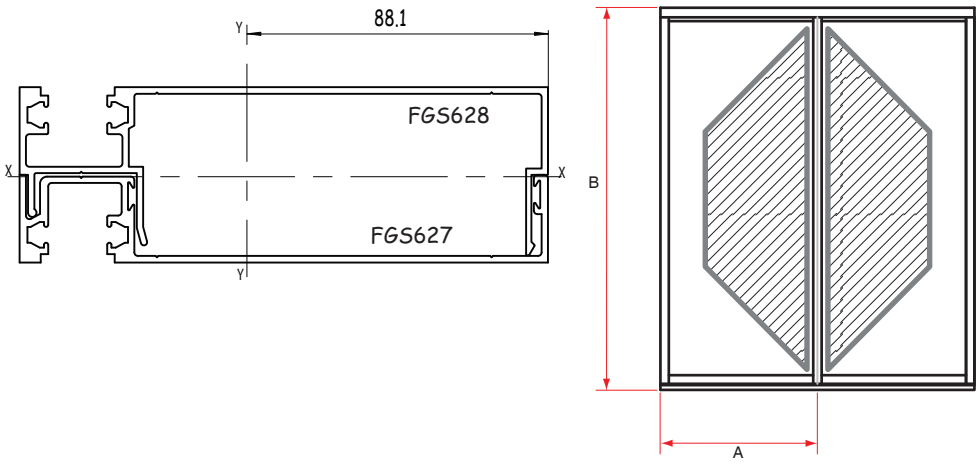
Performance

Transom Strength Chart: FGS604 + FGS605



Darley 150x50 Front Glazed	Deflection Ratio's Serviceability =1/150		Serviceability =1/180		Serviceability =1/250		Ultimate = U	Limitations: Serviceability to 5000 Pa & Ultimate to 8000 Pa		Extrusions: FGS604 + FGS605	
	Glazing Width either side of the mullion in mm (A)										
Window Height (mm) (B)	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
2200	4548	4093	3735	3449	3217	3028	2872	2744	2639	2554	2487
	4548	4093	3735	3449	3217	3028	2872	2744	2639	2554	2487
	4548	4093	3735	3449	3217	3028	2872	2744	2639	2554	2487
	6822	6139	5603	5174	4826	4542	4308	4116	3959	3831	3731
2400	3794	3407	3102	2857	2657	2492	2355	2240	2144	2064	1998
	3794	3407	3102	2857	2657	2492	2355	2240	2144	2064	1998
	3794	3407	3102	2857	2657	2492	2355	2240	2144	2064	1998
	5691	5110	4653	4285	3985	3738	3532	3360	3216	3097	2997
2600	3214	2882	2619	2407	2234	2090	1969	1867	1781	1708	1647
	3214	2882	2619	2407	2234	2090	1969	1867	1781	1708	1647
	3214	2882	2619	2407	2234	2090	1969	1867	1781	1708	1647
	4821	4323	3929	3611	3351	3135	2954	2801	2672	2562	2470
2800	2759	2471	2243	2058	1906	1780	1673	1583	1506	1440	1383
	2759	2471	2243	2058	1906	1780	1673	1583	1506	1440	1383
	2759	2471	2243	2058	1906	1780	1673	1583	1506	1440	1383
	4139	3706	3364	3087	2859	2669	2510	2374	2259	2160	2075
3000	2395	2143	1942	1780	1647	1535	1441	1360	1291	1232	1181
	2395	2143	1942	1780	1647	1535	1441	1360	1291	1232	1181
	2395	2143	1942	1780	1647	1535	1441	1360	1291	1232	1181
	3592	3214	2914	2670	2470	2302	2161	2040	1937	1848	1771
3200	2099	1876	1699	1556	1437	1338	1254	1183	1121	1067	1021
	2099	1876	1699	1556	1437	1338	1254	1183	1121	1067	1021
	2099	1876	1699	1556	1437	1338	1254	1183	1121	1067	1021
	3148	2814	2549	2334	2156	2007	1881	1774	1681	1601	1531
3400	1854	1657	1499	1372	1266	1178	1102	1038	983	934	892
	1854	1657	1499	1372	1266	1178	1102	1038	983	934	892
	1778	1590	1441	1319	1219	1136	1065	1004	952	907	867
	2782	2485	2249	2058	1899	1766	1654	1557	1474	1402	1339
3600	1651	1474	1333	1219	1124	1045	977	919	869	825	787
	1651	1474	1333	1219	1124	1045	977	919	869	825	787
	1494	1335	1209	1106	1022	950	890	839	794	755	721
	2476	2211	2000	1828	1686	1567	1466	1379	1304	1238	1181
3800	1479	1320	1193	1090	1005	933	872	820	774	735	700
	1479	1320	1193	1090	1005	933	872	820	774	735	700
	1268	1132	1025	937	865	804	752	708	669	636	607
	2219	1980	1790	1635	1507	1400	1308	1230	1162	1102	1050

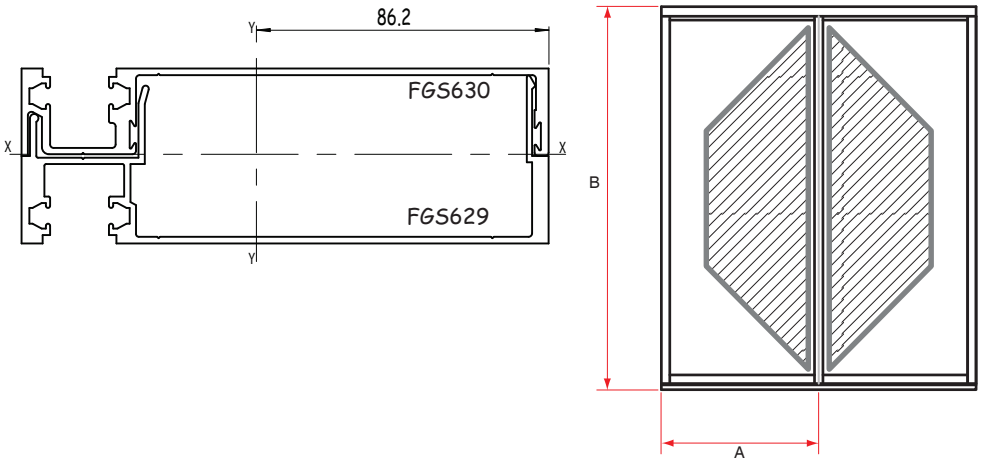
Mullion Strength Chart: FGS628+FGS627



Darley 150x50 Front Glazed	Deflection Ratio's Serviceability =1/150		Serviceability =1/180		Serviceability =1/250		Ultimate = U	Limitations: Serviceability to 5000 Pa & Ultimate to 8000 Pa		Extrusions: FGS627 + FGS628	
	Glazing Width either side of the mullion in mm (*A*)										
Window Height (mm) (B)	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
2200	5585	5026	4587	4235	*3951*	*3718*	*3527*	*3369*	*3241*	*3136*	*3054*
	5585	5026	4587	4235	*3951*	*3718*	*3527*	*3369*	*3241*	*3136*	*3054*
	5585	5026	4587	4235	*3951*	*3718*	*3527*	*3369*	*3241*	*3136*	*3054*
	8377	7538	6880	6353	*5926*	*5577*	*5290*	*5054*	*4861*	*4705*	*4581*
2400	4658	4183	3809	*3508*	*3262*	*3060*	*2891*	*2751*	*2633*	*2535*	*2454*
	4658	4183	3809	*3508*	*3262*	*3060*	*2891*	*2751*	*2633*	*2535*	*2454*
	4658	4183	3809	*3508*	*3262*	*3060*	*2891*	*2751*	*2633*	*2535*	*2454*
	6987	6275	5714	*5262*	*4894*	*4590*	*4337*	*4126*	*3949*	*3802*	*3681*
2600	3947	3539	*3216*	*2956*	*2743*	*2566*	*2418*	*2293*	*2187*	*2098*	*2022*
	3947	3539	*3216*	*2956*	*2743*	*2566*	*2418*	*2293*	*2187*	*2098*	*2022*
	3947	3539	*3216*	*2956*	*2743*	*2566*	*2418*	*2293*	*2187*	*2098*	*2022*
	5920	5308	*4825*	*4434*	*4114*	*3849*	*3627*	*3439*	*3281*	*3146*	*3033*
2800	3388	*3034*	*2754*	*2527*	*2340*	*2185*	*2054*	*1944*	*1849*	*1768*	*1699*
	3388	*3034*	*2754*	*2527*	*2340*	*2185*	*2054*	*1944*	*1849*	*1768*	*1699*
	3388	*3034*	*2754*	*2527*	*2340*	*2185*	*2054*	*1944*	*1849*	*1768*	*1699*
	5082	*4551*	*4130*	*3790*	*3511*	*3278*	*3082*	*2915*	*2774*	*2652*	*2548*
3000	2941	*2631*	*2385*	*2186*	*2022*	*1885*	*1769*	*1670*	*1586*	*1513*	*1450*
	2941	*2631*	*2385*	*2186*	*2022*	*1885*	*1769*	*1670*	*1586*	*1513*	*1450*
	2941	*2631*	*2385*	*2186*	*2022*	*1885*	*1769*	*1670*	*1586*	*1513*	*1450*
	4411	*3946*	*3578*	*3279*	*3033*	*2827*	*2653*	*2506*	*2379*	*2269*	*2175*
3200	*2577*	*2304*	*2087*	*1910*	*1765*	*1643*	*1540*	*1452*	*1376*	*1311*	*1254*
	2577	*2304*	*2087*	*1910*	*1765*	*1643*	*1540*	*1452*	*1376*	*1311*	*1254*
	2574	*2303*	*2087*	*1910*	*1765*	*1643*	*1540*	*1452*	*1376*	*1311*	*1254*
	3865	*3455*	*3130*	*2866*	*2647*	*2465*	*2310*	*2178*	*2064*	*1966*	*1881*
3400	*2277*	*2034*	*1841*	*1684*	*1555*	*1446*	*1354*	*1275*	*1207*	*1147*	*1096*
	2277	*2034*	*1841*	*1684*	*1555*	*1446*	*1354*	*1275*	*1207*	*1147*	*1096*
	2140	*1913*	*1734*	*1588*	*1467*	*1366*	*1281*	*1208*	*1146*	*1091*	*1044*
	3416	*3051*	*2762*	*2526*	*2332*	*2169*	*2031*	*1912*	*1810*	*1721*	*1644*
3600	*2027*	*1810*	*1637*	*1497*	*1380*	*1283*	*1200*	*1129*	*1067*	*1014*	*967*
	2027	*1810*	*1637*	*1497*	*1380*	*1283*	*1200*	*1129*	*1067*	*1014*	*967*
	1798	*1607*	*1455*	*1331*	*1229*	*1144*	*1071*	*1009*	*955*	*909*	*868*
	3041	*2715*	*2456*	*2245*	*2070*	*1924*	*1800*	*1693*	*1601*	*1520*	*1450*
3800	*1816*	*1621*	*1465*	*1339*	*1234*	*1146*	*1071*	*1007*	*951*	*902*	*860*
	1816	*1621*	*1465*	*1339*	*1234*	*1146*	*1071*	*1007*	*951*	*902*	*860*
	1526	*1363*	*1233*	*1128*	*1040*	*967*	*905*	*852*	*806*	*765*	*730*
	2724	*2431*	*2198*	*2008*	*1851*	*1719*	*1606*	*1510*	*1426*	*1353*	*1289*

Performance

Mullion Strength Chart: FGS630+FGS629



Darley 150x50 Front Glazed	Deflection Ratio's Serviceability =1/150		Serviceability =1/180		Serviceability =1/250		Ultimate = U	Limitations: Serviceability to 5000 Pa & Ultimate to 8000 Pa		Extrusions: FGS629 + FGS630	
	Glazing Width either side of the mullion in mm (A)										
Window Height (mm) (B)	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
2200	7108	6396	5838	5391	5028	4732	4489	4288	4124	3992	3887
	7108	6396	5838	5391	5028	4732	4489	4288	4124	3992	3887
	7108	6396	5838	5391	5028	4732	4489	4288	4124	3992	3887
	10662	9595	8757	8086	7543	7098	6733	6432	6187	5988	5831
2400	5929	5325	4848	4465	4152	3894	3680	3501	3351	3226	3123
	5929	5325	4848	4465	4152	3894	3680	3501	3351	3226	3123
	5929	5325	4848	4465	4152	3894	3680	3501	3351	3226	3123
	8893	7987	7272	6697	6228	5841	5520	5251	5027	4840	4685
2600	5023	4504	4094	3763	3491	3266	3077	2918	2784	2670	2573
	5023	4504	4094	3763	3491	3266	3077	2918	2784	2670	2573
	5023	4504	4094	3763	3491	3266	3077	2918	2784	2670	2573
	7535	6756	6141	5644	5237	4899	4616	4378	4176	4005	3860
2800	4312	3862	3505	3216	2979	2781	2615	2474	2353	2250	2162
	4312	3862	3505	3216	2979	2781	2615	2474	2353	2250	2162
	4312	3862	3505	3216	2979	2781	2615	2474	2353	2250	2162
	6468	5792	5257	4824	4468	4172	3922	3711	3530	3376	3243
3000	3743	3348	3036	2782	2573	2399	2251	2126	2018	1926	1845
	3743	3348	3036	2782	2573	2399	2251	2126	2018	1926	1845
	3743	3348	3036	2782	2573	2399	2251	2126	2018	1926	1845
	5614	5023	4553	4173	3860	3598	3377	3189	3028	2888	2768
3200	3280	2932	2656	2431	2246	2091	1960	1848	1752	1668	1596
	3280	2932	2656	2431	2246	2091	1960	1848	1752	1668	1596
	3205	2868	2601	2385	2206	2057	1931	1824	1732	1652	1583
	4920	4398	3983	3647	3369	3137	2940	2772	2628	2502	2393
3400	2898	2589	2343	2144	1979	1840	1723	1622	1536	1460	1395
	2898	2589	2343	2144	1979	1840	1723	1622	1536	1460	1395
	2665	2383	2159	1977	1827	1702	1595	1505	1427	1359	1300
	4347	3884	3515	3216	2968	2761	2584	2434	2304	2191	2092
3600	2580	2304	2084	1905	1757	1632	1527	1436	1358	1290	1230
	2580	2304	2084	1905	1757	1632	1527	1436	1358	1290	1230
	2239	2001	1812	1658	1531	1424	1334	1257	1190	1132	1081
	3870	3455	3125	2857	2635	2449	2290	2155	2037	1935	1845
3800	2312	2063	1865	1704	1570	1458	1363	1281	1210	1148	1094
	2312	2063	1865	1704	1570	1458	1363	1281	1210	1148	1094
	1900	1697	1536	1404	1296	1204	1127	1061	1003	953	909
	3467	3094	2797	2556	2356	2188	2045	1922	1815	1723	1641

Glass & Rubber Combinations

Glazing

100/150mm x 50mm CENTRE/FRONT SG			
Glass Thickness	**Specific Profiles Required**	**Wedge Required**	**Pocket Size**
6mm		1615 – 1615 1620 – 1645	16.75mm
8mm		1620 – 1620 1625 – 1645	
10mm		1620 – 1646	
12mm		1630 – 1630 1630 – 1647	


Glazing Wedge 1615


Glazing Wedge 1620


Glazing Wedge 1625


Glazing Wedge 1630


Glazing Wedge 1645


Glazing Wedge 1646


Glazing Wedge 1647

Energy Rating 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/m^2 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 grame, 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:

UW is the value for the whole window and because of it's 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 Rating: CityView 150mm Front Single Glazed

Window Id	Glass Supplier	Glass	Uw	SHGCw	TVw	Air Infil.
DAR-009-001	GENERIC	6Clr	6.353	0.728	0.767	5
DAR-009-002	OCEANIA	6Gy	6.353	0.515	0.38	5
DAR-009-003	<UNKNOWN>	6TS21	5.635	0.282	0.177	5
DAR-009-004	OCEANIA	6.38CPNtl	4.626	0.464	0.511	5
DAR-009-005	OCEANIA	6.38CPGn	4.534	0.455	0.618	5
DAR-009-006	OCEANIA	6.38CPGy	4.607	0.448	0.338	5
DAR-009-007	OCEANIA	6EcAdGy	4.776	0.378	0.278	5
DAR-009-008	OCEANIA	6SolarE	4.658	0.475	0.52	5
DAR-009-009	OCEANIA	6SolarEGy	4.66	0.33	0.259	5
DAR-009-010	OCEANIA	6.38CPClr	4.491	0.626	0.731	5
DAR-009-011	OCEANIA	10.38CPGy	4.445	0.432	0.339	5
DAR-009-012	OCEANIA	10.38GyLam	6.152	0.535	0.366	5
DAR-009-013	OCEANIA	6EVClr	4.7	0.58	0.607	5
DAR-009-014	OCEANIA	10.38CPNtl	4.482	0.453	0.521	5
DAR-009-015	OCEANIA	10.38CPClr	4.421	0.45	0.517	5
DAR-009-016	OCEANIA	10.38CPGn	4.445	0.401	0.578	5
DAR-009-017	OCEANIA	6AB	6.308	0.476	0.469	5
DAR-009-018	OCEANIA	6EVAB	4.699	0.337	0.345	5
DAR-009-019	OCEANIA	6EVBG	4.699	0.418	0.503	5
DAR-009-020	OCEANIA	6EVSpGn	4.718	0.344	0.437	5
DAR-009-021	OCEANIA	6SpGn	6.31	0.482	0.593	5
DAR-009-022	OCEANIA	10.38ClrLam	6.158	0.677	0.764	5
DAR-009-023	<UNKNOWN>	10.38LoEClr	4.434	0.585	0.713	5
DAR-009-300	OCEANIA	13LightGy	6.011	0.524	0.381	5
DAR-009-301	OCEANIA	13.52GyLam	6.01	0.483	0.356	5
DAR-009-302	OCEANIA	6SolTGy	4.561	0.341	0.271	5
DAR-009-303	<UNKNOWN>	11.52LE	4.365	0.577	0.709	5
DAR-009-304	GENERIC	11.52ClrLam	6.012	0.661	0.759	5
DAR-009-305	GENERIC	10Clr	6.199	0.684	0.761	5
DAR-009-306	OCEANIA	10Gy	6.199	0.439	0.22	5
DAR-009-307	OCEANIA	6SolTNtl	4.534	0.489	0.564	5

