

100mm Front Double Glazed

TECHNICAL MANUAL



SLS - 2140Pa
ULS - 3200Pa



Air - OL
Water - 750Pa



Acoustic - Rw 41

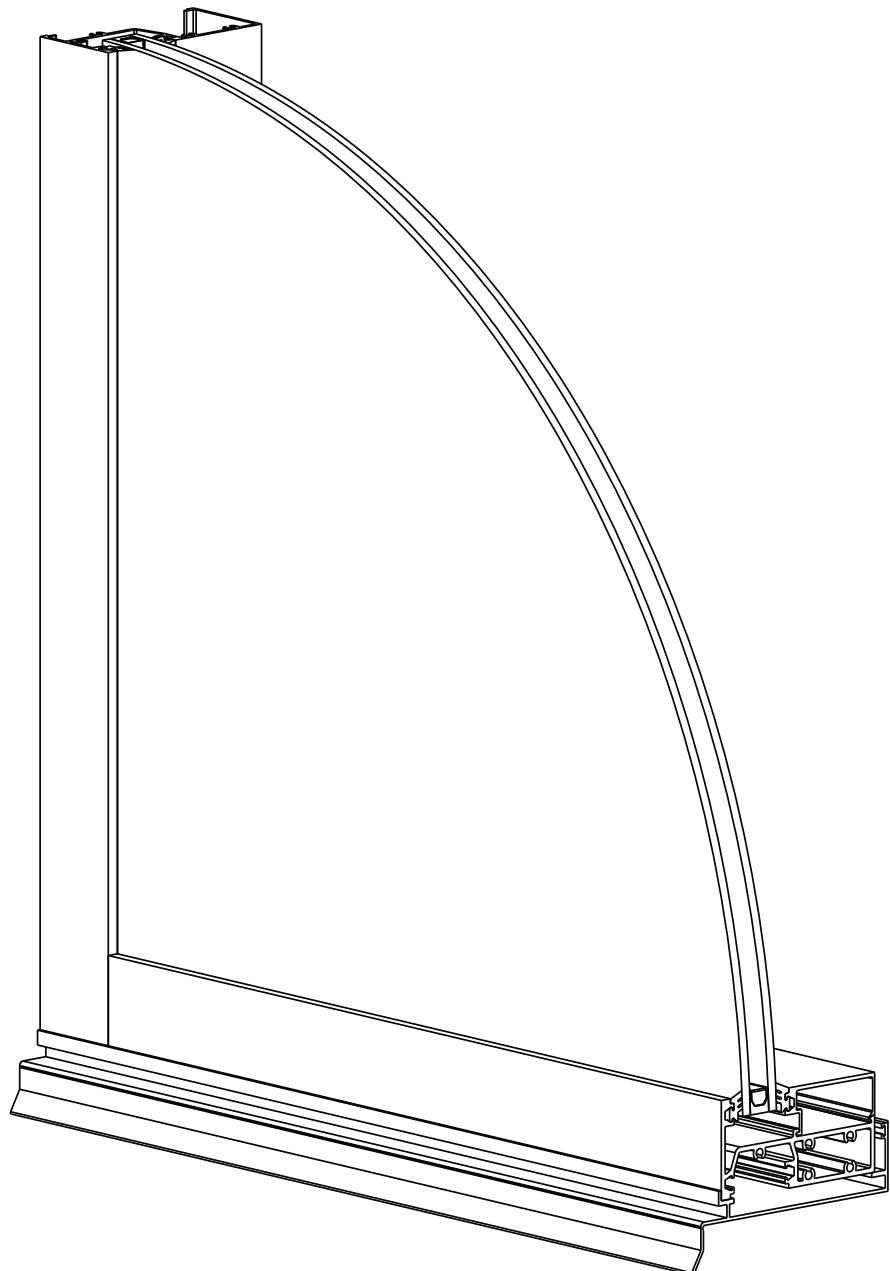


Fire Rating Tested
- BAL 40



Double Glazed

U VALUE	2.34 to 3.59
SHGC	0.14 to 0.70
TVW	0.06 to 0.72



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

JUN 2026 | VERSION 1.0



Max
28mm



Subsill & Sump
Draining



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 Occasionally, some errors or outdated information may require rectification - Darley Aluminium takes no responsibility for any loss or damage as a result of these errors.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

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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Welcome

Overview

Darley's 100 x 50mm Front Double 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 to shopping centres, office, show-rooms and commercial buildings. It is also widely used in high-end residential developments and apartments. Framing options include hinged or sliding door combinations and can be incorporated with a variety of awnings/casements. With the use of reducers, glazing range is available for 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 28mm.
- Compatible with other Darley Aluminium Commercial and Residential 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

100 x 50mm Front Double Glazed Framing							
Max Tested Size	SLS	ULS	Water	Air Infiltration	Acoustic	BAL	Glass
3000mm H x 1600mm W	2140Pa	3500Pa	850Pa	+ 0.07L/s.m ² - 0.00L/s.m ²	41Rw	BAL40	28mm

*Estimated based on 100 x 50mm front double glazed frame

See Performance Section for more detail.

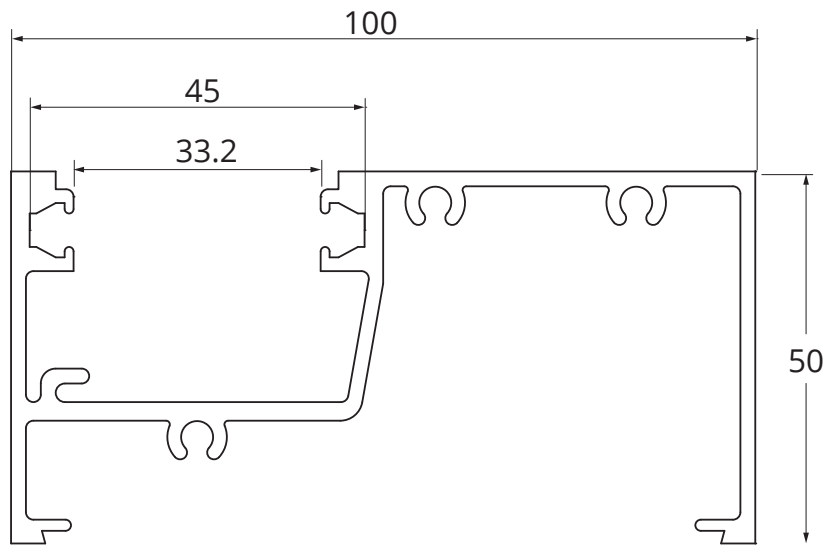
Size limitations are governed by design intent, glass selection and local wind load and deflection requirements. For further technical assistance and fabricator selection contact Darley Aluminium. An Engineer should be consulted to ensure selected framing meets the requirements as set out in the relevant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

**DGF4501**

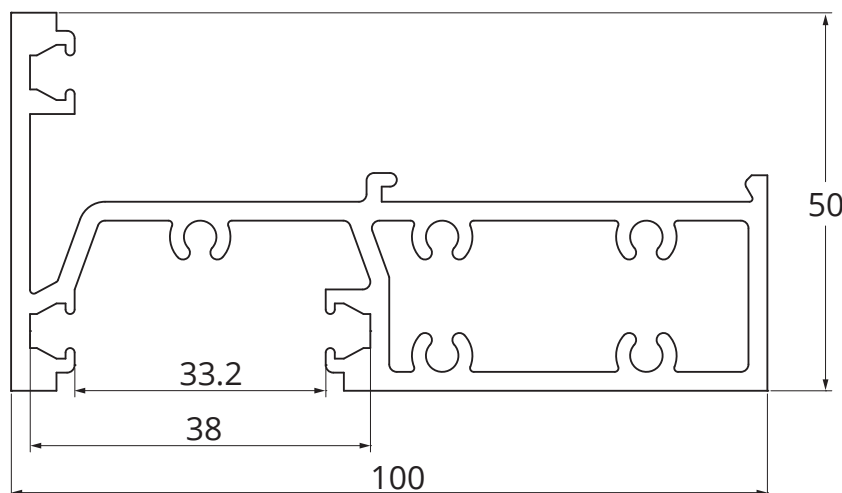
Frame

$$I_{xx} = 151.4 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 816.6 \times 10^3 \text{ mm}^4$$

A.P. = 595 mm

P.P. = - mm

**DGF4508**

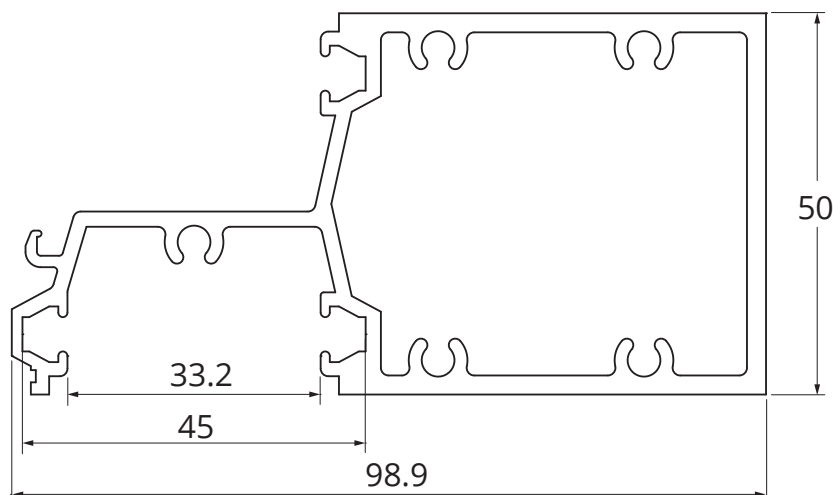
Internal Bead Sill

$$I_{xx} = 168.7 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 1732.8 \times 10^3 \text{ mm}^4$$

A.P. = 459 mm

P.P. = _ mm

**DGF4571**

DG Sill/Transom

$$I_{xx} = 254.08 \times 10^3 \text{ mm}^4$$

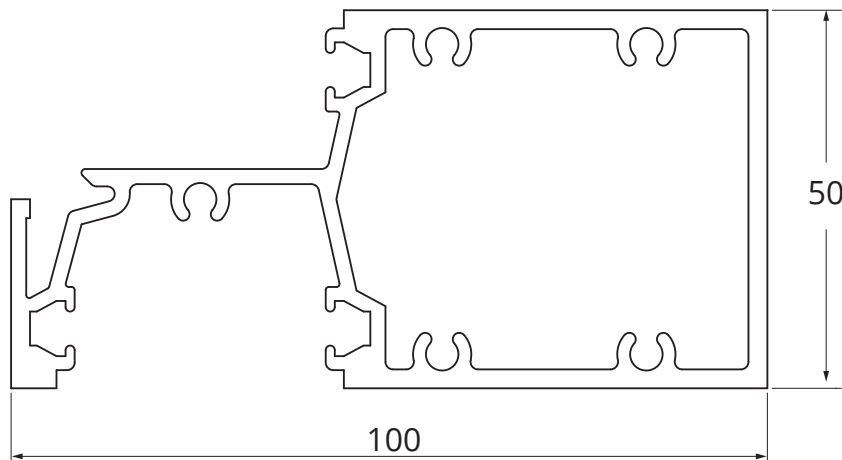
$$I_{yy} = 650.08 \times 10^3 \text{ mm}^4$$

A.P. = 595 mm

P.P. = _ mm

Mainframe Profiles

Scale 1:1



DGF4572

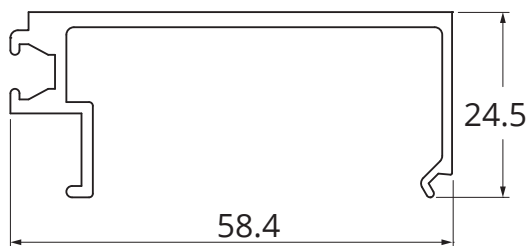
DG Sill/Transom

$$I_{xx} = 265.63 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 828.51 \times 10^3 \text{ mm}^4$$

A.P. = 441 mm

P.P. = _ mm



DGF4509

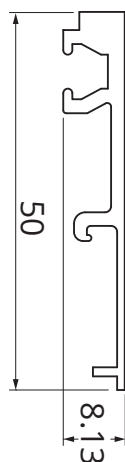
Internal Glazing Bead

$$I_{xx} = 10.8 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 92 \times 10^3 \text{ mm}^4$$

A.P. = 237 mm

P.P. = 100 mm



FGS412

Face Bead

$$I_{xx} = 159.2 \times 10^3 \text{ mm}^4$$

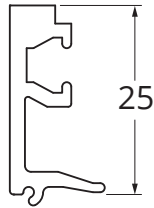
$$I_{yy} = 188.6 \times 10^3 \text{ mm}^4$$

A.P. = 574 mm

P.P. = 100 mm

Mainframe Profiles

Scale 1:1

**FGS403**

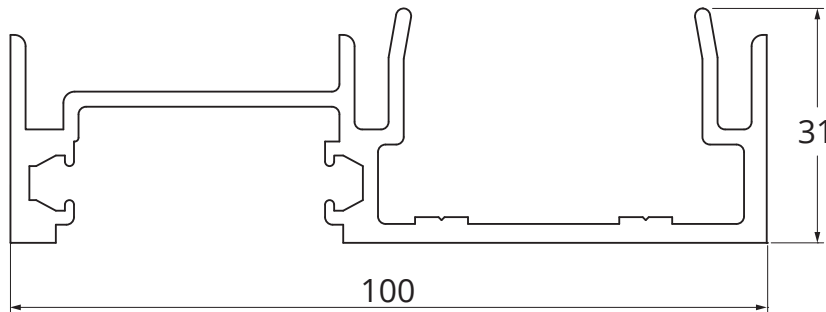
External Bead
(suits FGS402)

$$I_{xx} = 7.69 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 0.85 \times 10^3 \text{ mm}^4$$

A.P. = 105 mm

P.P. = 50 mm

**DGF4527**

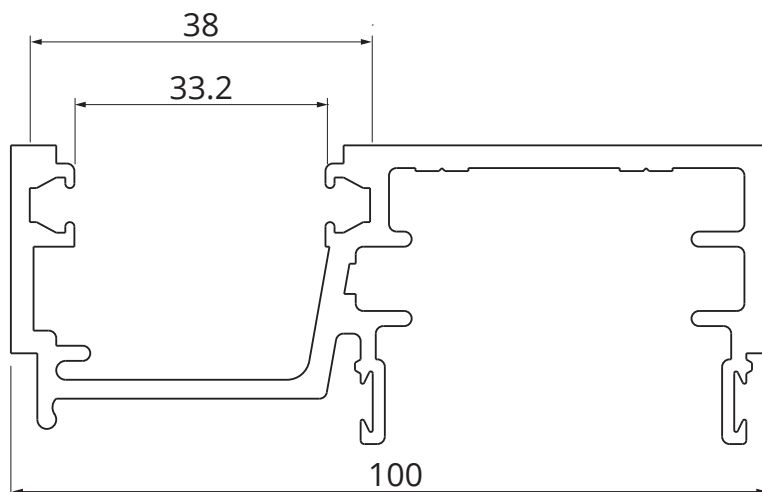
Expansion Mullion
(Female)

$$I_{xx} = 41.9 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 651.4 \times 10^3 \text{ mm}^4$$

A.P. = 472 mm

P.P. = 125 mm

**DGF4528**

Expansion Mullion
(Male)

$$I_{xx} = 102.7 \times 10^3 \text{ mm}^4$$

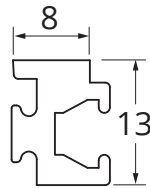
$$I_{yy} = 850.9 \times 10^3 \text{ mm}^4$$

A.P. = 369 mm

P.P. = 121 mm

Additional Profiles

Scale 1:1

**CDG4308**

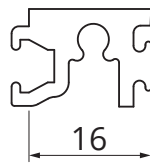
Single Glaze Reducer

$$I_{xx} = 2.62 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 0.787 \times 10^3 \text{ mm}^4$$

A.P. = 216 mm

P.P. = _ mm

**DGF4510**

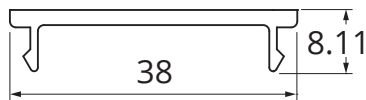
Single Glazed Reducer

$$I_{xx} = 33.2 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 70.4 \times 10^3 \text{ mm}^4$$

A.P. = 216 mm

P.P. = _ mm

**DGF4506**

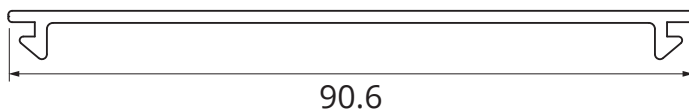
Pocket Infill

$$I_{xx} = 0.28 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 13.2 \times 10^3 \text{ mm}^4$$

A.P. = 103 mm

P.P. = _ mm

**TJ305**Flush Adaptor
Fits FGS401

$$I_{xx} = 0.25 \times 10^3 \text{ mm}^4$$

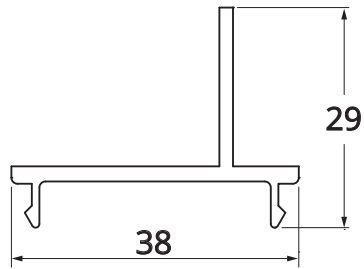
$$I_{yy} = 133.8 \times 10^3 \text{ mm}^4$$

A.P. = 206.1 mm

P.P. = 94 mm

Subframing Profiles

Scale 1:1

**DGF4516**

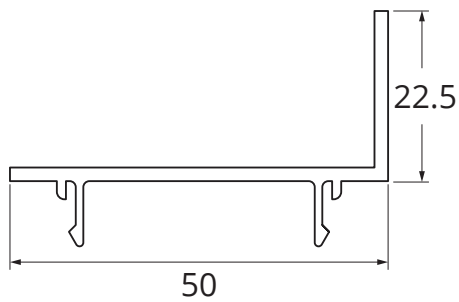
Awning Stop

$$I_{xx} = 4.7 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 16.5 \times 10^3 \text{ mm}^4$$

A.P. = 145 mm

P.P. = 100 mm

**DGF4519**

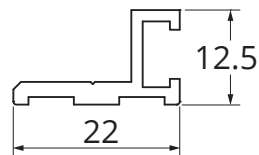
50mm Awning Stop

$$I_{xx} = 4.7 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 16.5 \times 10^3 \text{ mm}^4$$

A.P. = 187 mm

P.P. = 100 mm

**JM2809**

Door Stop

$$I_{xx} = 0.74 \times 10^3 \text{ mm}^4$$

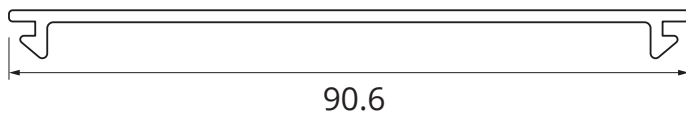
$$I_{yy} = 3.2 \times 10^3 \text{ mm}^4$$

A.P. = 86 mm

P.P. = 100 mm

Subframing Profiles

Scale 1:1

**TJ305**

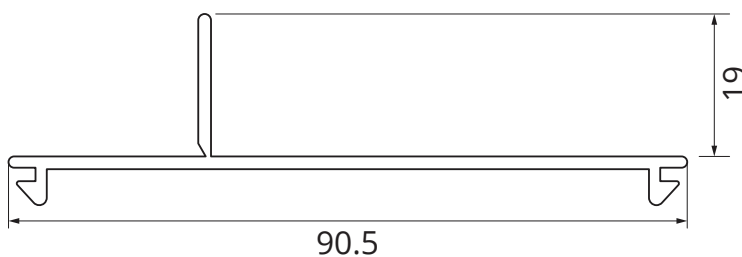
Flush Adaptor

$$I_{xx} = 0.25 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 133.8 \times 10^3 \text{ mm}^4$$

A.P. = 206.1 mm

P.P. = 94 mm

**TJ342**

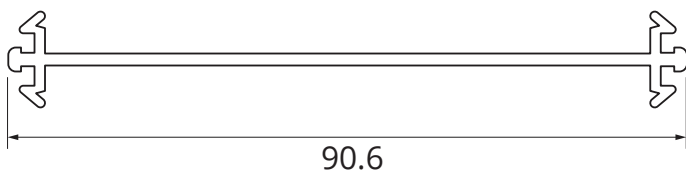
Reveal Adaptor

$$I_{xx} = 4.31 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 150.12 \times 10^3 \text{ mm}^4$$

A.P. = 246 mm

P.P. = - mm

**TJ385**

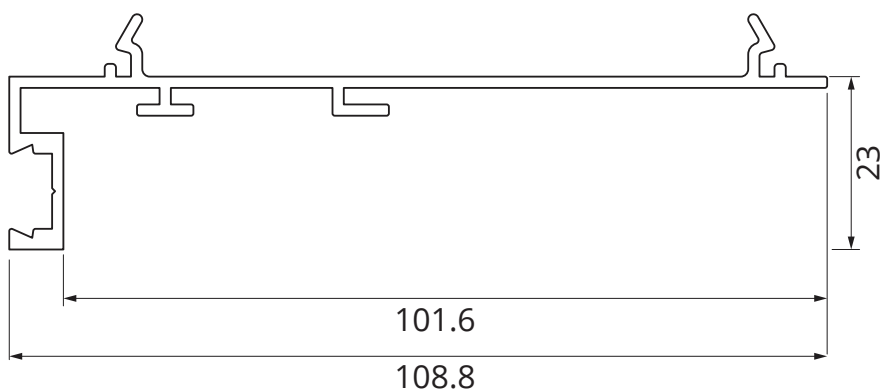
Back-to-Back Adaptor

$$I_{xx} = 0.66 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 177.69 \times 10^3 \text{ mm}^4$$

A.P. = 247 mm

P.P. = - mm

**RWM053**

Concealed Face Fix Adaptor

$$I_{xx} = 11.89 \times 10^3 \text{ mm}^4$$

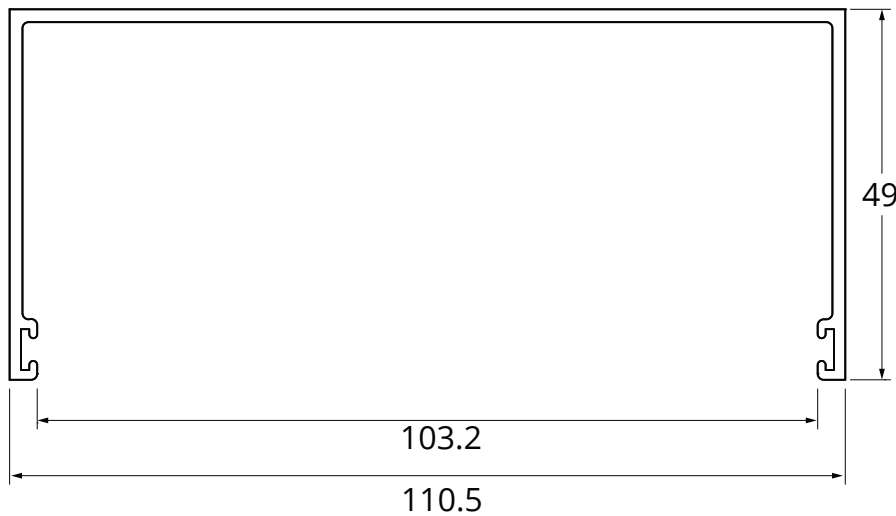
$$I_{yy} = 348.53 \times 10^3 \text{ mm}^4$$

A.P. = 369 mm

P.P. = - mm

Subframing Profiles

Scale 1:1

**TJ309**

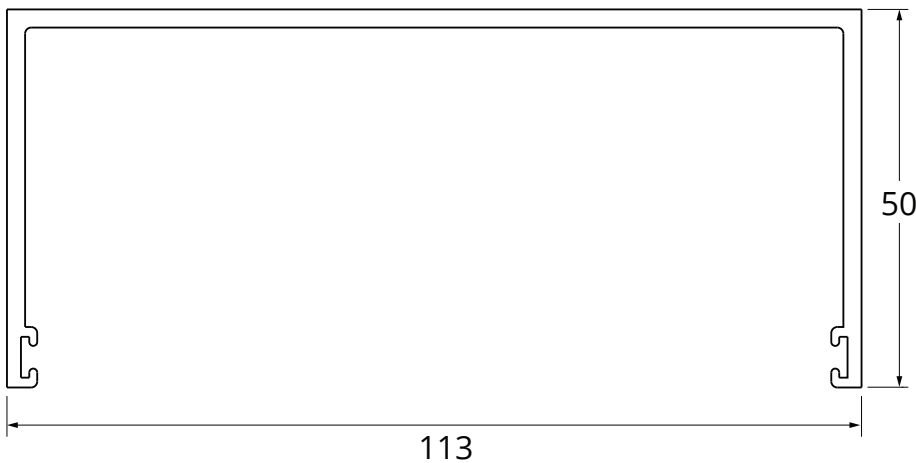
100mm Sub-Head
49mm Tall

$$I_{xx} = 101.152 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 754.640 \times 10^3 \text{ mm}^4$$

A.P. = 441 mm

P.P. = 106 mm

**TJ392**

100mm Sub Head
50mm Tall

$$I_{xx} = 127.86 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 1005.45 \times 10^3 \text{ mm}^4$$

A.P. = 442 mm

P.P. = 108 mm

**TJ431**

100mm Two Part Sub
Head 50mm Tall

$$I_{xx} = 69.16 \times 10^3 \text{ mm}^4$$

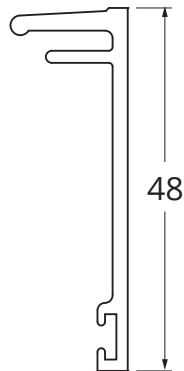
$$I_{yy} = 592.76 \times 10^3 \text{ mm}^4$$