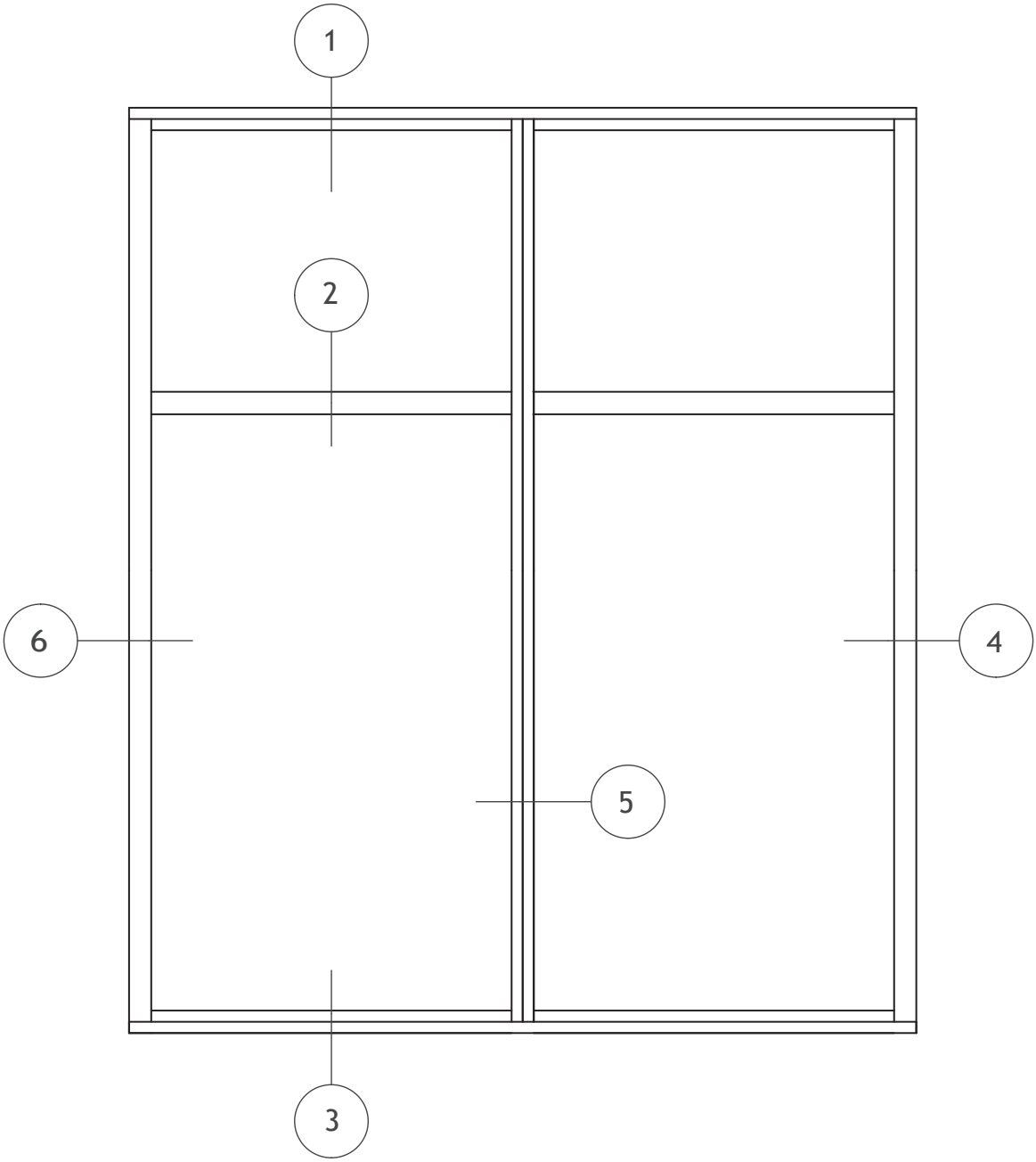
KEY
Lam = Laminate, Sp = Super, EV = Evantage, CP = Comfort Plus, Ntl = Neutral, Pb = Planibel G, SolT - SolTech, ET = Energy Tech, Sn = Sunergy, LE = Low E, i89 = i89, Clr = Clear, Gy = Grey, Gn = Green, B = Blue, Bz = Bronze, BG = Blue Green, AB = Arctic Blue, Trans = Translucent,

NOTES
1. Percentage improvement figures are compared with using base-case Generic Window 1 (3mm clear in standard aluminium frame)
2. A negative percentage improvement figure indicates performance worse than the base-case window
3. A positive percentage improvement figure indicates performane better than the base-case window
4. Maximum air infiltration is 5.0 L/s.m^2 at a positive pressure difference of 75Pa as measured according to AS 2047
5. Static performance (U, SHFC, Tvw, Tdw) Calculated using Window 5.2 and Therm 5.2 software (LBNL), 2000-2003
6. Annual energy performance (stars and % improvements) calculated using Nationwide House Energy Rating Software (AccuRate)
7. Results disclosed at National fenestration Rating Council (AFRC) regulations

General Configuration

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

Configuration



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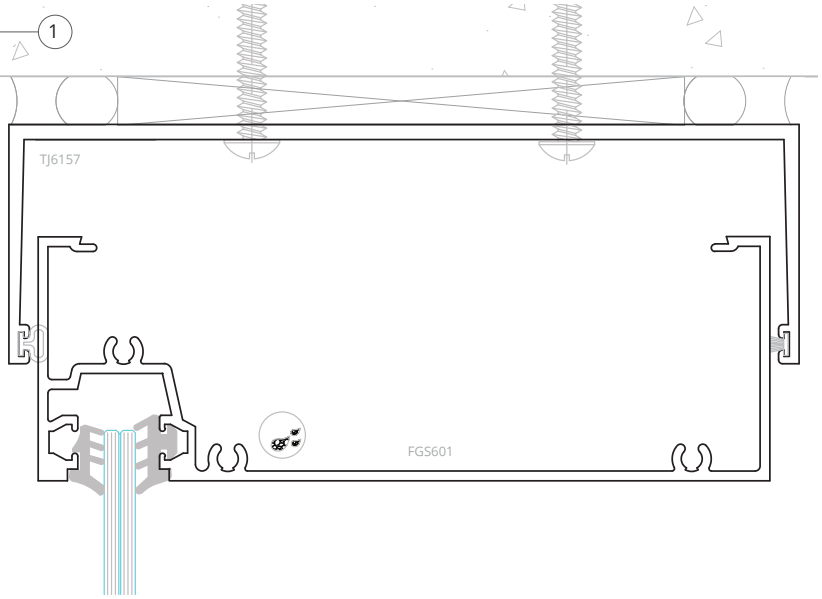
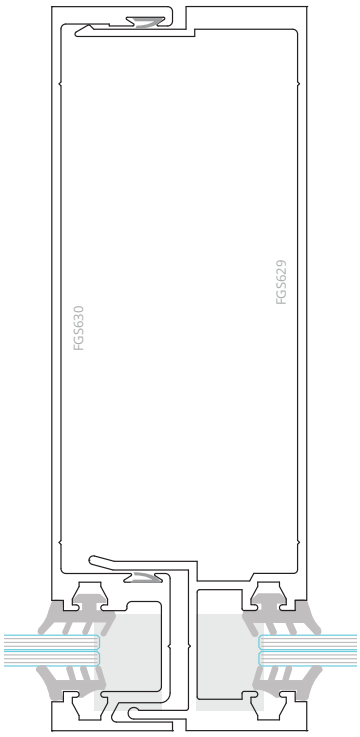
All raw joints need to be sealed with small joint sealer or foam tab option.

Cross Sections

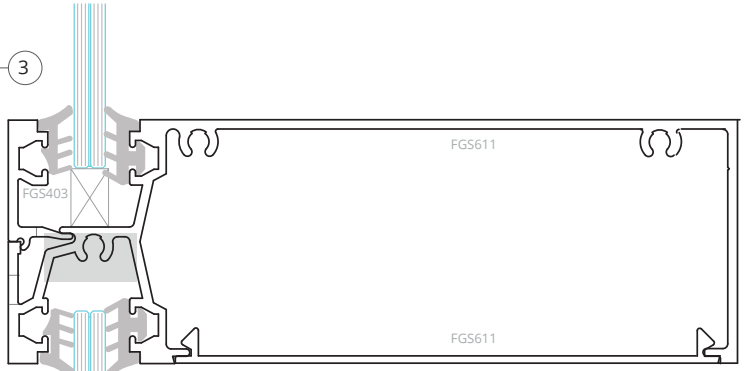
Head Detail 1



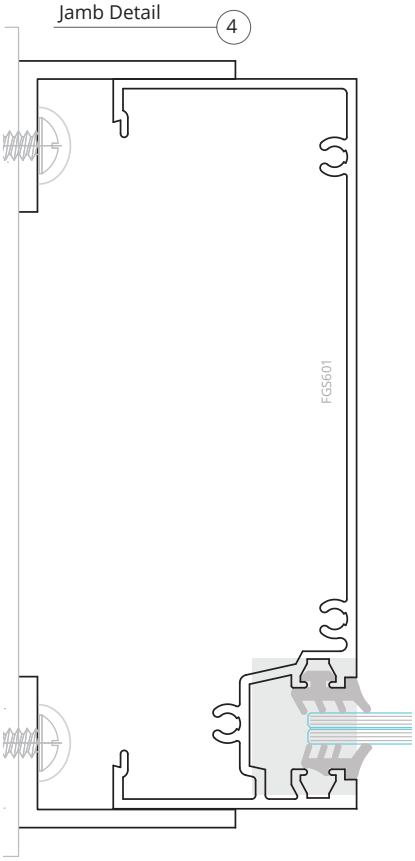
Split Mullion Detail 5



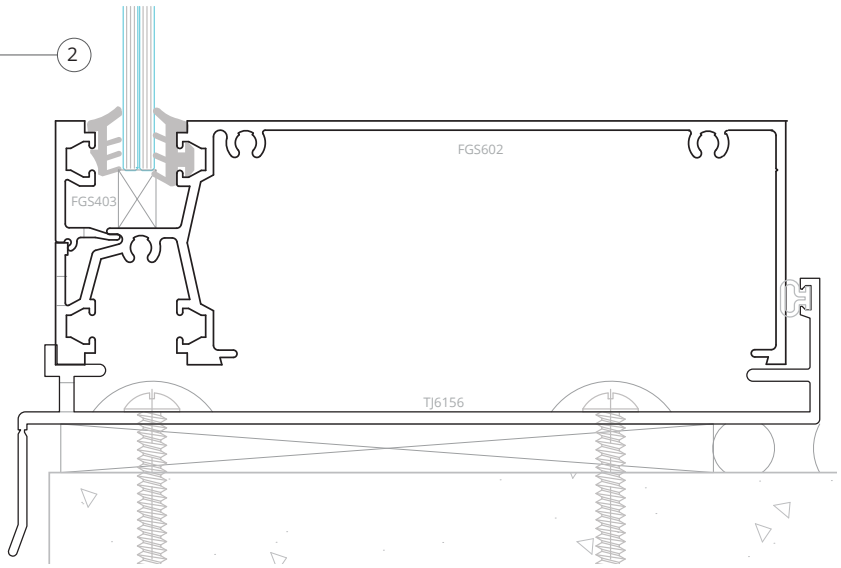
Transom Detail 3



Jamb Detail 4



Sill Detail 2



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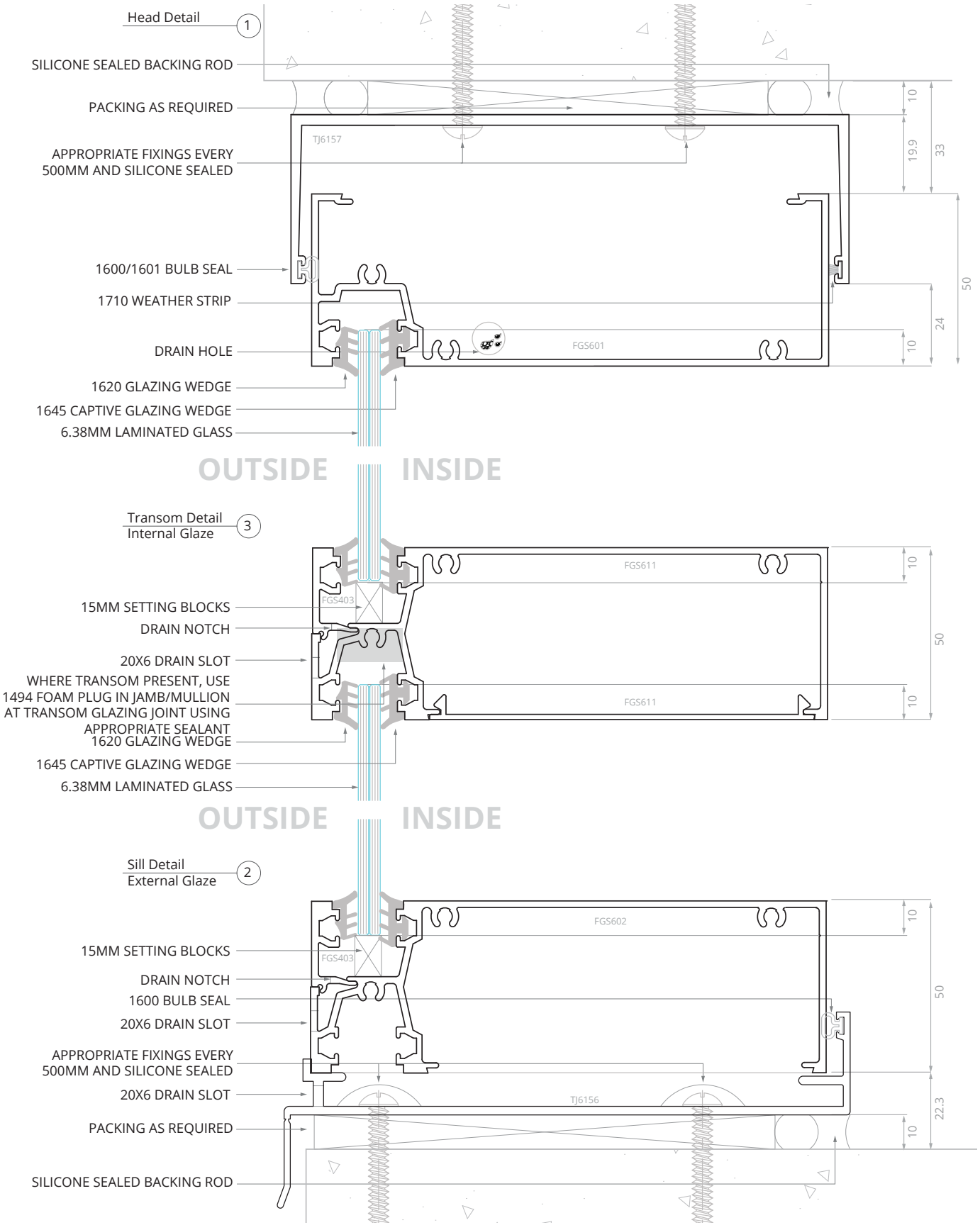
Head & Sill Option

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



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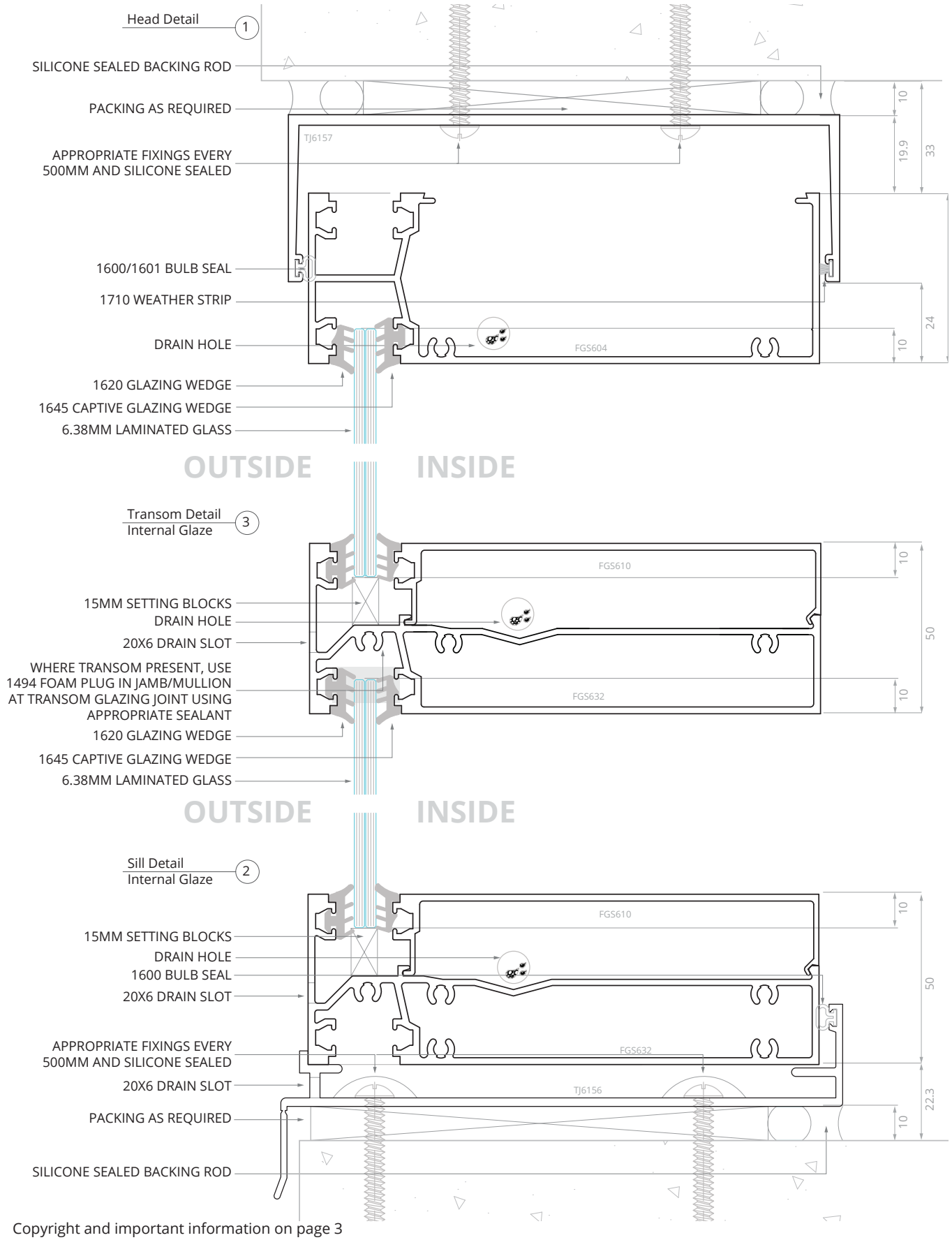
Head & Sill Option

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



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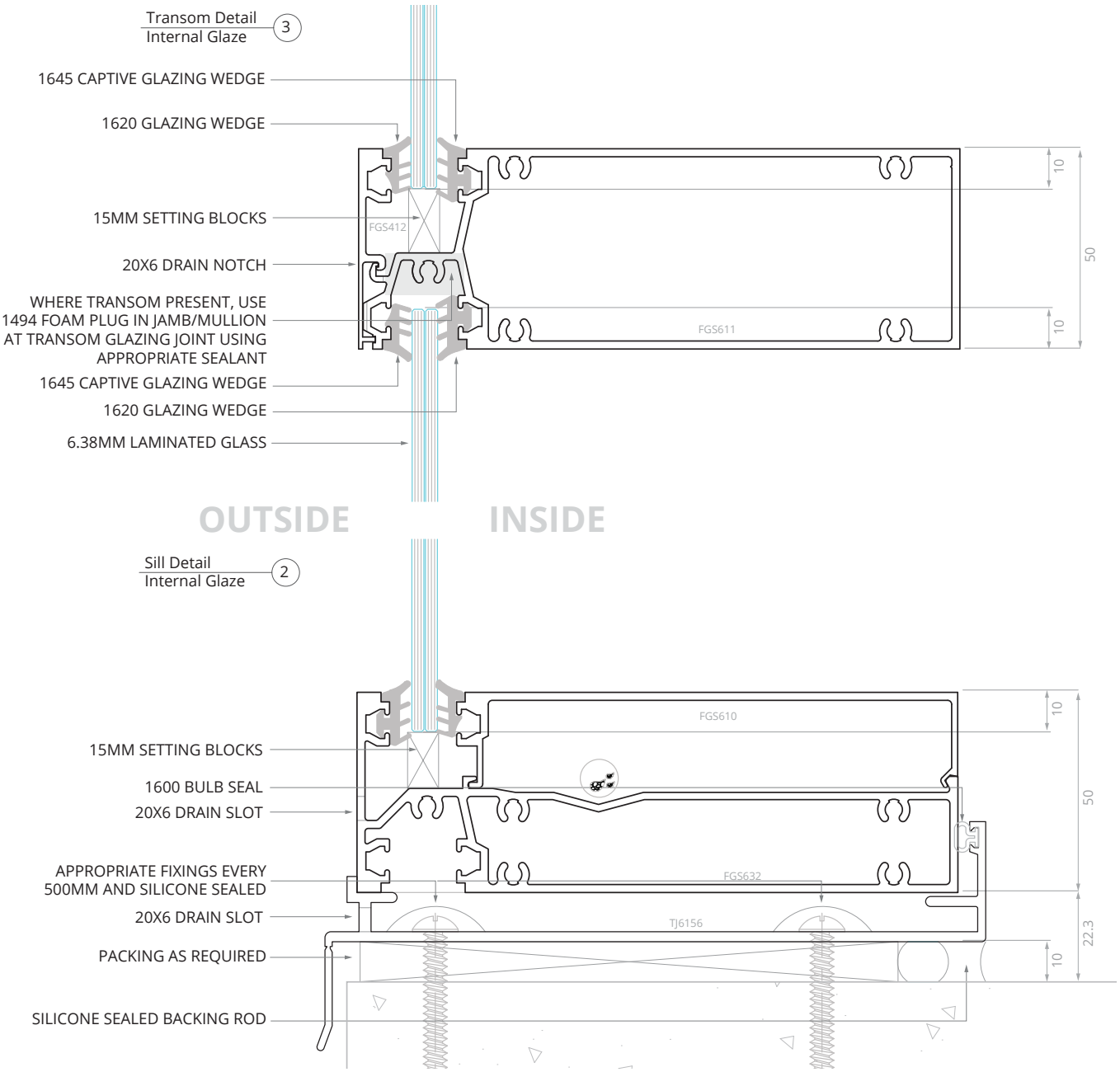
Transom Option

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



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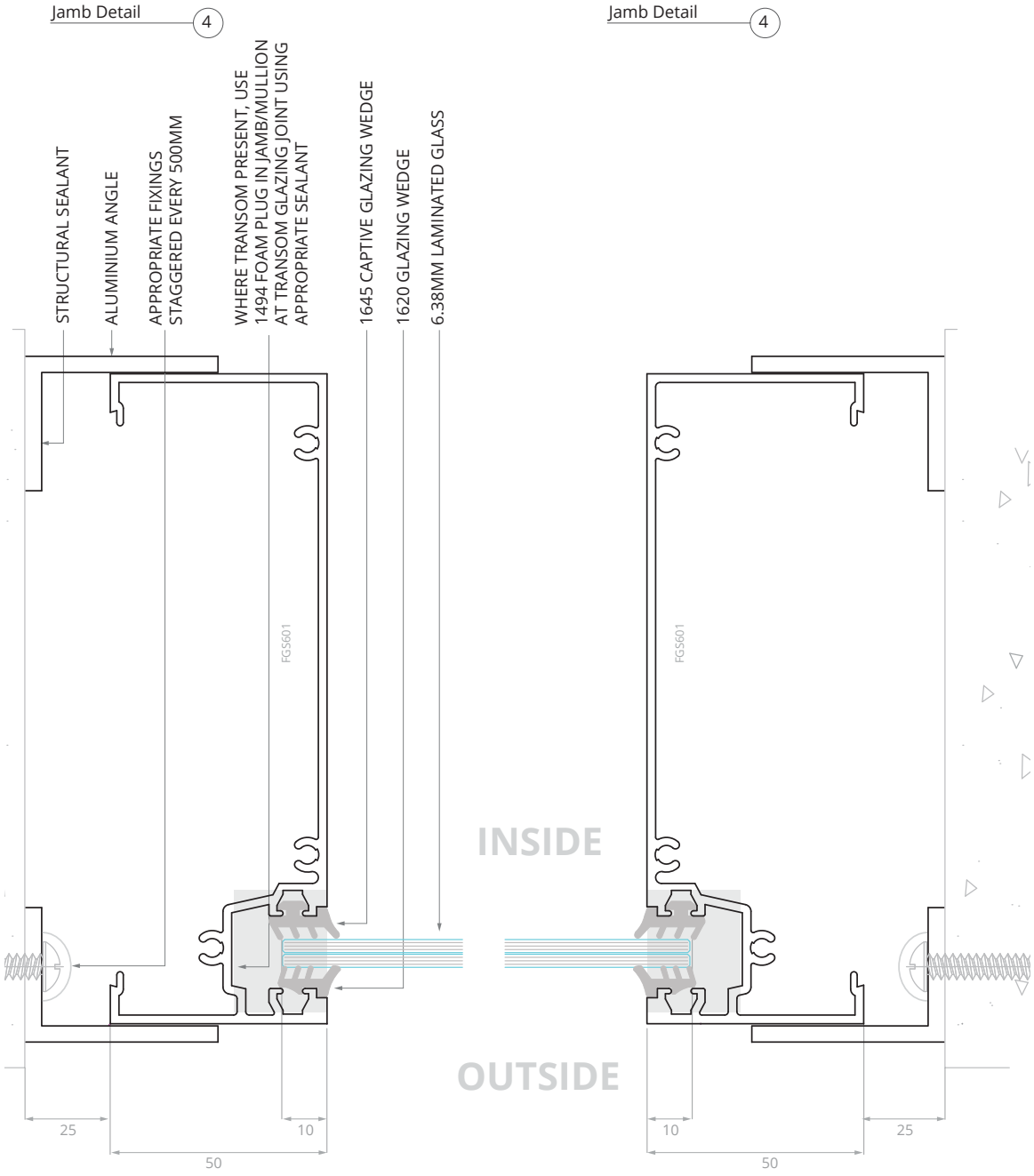
Jamb Option: Angle

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



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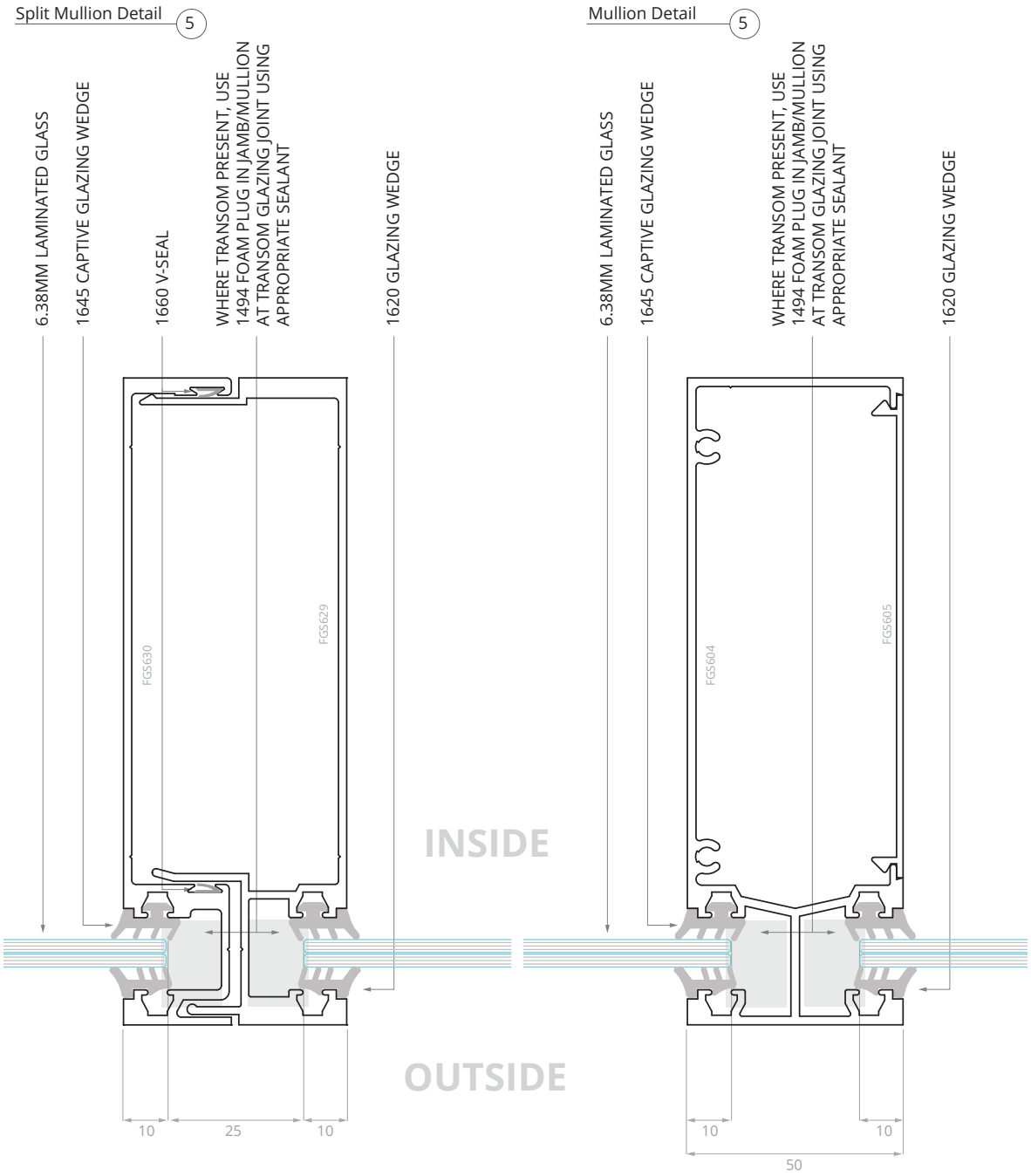
Mulion

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



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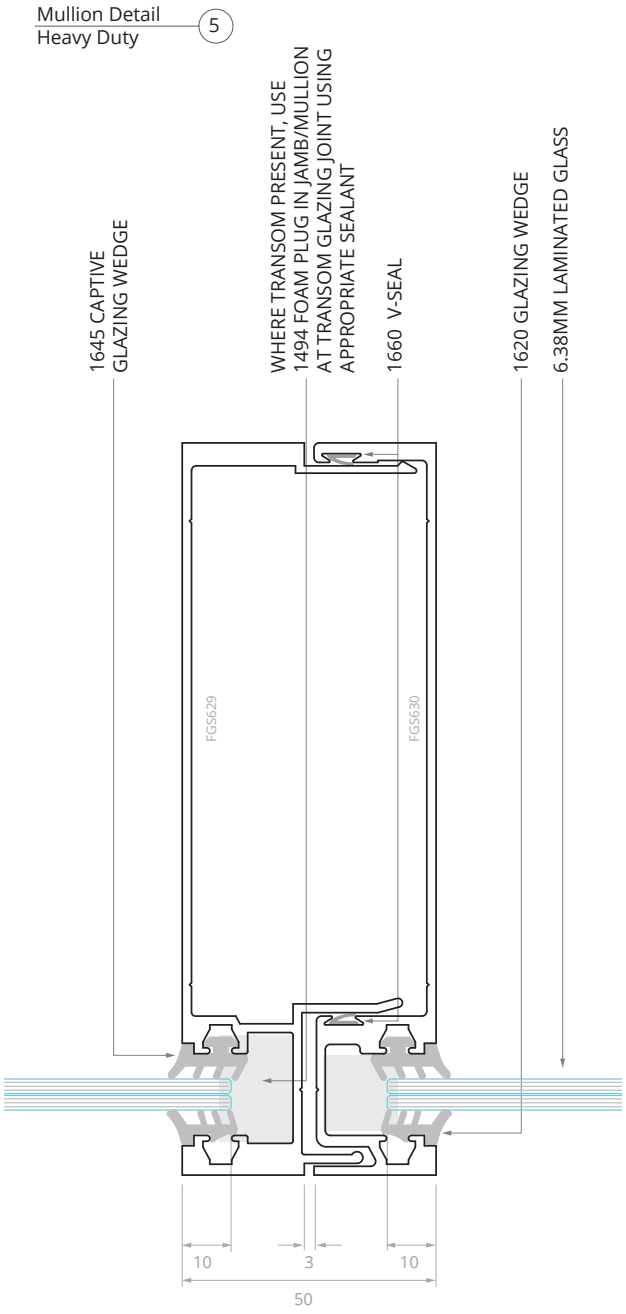
Mulion: Heavy Duty

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



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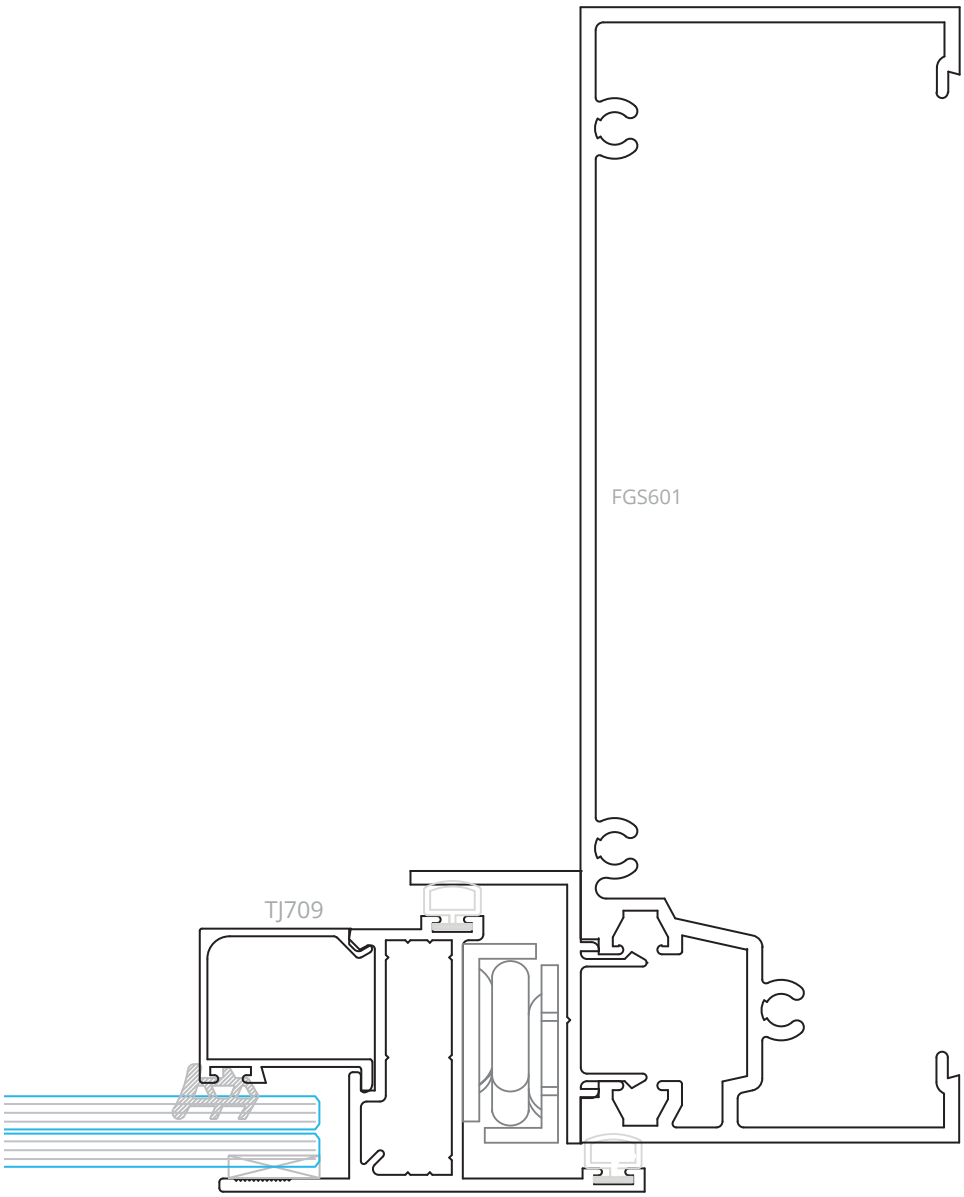
Fabrication