A.P. = 371 mm

P.P. = - mm

Subframing Profiles

Scale 1:1

**TJ6159**

Sub Head/Jamb Cover
50mm Tall

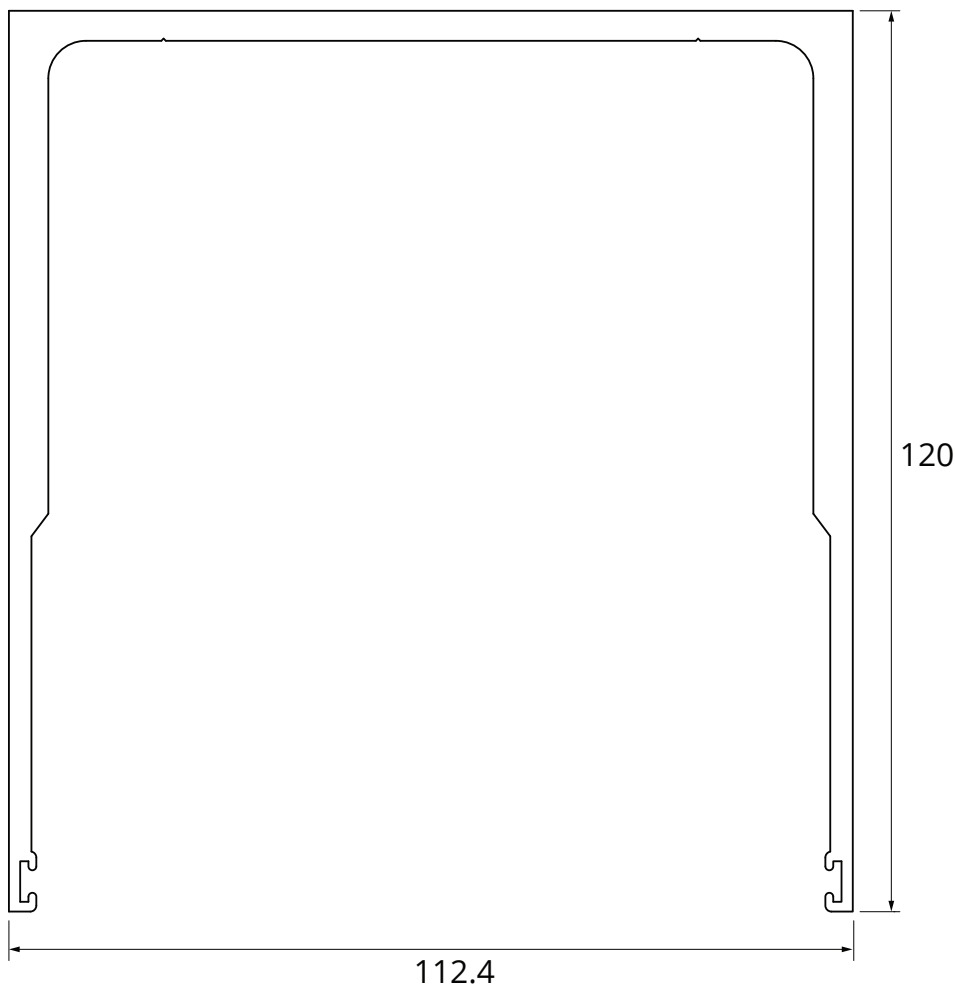
*(Covers can suit 100, 150,
165 framing, Thermal &
non-thermal)*

$$I_{xx} = 35.87 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 2.07 \times 10^3 \text{ mm}^4$$

A.P. = 155 mm

P.P. = 100 mm

**TJ520**

100mm Sub Head
120mm Deep

$$I_{xx} = 1823.1 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 3343.96 \times 10^3 \text{ mm}^4$$

A.P. = 708 mm

P.P. = 246 mm

Subframing Profiles

Scale 1:1

**TJ692**

100mm Sub Head
80mm Deep

$$I_{xx} = 571.9 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 1945.7 \times 10^3 \text{ mm}^4$$

A.P. = 557 mm

P.P. = 168 mm

**TJ368**

STD Subsill 6mm
Setback Slotted

$$I_{xx} = 40.20 \times 10^3 \text{ mm}^4$$

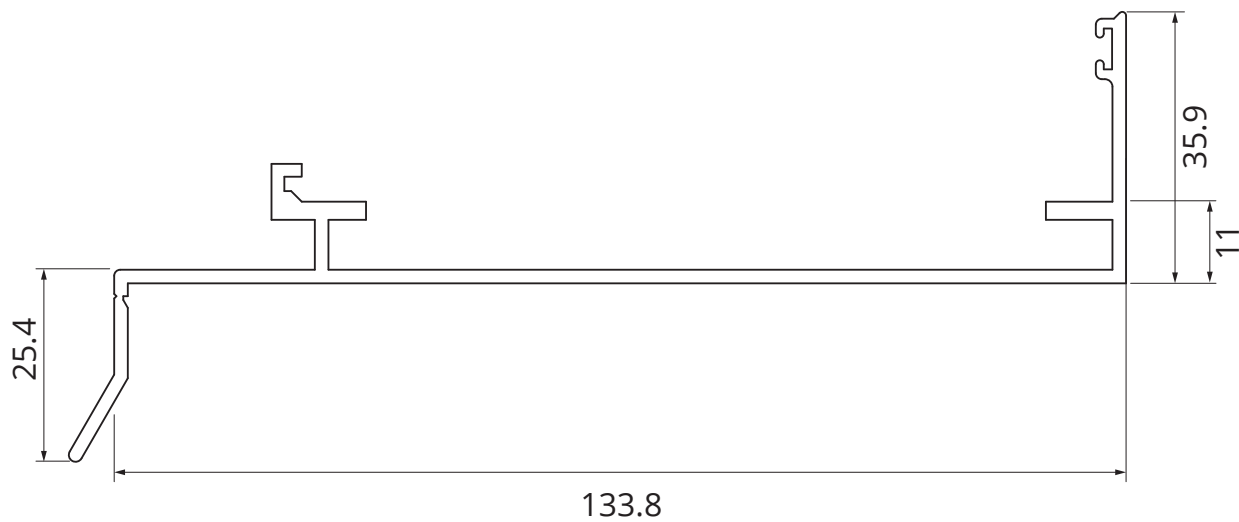
$$I_{yy} = 790.13 \times 10^3 \text{ mm}^4$$

A.P. = 422 mm

P.P. = 100 mm

Subframing Profiles

Scale 1:1



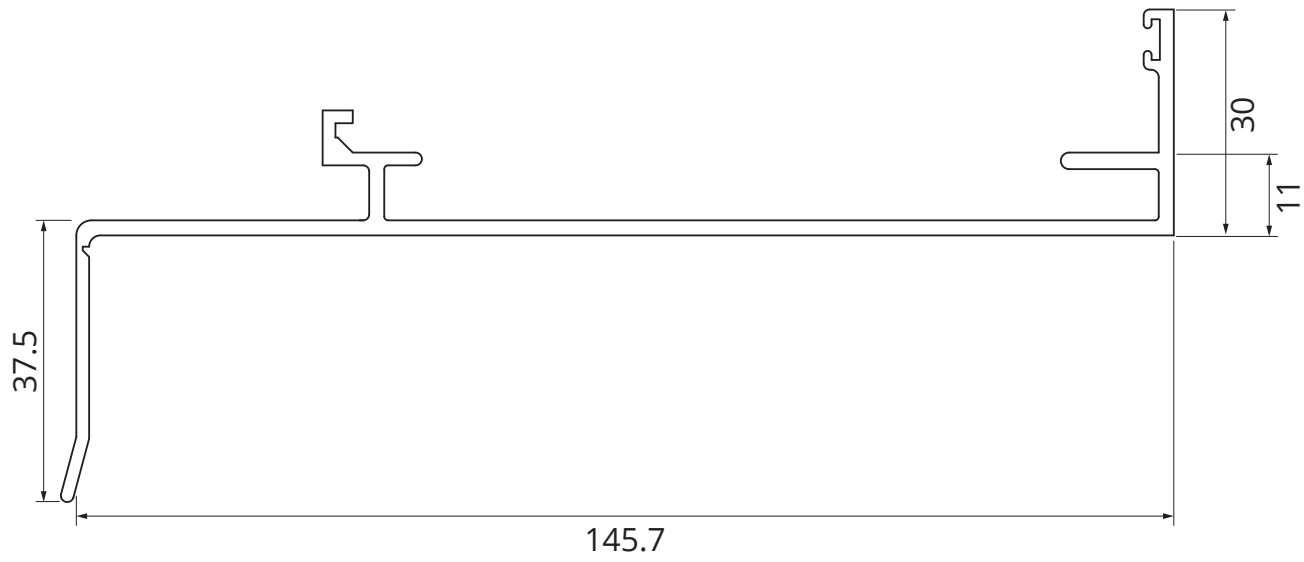
TJ259

25mm Set Back
Slotted Subsill

$$I_{xx} = 43.01 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 1002.10 \times 10^3 \text{ mm}^4$$

A.P. = 465 mm
P.P. = 115 mm



TJ432

35mm Set Back
Slotted Subsill

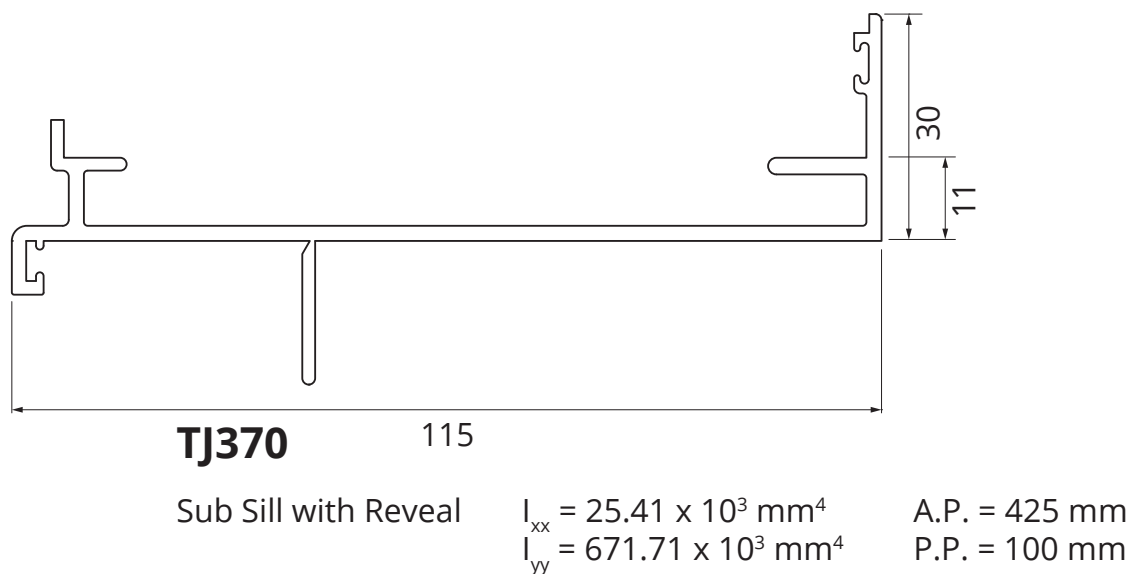
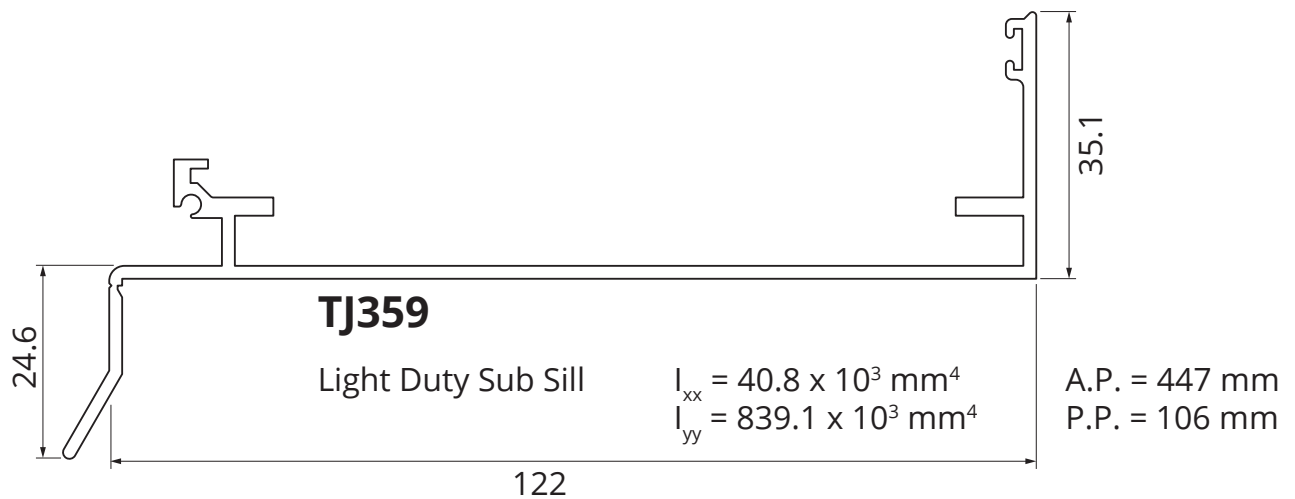
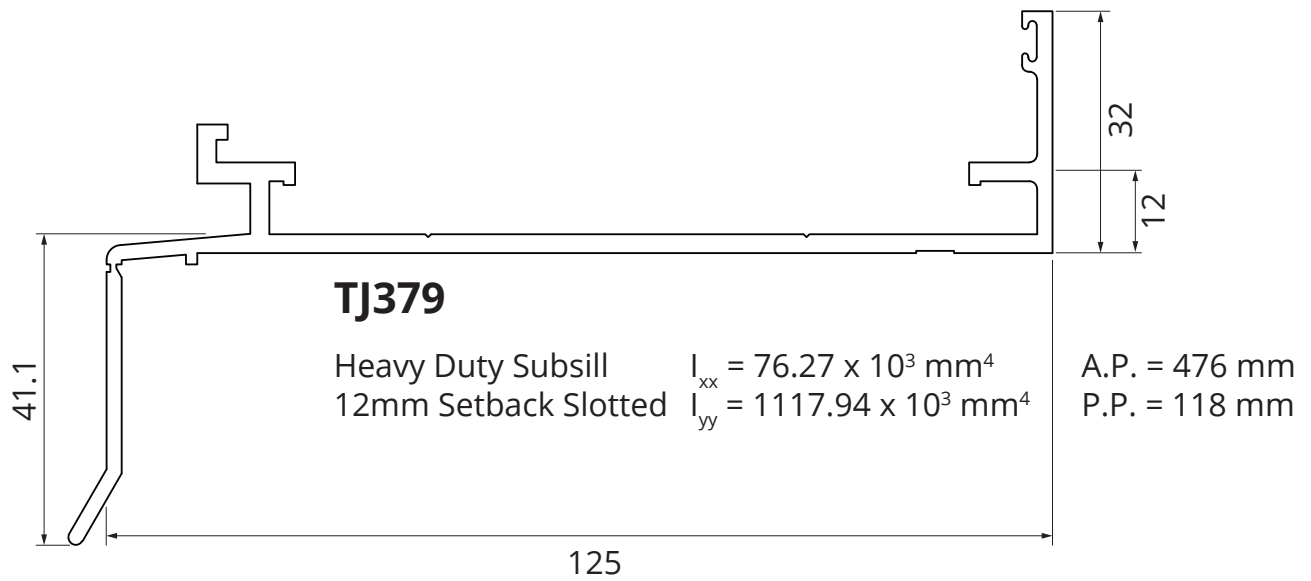
$$I_{xx} = - \times 10^3 \text{ mm}^4$$

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

A.P. = 498 mm
P.P. = 128 mm

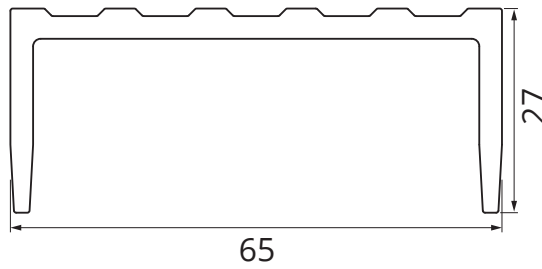
Subframing Profiles

Scale 1:1



Subframing Profiles

Scale 1:1

**TJ468**

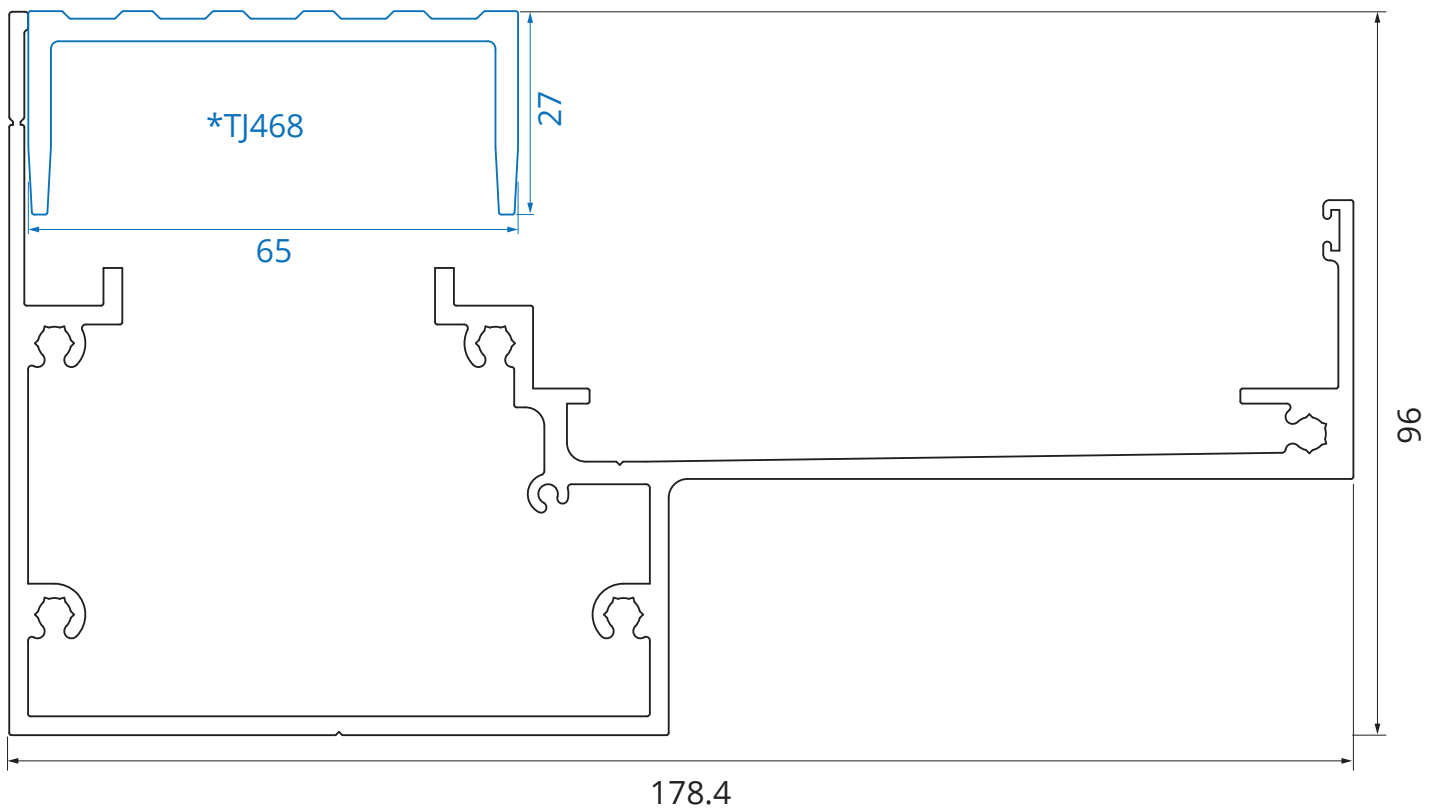
Drainage Grate (Fits TJ400 & TJ600)