CityView 35mm Awning

Scale 1:1

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

For more information on this configuration,
please see relevent technical manual



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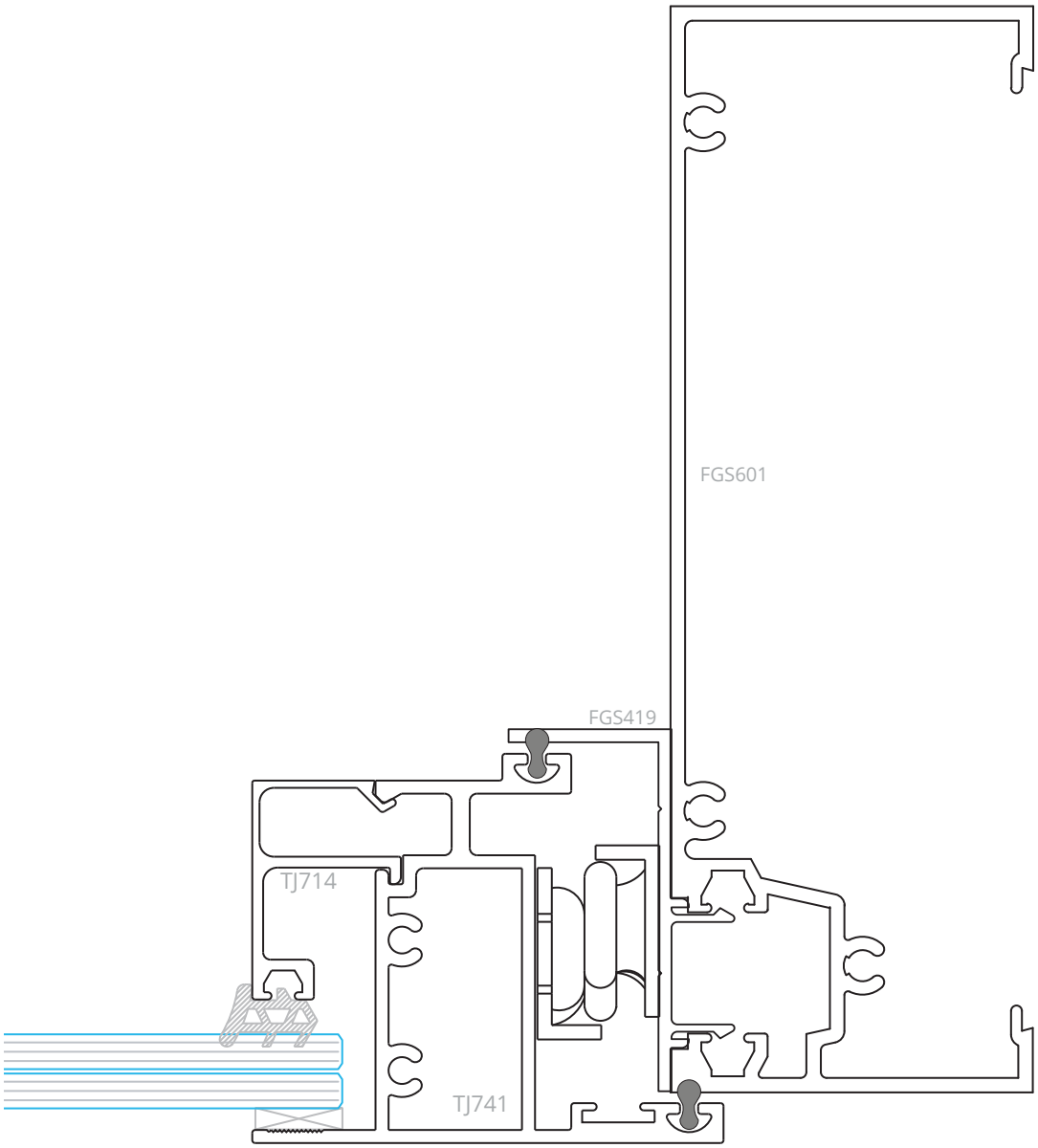
CityView Awning and Casement

Scale 1:1

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

For more information on this configuration,
please see relevent technical manual



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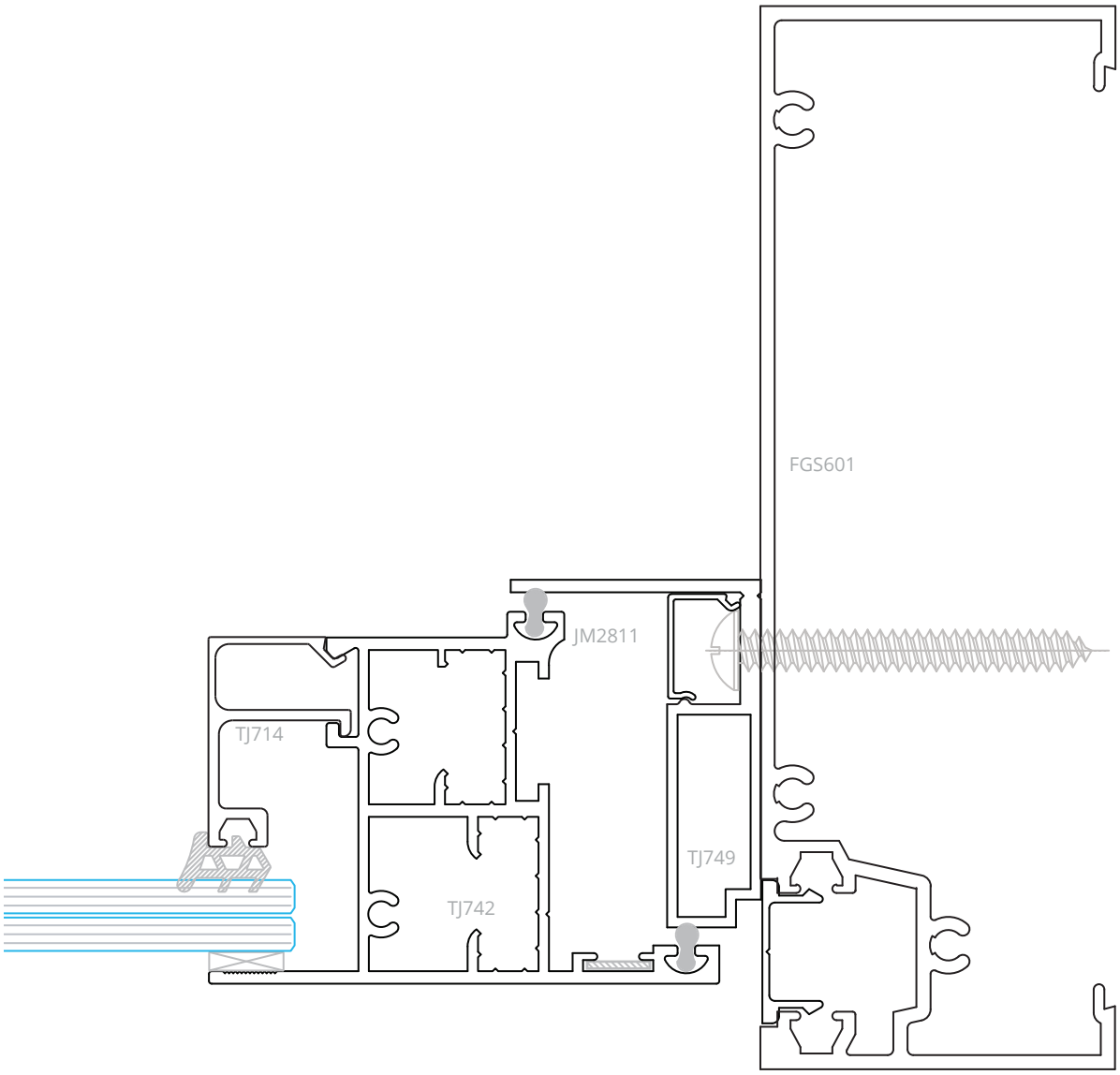
Fabrication

CityView 50mm Hook Awning

Scale 1:1

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

For more information on this configuration,
please see relevent technical manual



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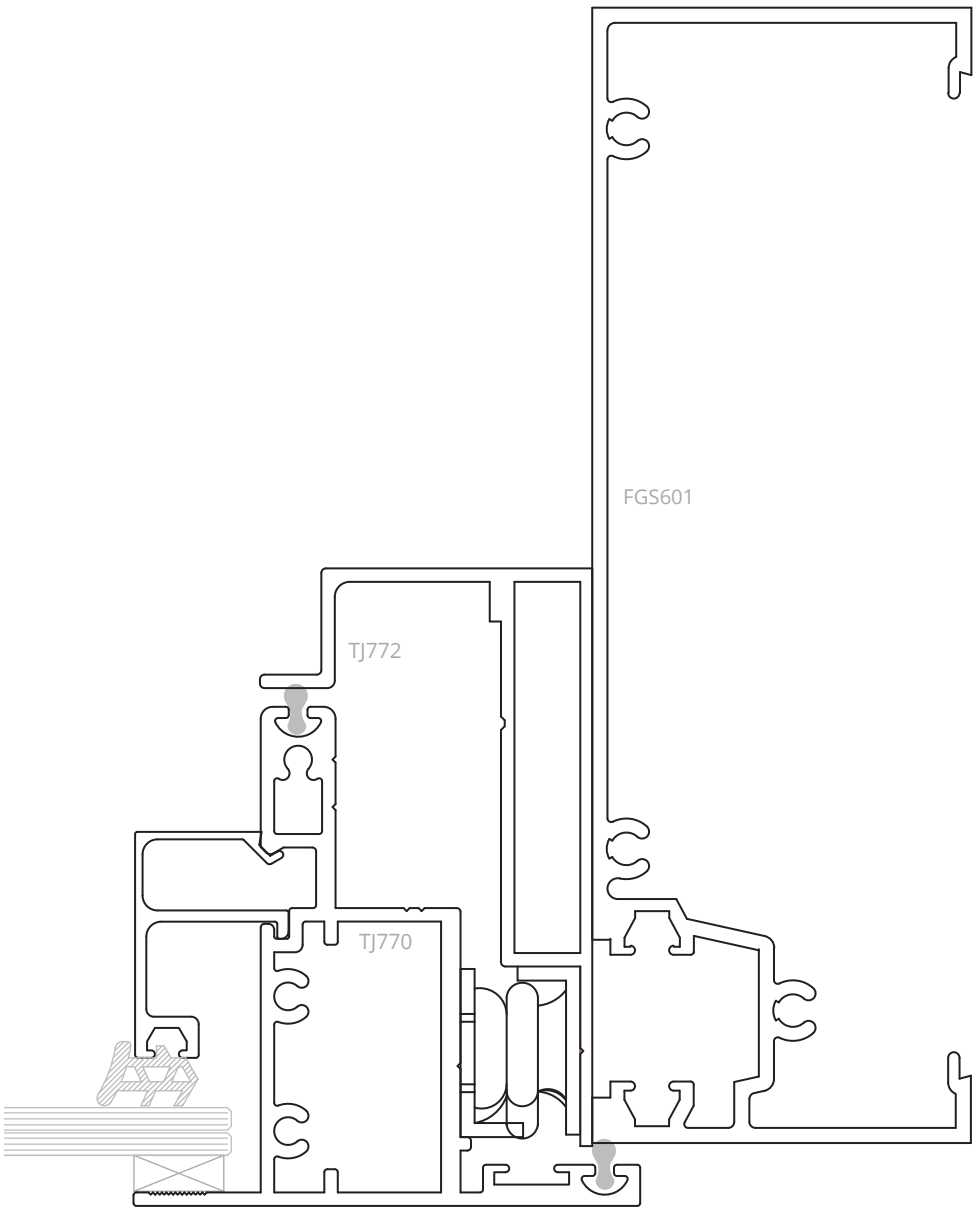
CityView Truth Awning

Scale 1:1

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

For more information on this configuration,
please see relevent technical manual



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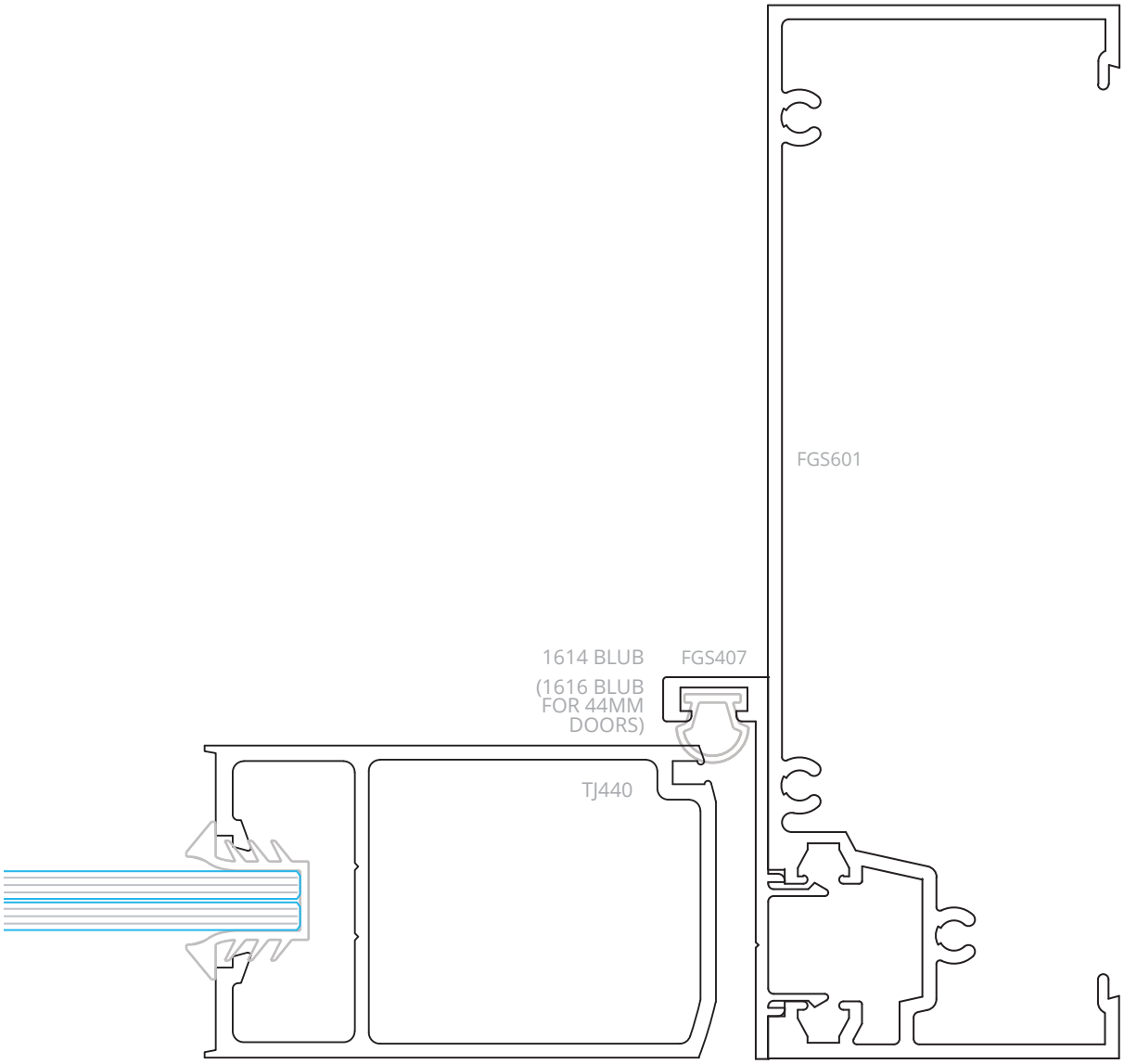
Fabrication