$$I_{xx} = 21.32 \times 10^3 \text{ mm}^4$$

$$I_{yy} = 214.23 \times 10^3 \text{ mm}^4$$

A.P. = 232 mm

P.P. = 150 mm

**TJ400**

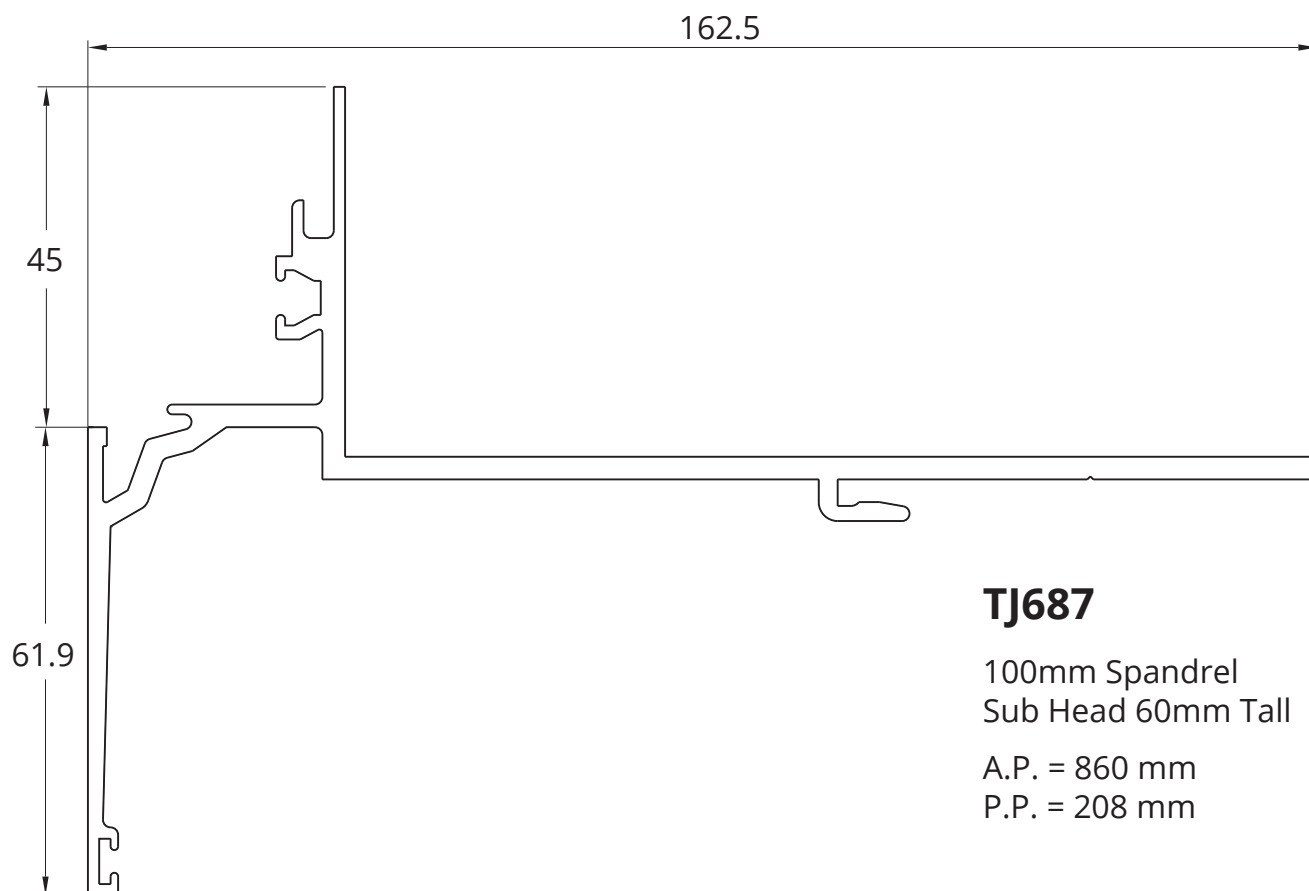
100mm Sump Sill

A.P. = 935 mm

P.P. = 357 mm

Spandrel Subframing Profiles

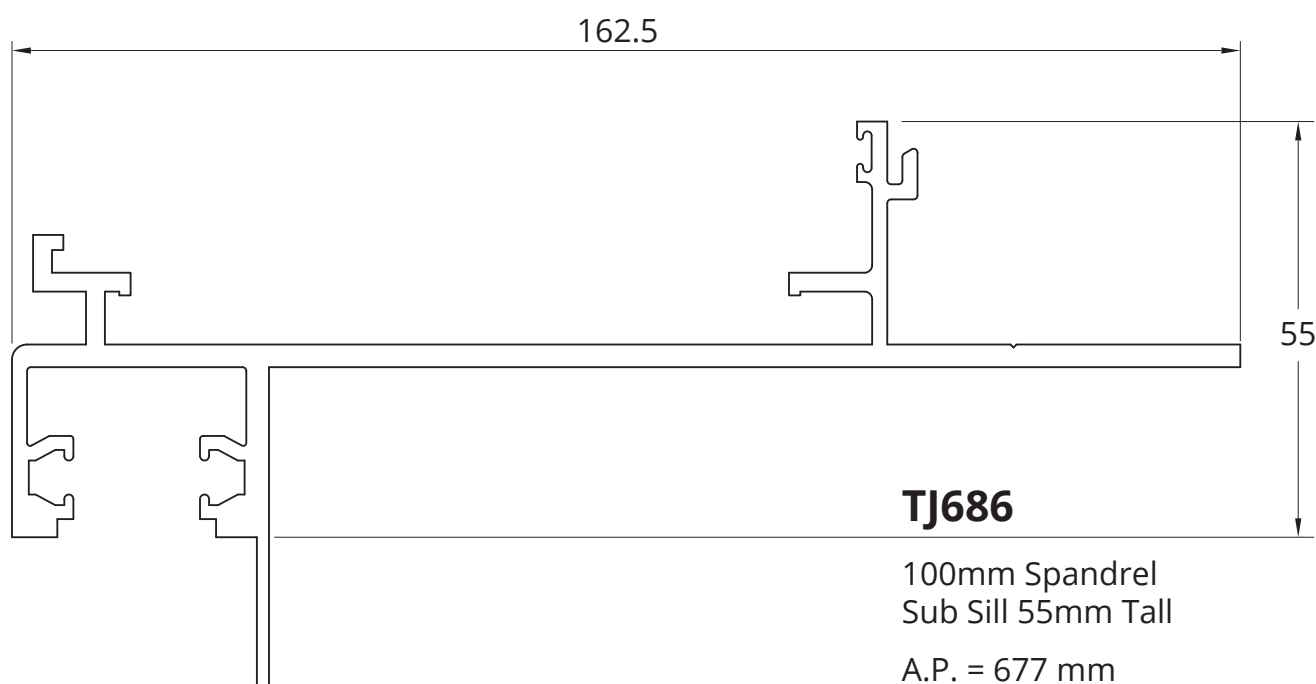
Scale 1:1

**TJ687**

100mm Spandrel
Sub Head 60mm Tall

A.P. = 860 mm

P.P. = 208 mm

**TJ686**

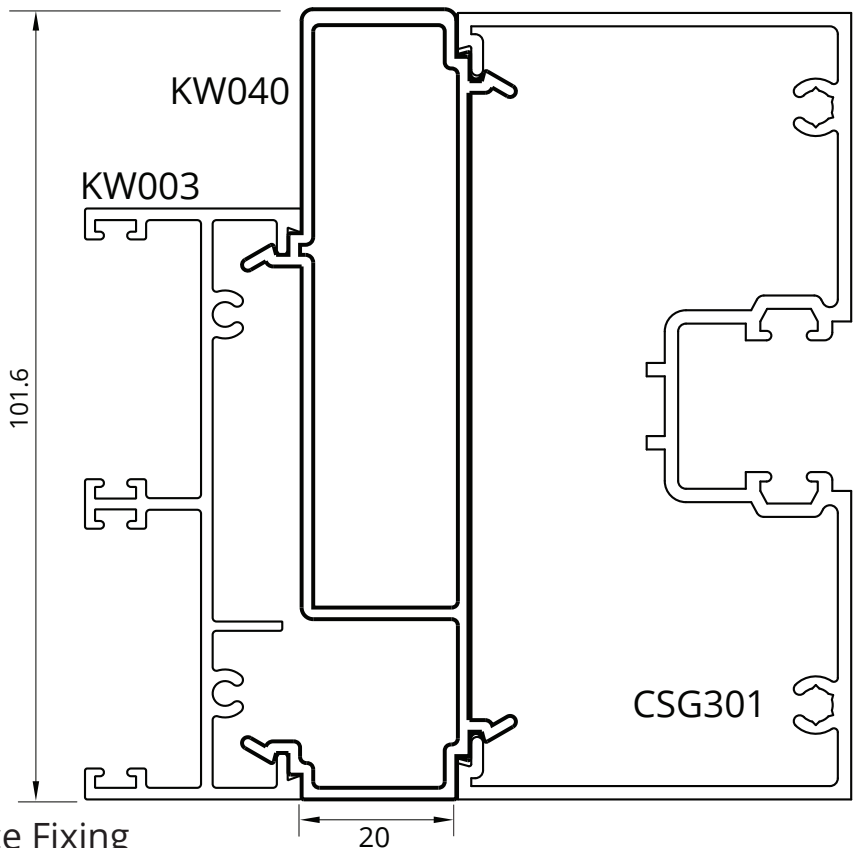
100mm Spandrel
Sub Sill 55mm Tall

A.P. = 677 mm

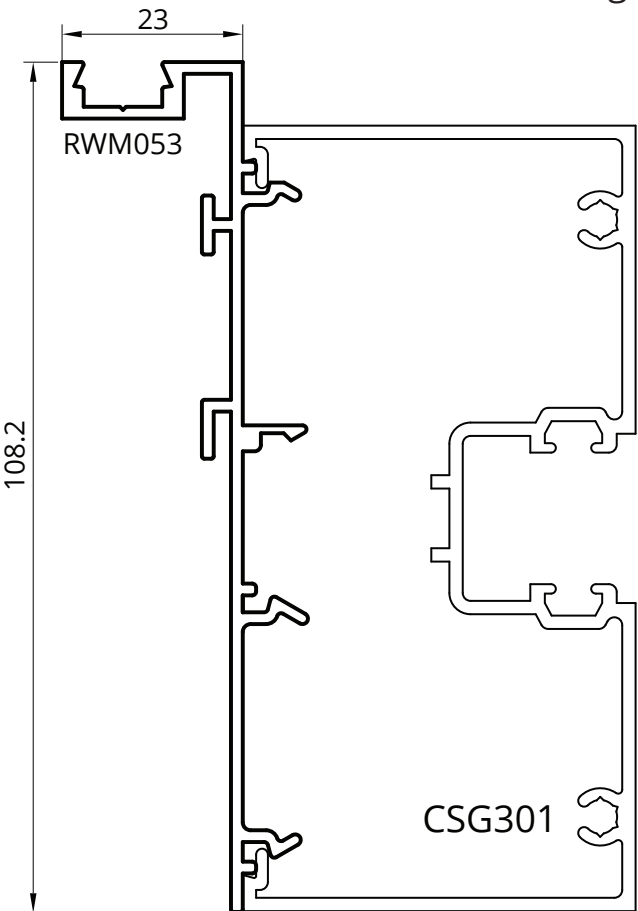
P.P. = 213 mm

CityView 100mm Adaptors

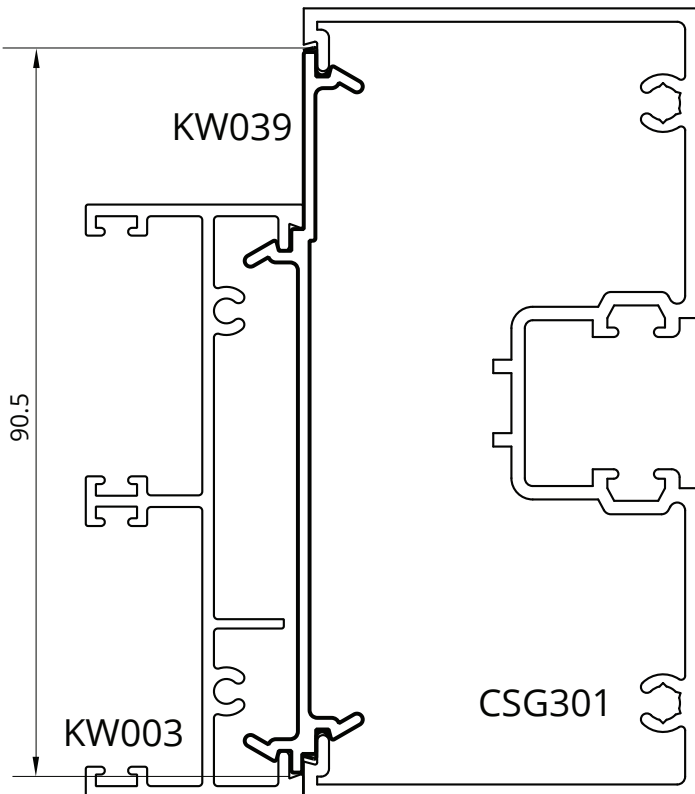
KW040 76mm to 100mm Box Joiner



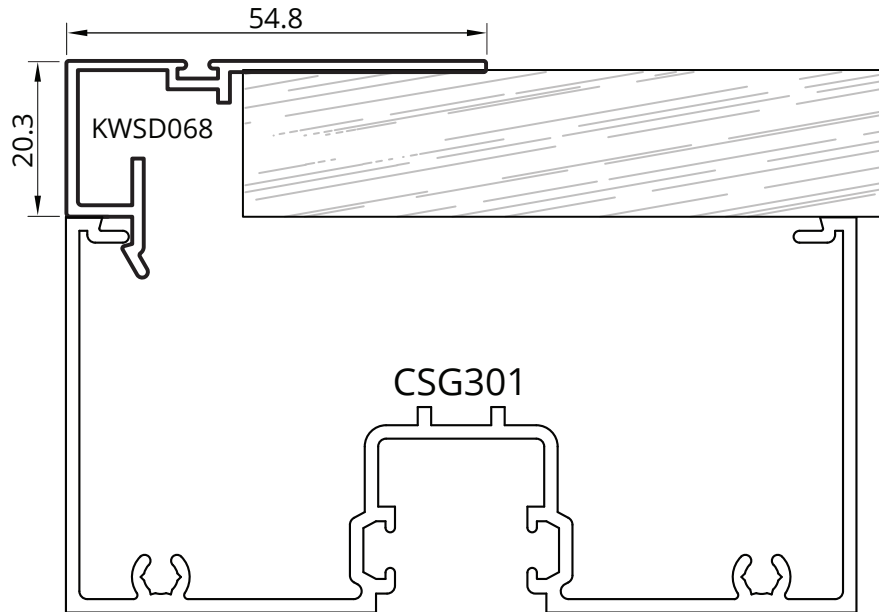
RWM053 Concealed Face Fixing



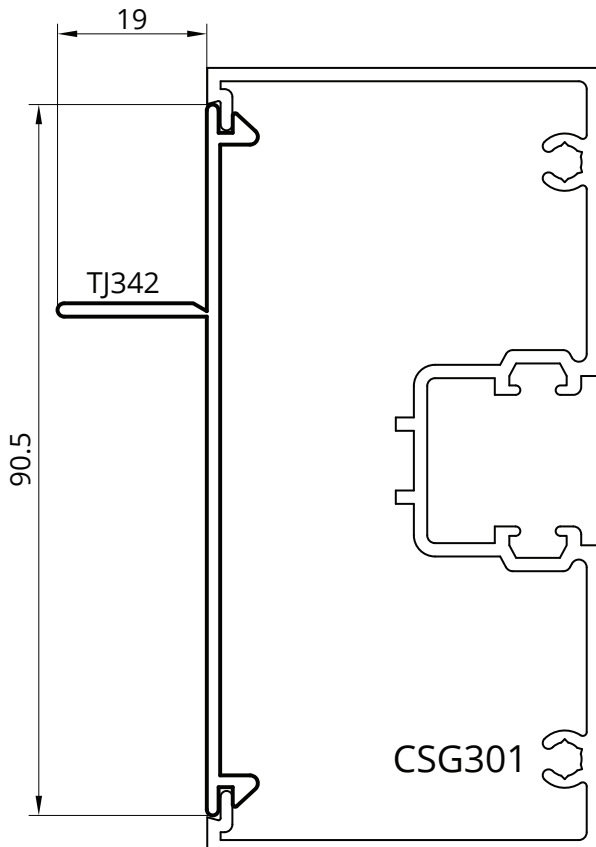
KW039 76mm to 100mm Flat Joiner



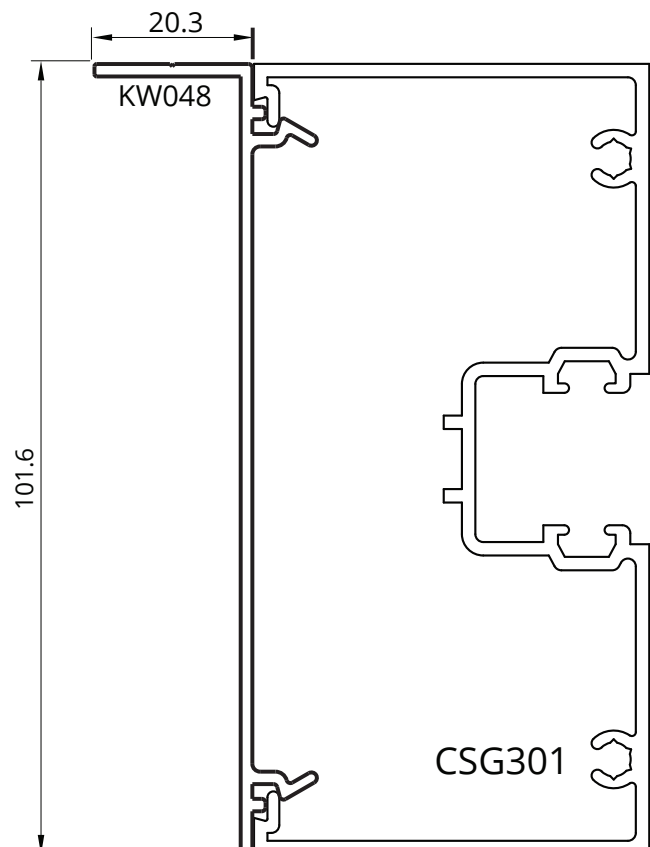
KWSD068 Inline Reveal Option



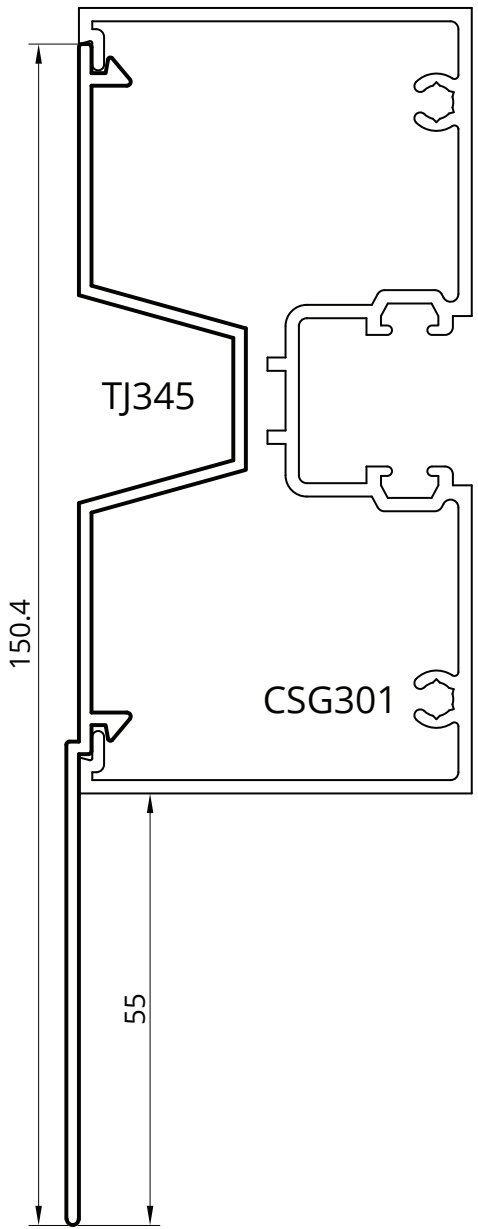
TJ342 100mm Reveal Adaptor



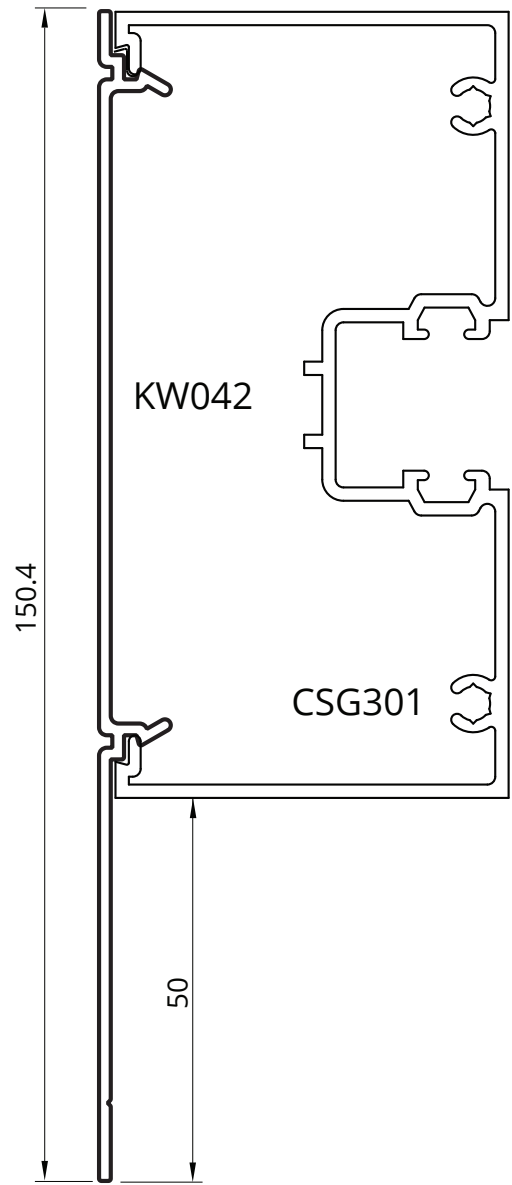
RWM048 Face Fix Adaptor



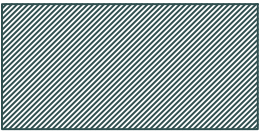
TJ345 100mm Fixing Plate



KW042 100mm Fixing Plate



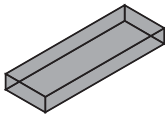
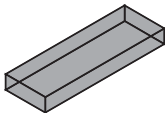
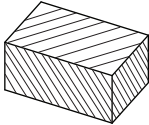
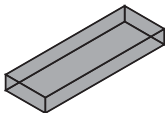
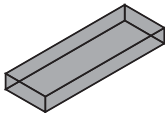
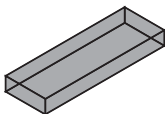
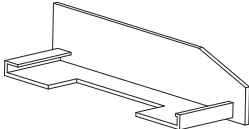
Small Parts

	Code	Description	U.O.M	BOX QTY.
	1474	Foam Seal - 1050 Pieces Roll Suits: 100mm 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.
	1910	Setting Blocks 3mm Thick - Bag of 1,000	Bag	N/A
	1911	Setting Blocks 5mm Thick - Bag of 1,000	Bag	N/A
	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
	1930	End Cap To Suit 100mm Subsills - Bag of 50 Pairs (Left & Right)	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
100mm Front Double Glazed	2410 x 2410	2330 x 1125	2140	750	3200	AZT0010.10	6 tough / 12 / 6 tough
100mm Front Double Glazed with Awning Sash	2690 x 2460	2690 x 1205	1660	450	2500	AZT0398.15	6 tough / 12 / 6 tough
100mm Front Double Glazed Curved Mullions	2691 x 2400	2619 x 1600	1600	850	3500	AZT0485.21	6 tough / 12 / 6 tough
100mm Front Double Glazed with Spandrel	6000 x 3650	2934 x 1200	1000	600	2750	2022-005-S3	6 tough / 12 / 6 tough

Performance

ACOUSTIC PERFORMANCE				
System	Rw	C : C _{TR}	Report	Glass
CityView 100 FDG	41	-2 : -4	TL666-09-01	8clr / 10air / 10.5 Vlam Hush

See Performance Section for more detail.

Taller maximums may be achievable via strength charts

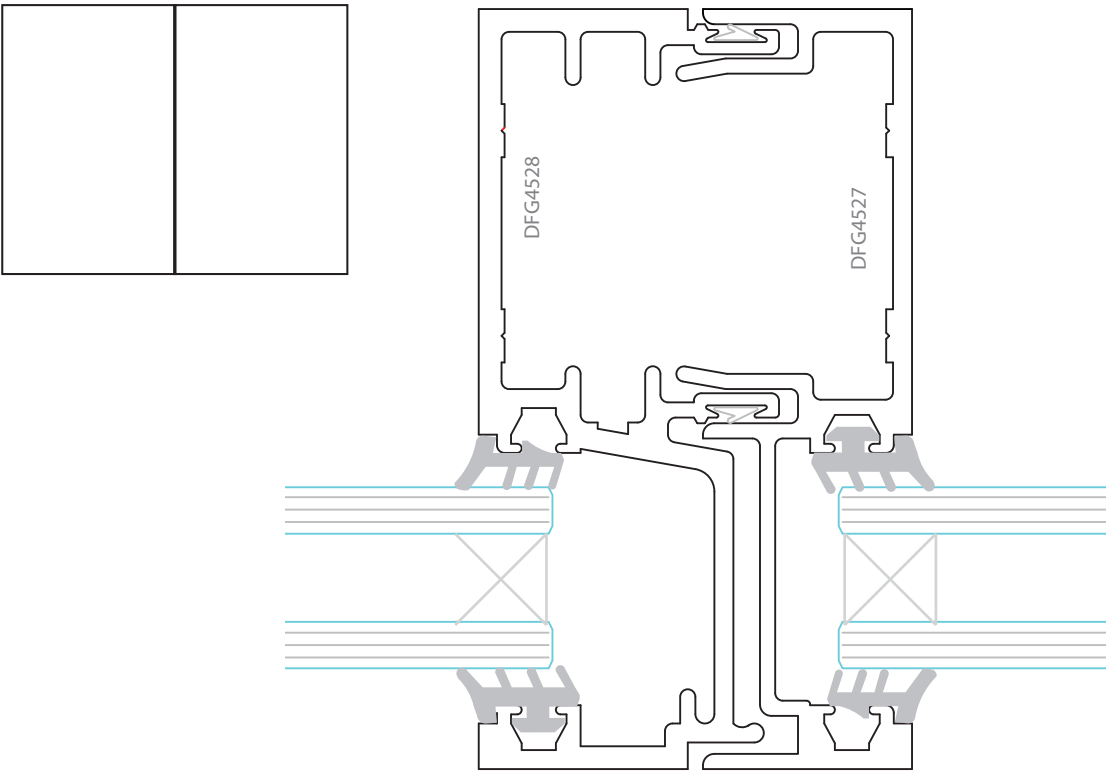
Size limitations are governed by design intent, glass selection and local wind load and deflection requirements. For further technical assistance and fabricator selection contact Darley Aluminium.

An Engineer should be consulted to ensure selected framing meets the requirements as set out in the relevant Australian Standards

Structural Test Report: Darley 100 x 50mm Front DG Framing

The following data was obtained from the results of the tests on the Darley 100 x 50mm Front DG Framing as performed in the Azuma Testing Laboratory (NATA Accredited).

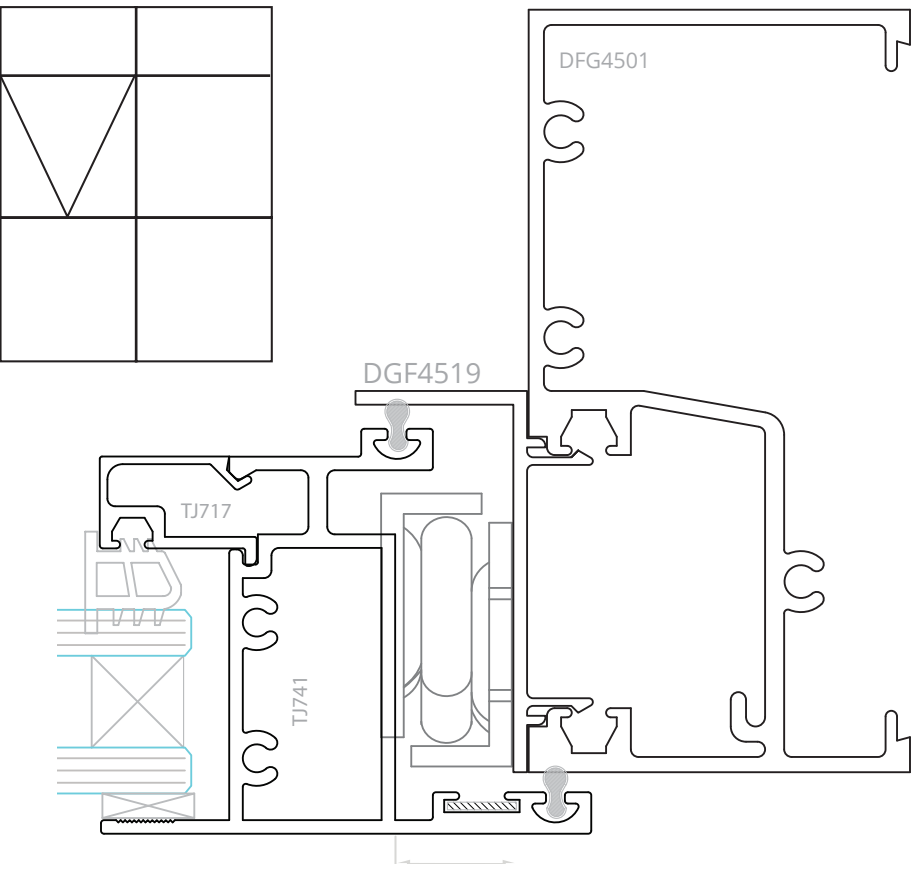
Performance



Test & Date	AZT0010.10, 16/02/2010
Test Size	2410mm H x 2410mm W
Panel Size	2330mm H x 1125mm W
Serviceability Load	+/- 1500 Pa
Air Infiltration	+75 Pa = 1.0 L/s.m2 -75 Pa = 5.0 L/s.m2 +150 Pa = 1.6 L/s.m2 -150 Pa = 8.0 L/s.m2
Water Penetration	750 Pa
Ultimate Strength	3200 Pa

Structural Test Report: Darley 100mm Front Double Glazed with Awning Sash

The following data was obtained from the results of the tests on the Darley 100 x 50mm Front DG Frame only as performed in the Azuma Testing Laboratory (NATA Accredited).