CityView 40/44mm Hinge Door

Scale 1:1

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

For more information on this configuration,
please see relevent technical manual



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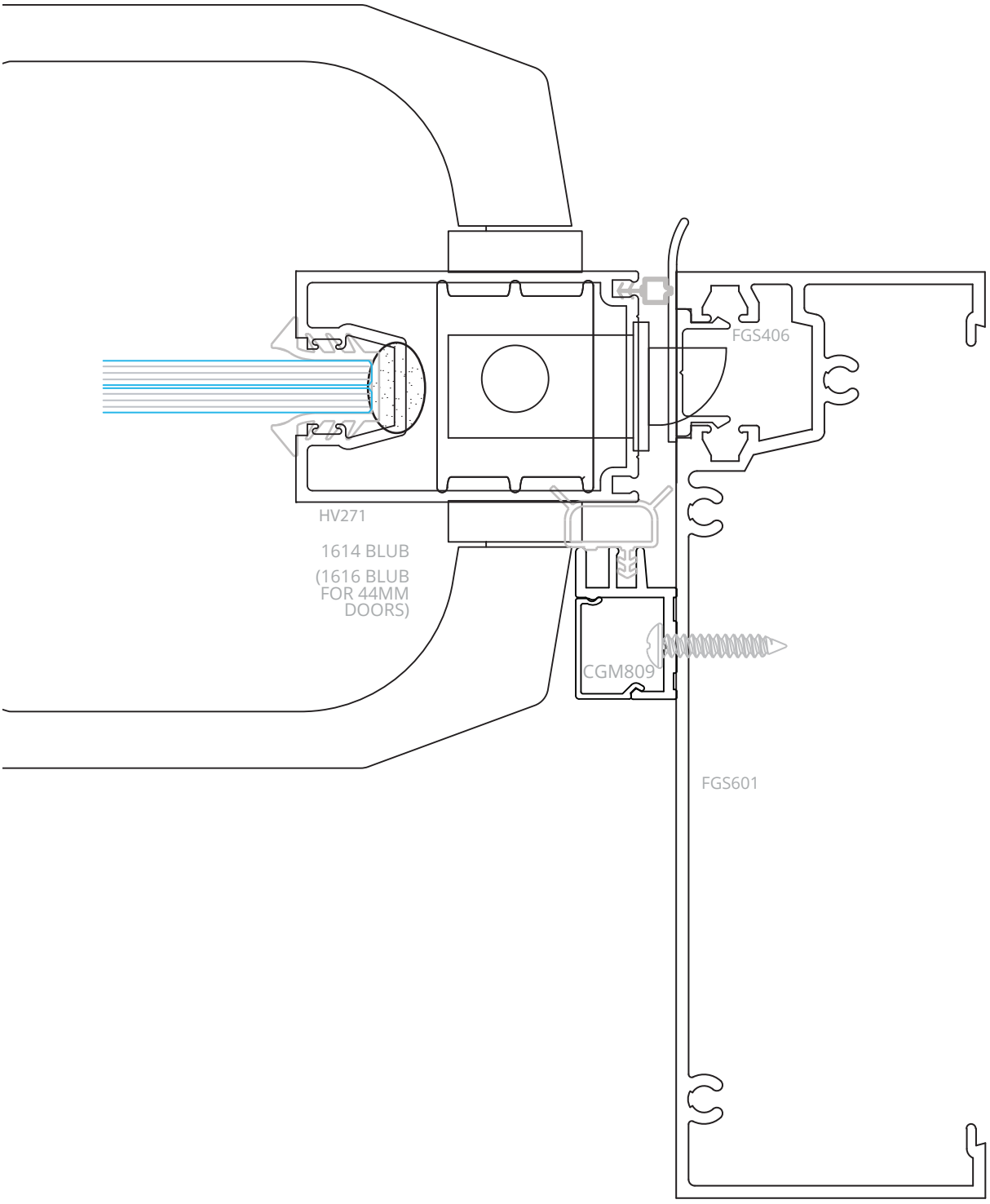
CityView 45mm Hinge Door

Scale 1:1

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

For more information on this configuration,
please see relevent technical manual



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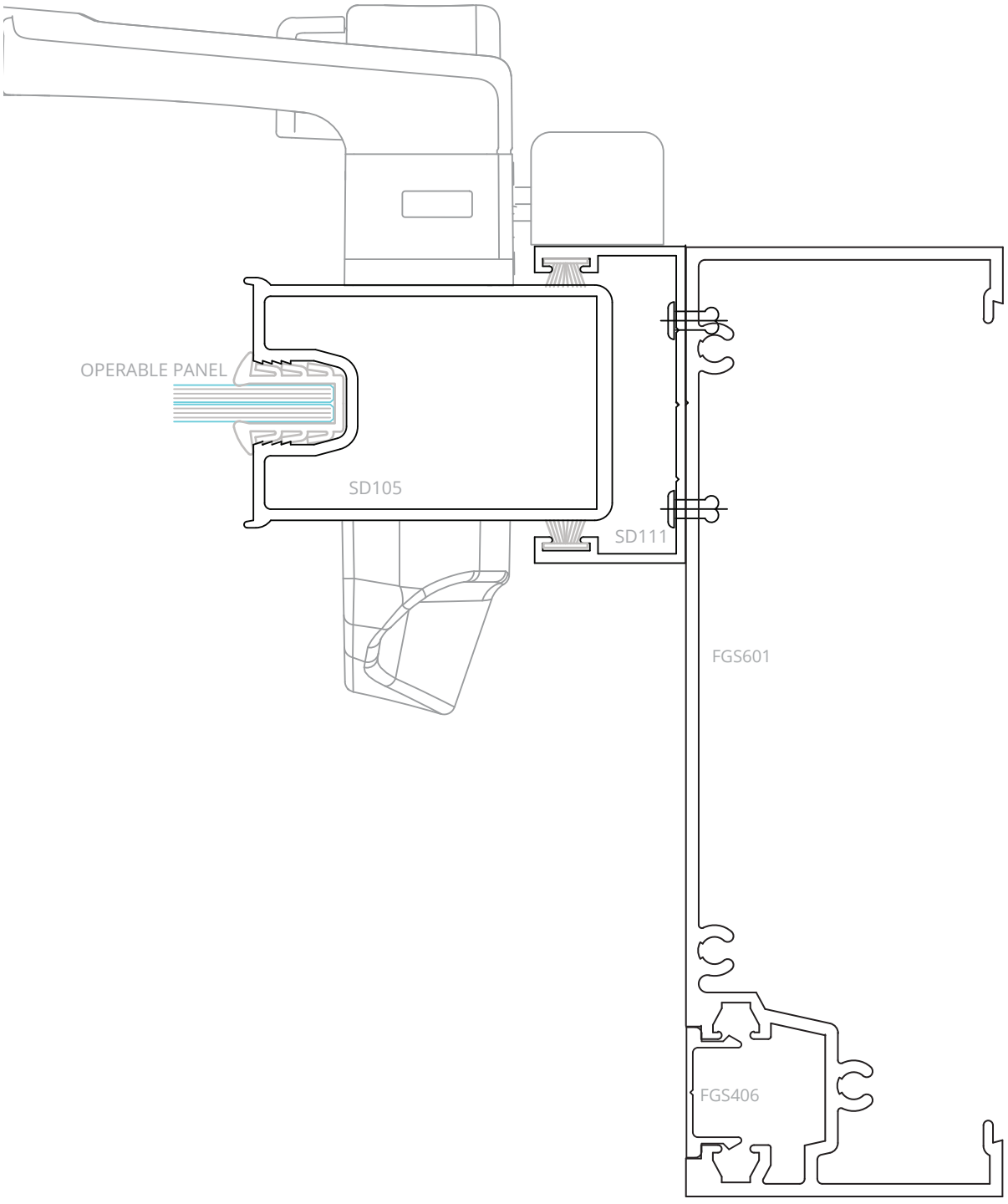
Fabrication

CityView Sliding Door

Scale 1:1

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

For more information on this configuration,
please see relevent technical manual



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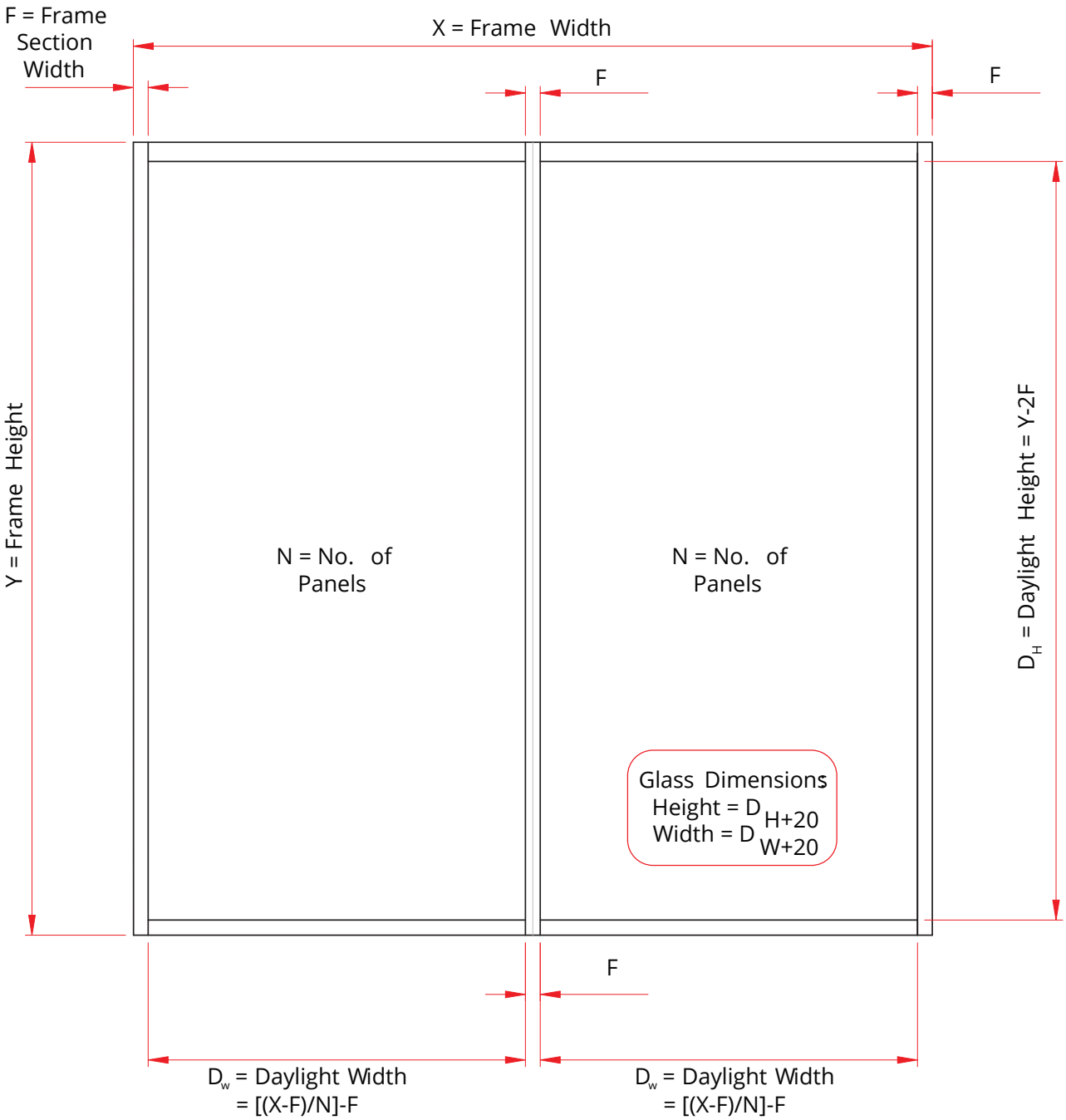
Cutting Formula

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



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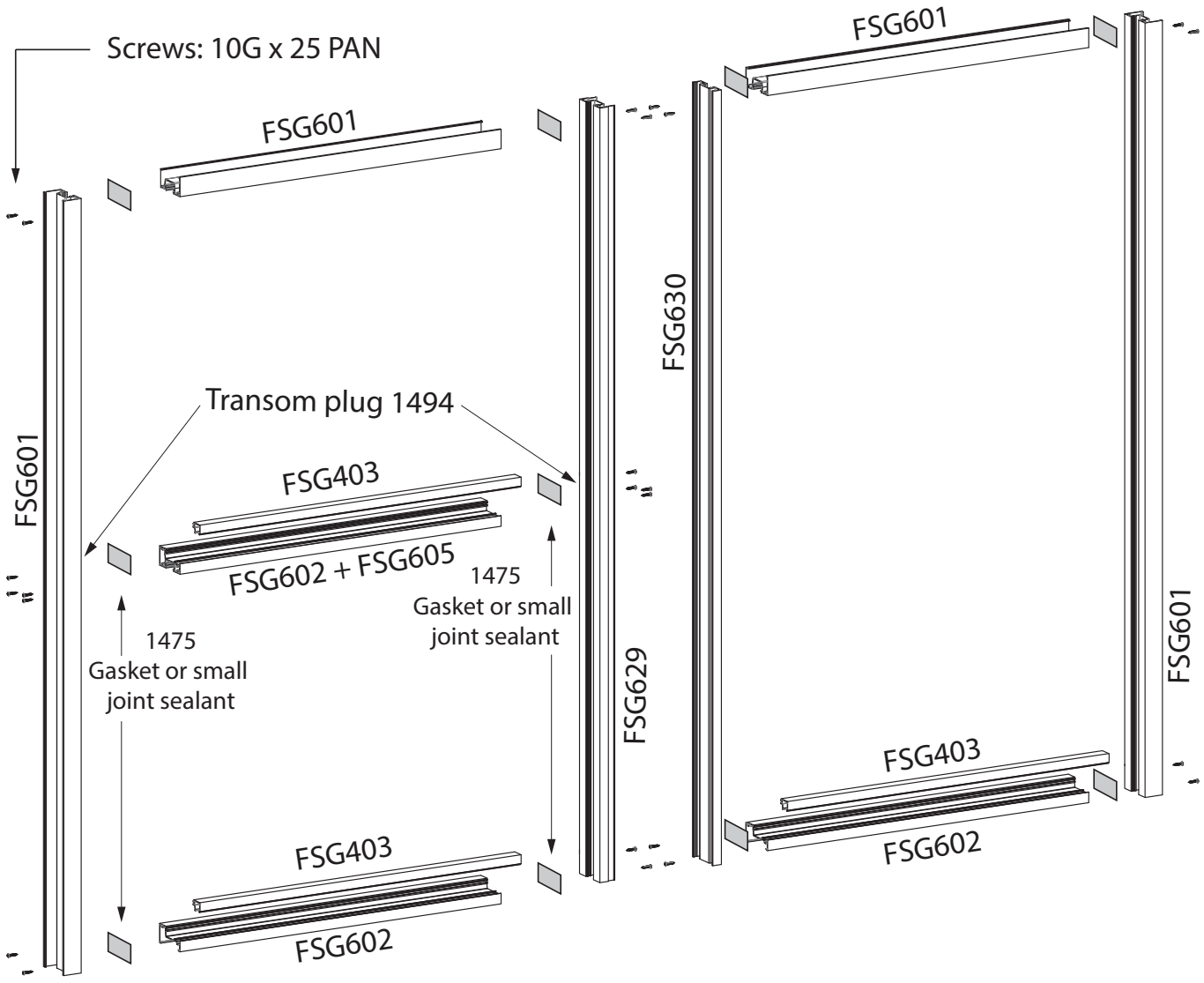
Exploded Assembly Overview

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



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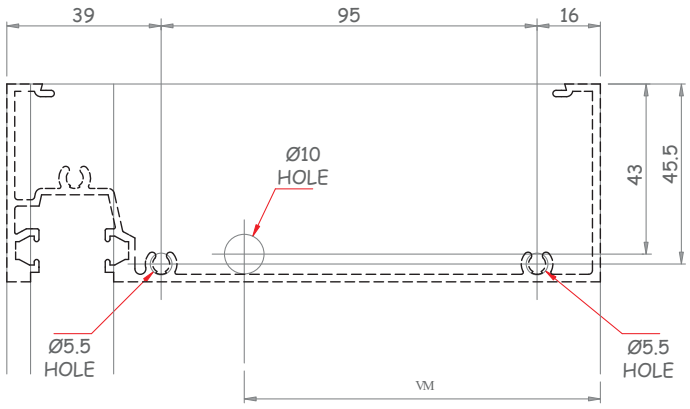
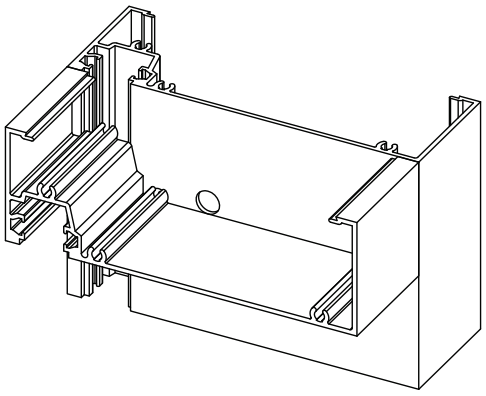
Machining Details: Head

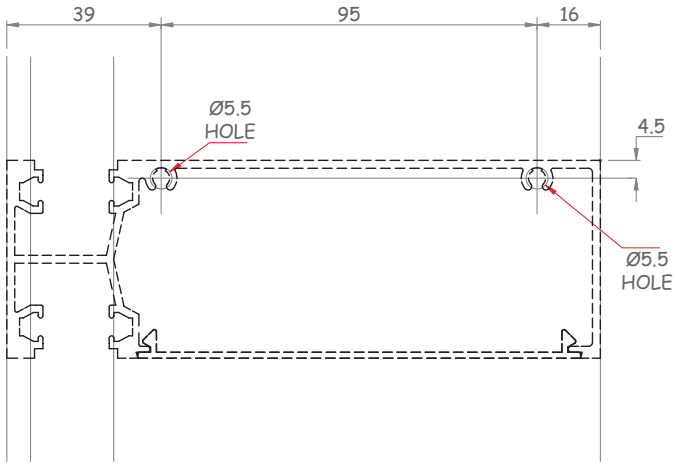
All raw joints need to be sealed with small joint sealer or foam tab option.

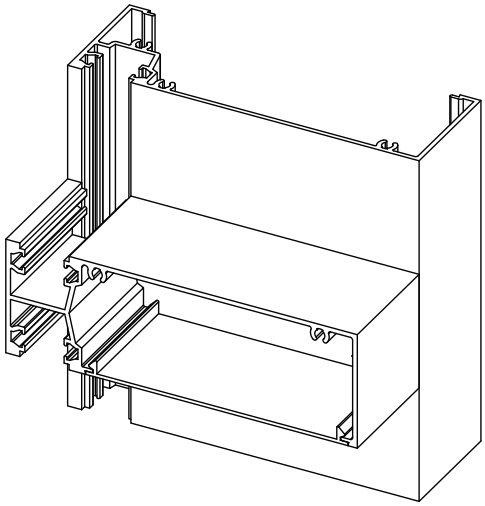




1 Head (FGS601)

Machining Details: Mullion





4 Mullion (FGS604)

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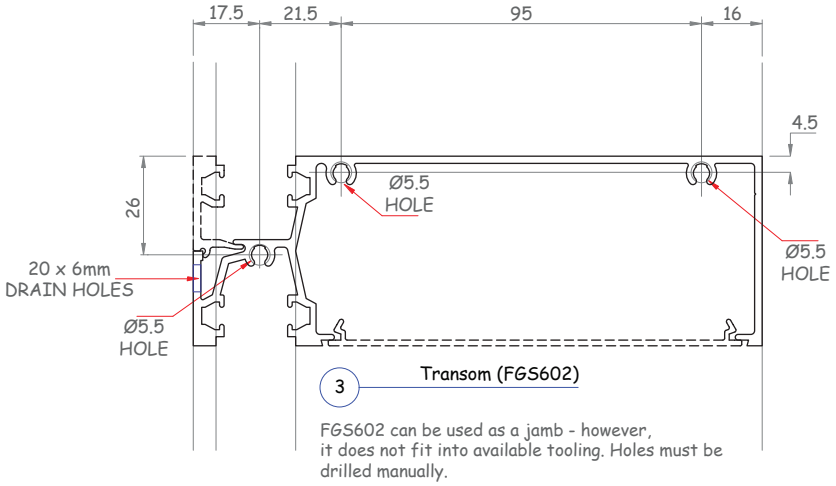
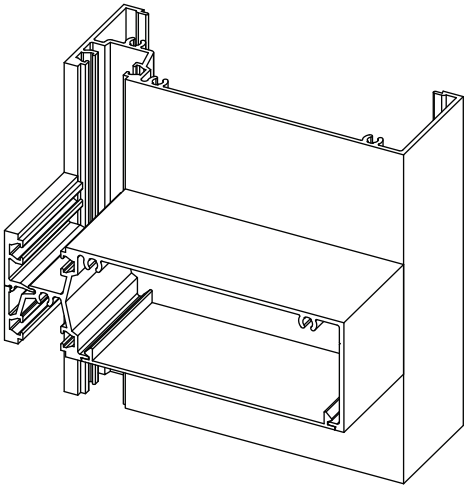
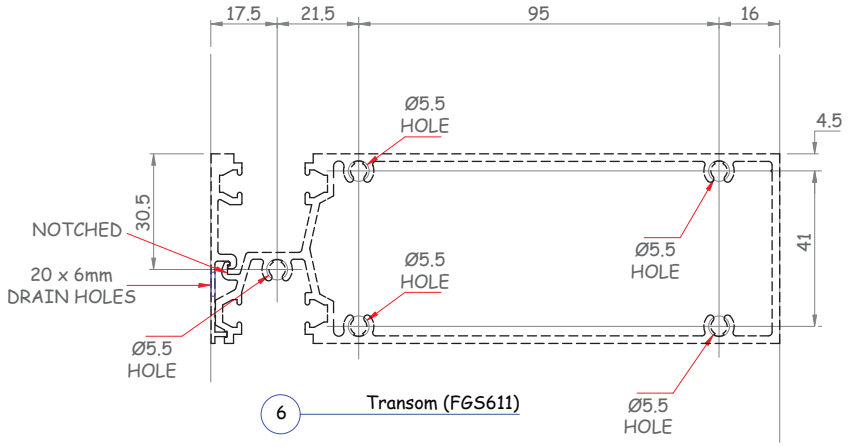
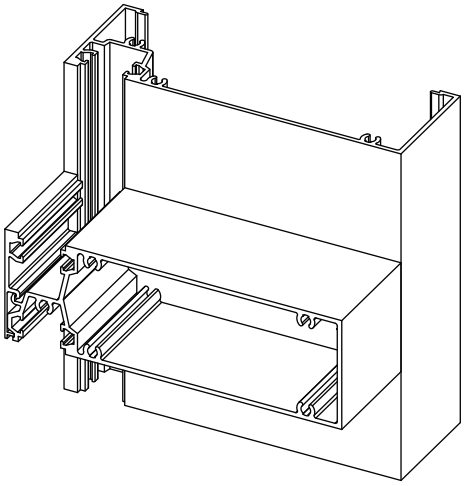
Machining Details: Transom

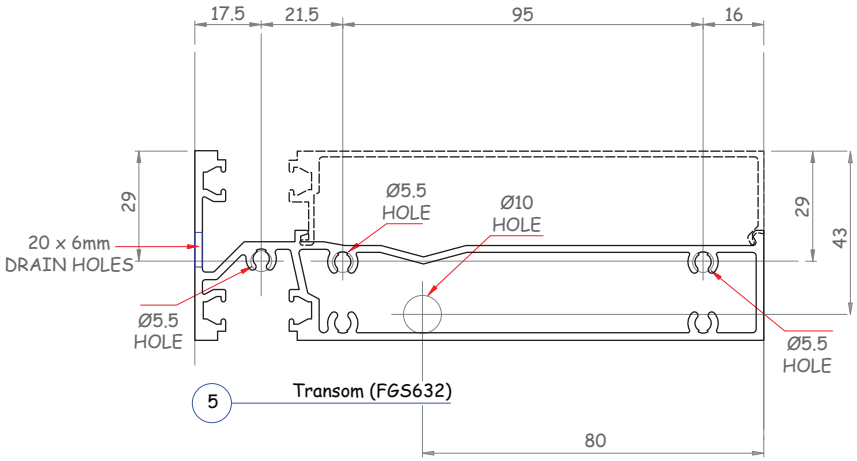
All raw joints need to be sealed with small joint sealer or foam tab option.

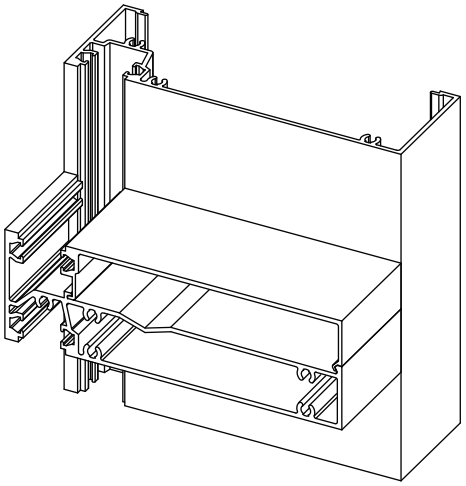












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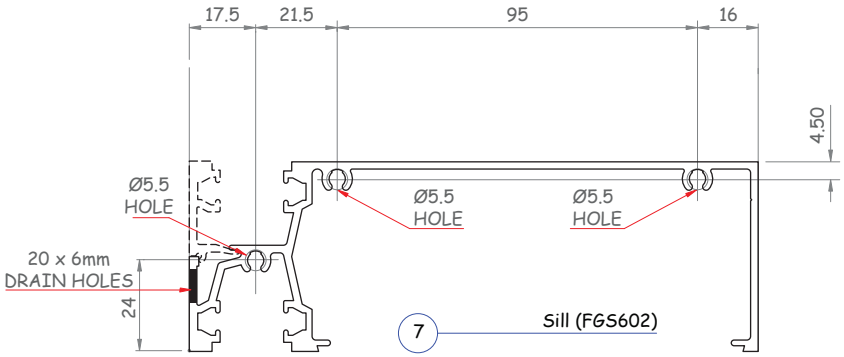
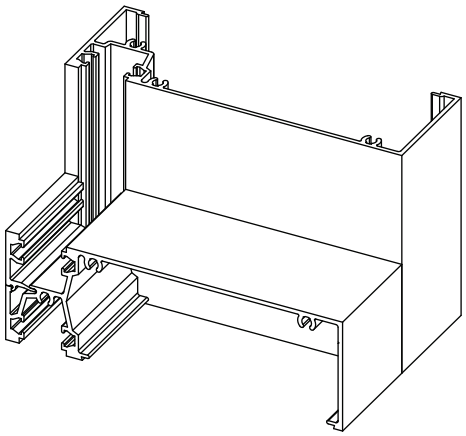
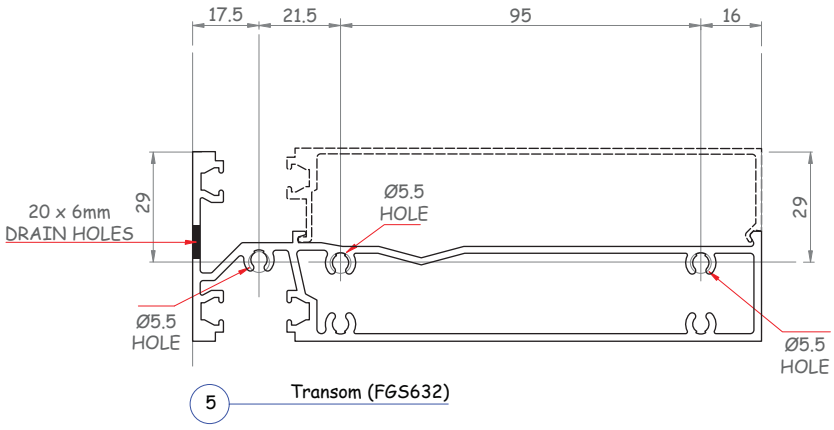
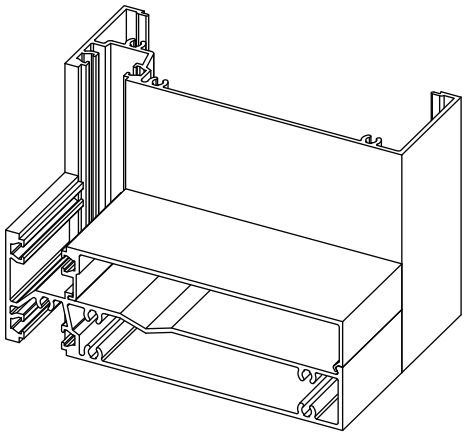
Machining Details: Sill

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









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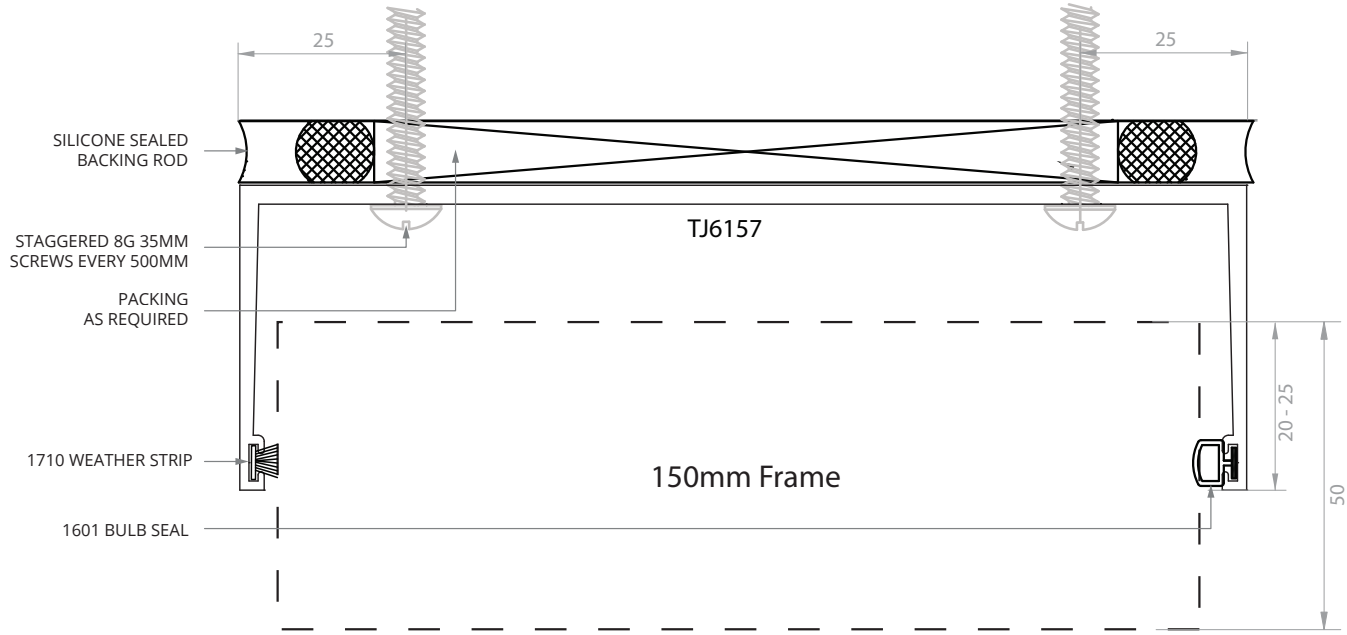
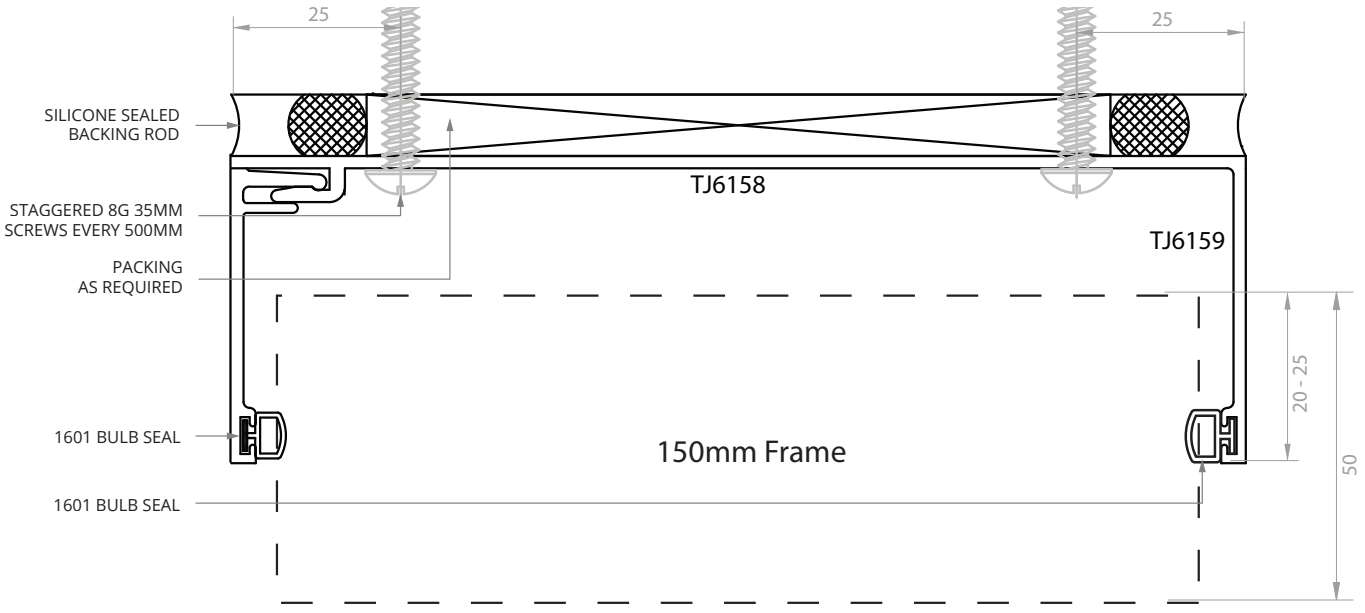
Fabrication Sub-

150mm Subhead Options

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





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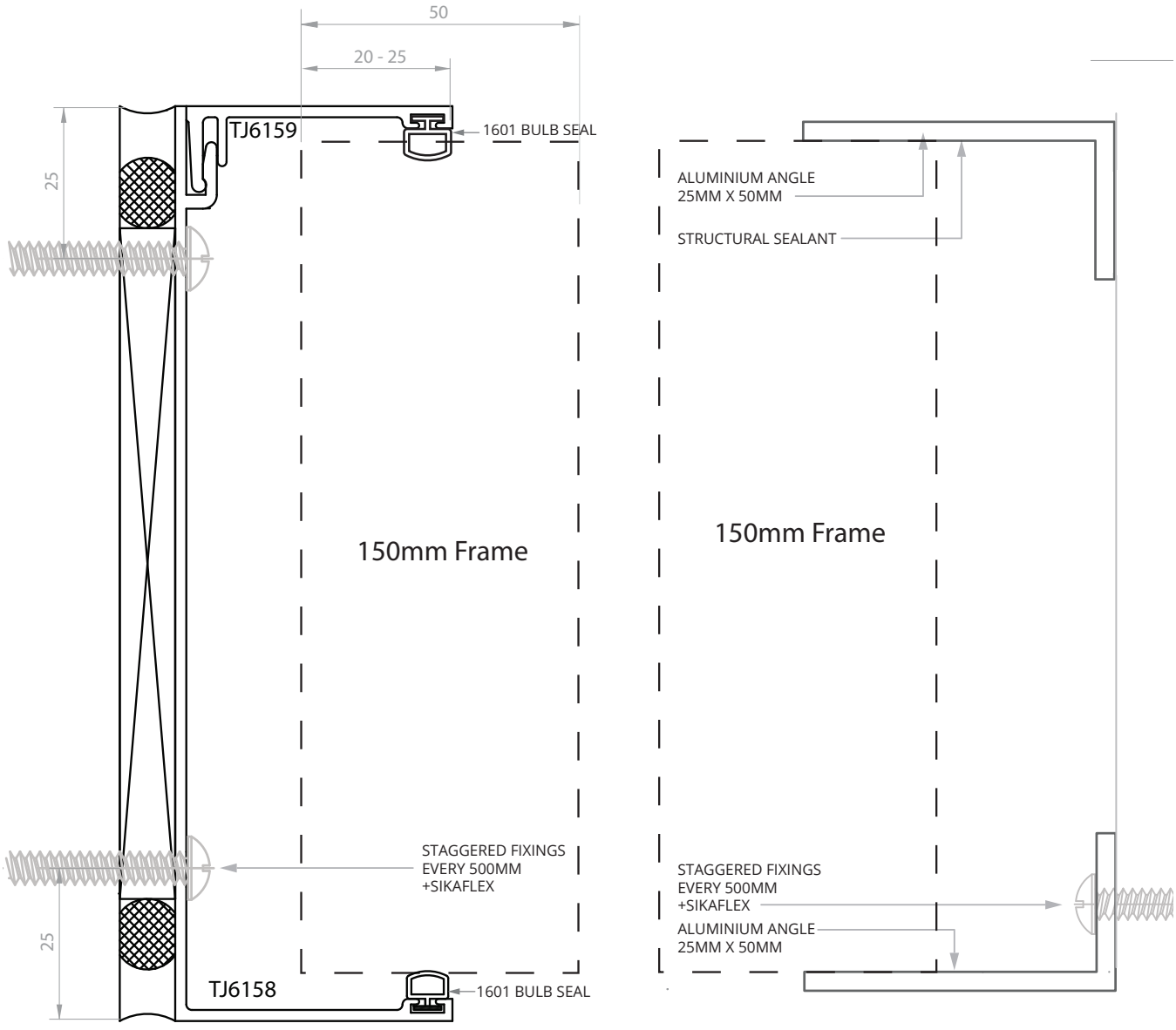
150mm SubJamb Options