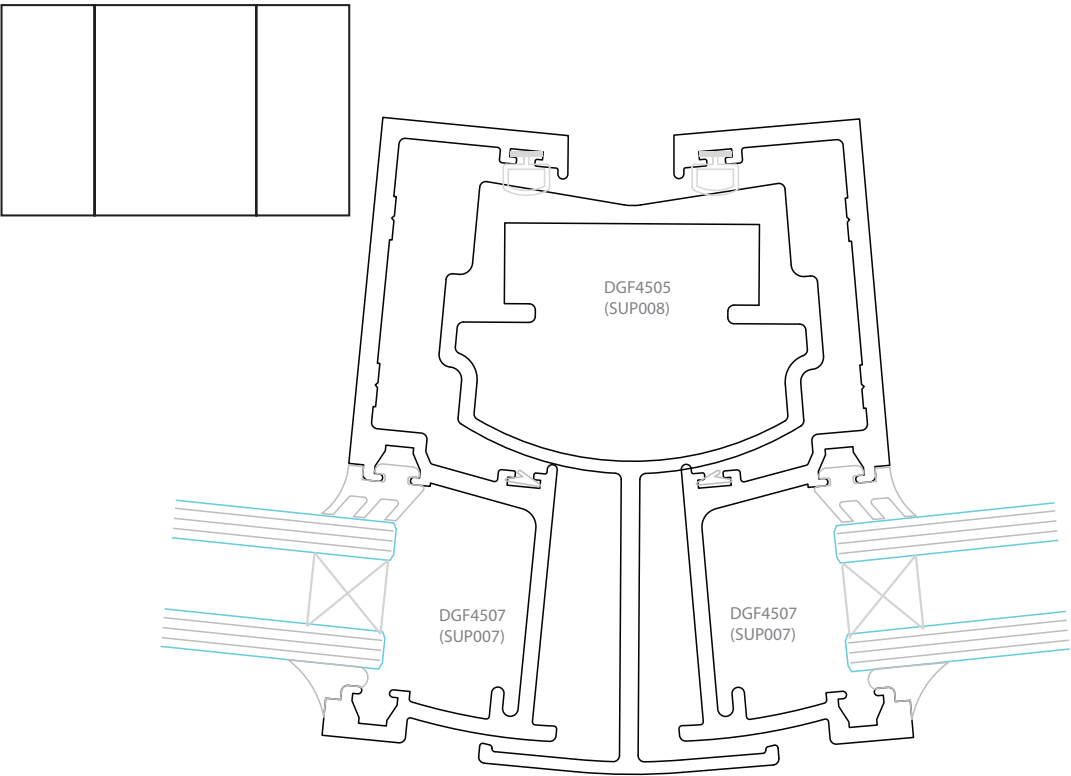


Test & Date	AZT0398.15, 24/11/2015
Test Size	2690mm H x 2460mm W
Panel Size	2690mm H x 1205mm W
Serviceability Load	+/- 1660 Pa
Air Infiltration	+75 Pa = 0.04 L/s.m2 -75 Pa = 0.03 L/s.m2
Water Penetration	450 Pa
Ultimate Strength	+/- 2500 Pa

Structural Test Report: Darley 100mm Front Double Glazed Curved Mullions

The following data was obtained from the results of the tests on the Darley 100 x 50mm Front DG Framing as performed in the Azuma Testing Laboratory (NATA Accredited).

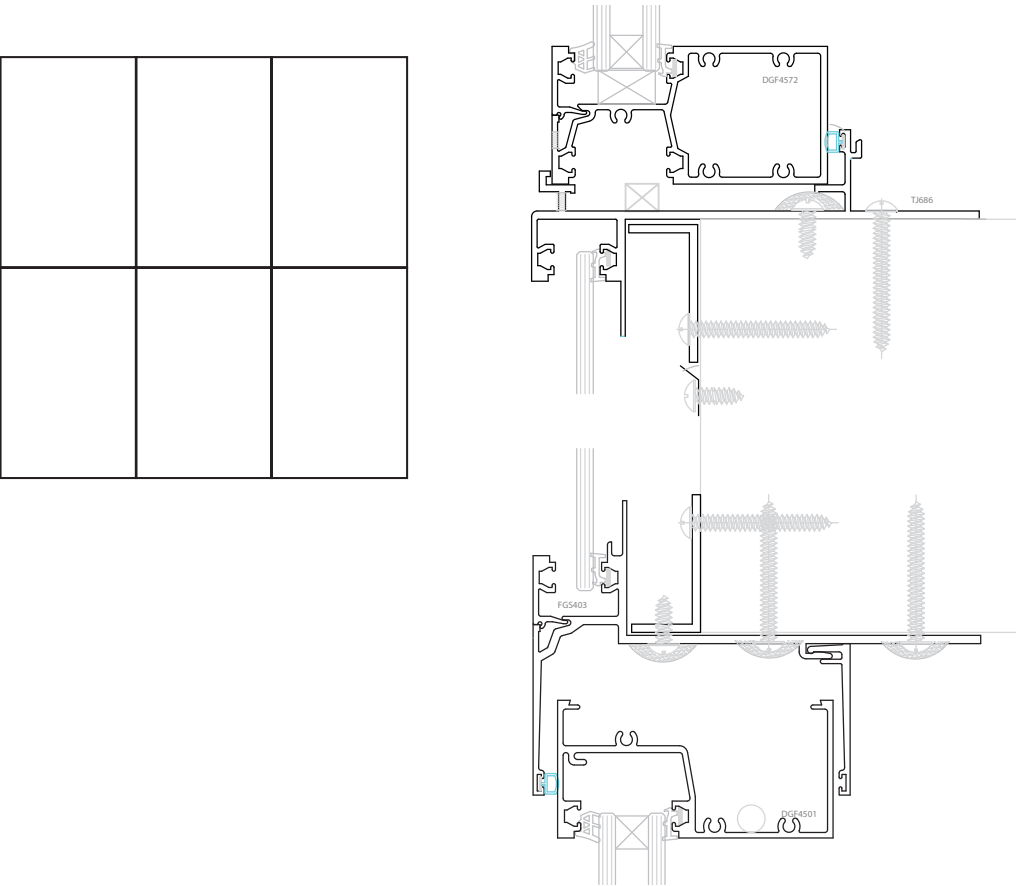
Performance



Test & Date	AZT0485.21, 14/12/2021
Test Size	2691mm H x 2400mm W
Panel Size	2619mm H x 1600mm W
Serviceability Load	+/- 1600 Pa
Air Infiltration	Low
Water Penetration	850 Pa
Ultimate Strength	3500 Pa

Structural Test Report: Darley 100mm Front Double Glazed with Spandrel

The following data was obtained from the results of the tests on the Darley 100 x 50mm Front DG Frame only as performed in the Azuma Testing Laboratory (NATA Accredited).



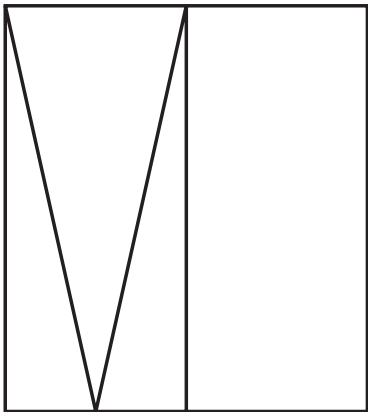
Test & Date	2022-005-S3, 07/2022
Test Size	6000mm H x 3650mm W
Panel Size	2934mm H x 1200mm W
Serviceability Load	+/- 1660 Pa
Air Infiltration	+150 Pa = 0.01 L/s.m2 -150 Pa = 0.01 L/s.m2
Water Penetration	450 Pa
Ultimate Strength	+/- 2500 Pa

Acoustic Test Report

LABORATORY TEST RESULTS: 100 X 50MM FRONT DG FRAMING

Tested R_w value of 41; see results below

Test Report No. : TL666-09-01	
Test Date	01/05/2019
Glass Type	8clr / 10air / 10.5 Vlam Hush
Acoustic Rating $R_w(C;Ctr)$	41 R_w

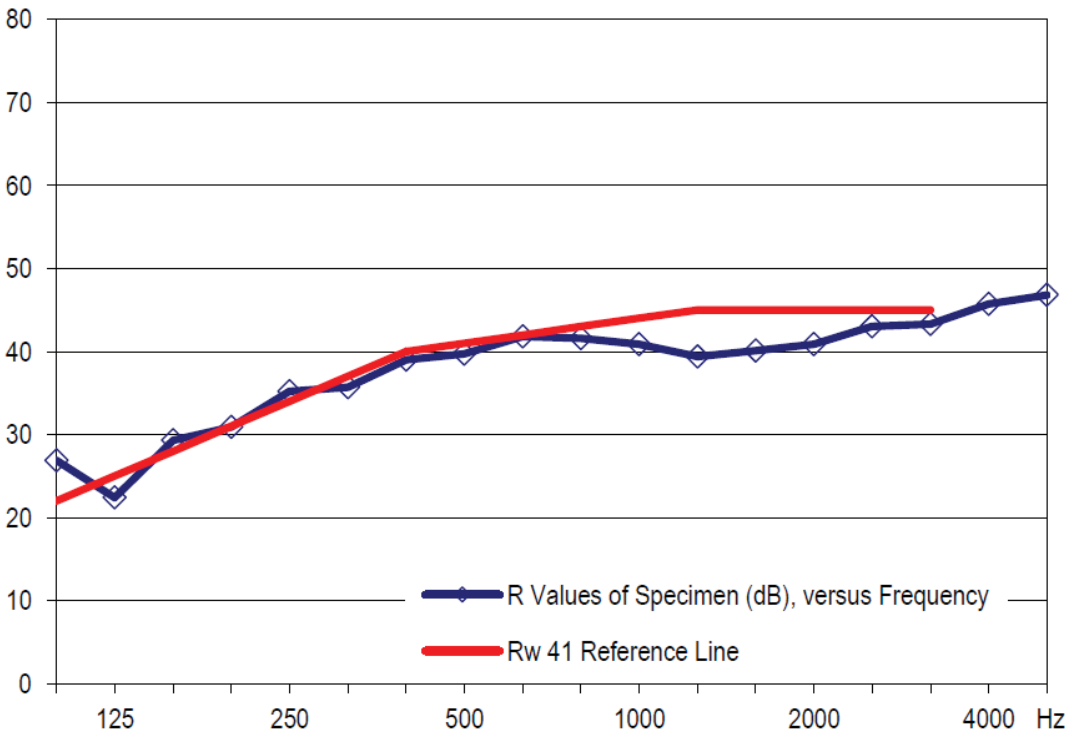


Freq (Hz)	Specimen R Value ² (dB)		95 % Conf δ (dB)
	1/3 Octave	Whole Octave	
100	26.9		1.1
125	22.4	25.3	1.3
160	29.3		1.1
200	30.9		1.1
250	35.2	33.4	1.1
315	35.7		0.5
400	39.0		0.7
500	39.7	40.0	0.4
630	41.8		0.2
800	41.6		0.2
1000	40.9	40.5	0.2
1250	39.4		0.2
1600	40.1		0.1
2000	40.9	41.2	0.2
2500	43.0		0.2
3150	43.3		0.2
4000	45.7	45.0	0.3
5000	46.8		0.2

Performance Index Numbers

$R_w(C; C_{tr}) = 41 (-2; -4)$ dB

STC = 41



BAL Compliance

Bushfire attack levels achievable with FRT210417

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

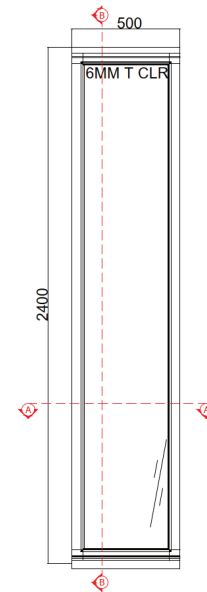
Product: Darley CityView Combination Window System

Bushfire Attack Level (BAL) Exposure: 40 kW/m²

Crib Class: AA

Job Number: FRT210417

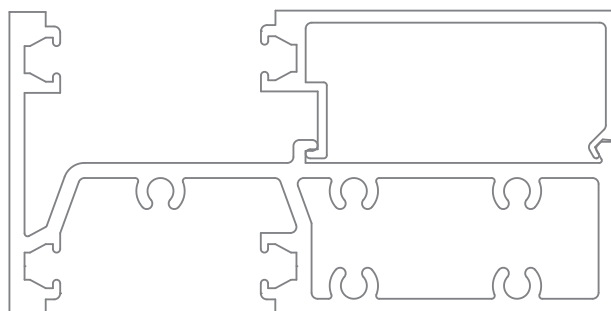
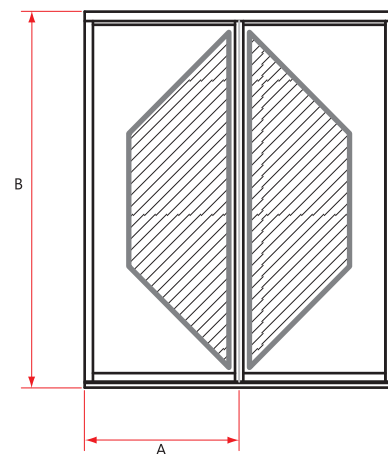
Test Date: 10 March 2022 **Revision:** R1.0



	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.

BAL

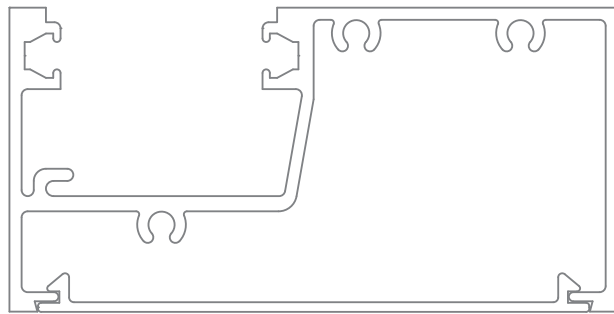
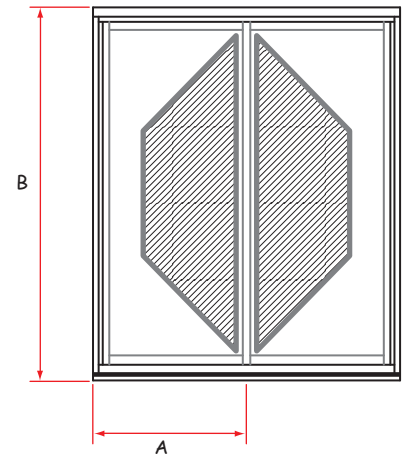
Transom Strength Chart: DGF4508 + DGF4509

**DGF4508****DGF4509**

Performance

Darley Citywview FDG Window	Deflection Ratio's Serviceability =1/150		Serviceability =1/180		Serviceability =1/250		Ultimate =U	Limitations: Serviceability to 5000 Pa & Ultimate to 8000 Pa		Extrusions: DGF4508 +DGF4509	
	Glazing Width either side of the interlock in mm (A)										
Window Height (mm) (B)	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
2200	3242	2917	2662	2458	2293	2158	2047	1956	1881	1821	1773
	3242	2917	2662	2458	2293	2158	2047	1956	1881	1821	1773
	2749	2479	2268	2100	1964	1853	1763	1689	1629	1581	1544
	4862	4376	3993	3688	3440	3237	3070	2934	2821	2731	2659
2400	2704	2428	2211	2036	1894	1776	1678	1597	1528	1471	1424
	2704	2428	2211	2036	1894	1776	1678	1597	1528	1471	1424
	2099	1889	1723	1590	1483	1394	1320	1259	1209	1167	1132
	4056	3642	3316	3054	2840	2664	2517	2395	2292	2207	2136
2600	2291	2054	1867	1716	1592	1489	1403	1331	1270	1218	1174
	2278	2046	1862	1715	1592	1489	1403	1331	1270	1218	1174
	1640	1473	1341	1235	1148	1076	1016	966	924	888	858
	3436	3081	2800	2574	2388	2234	2105	1996	1904	1826	1760
2800	1966	1761	1598	1467	1358	1268	1192	1128	1073	1026	986
	1814	1627	1479	1359	1261	1180	1111	1054	1005	963	927
	1306	1171	1065	979	908	849	800	759	723	693	667
	2950	2642	2397	2200	2038	1903	1789	1692	1610	1539	1479
3000	1707	1527	1384	1269	1174	1094	1027	970	920	878	842
	1469	1316	1194	1096	1015	948	891	843	802	767	737
	1057	947	860	789	731	683	642	607	578	552	530
	2560	2291	2077	1903	1760	1641	1540	1454	1381	1317	1262
3200	1447	1295	1174	1077	996	929	872	823	782	746	715
	1206	1079	979	897	830	774	727	686	651	622	596
	868	777	705	646	598	557	523				
	2244	2006	1817	1663	1537	1431	1341	1264	1198	1141	1092
3400	1203	1076	975	893	825	768	720	679	644	613	587
	1002	896	812	744	687	640	600	566	537	511	
	722	645	585	536							
	1983	1771	1603	1466	1354	1259	1179	1110	1051	999	954
3600	1011	903	818	748	691	643	602	567	537	511	
	842	753	682	624	576	536	502				
	607	542									
	1765	1576	1425	1303	1202	1117	1045	983	929	882	
3800	858	766	693	634	585	544	509				
	715	638	578	528							
	515										
	1581	1411	1276	1166	1074	998	932				

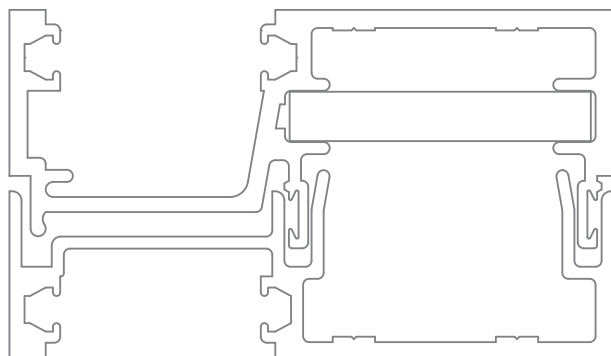
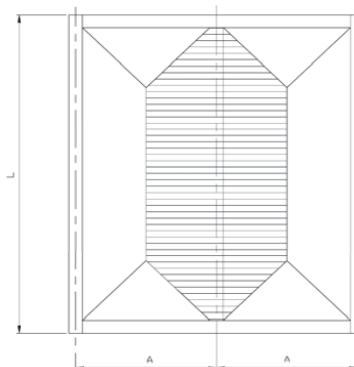
Transom Strength Chart: DGF4501 + TJ305

**DGF4501****TJ305**

Performance

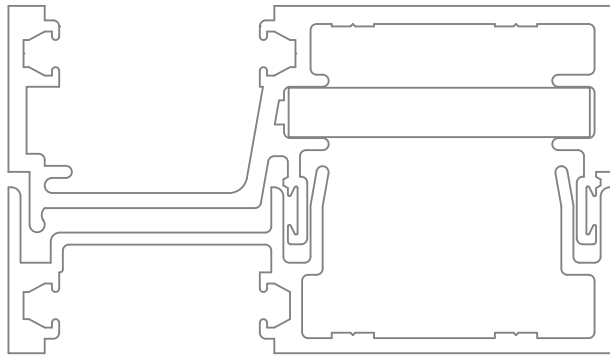
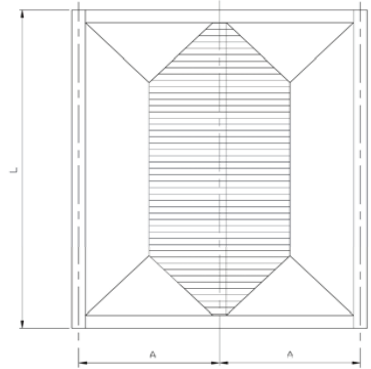
DARLEY ALUMINIUM CITYVIEW	100mm FRONT DOUBLE GLAZED SUITE					Limitations: Serviceability to 5000Pa & Ultimate to 8000Pa			Ext: DGF4501 +TJ305	
	Panel Width (mm) (A)									
Window Height (mm) (L)	800	900	1000	1100	1200	1300	1400	1500	1600	Serviceability
2000	3465	3127	2863	2653	2485	2349	2240	2153	2085	150
	3465	3127	2863	2653	2485	2349	2240	2153	2085	180
	3465	3048	2835	2653	2485	2349	2240	2153	2085	250
	5197	4690	4294	3980	3727	3524	3360	3230	3127	U
2200	2836	2552	2329	2151	2006	1888	1791	1711	1646	150
	2836	2552	2329	2151	2006	1888	1791	1711	1646	180
	2574	2231	2067	1936	1830	1744	1623	1567	1521	250
	4254	3828	3494	3226	3009	2832	2686	2566	2468	U
2400	2365	2124	1934	1781	1657	1554	1468	1397	1337	150
	2365	2124	1934	1781	1657	1554	1468	1397	1337	180
	1947	1775	1554	1451	1367	1298	1241	1157	1119	250
	3548	3187	2901	2672	2485	2331	2202	2095	2005	U
2600	2004	1797	1633	1501	1393	1303	1228	1164	1111	150
	2004	1797	1633	1501	1393	1303	1228	1164	1111	180
	1508	1372	1264	1116	1048	993	946	907	847	250
	3006	2696	2450	2252	2089	1954	1842	1746	1666	U
2800	1720	1541	1398	1283	1188	1110	1043	987	939	150
	1656	1503	1382	1283	1141	1078	1025	980	939	180
	1192	1082	995	925	822	776	738	706	678	250
	2581	2311	2097	1925	1783	1664	1565	1480	1408	U
3000	1493	1336	1211	1110	1027	957	898	848	805	150
	1331	1207	1108	1027	961	859	815	778	746	180
	958	869	797	740	692	619	587	560	537	250
	2240	2004	1817	1665	1540	1436	1347	1272	1208	U
3200	1304	1170	1060	970	896	834	782	737	699	150
	1086	983	901	835	780	696	659	628	601	180
	782	708	649	601	562	501				250
	1963	1755	1589	1455	1344	1252	1173	1106	1048	U
3400	1078	974	892	825	770	724	649	617	589	150
	898	812	743	688	642	603	541	514		180
	647	585	535							250
	1734	1550	1402	1283	1184	1101	1031	971	919	U
3600	901	814	744	688	641	602	568	512		150
	751	678	620	573	534	501				180
	541									250
	1544	1379	1247	1140	1051	977	914	860		U
3800	761	687	628	579	539	506				150
	634	572	523							180
										250
	1383	1235	1116	1020	940	873				U

Transom Strength Chart: DGF4527 + DGF4528 + Stiffener

**DGF4527****DGF4528****Mullion Pressure Ratings (Pa): Symmetrical Panels**

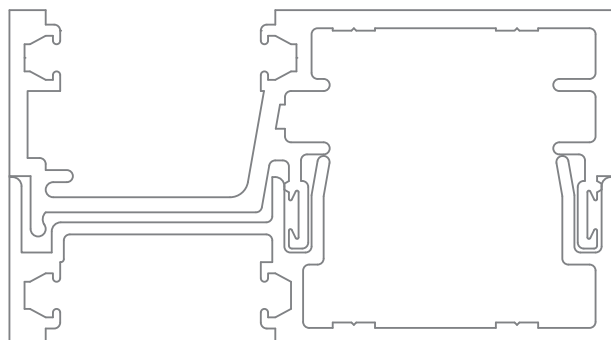
Darley Aluminium			Serviceability 1/250	Ultimate U			Limitations: Serviceability to 5000Pa & Ultimate to 8000Pa				SDGF4527 + DGF4528 + Stiffener
	Panel Width (mm) (A)										
Window Height (mm) (L)	800	900	1000	1100	1200	1300	1400	1500	1600	Serviceability	
2800	1907	1731	1592	1479	1315	1242	1180	1129	1084	250	
	4461	3995	3626	3327	3081	2877	2705	2559	2435	U	
2900	1706	1548	1422	1320	1172	1106	1050	1003	963	250	
	4150	3715	3370	3090	2860	2668	2506	2369	2251	U	
3000	1533	1390	1276	1183	1107	990	939	896	859	250	
	3872	3464	3140	2878	2662	2481	2329	2199	2088	U	
3100	1383	1252	1149	1065	996	889	843	803	769	250	
	3620	3238	2934	2687	2484	2314	2170	2048	1942	U	
3200	1251	1133	1038	962	898	802	759	723	692	250	
	3393	3033	2747	2515	2324	2163	2028	1912	1812	U	
3300	1136	1028	941	871	813	765	686	653	625	250	
	3186	2847	2578	2359	2179	2027	1899	1789	1695	U	
3400	1035	935	856	792	739	695	623	592	566	250	
	2998	2678	2424	2218	2047	1904	1782	1678	1589	U	
3500	945	854	781	722	673	632	598	538	514	250	
	2826	2524	2284	2088	1927	1791	1676	1578	1493	U	
3600	865	781	714	660	615	578	545	491	469	250	
	2669	2383	2155	1970	1817	1689	1580	1486	1405	U	
3700	794	717	655	605	564	529	499	449	428	250	
	2524	2253	2038	1862	1717	1595	1491	1402	1325	U	
3800	731	659	602	556	518	485	458	434	393	250	
	2391	2134	1929	1763	1625	1509	1410	1325	1252	U	
3900	674	608	555	512	477	447	421	399	361	250	
	2268	2024	1829	1671	1540	1429	1335	1255	1185	U	
4000	667	561	513	473	440	412	388	368	350	250	
	2155	1922	1737	1586	1461	1356	1267	1190	1123	U	
4100	618	520	474	437	407	381	359	340	323	250	
	2050	1828	1652	1508	1389	1289	1203	1130	1066	U	
4200	573	482	440	405	377	353	332	314	299	250	
	1952	1741	1573	1435	1322	1226	1144	1074	1013	U	
4300	533	448	409	376	350	327	308	292	277	250	
	1861	1660	1499	1368	1259	1168	1090	1023	964	U	
4400	496	417	380	350	325	304	286	271	257	250	
	1777	1584	1430	1305	1201	1114	1039	975	919	U	
4500	463	416	354	326	303	283	266	252	239	250	
	1698	1513	1366	1247	1147	1063	992	930	877	U	
4600	432	389	331	304	283	264	248	235	223	250	
	1624	1448	1307	1192	1097	1016	948	889	838	U	
4700	404	364	309	285	264	247	232	219	208	250	
	1555	1386	1251	1141	1050	973	907	850	801	U	