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



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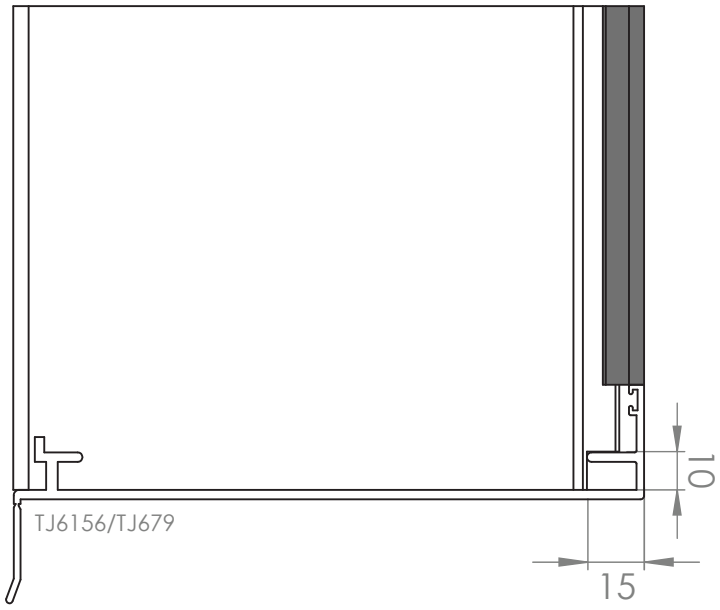
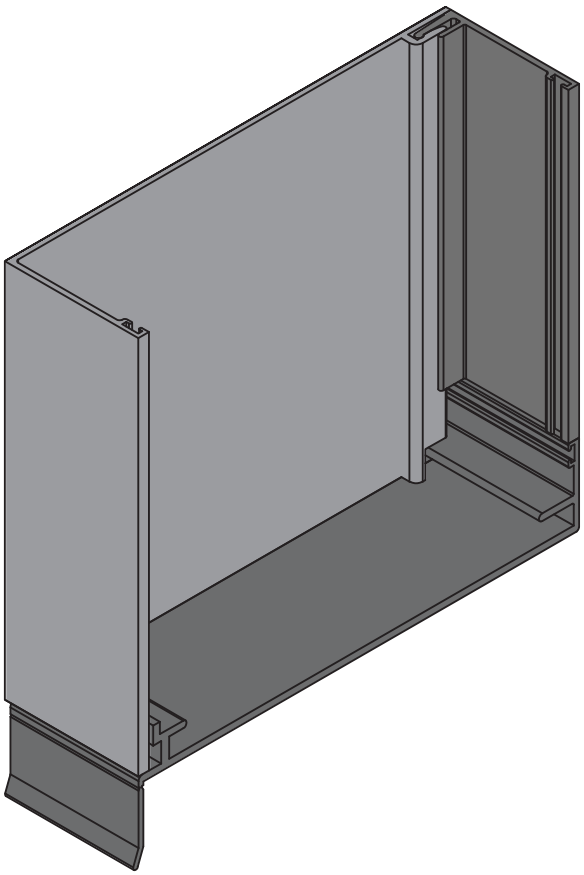
150mm Subframe Internal Bead

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

MACHINED (INTERNAL BEAD)





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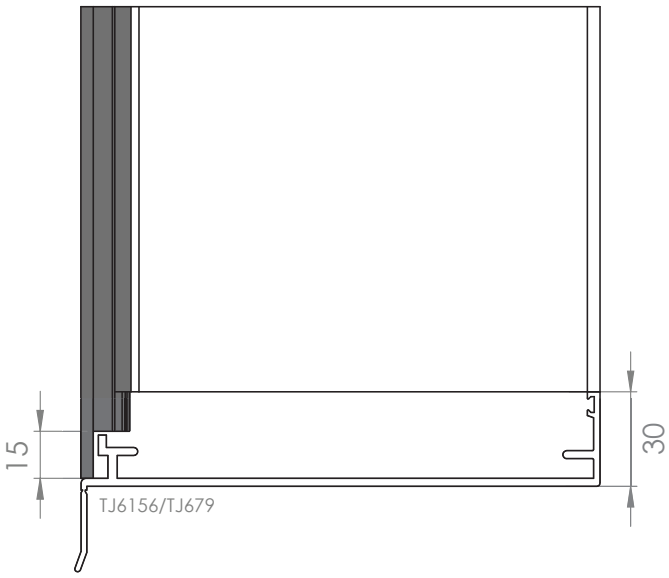
150mm Subframe External Bead

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

SQUARE CUT (EXTERNAL BEAD)



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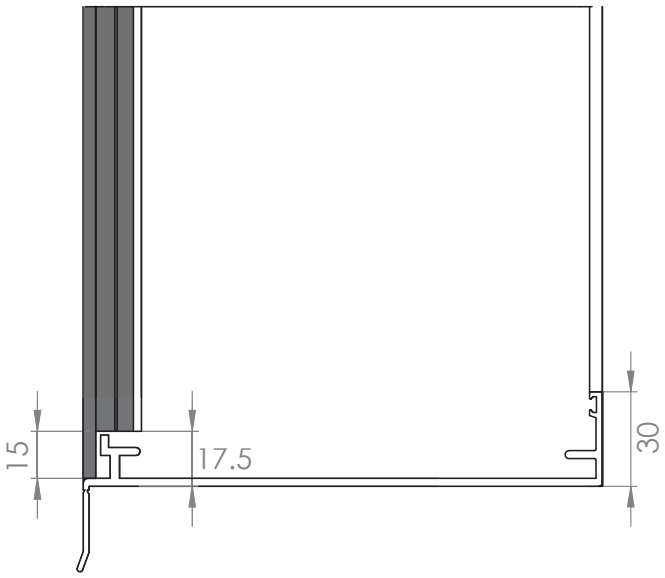

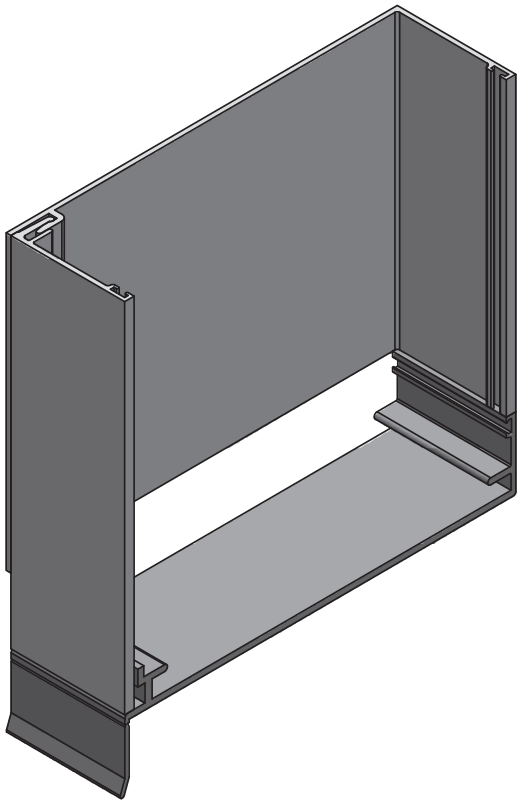

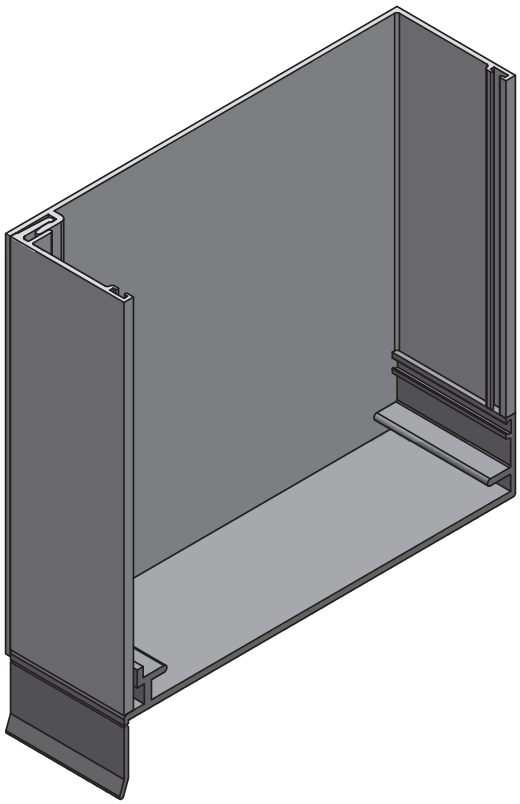

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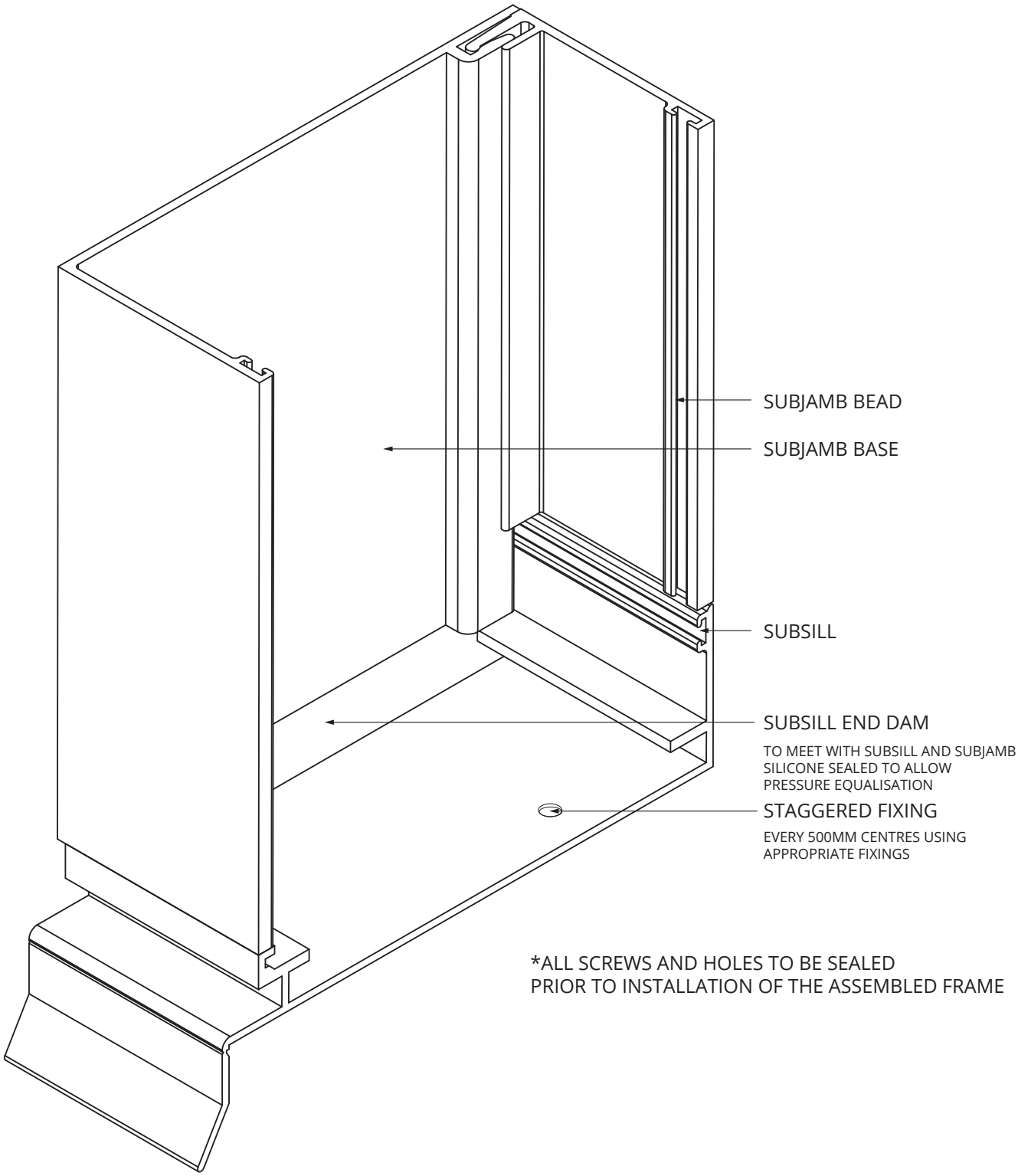
Subsill End-Dam Installation

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



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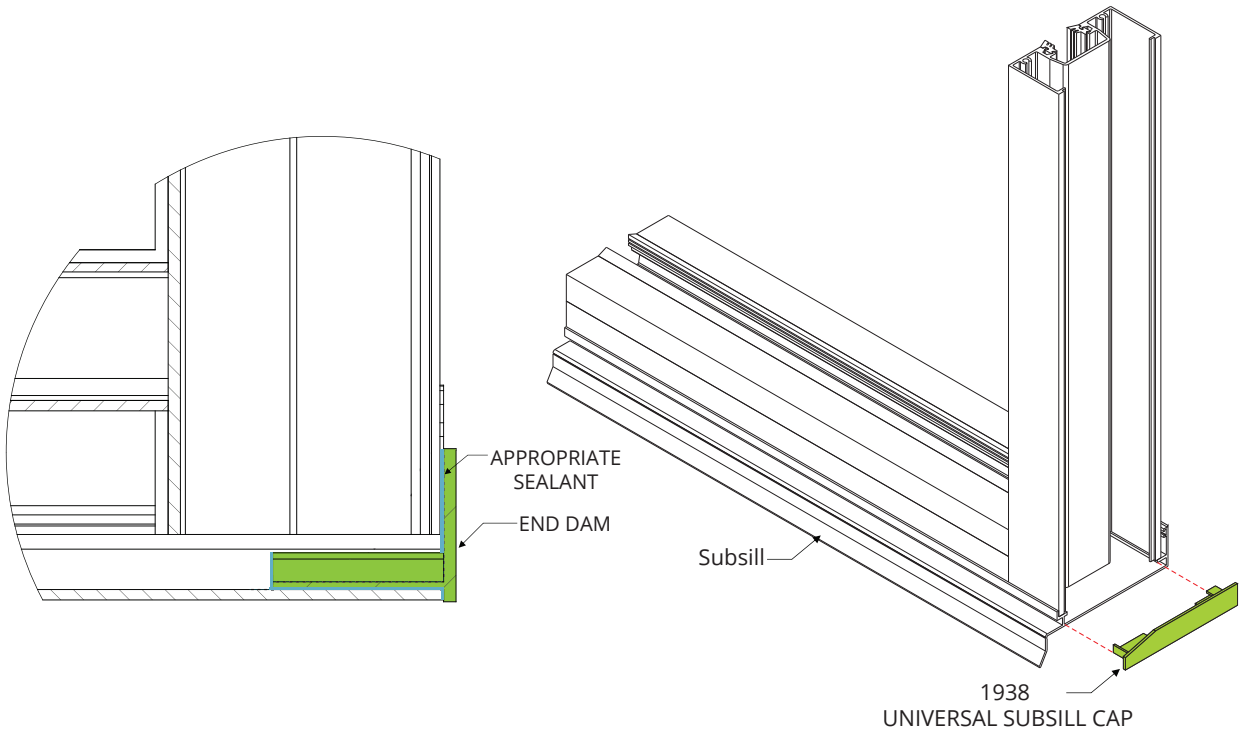
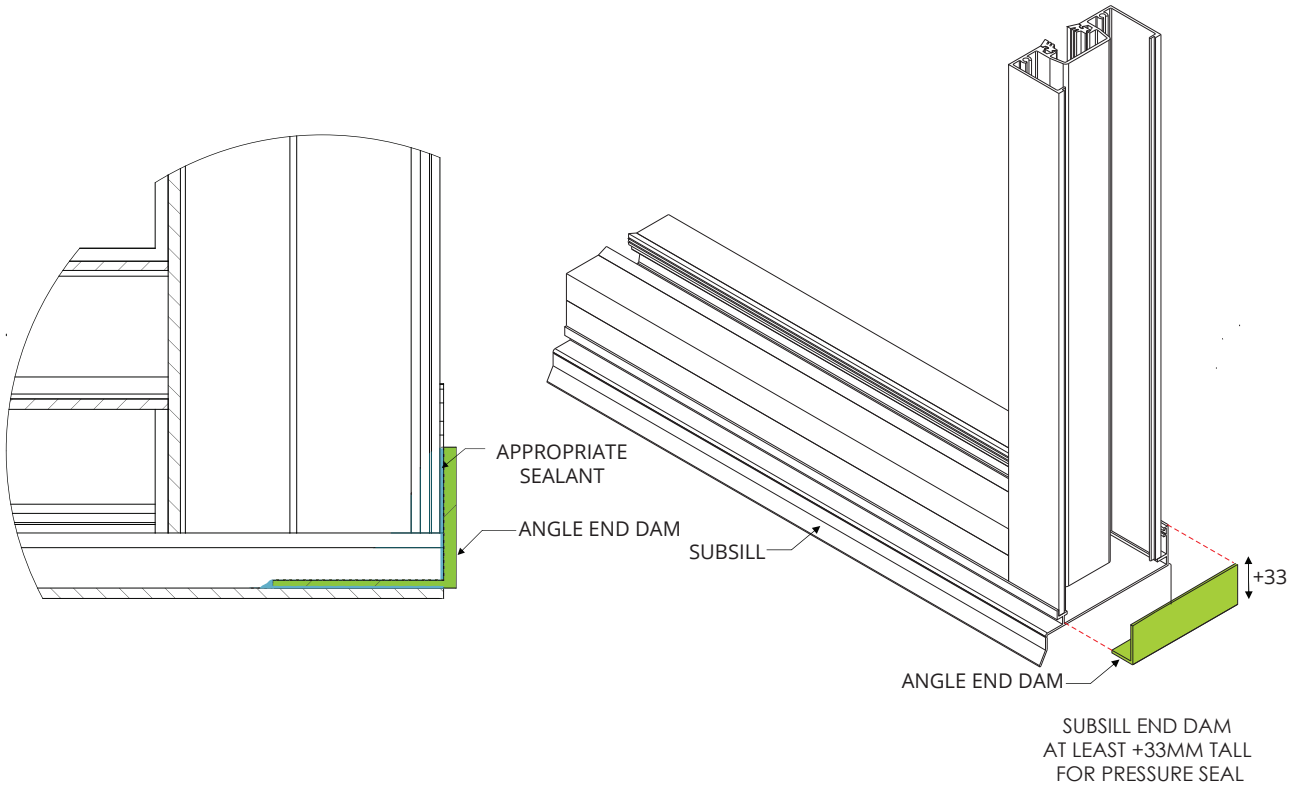
All raw joints need to be sealed with small joint sealer or foam tab option.