Transom Strength Chart: DGF4527 + DGF4528 + Stiffener

**DGF4527****DGF4528****Mullion Pressure Ratings (Pa): Symmetrical Panels**

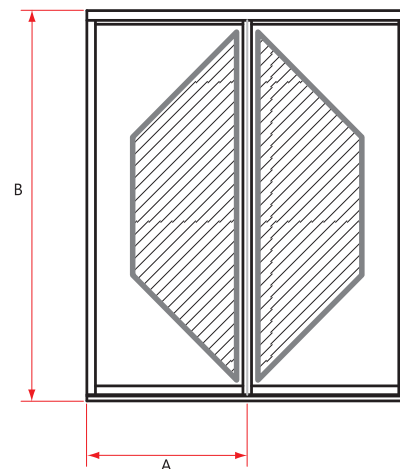
Darley Aluminium			Serviceability 1/250	Ultimate U				Limitations: Serviceability to 5000Pa & Ultimate to 8000Pa		SDGF4527 + DGF4528 + Stiffener
	Panel Width (mm) (A)									
Window Height (mm) (L)	1600	1700	1800	1900	2000	2100	2200	2300	2400	Serviceability
2800	1084	1015	984	957	935	916	900	878	868	250
	2435	2328	2237	2158	2091	2035	1987	1947	1916	U
2900	963	928	871	847	826	808	792	779	761	250
	2251	2150	2063	1988	1923	1867	1820	1780	1747	U
3000	859	827	800	753	733	716	701	689	679	250
	2088	1992	1909	1837	1775	1721	1675	1635	1602	U
3100	769	740	715	672	654	638	624	612	602	250
	1942	1851	1773	1704	1644	1592	1547	1508	1475	U
3200	692	665	642	622	586	571	558	546	537	250
	1812	1726	1651	1585	1528	1478	1434	1396	1363	U
3300	625	600	578	560	527	513	501	490	481	250
	1695	1613	1541	1479	1424	1376	1334	1297	1264	U
3400	566	543	523	506	490	462	451	441	432	250
	1589	1511	1443	1383	1331	1284	1244	1208	1176	U
3500	514	493	475	458	444	432	408	398	390	250
	1493	1418	1354	1297	1247	1202	1163	1128	1098	U
3600	469	449	432	417	404	392	370	361	353	250
	1405	1334	1273	1218	1170	1128	1090	1057	1027	U
3700	428	410	394	380	368	357	347	329	321	250
	1325	1258	1199	1147	1101	1061	1024	992	963	U
3800	393	376	361	348	336	326	317	300	293	250
	1252	1188	1132	1082	1038	999	964	933	906	U
3900	361	345	331	319	308	299	290	283	268	250
	1185	1124	1070	1023	981	943	910	880	853	U
4000	350	318	305	293	283	274	267	259	253	250
	1123	1065	1013	968	928	892	860	831	805	U
4100	323	293	281	270	261	253	245	239	233	250
	1066	1010	961	918	879	845	814	786	762	U
4200	299	271	260	250	241	233	226	220	214	250
	1013	960	913	871	834	801	772	745	721	U
4300	277	265	240	231	223	216	209	203	198	250
	964	913	868	829	793	761	733	707	684	U
4400	257	246	223	214	207	200	194	188	183	250
	919	870	827	789	755	724	697	672	650	U
4500	239	228	219	199	192	185	180	174	170	250
	877	830	789	752	719	690	664	640	619	U
4600	223	213	204	185	179	172	167	162	158	250
	838	793	753	718	686	658	633	610	589	U
4700	208	199	190	173	166	161	156	151	147	250
	801	758	720	686	656	629	604	582	562	U

Mullion Strength Chart: DGF4527 + DGF4528



DGF4508

DGF4509



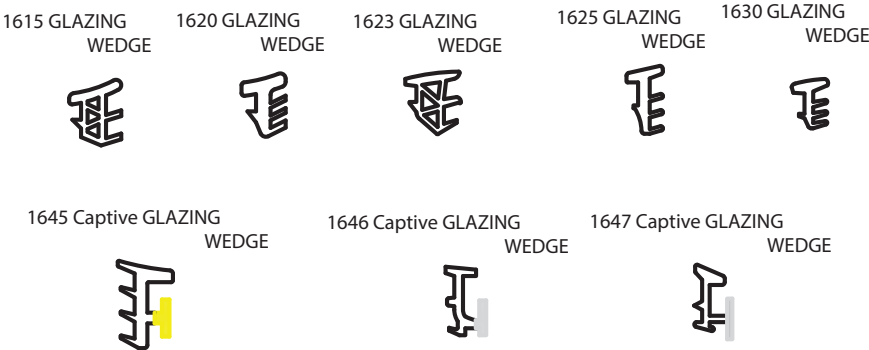
Performance

Darley Citywview FDG Window	Deflection Ratio's Serviceability =1/150		Serviceability =1/180		Serviceability =1/250		Ultimate =U	Limitations : Serviceability to 5000 Pa & Ultimate to 8000 Pa		Extrusions : DGF4527 +DGF4528	
	Glazing Width either side of the interlock in mm (A)										
Window Height (mm) (B)	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
2200	4792	4312	3935	3634	3390	3190	3026	2891	2780	2691	2620
	4792	4312	3935	3634	3390	3190	3026	2891	2780	2691	2620
	3968	3579	3274	3031	2835	2675	2545	2438	2352	2283	2228
	7187	6468	5903	5451	5085	4785	4539	4336	4171	4037	3931
2400	3997	3589	3268	3010	2799	2625	2481	2360	2259	2175	2105
	3997	3589	3268	3010	2799	2625	2481	2360	2259	2175	2105
	3030	2726	2487	2296	2140	2012	1906	1818	1745	1684	1635
	5995	5384	4902	4515	4199	3938	3721	3540	3389	3262	3158
2600	3386	3036	2760	2536	2353	2202	2074	1967	1877	1800	1735
	3288	2953	2689	2476	2302	2158	2038	1937	1852	1781	1721
	2367	2126	1936	1783	1657	1554	1467	1395	1334	1282	1239
	5079	4555	4139	3805	3530	3302	3112	2951	2815	2700	2602
2800	2907	2603	2363	2168	2008	1875	1763	1668	1587	1517	1458
	2619	2348	2135	1962	1821	1703	1604	1521	1450	1390	1338
	1885	1691	1537	1413	1311	1226	1155	1095	1044	1001	964
	4360	3905	3544	3252	3012	2812	2644	2501	2380	2276	2186
3000	2523	2257	2046	1875	1735	1617	1518	1433	1361	1298	1244
	2120	1899	1724	1582	1466	1369	1287	1217	1158	1107	1063
	1526	1367	1241	1139	1055	985	927	877	834	797	766
	3785	3386	3070	2813	2602	2426	2277	2150	2041	1947	1866
3200	2089	1869	1695	1554	1438	1341	1259	1189	1129	1077	1032
	1741	1558	1413	1295	1198	1117	1049	990	940	897	860
	1253	1122	1017	932	863	804	755	713	677	646	619
	3317	2965	2685	2459	2271	2115	1982	1869	1771	1687	1613
3400	1737	1553	1407	1288	1191	1109	1040	981	930	886	847
	1447	1294	1172	1074	992	924	866	817	775	738	706
	1042	932	844	773	714	665	624	588	558	531	508
	2931	2618	2370	2168	2001	1861	1742	1641	1553	1477	1410
3600	1459	1304	1181	1080	998	928	869	819	775	738	705
	1216	1087	984	900	831	773	724	682	646	615	587
	876	782	708	648	599	557	522				
	2609	2329	2107	1926	1776	1651	1544	1453	1373	1304	1244
3800	1238	1106	1001	915	844	785	734	691	654	621	593
	1032	922	834	763	704	654	612	576	545	518	
	743	664	600	549	507						
	2337	2086	1886	1723	1588	1475	1378	1295	1224	1161	1106

Glass & Rubber Combinations

Glazing

100mm x 50mm FRONT DG			
Glass Thickness	Specific Profiles Required	Wedge Required	Pocket Size
6mm	1 x DGF4510 reducer	1615 - 1615 1620 - 1645	33.2mm
8mm		1620 - 1620 1625 - 1645 1615 - 1646	
10mm		1625 - 1625 1620 - 1646 1615 - 1647	
12mm		1630 - 1647 1630 - 1630	
16mm	1 x CDG4308 reducer	1615 - 1615 1625 - 1645	
18mm		1630 - 1645 1615 - 1625 1615 - 1646	
20mm		1645 - 1623 1615 - 1623	
22mm		1615 - 1645 1620 - 1623	
24mm		1615 - 1615 1620 - 1645 1623 - 1646	
26mm		1620 - 1620 1625 - 1645	
28mm		1630 - 1625 1625 - 1646	



*NOT TO SCALE

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/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_g 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 100mm Front Single Glazed

Window Id	Glass Supplier	Glass	Uw	SHGCw	TVw	Air Infil.
DAR-017-001	GENERIC	6Clr/12/6Clr	3.597	0.641	0.692	5
DAR-017-002	<UNKNOWN>	6Gy/12/6Clr	3.597	0.416	0.326	5
DAR-017-003	OCEANIA	6Clr/12/6ET	2.945	0.603	0.64	5
DAR-017-004	<UNKNOWN>	6SpGn/12/6Clr	3.597	0.371	0.522	5
DAR-017-005	OCEANIA	6SpGn/12/6ET	2.945	0.324	0.482	5
DAR-017-006	OCEANIA	6ET/12/6Clr	2.945	0.557	0.64	5
DAR-017-007	<UNKNOWN>	6TS21Gn/12/6Clr	3.371	0.19	0.141	5
DAR-017-008	<UNKNOWN>	6TS21Clr/12/6Clr	3.371	0.209	0.163	5
DAR-017-009	<UNKNOWN>	6.38CPNtl/12/6ET	2.831	0.523	0.597	5
DAR-017-010	OCEANIA	6.38CPNtl/12/6Clr	2.934	0.545	0.645	5
DAR-017-011	OCEANIA	6.38CPNtl/12Ar/6Clr	2.726	0.544	0.645	5
DAR-017-012	<UNKNOWN>	6.38CPNtl/12Ar/6ET	2.61	0.523	0.597	5
DAR-017-013	OCEANIA	6Gy/12Ar/6ET	2.736	0.365	0.301	5
DAR-017-014	OCEANIA	6Gy/12/6ET	2.945	0.37	0.301	5
DAR-017-015	OCEANIA	6EVCtlr/12Ar/6ET	2.649	0.486	0.505	5
DAR-017-016	OCEANIA	6EVCtlr/12/6ET	2.868	0.485	0.505	5
DAR-017-017	<UNKNOWN>	6EVCtlr/12/6Clr	3.021	0.509	0.542	5
DAR-017-018	<UNKNOWN>	6EVCtlr/12Ar/6Clr	2.823	0.508	0.542	5
DAR-017-019	OCEANIA	6EVGy/12Ar/6ET	2.648	0.285	0.237	5
DAR-017-020	<UNKNOWN>	6EVSpGn/12/6Clr	3.029	0.278	0.392	5
DAR-017-021	<UNKNOWN>	6EVBG/12/6Clr	3.02	0.352	0.45	5
DAR-017-022	OCEANIA	6EVGy/12/6ET	2.888	0.292	0.237	5
DAR-017-023	<UNKNOWN>	10.38GyLam/8Ar/6Clr	3.566	0.42	0.322	5
DAR-017-028	OCEANIA	6SpGy/12/6ET	2.889	0.153	0.062	5
DAR-017-300	OCEANIA	6Clr/12Ar/6ET	2.741	0.61	0.645	5
DAR-017-301	OCEANIA	6SolTNtl/12Ar/6Clr	2.751	0.415	0.5	5
DAR-017-302	<UNKNOWN>	6CoolRay70/12Ar/6Gy	2.507	0.308	0.605	5
DAR-017-303	OCEANIA	6Gy/12Ar/6Clr	3.48	0.415	0.328	5
DAR-017-304	OCEANIA	6ETGy/12Ar/6Clr	2.776	0.356	0.314	5
DAR-017-305	<UNKNOWN>	6Gy/12Ar/6CoolRay70	2.507	0.233	0.285	5
DAR-017-306	VIRIDIAN	LB Clr 6/12/6	2.565	0.498	0.691	5
DAR-017-307	G JAMES	6LE/12/6Clr	3.585	0.577	0.647	5
DAR-017-308	OCEANIA	6SpGy/12Ar/6ET	2.743	0.142	0.062	5
DAR-017-309	OCEANIA	10Clr/12/6ET	2.934	0.539	0.622	5
DAR-017-310	OCEANIA	10Clr/12Ar/6ET	2.729	0.54	0.622	5
DAR-017-311	AGG	AGG CLASSIC Clr 4/12/4	3.512	0.701	0.728	5
DAR-017-312	AGG	AGG CLASSIC Clr 5/12/5	3.493	0.651	0.701	5
DAR-017-313	AGG	AGG CLASSIC Clr 6/12/6	3.475	0.644	0.696	5
DAR-017-314	AGG	AGG CLASSIC Clr 8/12/8	3.438	0.587	0.666	5

KEY

Lam = Laminate, Sp = Super, EV = Eantage, 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

- Percentage improvement figures are compared with using base-case Generic Window 1 (3mm clear in standard aluminium frame)
- A negative percentage improvement figure indicates performance worse than the base-case window
- A positive percentage improvement figure indicates performance better than the base-case window
- Maximum air infiltration is 5.0 L/s.m² at a positive pressure difference of 75Pa as measured according to AS 2047
- Static performance (U, SHFC, Tw, Tdw) Calculated using Window 5.2 and Therm 5.2 software (LBNL), 2000-2003
- Annual energy performance (stars and % improvements) calculated using Nationwide House Energy Rating Software (AccuRate)
- Results disclosed at National fenestration Rating Council (AFRC) regulations

Energy Rating: CityView 100mm Front Single Glazed

Window Id	Glass Supplier	Glass	Uw	SHGCw	TVw	Air Infil.
DAR-017-315	AGG	AGG CLASSIC Gy 4/12/4	3.512	0.527	0.453	5
DAR-017-316	AGG	AGG CLASSIC Gy 6/12/6	3.475	0.441	0.348	5
DAR-017-317	AGG	AGG CLASSIC Clr lam 4_12_6,38	3.455	0.684	0.721	5
DAR-017-318	AGG	AGG CLASSIC Clr lam 6_12_6,38	3.462	0.642	0.705	5
DAR-017-319	AGG	AGG PRIME Clr 4/12/4	2.789	0.505	0.611	5
DAR-017-320	AGG	AGG PRIME Clr 5/12/5	2.779	0.496	0.597	5
DAR-017-321	AGG	AGG PRIME Clr 6/12/6	2.768	0.488	0.592	5
DAR-017-322	AGG	AGG PRIME Clr 8/12/8	2.744	0.47	0.575	5
DAR-017-323	AGG	AGG PRIME Gy 4/12/4	2.79	0.44	0.38	5
DAR-017-324	AGG	AGG PRIME Gy 6/12/6	2.768	0.366	0.297	5
DAR-017-325	AGG	AGG PRIME Clr lam 4/12/6.38	2.764	0.501	0.605	5
DAR-017-326	AGG	AGG PRIME Clr lam 6/12/6.38	2.759	0.488	0.6	5
DAR-017-327	AGG	AGG PLUS Clr 4/12/4	2.574	0.553	0.715	5
DAR-017-328	AGG	AGG PLUS Clr 5/12/5	2.563	0.523	0.698	5
DAR-017-329	AGG	AGG PLUS Clr 6/12/6	2.555	0.518	0.693	5
DAR-017-330	AGG	AGG PLUS Clr 8/12/8	2.533	0.485	0.672	5
DAR-017-331	AGG	AGG PLUS Gy 4/12/4	2.574	0.395	0.445	5
DAR-017-332	AGG	AGG PLUS Gy 6/12/6	2.555	0.327	0.347	5
DAR-017-333	AGG	AGG PLUS Clr lam 6.38/12/6	2.542	0.517	0.702	5
DAR-017-334	AGG	AGG ADVANCE Clr 6/12/4	2.541	0.321	0.64	5
DAR-017-335	AGG	AGG ADVANCE Clr 6/12/6	2.528	0.321	0.625	5
DAR-017-336	AGG	AGG ADVANCE Clr 8_12_8	2.506	0.317	0.607	5
DAR-017-337	AGG	AGG ADVANCE Gy 6_12_6	2.529	0.248	0.313	5
DAR-017-338	AGG	AGG ADVANCE Clr lam 6/12/6.38	2.522	0.321	0.633	5
DAR-017-339	AGG	AGG MAX Clr 6/12/4	2.516	0.257	0.595	5
DAR-017-340	AGG	AGG MAX Clr 6/12/6	2.504	0.257	0.582	5
DAR-017-341	AGG	AGG MAX Clr 8/12/8	2.482	0.256	0.566	5
DAR-017-342	AGG	AGG MAX LI 6/12/6	2.504	0.259	0.601	5
DAR-017-343	AGG	AGG MAX Gy 6/12/6	2.504	0.207	0.291	5
DAR-017-344	AGG	AGG MAX Clr lam 6/12/6.38	2.497	0.257	0.589	5
DAR-017-345	AGG	AGG PLUS Clr lam 6.38/12/4	2.553	0.519	0.708	5
DAR-017-346	VIRIDIAN	6P-Tech PH30#2-12Ar90%-6Clr	2.521	0.277	0.606	5
DAR-017-347	VIRIDIAN	6P-Tech PH25#2-12Ar90%-6Clr	2.527	0.243	0.528	5
DAR-017-348	VIRIDIAN	6P-Tech PH20#2-12Ar90%-6Clr	2.518	0.185	0.409	5
DAR-017-349	VIRIDIAN	6P-Tech PH08#2-12Ar90%-6Clr	2.517	0.308	0.605	5
DAR-017-350	VIRIDIAN	6LtGrey-12Ar90%-6CimaTech#3	2.622	0.39	0.488	5
DAR-017-351	VIRIDIAN	6Grey/12Ar90/6CimaTech	2.622	0.315	0.332	5
DAR-017-352	VIRIDIAN	6Clr-12Ar90%-6ClimaTech#3	2.622	0.527	0.704	5
DAR-017-353	VIRIDIAN	6ClimaTech#2-12Ar90%-6Clr	2.622	0.519	0.704	5

KEY

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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

Energy Rating: CityView 100mm Front Single Glazed

Window Id	Glass Supplier	Glass	Uw	SHGCw	TVw	Air Infil.
DAR-017-354	VIRIDIAN	6LtGry-12Ar90%-6LB#3	2.578	0.378	0.478	5
DAR-017-355	VIRIDIAN	6Gry-12Ar90%-6LB#3	2.578	0.305	0.324	5
DAR-017-356	VIRIDIAN	5Clr/12Ar90/5ClimaTech 3	2.634	0.528	0.696	5
DAR-017-357	VIRIDIAN	5Gy/12Ar90/5ClimaTech 3	2.634	0.343	0.372	5
DAR-017-358	VIRIDIAN	5Clr-12Ar90-5LB 3	2.583	0.515	0.693	5
DAR-017-359	VIRIDIAN	5Gy/12Ar90%/5LB#3	2.583	0.333	0.37	5
DAR-017-360	VIRIDIAN	4Gry-12Ar90%-4CimaTech#3	2.641	0.383	0.438	5
DAR-017-361	VIRIDIAN	4Clr-12Ar90%-4ClimaTech#3	2.641	0.552	0.713	5
DAR-017-362	VIRIDIAN	4Gry-12Ar90%-4LB#3	2.587	0.375	0.436	5
DAR-017-363	VIRIDIAN	4ClimaTech#2/12Ar90%/4Clr	2.641	0.512	0.713	5
DAR-017-364	VIRIDIAN	4Clr-12Ar90-4LB	2.587	0.544	0.71	5
DAR-017-365	VIRIDIAN	4LB#2-12Ar90%-4ClrEtech#4	2.349	0.483	0.651	5
DAR-017-366	VIRIDIAN	4ClimaTech#2/12Ar90%/4ClrEtech#4	2.389	0.483	0.654	5

KEY

Lam = Laminate, Sp = Super, EV = Eantage, 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

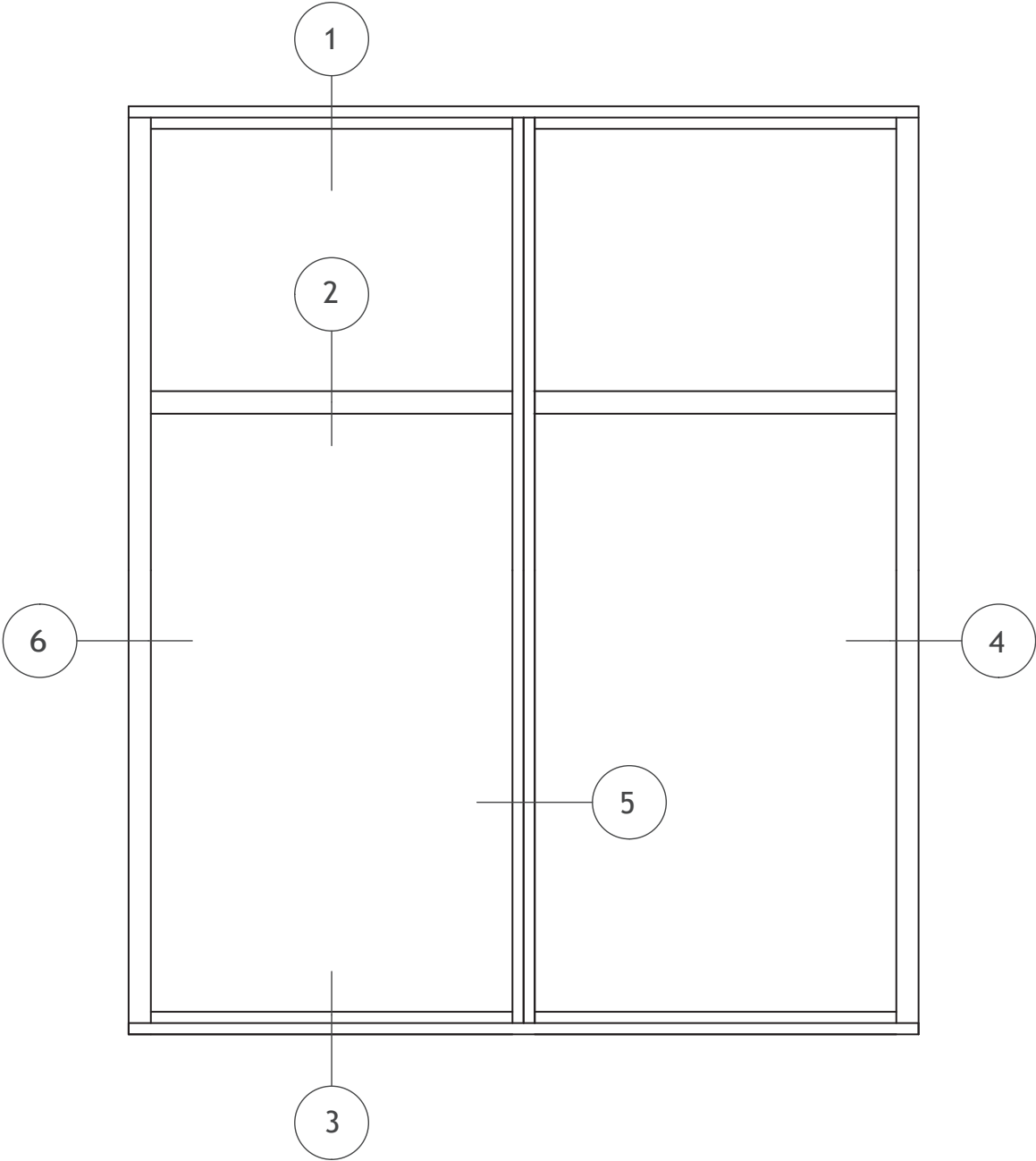
1. Percentage improvement figures are compared with using base-case Generic Window 1 (3mm clear in standard aluminium frame)
2. A negative percentage improvement figure indicates performance worse than the base-case window
3. A positive percentage improvement figure indicates performance better than the base-case window
4. Maximum air infiltration is 5.0 L/s.m² at a positive pressure difference of 75Pa as measured according to AS 2047
5. Static performance (U, SHFC, Tw, 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

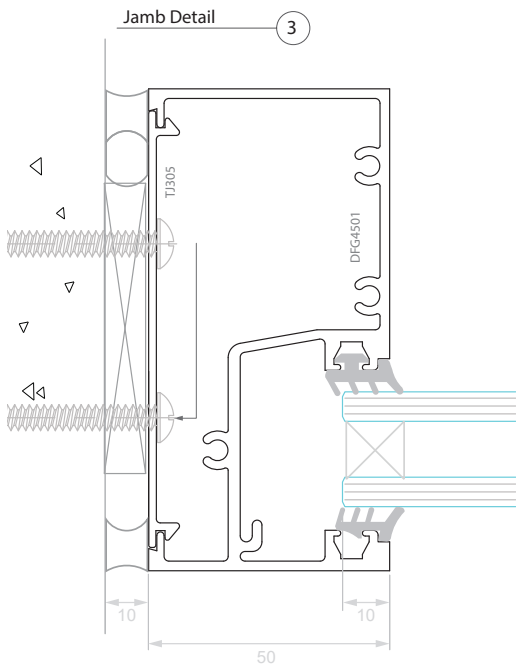
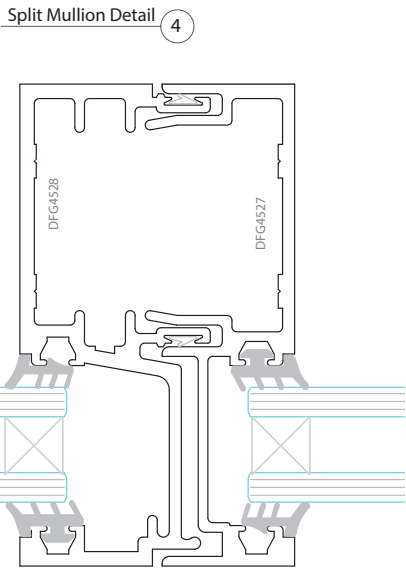
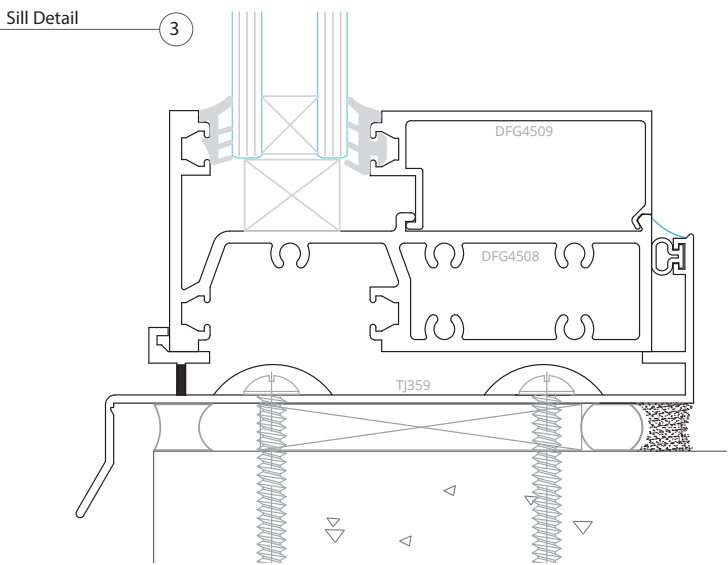
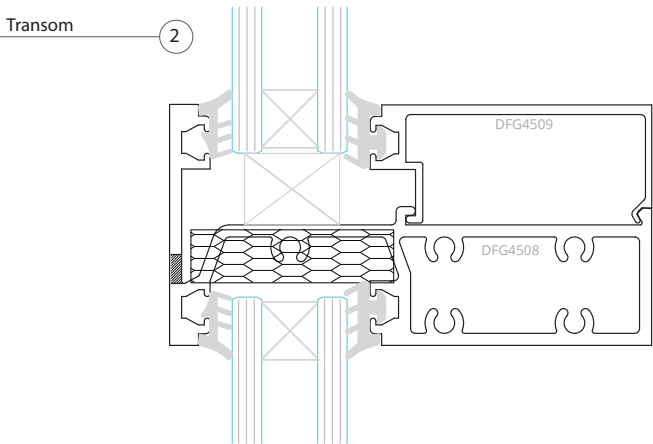
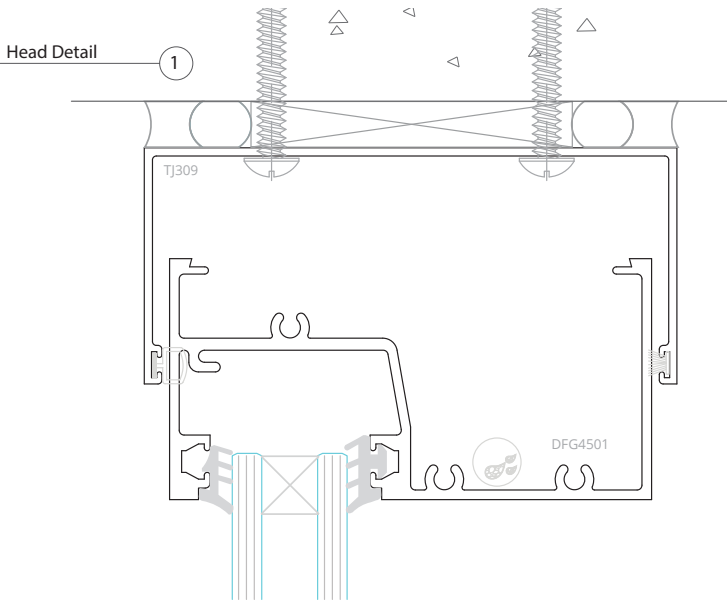
Fabrication



Copyright and important information on page 3

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

Cross Sections



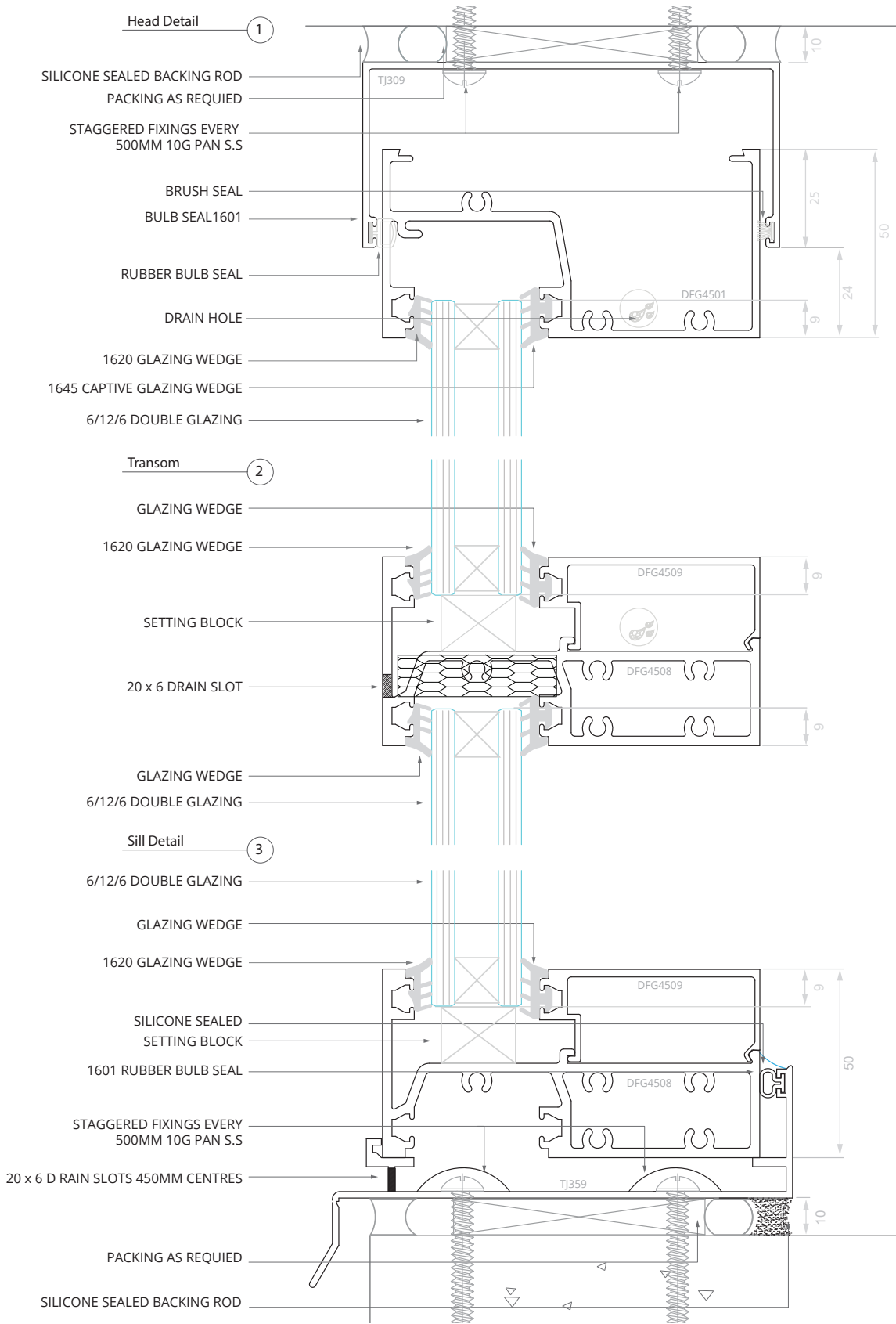
Fabrication

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Head & Sill Option

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

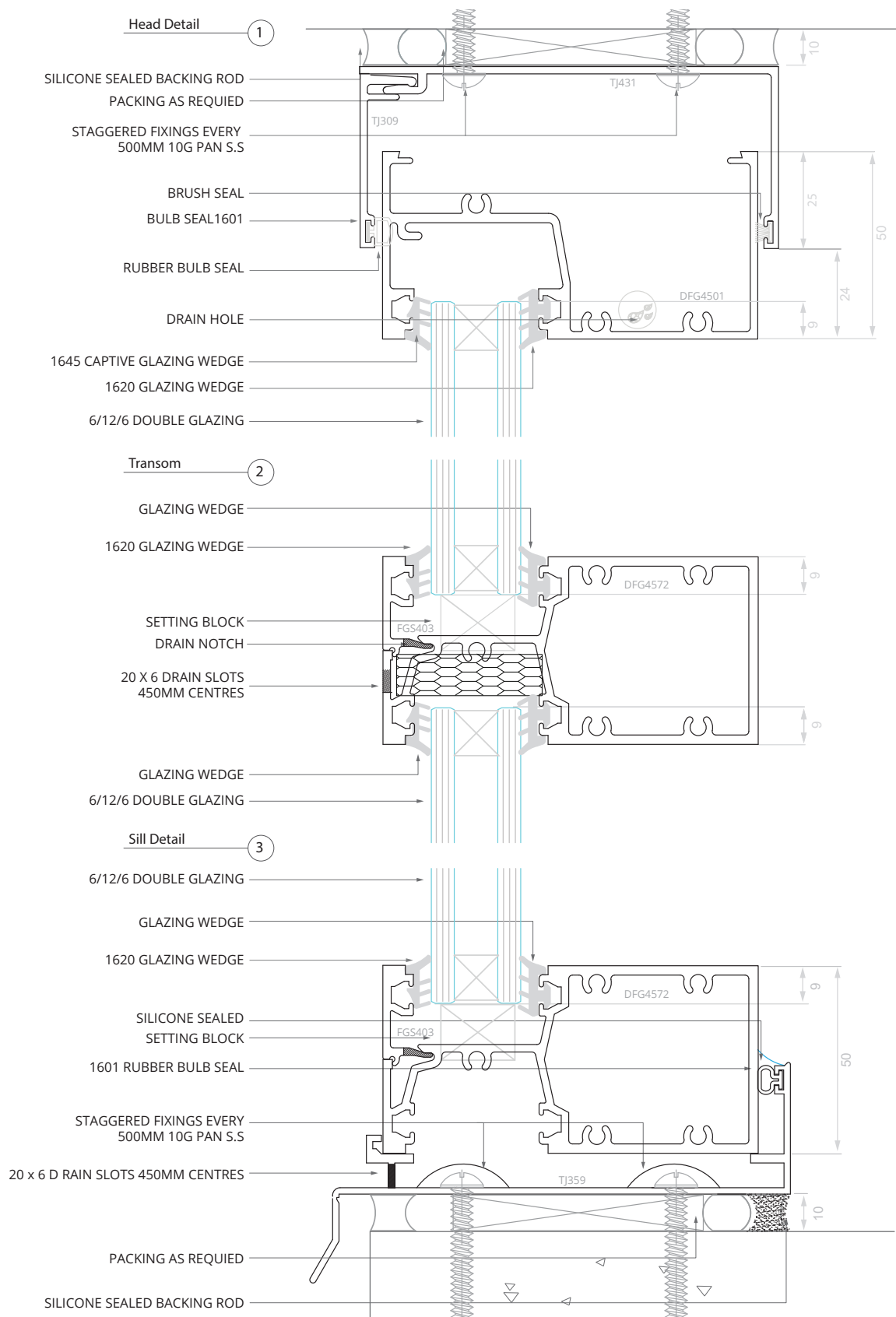
Fabrication



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Head & Sill Option

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



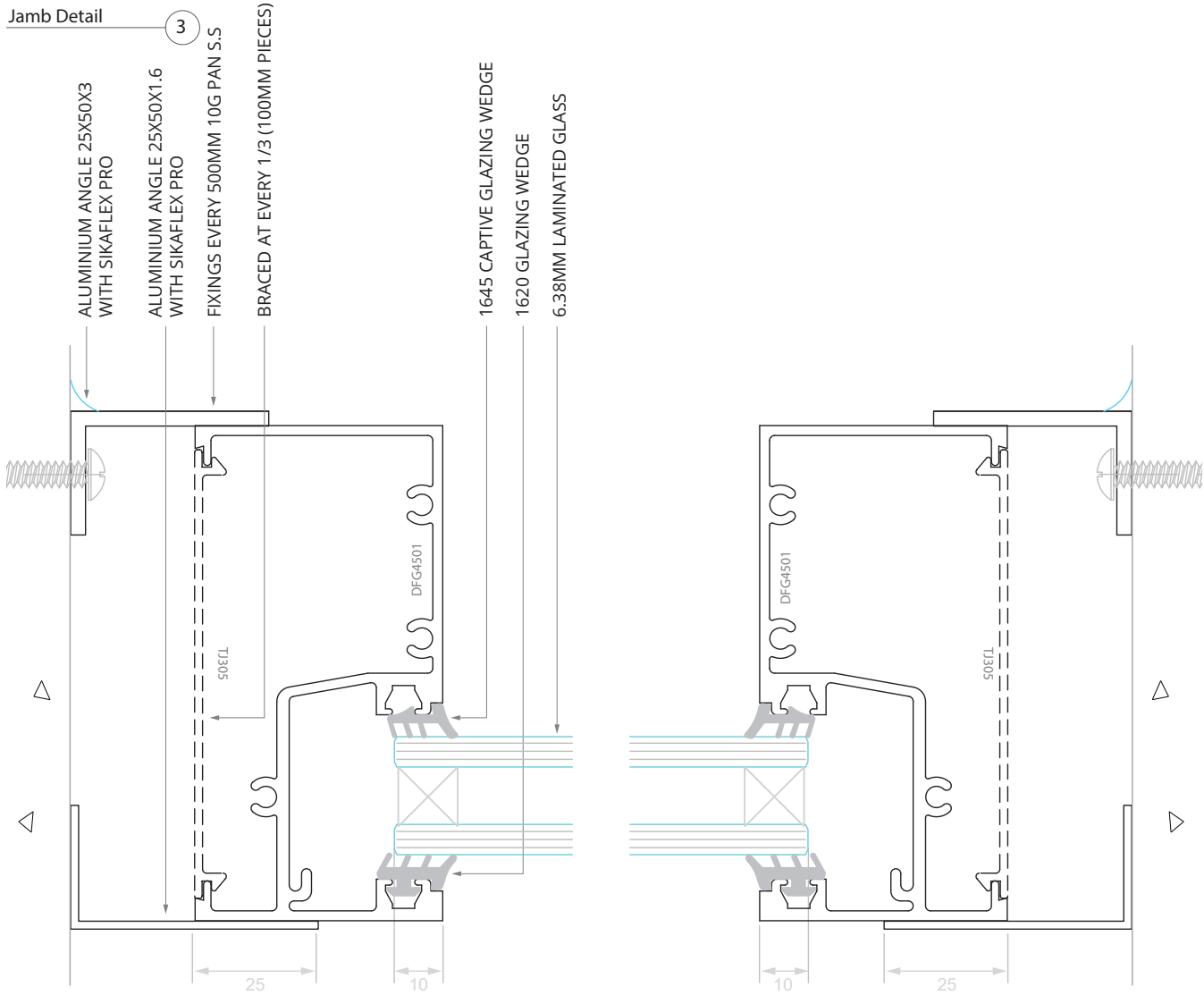
Fabrication

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Jamb Option: Angle

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

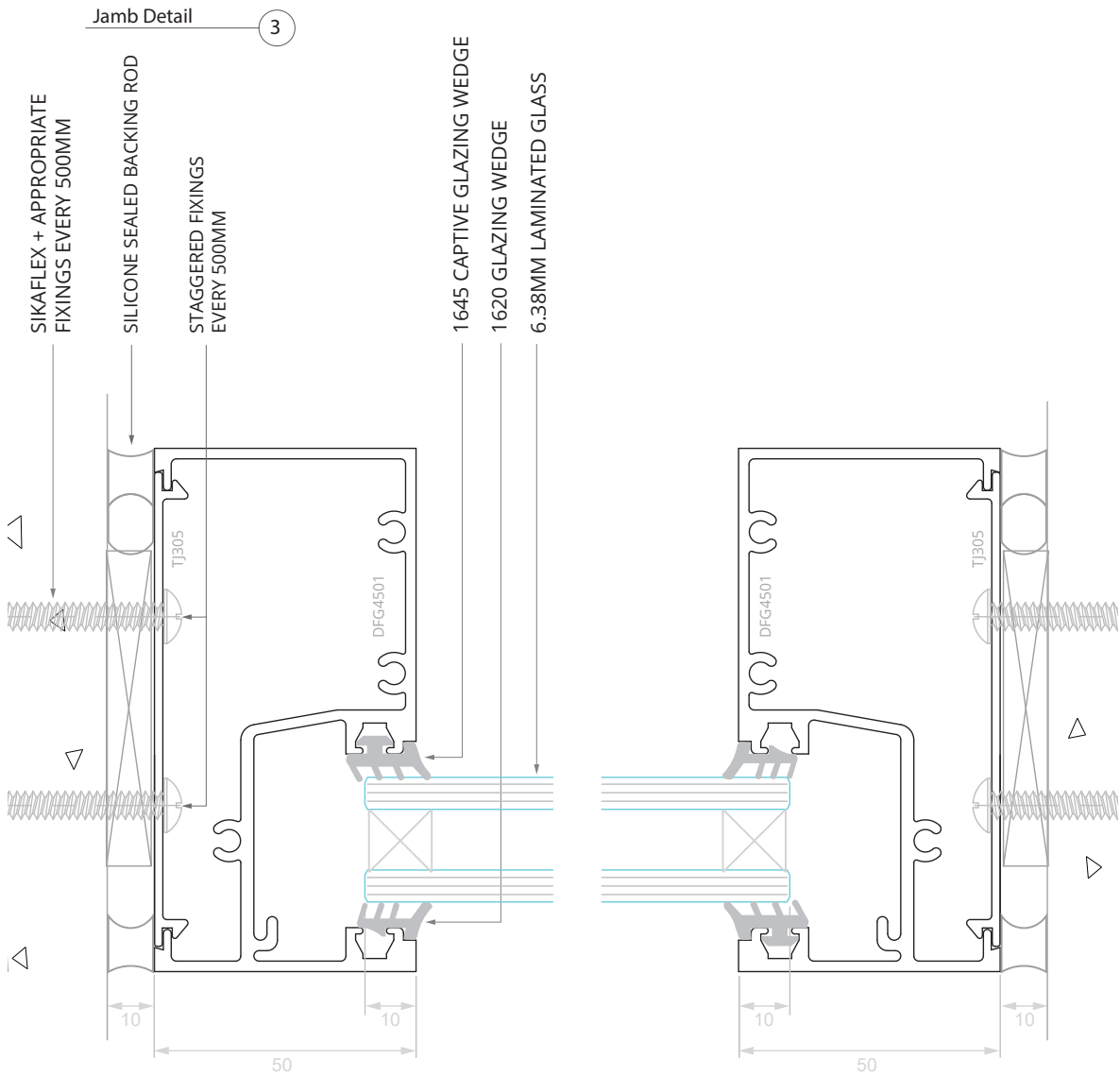
Fabrication



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Jamb Option: Sub Jamb

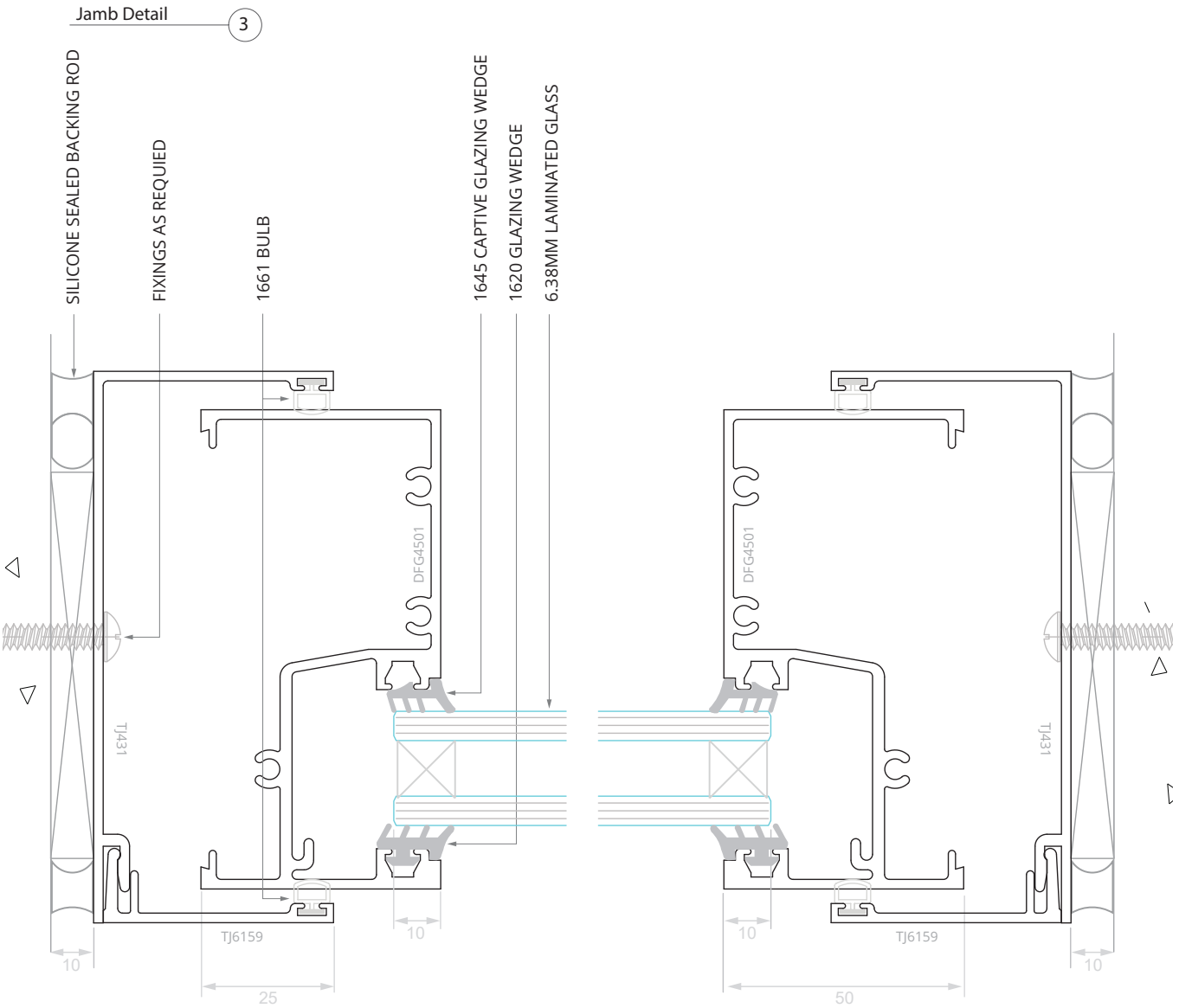
All raw joints need to be sealed with small joint sealer or foam tab option.