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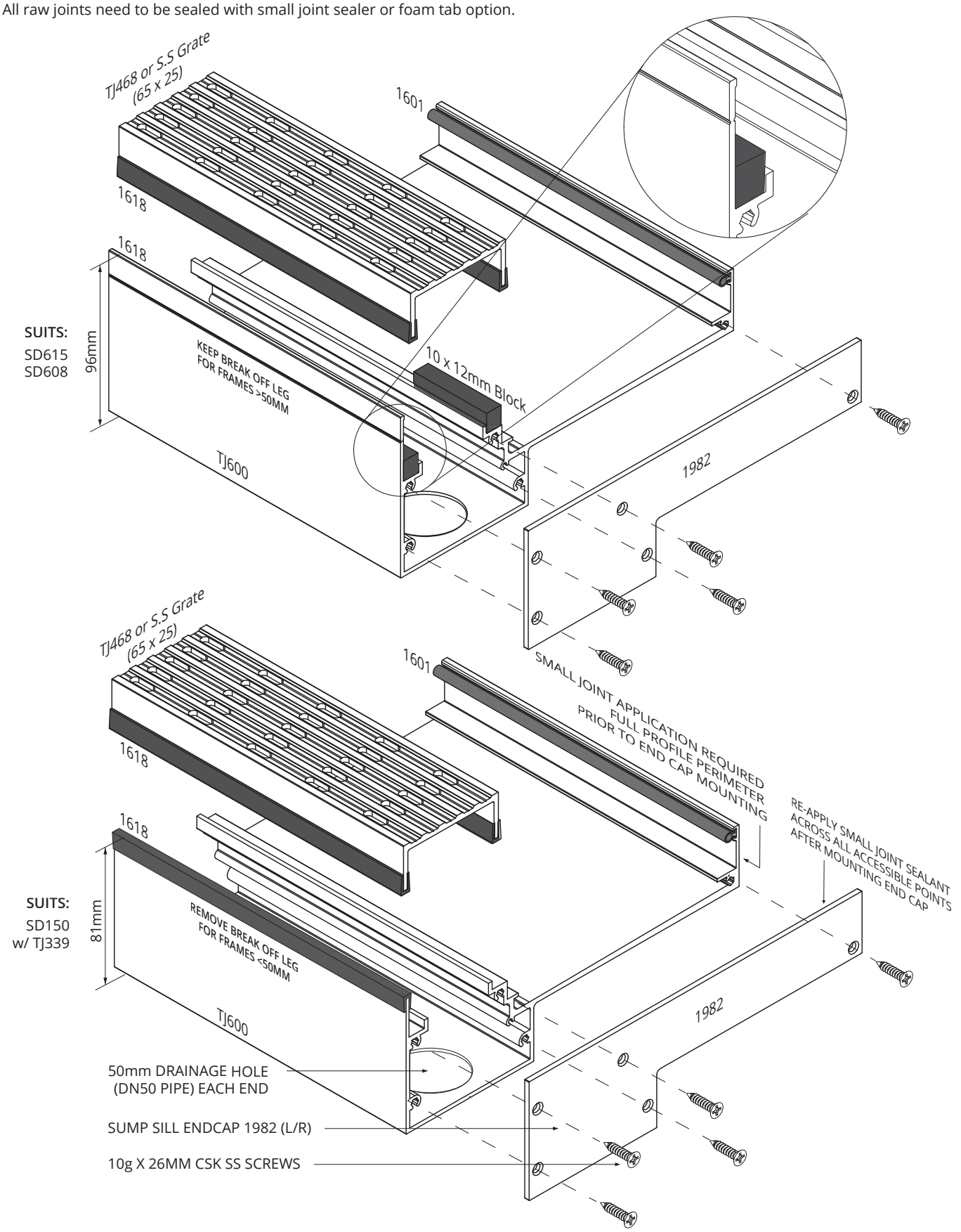
150mm Sump Sill

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



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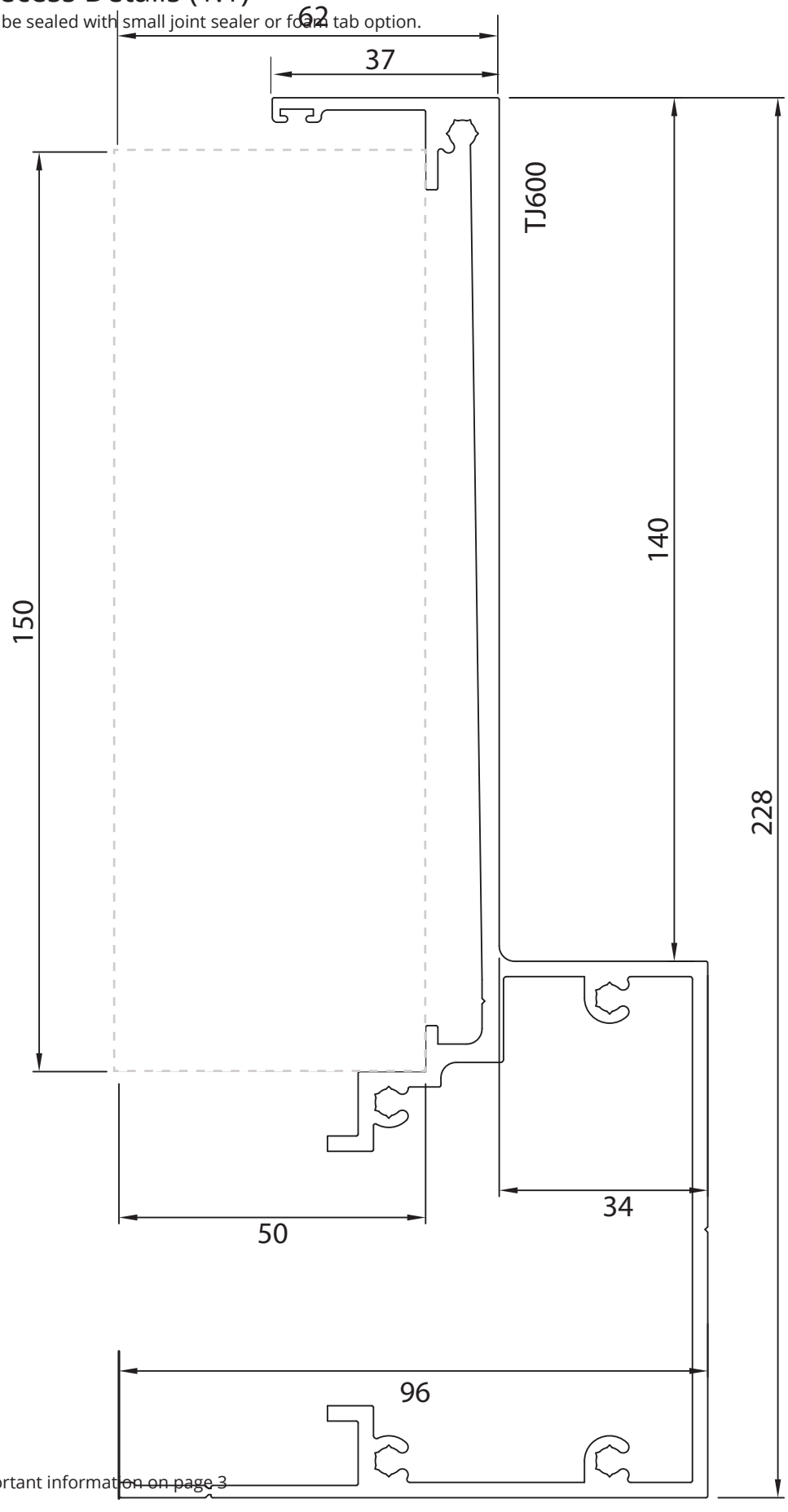
TJ600 Slab Recess Details (1:1)

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



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

Tooling

BDX-CV-FGS-AW (MK1)

100mm/150mm Front Single Glazed

DGF253	External Bead
FGS401	Main Frame
FGS403	External Bead
FGS427	Split Mullion Female
FGS428	Split Mullion Male
FGS429	H/D Split Mullion Female
FGS430	H/D Split Mullion Male
FGS601	Main Frame
FGS627	Split Mullion Female
FGS628	Split Mullion Male
FGS629	H/D Split Mullion Female
FGS630	H/D Split Mullion Male
TJ742	50mm Universal Awning/Casement Sash
TJ747	50mm Universal Awning/Casement Sash
TJ749	Awning Sash Stop

BDX-CV-FGS (MK1) Tool Set Information

Weight	900kg
Dimensions	1420 x 1140 x 800mm (H x W x D)
Outriger	Yes

BDX-CV-DGF-AW (MK1)

150 x 50mm Front Double Glazed

DGF4501	Main Frame
DGF4530	Expansion Mullion Female
DGF4531	Expansion Mullion Male
DGF6561	Main Frame
DGF6582	Expansion Mullion Female
DGF6583	Expansion Mullion Male
TJ749	Awning Sash Stop

BDX-CV-DGF (MK1) Tool Set Information

Weight	900kg
Dimensions	1420 x 1140 x 800mm (H x W x D)
Outriger	Yes

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Tooling Care and Maintenance

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

KlassicView / CityView / ClimateGuard

Tooling Operation Manual

The following guidelines should be observed to ensure safe and efficient use, longevity and quality production.
All users are responsible for the safe operation and maintenance of tools.

- Read the entire Manual before starting machinery. Machinery may cause serious injury if not correctly operated.
- Never leave machine unattended. Turn power off and wait until machine has come to a complete stop before leaving the machine unattended.
- Disconnect main power before servicing machine. Make sure all power switches are in the off position and air disconnected and make sure all moving parts have come to a complete stop.
- Keep machine well-guarded. Do not remove guards and ensure all guards are in place prior to operation.
- Electric pump will shut down to prevent further damage if there is not enough lubricant.

General Maintenance:

- Please keep tooling lubricated. We recommend using kerosene poured into a spray bottle. Lubricate all pins & blades before starting the machine. (PIC 1)
- We also recommend fortnightly cleaning and lubrication of the guide pins and bushes at the front and rear on both decks. (PIC 2)
  Note! Do not use silicon based lubricant under any circumstances as this will build up on the cutting edges of the tool and result in shorter operating life and poor quality results.

Operation:

- Check machine over before operating. Check machine for damaged parts, loose bolts, loose connections, keys and wrenches left on the machine and any other conditions that may affect the machines operation. Repair and replace damaged parts.
- Do not use extrusion that are not specified for this machine.
- Do not use burred, heavy coated or bent extrusions or force extrusions into the tool.
  Note that manufacturing tolerance on aluminium can vary. Never hit or force extrusions into die guides.
- While operating do not remove guards and always keep hands outside of the guards.
- Empty swarf trays when required to prevent build up obstructing clearance of discarded aluminium.
  Periodically, the die and punches will need sharpening. This must be carried out by experienced toolmaker.

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

Exchange or replace die:

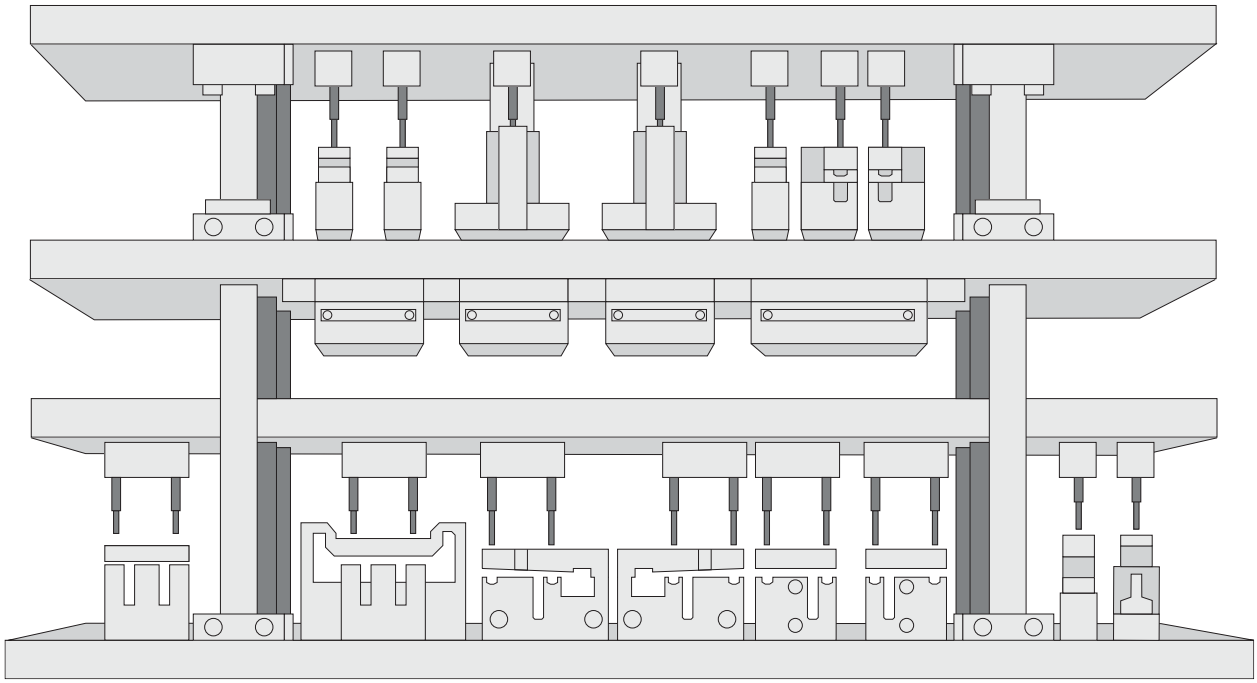
- This is only to be carried out by suitability qualified persons:

1. Switch off the machine and isolate power point. Removing front covers and swarf trays.
2. Remove top and bottom screws from the die. Carefully take out the old die block.
3. Reconnect the power and switch on the machine. Turn to INCHING MODE, press foot valve to ensure the machine desk is on lowest level.
4. Placing the new block and pins units inside and fixed back into their original positions, then release the inching mode back to operation mode.

Ordering procedure for Replacement or spare parts:

- Please provide following details to your sales representative
    - Machine serial number:
    - Port (DIE) location:
    - List of extrusion involved:
    - Take photo of the issues:

1. (PIC 1) Lubricate all dark grey areas fortnightly with kerosene



Copyright and important information on page 3

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/

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

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Release Notes

Darley Aluminium
Commercial Framing 150 x 50mm Front Single Glazed

1.Technical Manual Release Notes

This page is intended to record all changes to the 150 x 50mm Front Single Glazed technical manual pages. Changes or additions to this manual will be itemised with a brief description and date when the amendments were made. It is important that a copy of the page be issued with the update and inserted as the first page in the customers technical manual.

ISSUE	DATE	DESCRIPTION OF CHANGE	REFER TO SECTION

Darley Aluminium delivers complete, high-performance aluminium window, door and framing solutions for residential, commercial or architectural projects - combining Australian design, reliable supply, and expert support to make every project easier.

Window, Door and Framing

CityView™
Commercial Systems

High-performance commercial window, door and framing systems designed for flexibility, durability, and seamless integration into modern architectural projects.

KlassicView™
Residential Windows & Doors

Modern, versatile window and door systems that bring style, flexibility, and reliable performance to any home.

HarbourView™
Multi-fold Doors

Premium multi-fold door systems that deliver expansive openings, smooth operation, and architectural sophistication for high-end spaces.

ClimateGuard™
Thermally-broken Windows & Doors

Energy-efficient window and door systems designed to keep interiors comfortable while reducing heat transfer.

Security

ScreenGuard™
Stainless Steel Security

Advanced heavy-duty security screens that provide maximum protection without compromising visibility, airflow, or style.

PerfGuard™
Perforated Aluminium Mesh

Durable, corrosion-resistant aluminium screening that combines security, strength, and design versatility for any application.

Outdoor Screening and Enclosure

ScreenView™
Fly Screens & Fly Doors

Durable, all-weather enclosures that let you enjoy open-air living with protection from insects and the elements.

ScreenSmart™
Easy-to-install Screening

A sleek, easy-to-install screening solution that enhances privacy and style across any space.

What sets Darley Aluminium apart?

- **Complete Solutions -** Everything you need from system to support that simplifies specification, fabrication, and installation.
- **Australian Designed -** Built for local conditions and standards, delivering lasting quality and compliance.
- **Proven Reliability -** Trusted for over 30 years with a national distribution network delivering consistent supply and dependable service

DARLEY ALUMINIUM

Darley Aluminium understands how important it is to receive trusted solutions, quality products, and reliable supply. That's why we are committed to delivering high standards and friendly, dependable service you can rely on.

Contact your local Darley Aluminium distributor or fabricator today.

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