Jamb Option: Sub Jamb

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

Fabrication

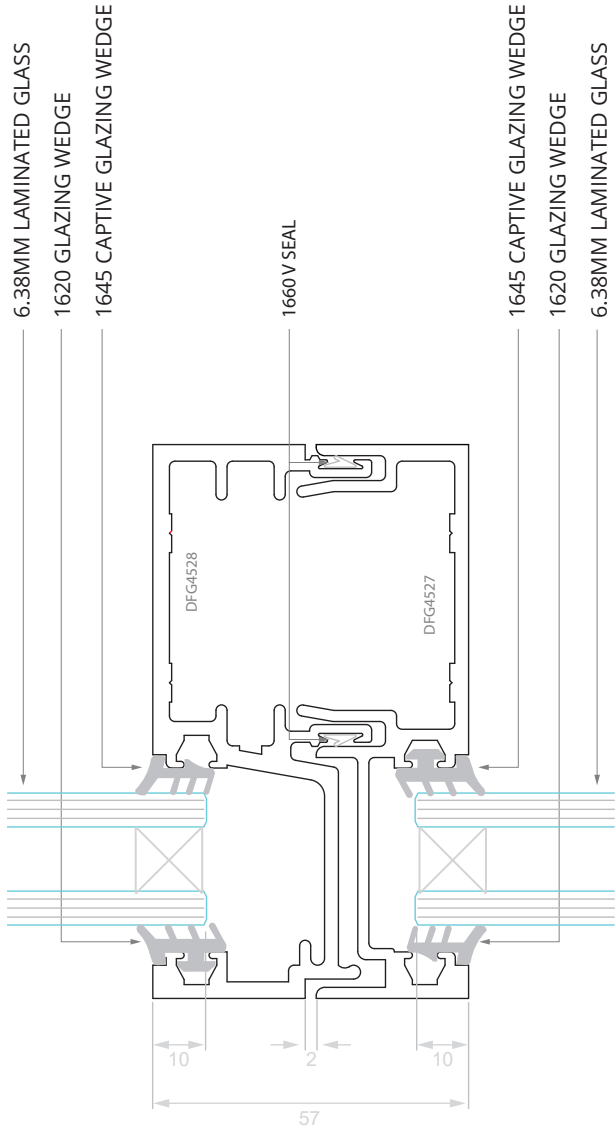


100 X 50 FRONT DG FRAMING SYSTEM

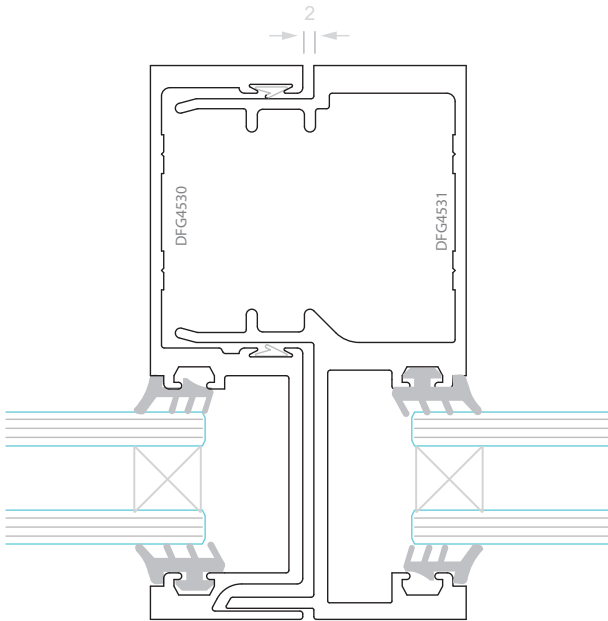
Mullion

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

Split Mullion Detail ④



Split Mullion Detail ④

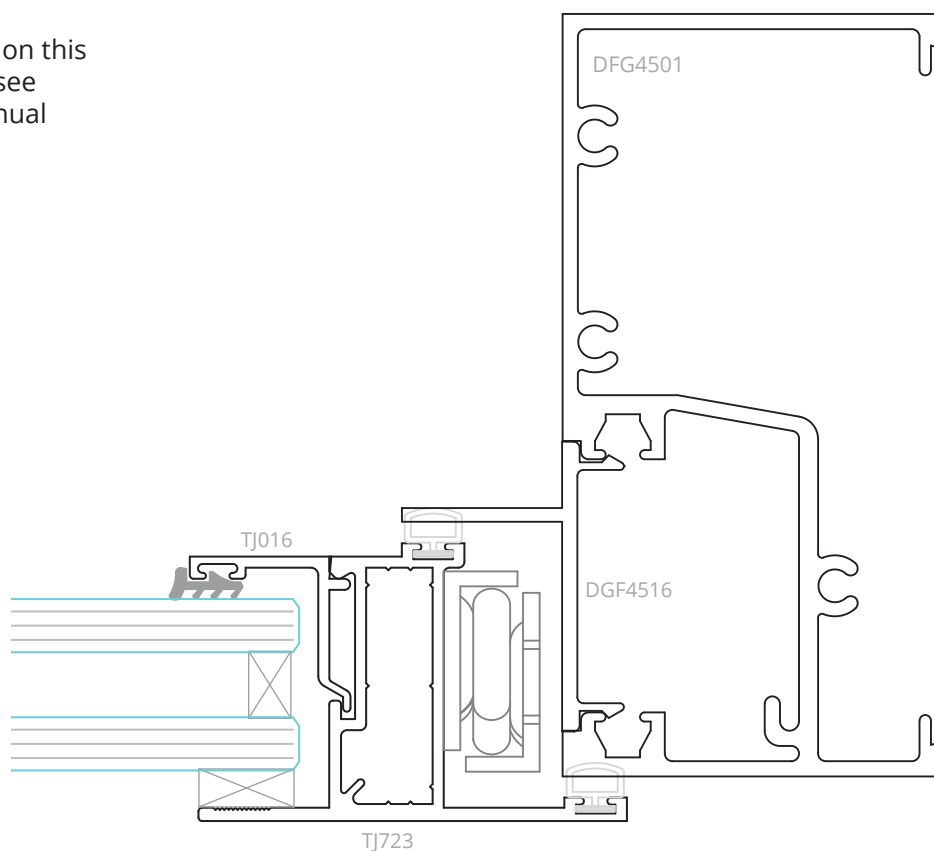


Fabrication

CityView 35mm awning

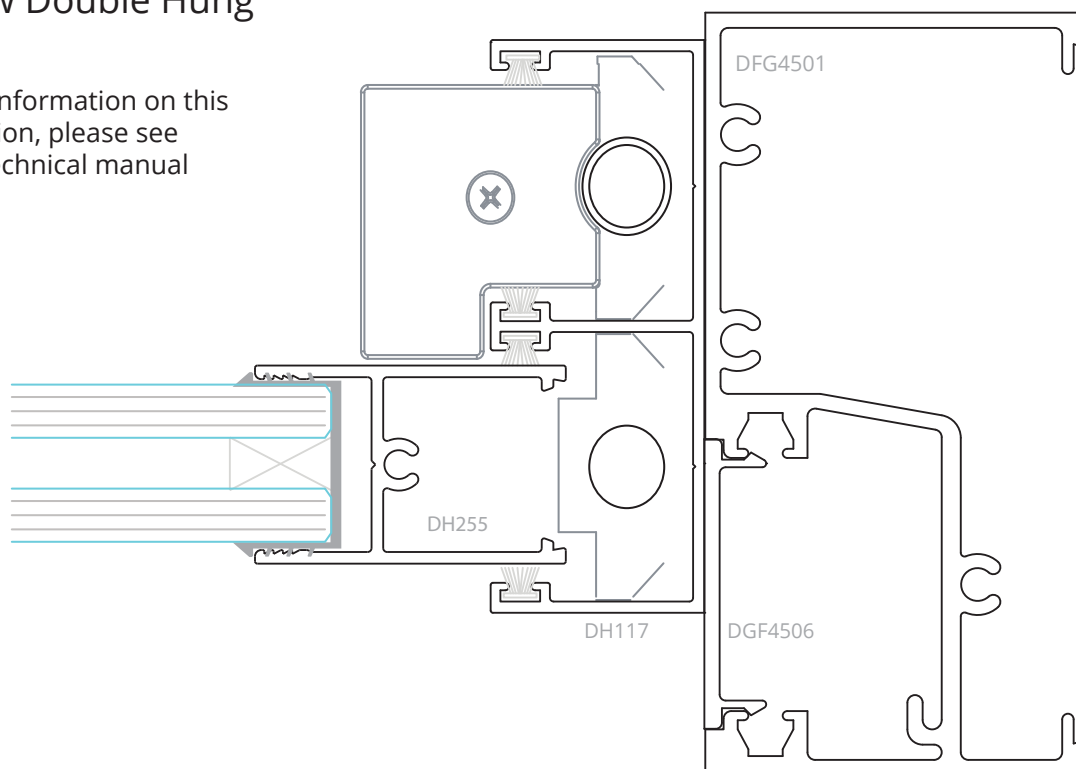
Scale 1:1

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



CityView Double Hung

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

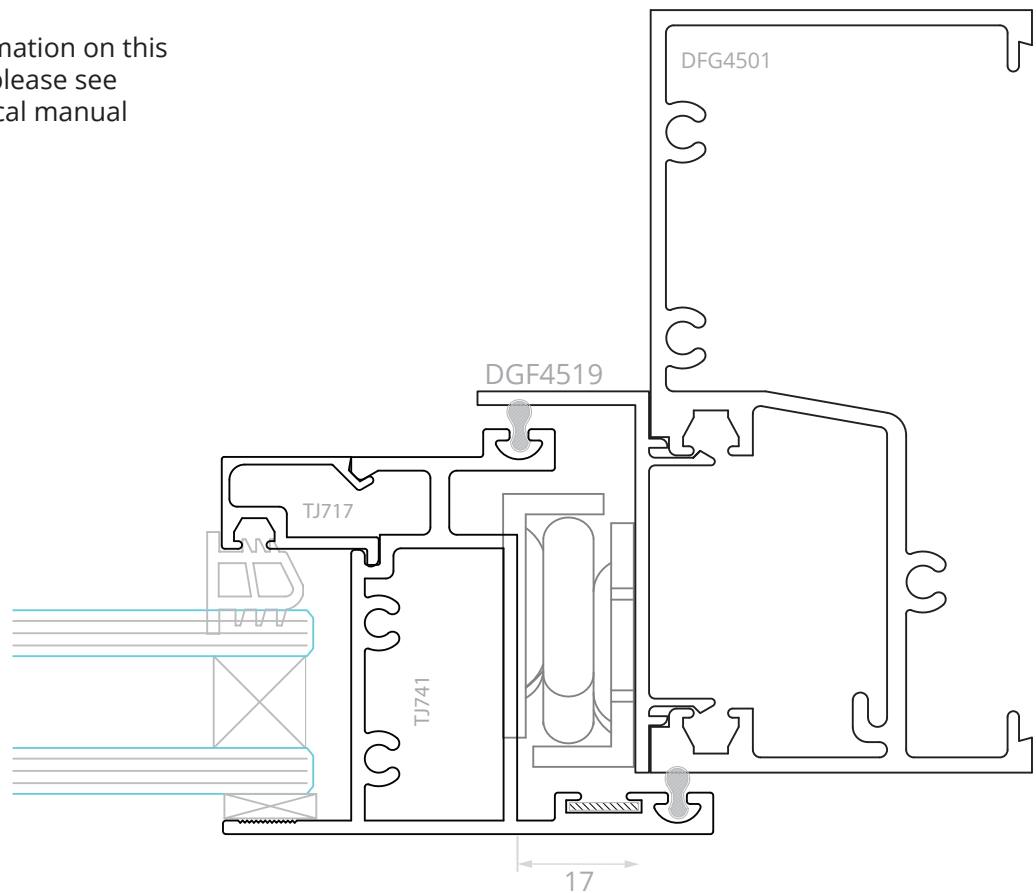


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CityView 50mm Awning/Casement

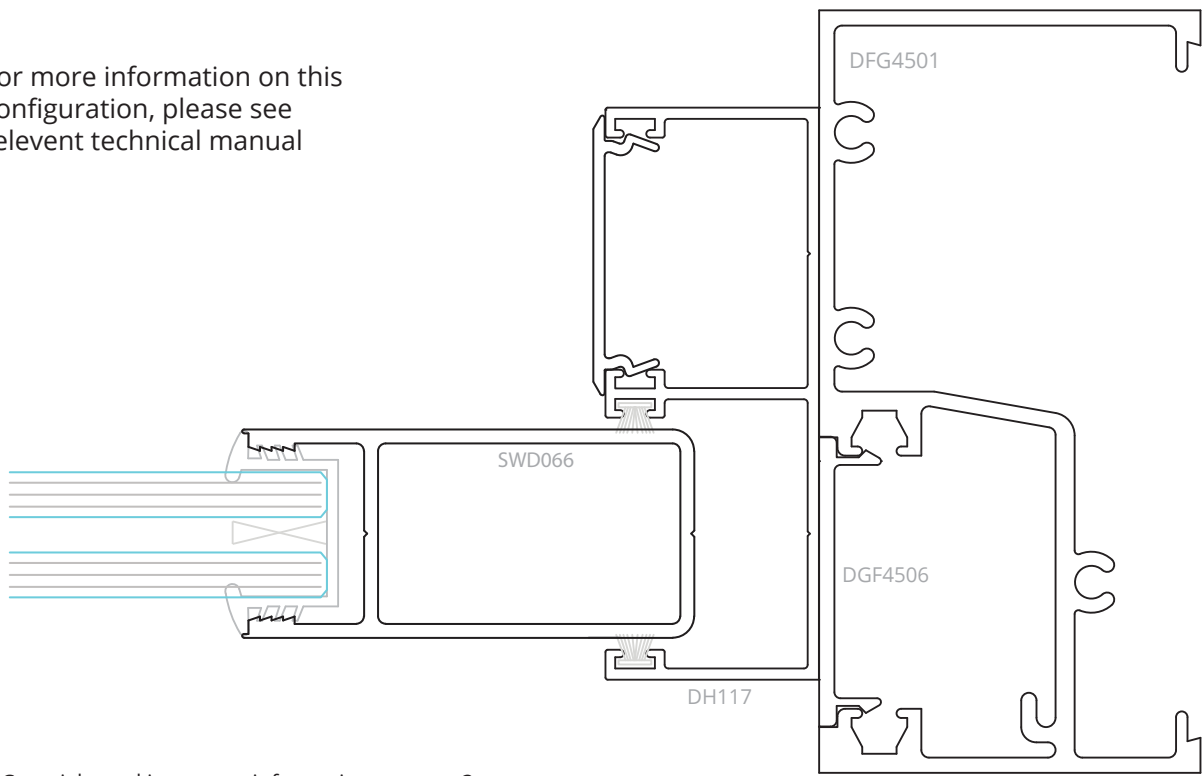
Scale 1:1

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



CityView Sliding Window - Single Piece

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



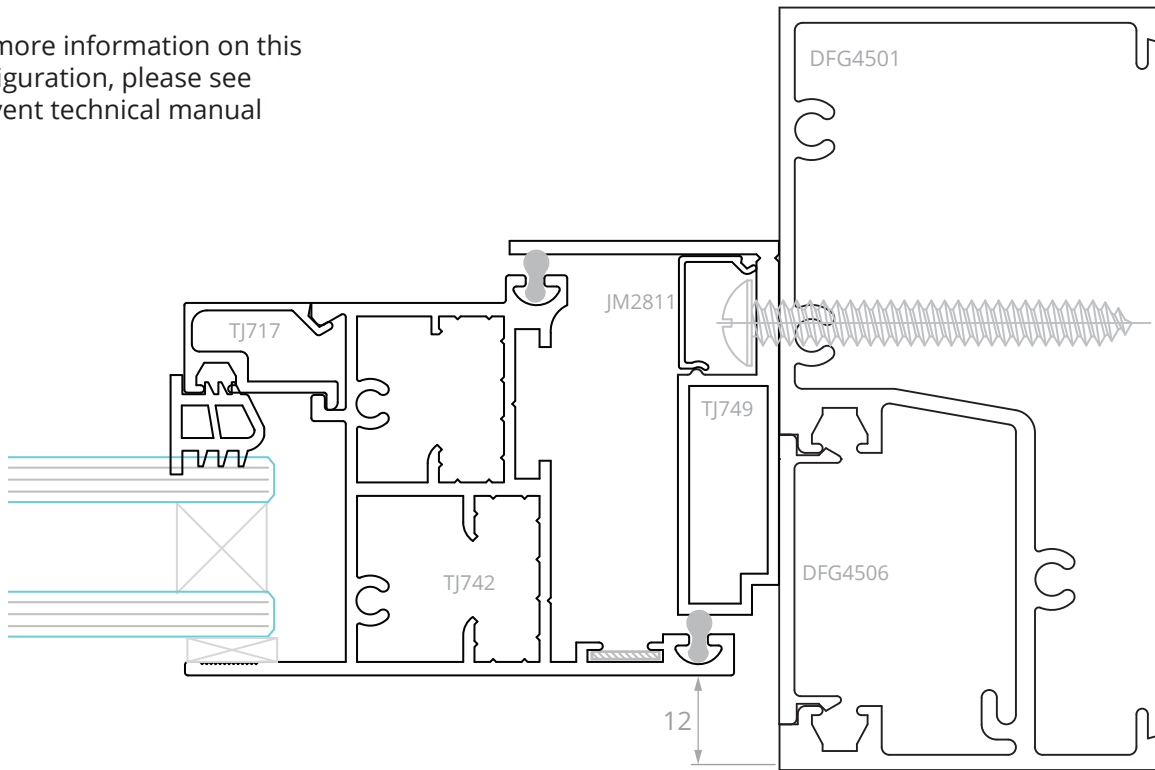
Fabrication

Copyright and important information on page 3

CityView 50mm Hook Awning

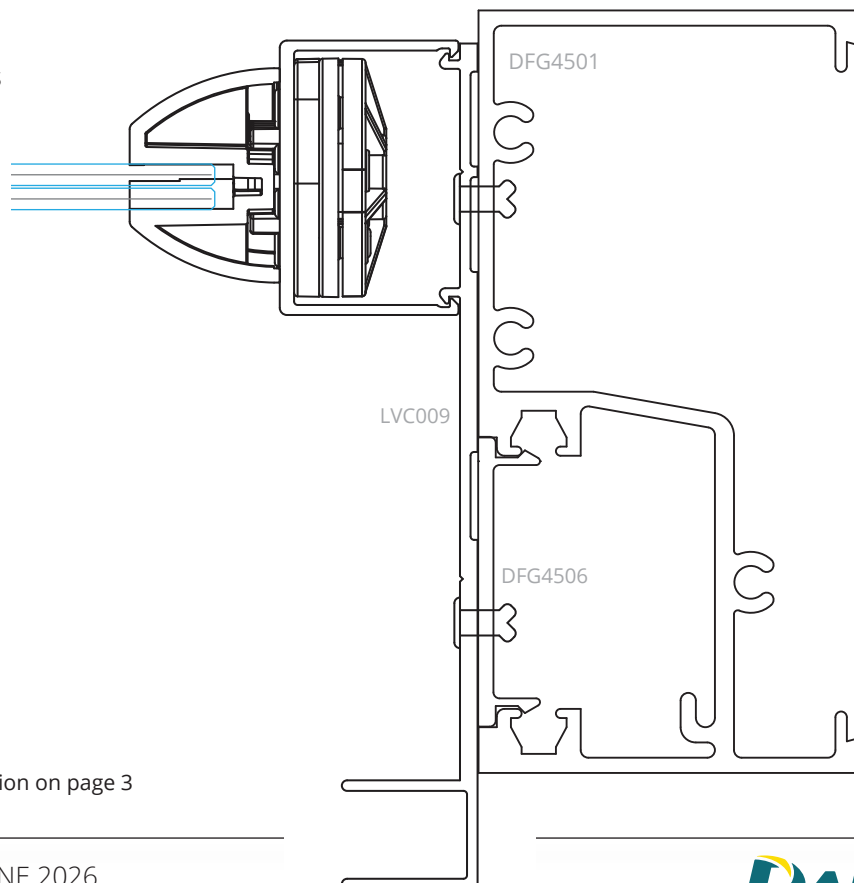
Scale 1:1

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



CityView Louvre Window

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

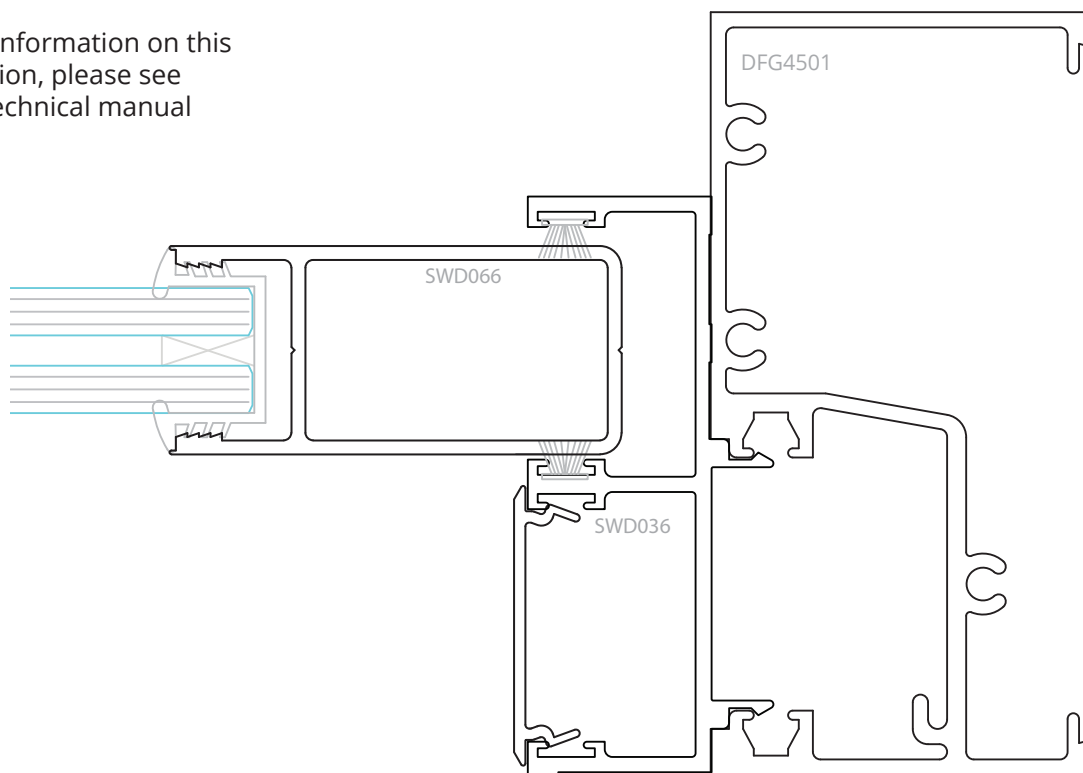


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CityView Patio Door - Single Piece

Scale 1:1

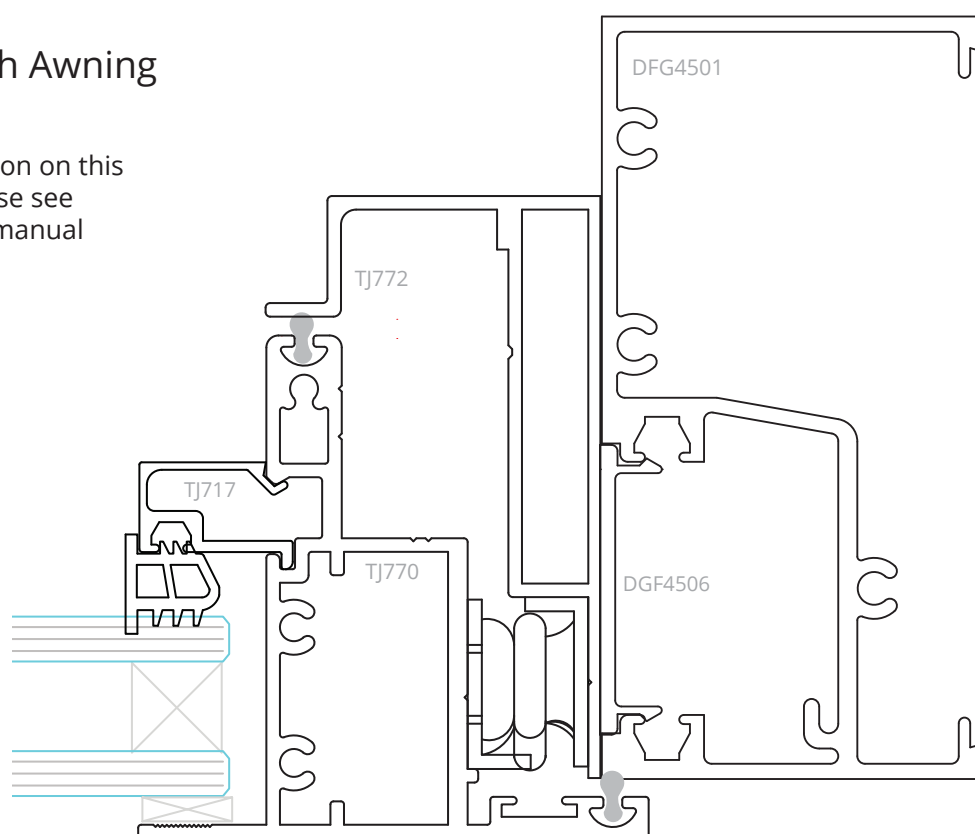
For more information on this configuration, please see relevant technical manual



Fabrication

CityView Truth Awning

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

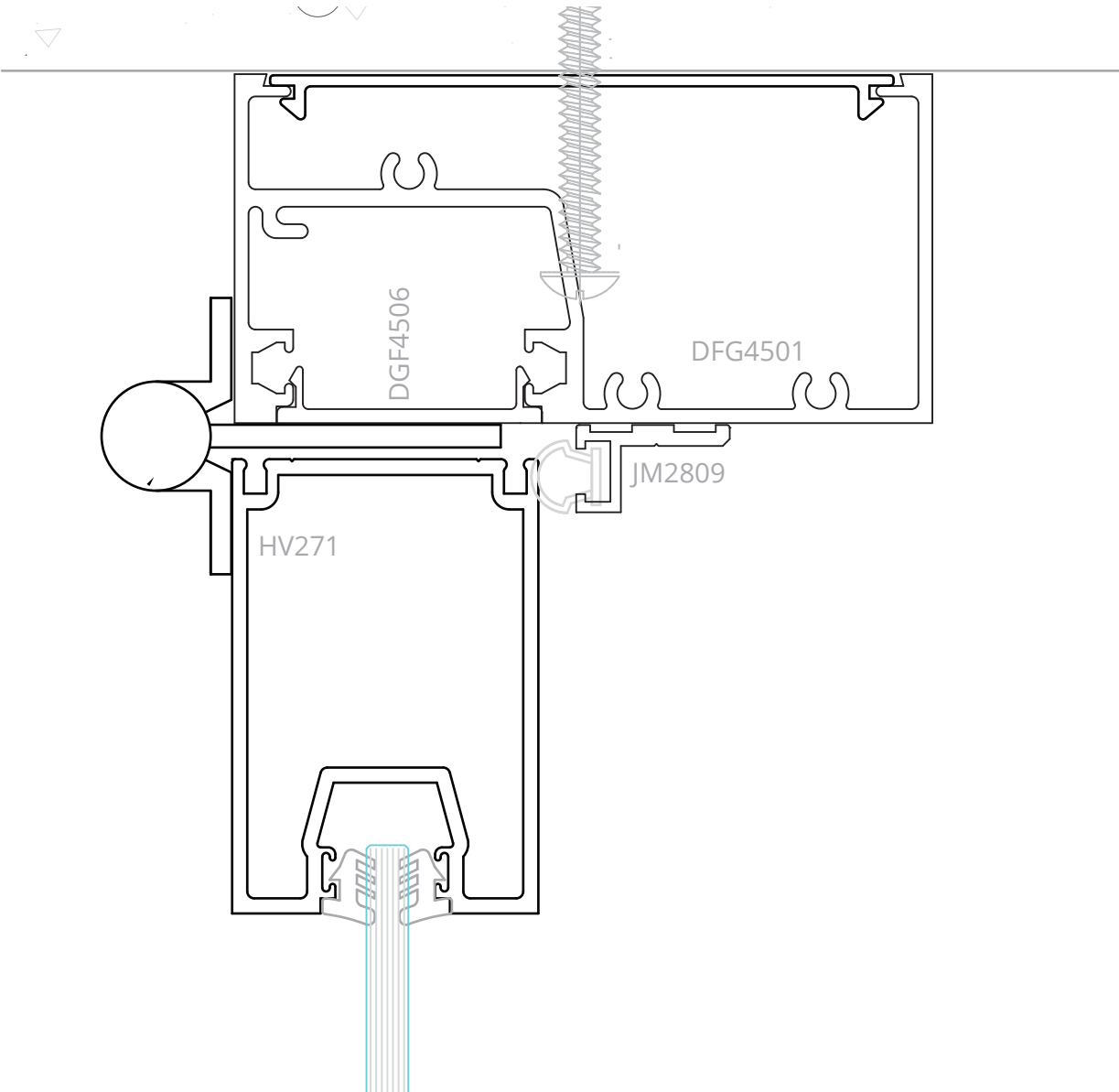


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CityView Servery Strut Window

Scale 1:1

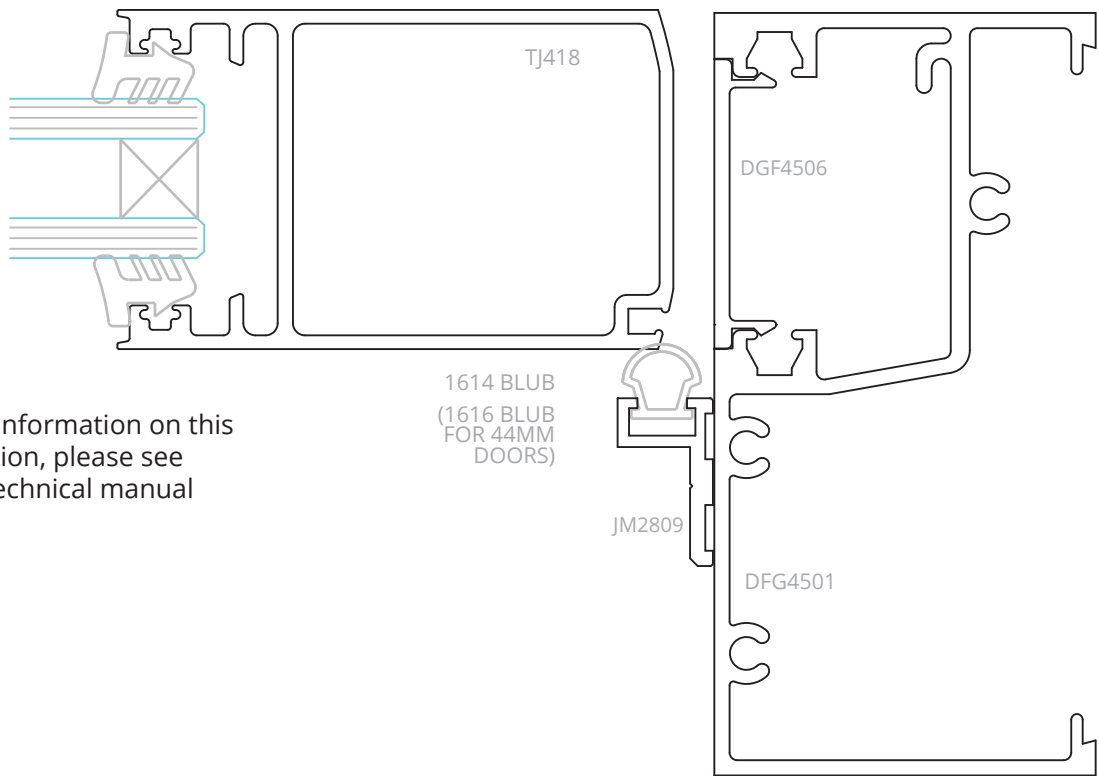
Fabrication



CityView 40/44mm Hinge Door

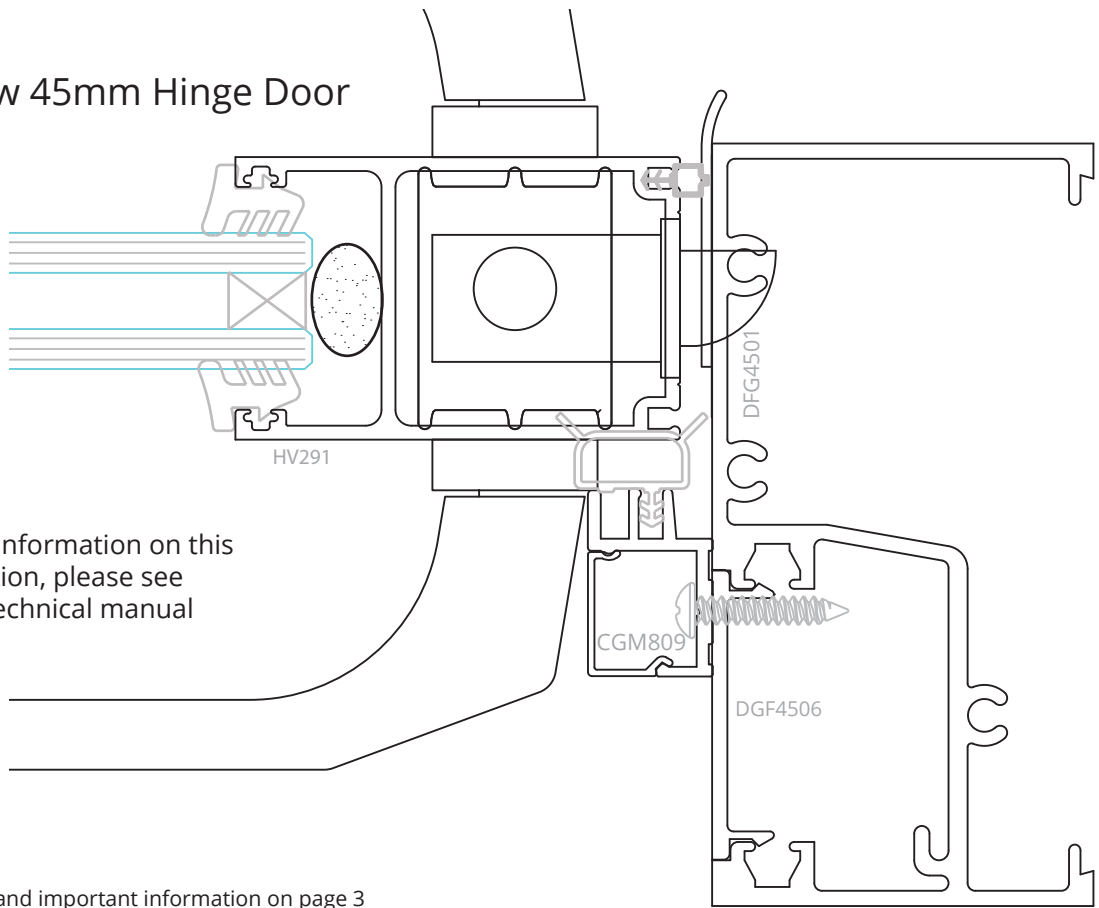
Scale 1:1

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



Fabrication

CityView 45mm Hinge Door



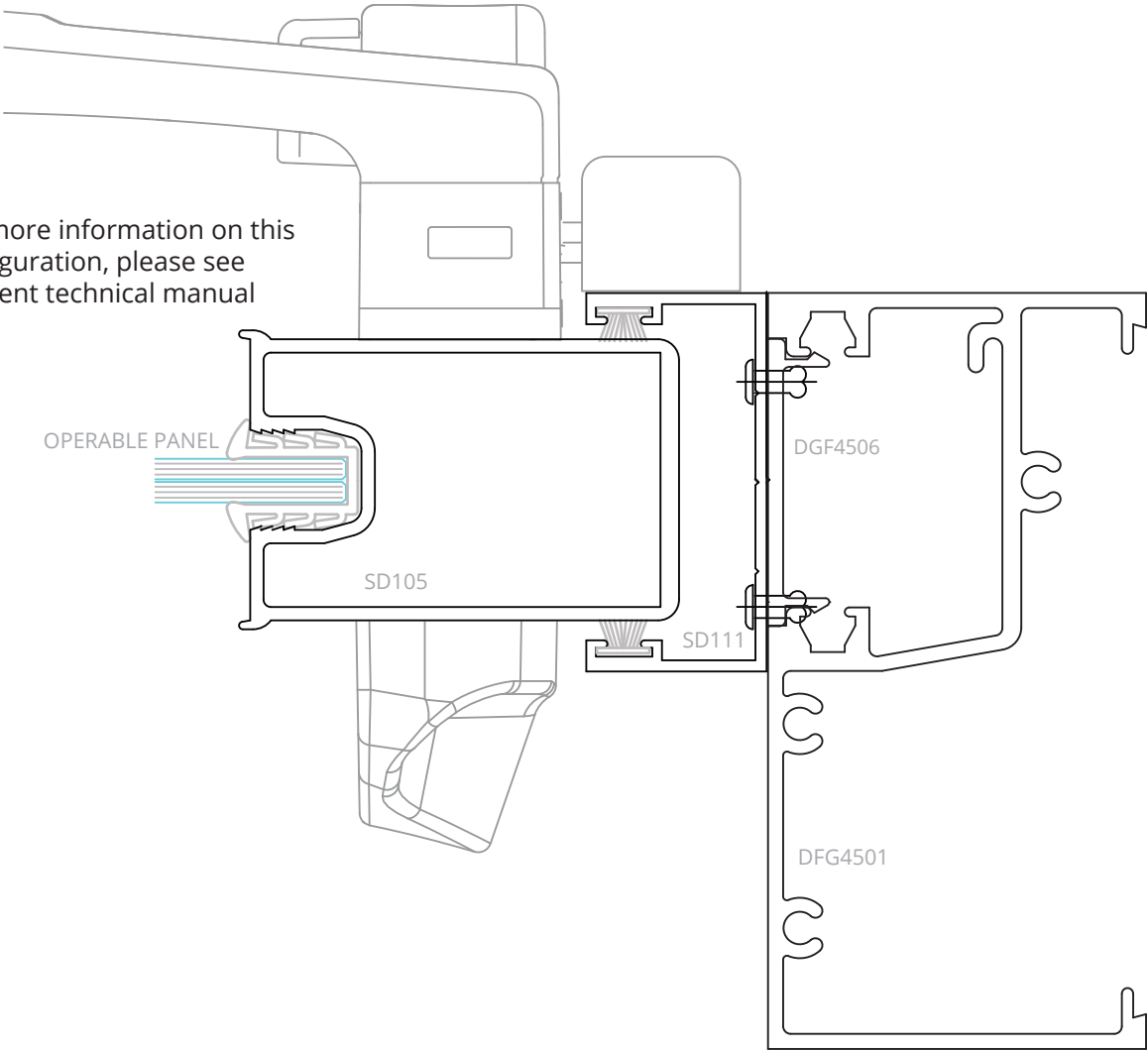
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CityView 45mm Hinge Door

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 relevant technical manual

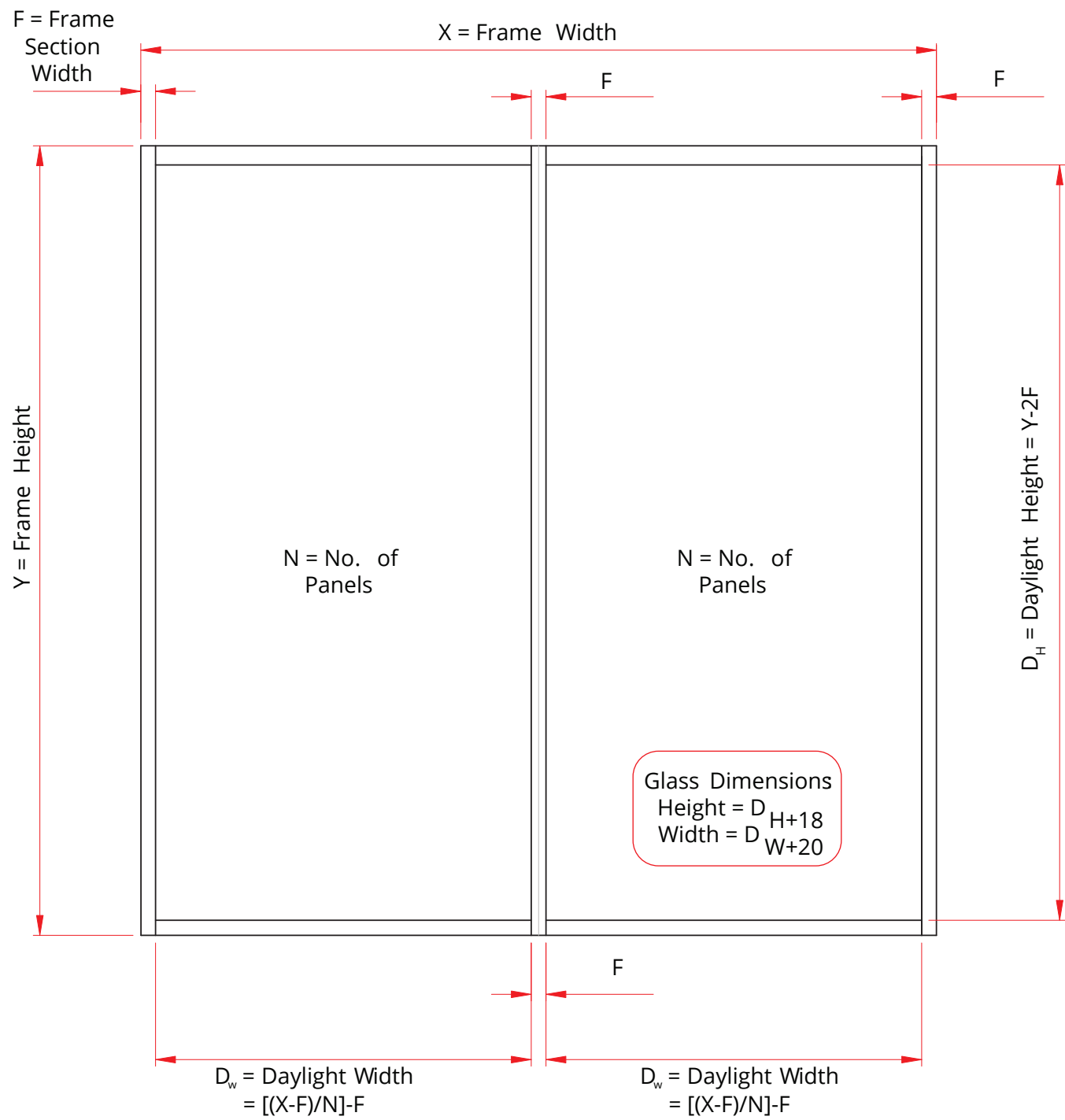


Fabrication

Cutting Formula

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

Machining



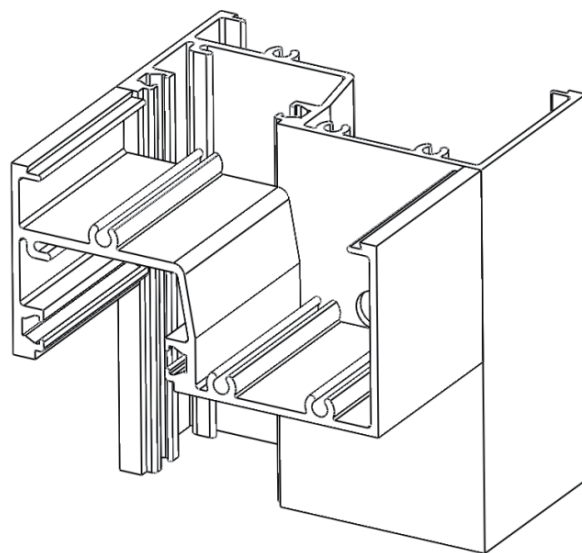
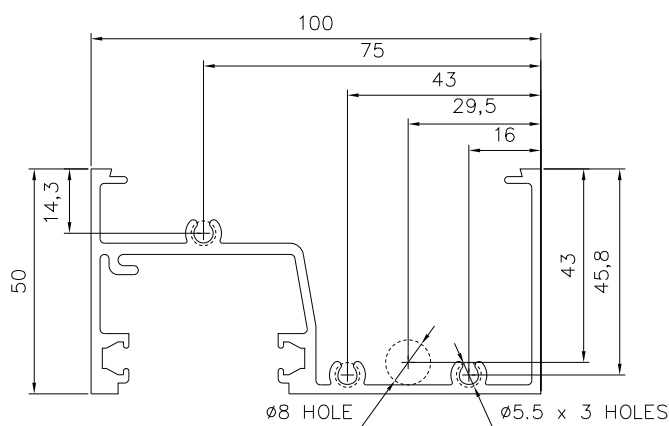
Fabrication

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Machining Details: Head

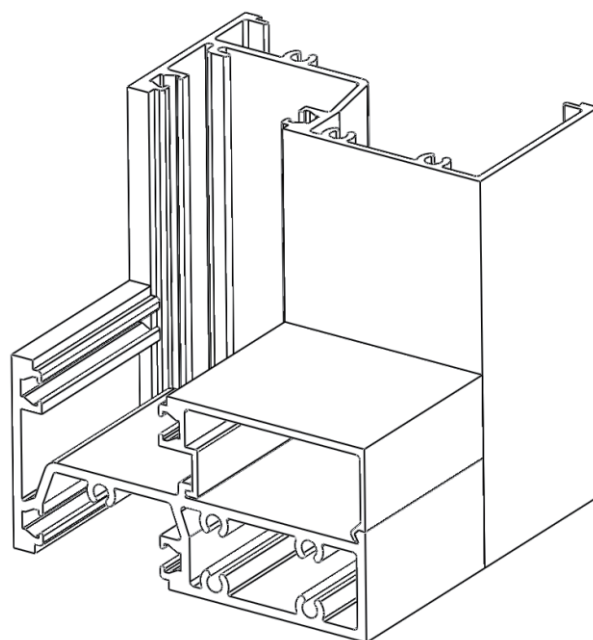
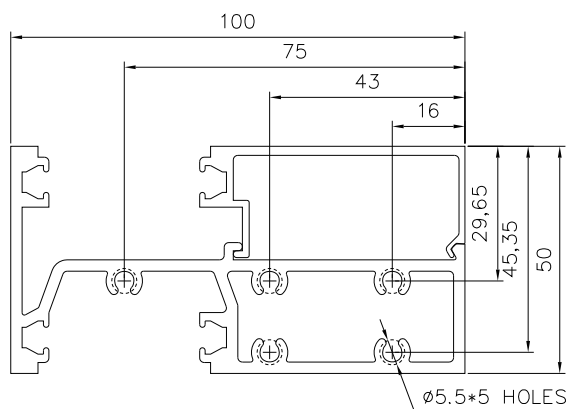
All raw joints need to be sealed with small joint sealer or foam tab option.

1 - DGF4501 Head



2 - DGF4508 Sill & Transom

(Internal Bead)



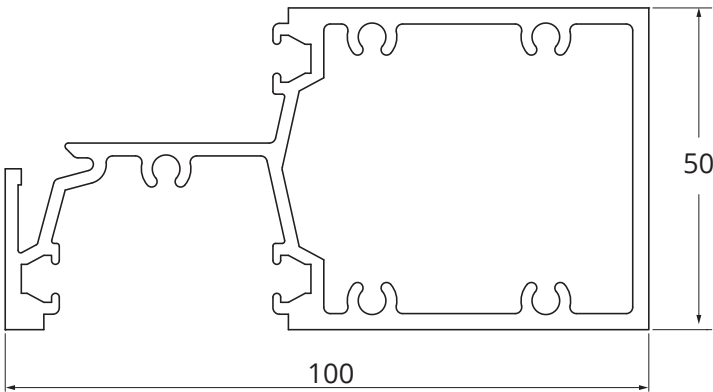
Copyright and important information on page 3

Machining Details: Transom

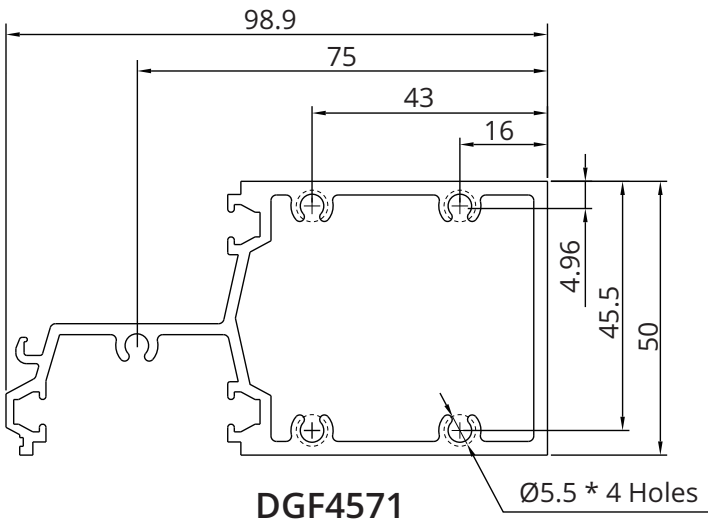
All raw joints need to be sealed with small joint sealer or foam tab option.

3 - DGF4572 Sill &Transom (External Bead)

Note: Same screw flute machining as DGF4571 below.



4 - DGF4571 Transom



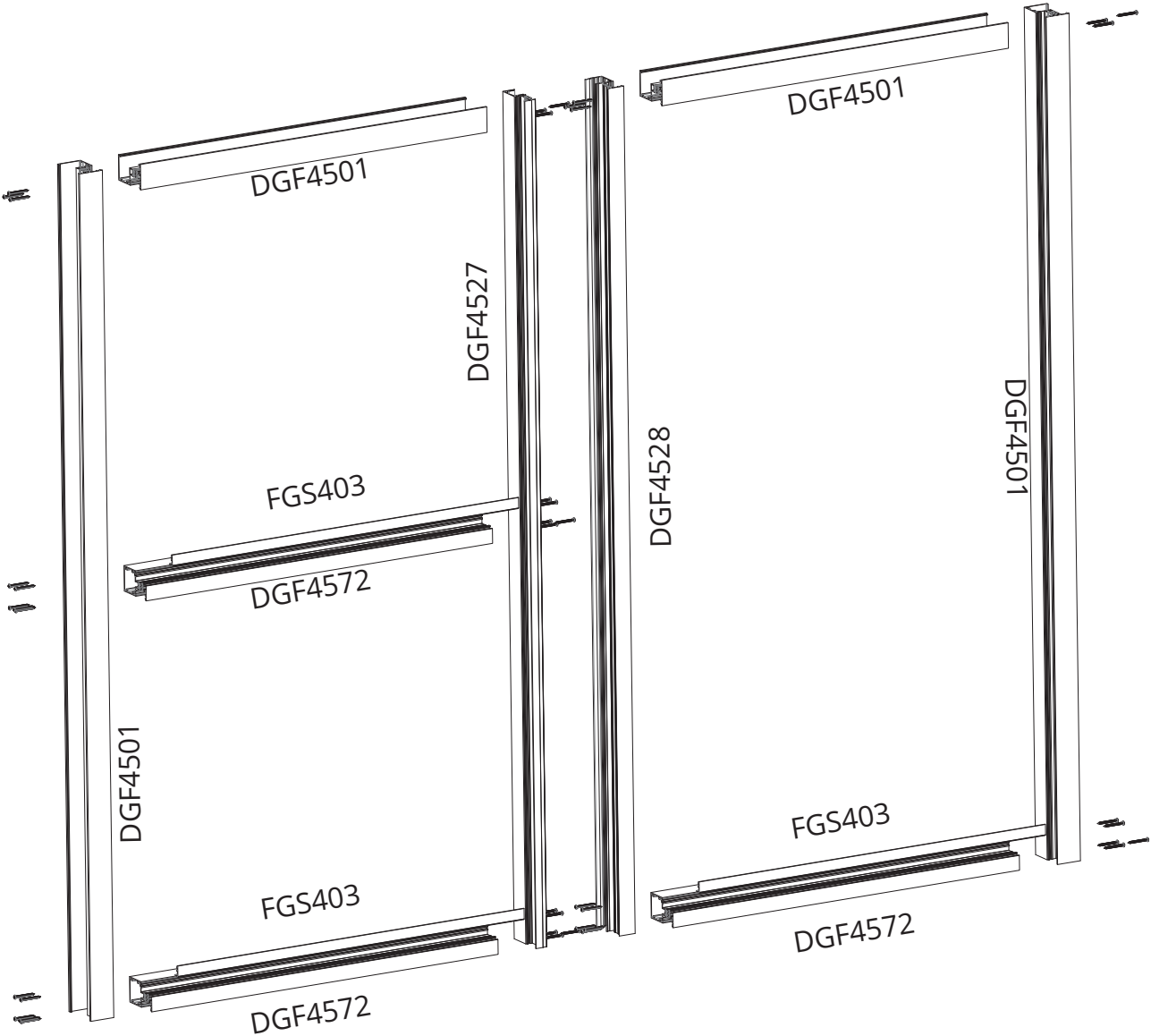
100 X 50 FRONT DG FRAMING SYSTEM

Exploded Assembly Overview

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

Assembly

Fabrication

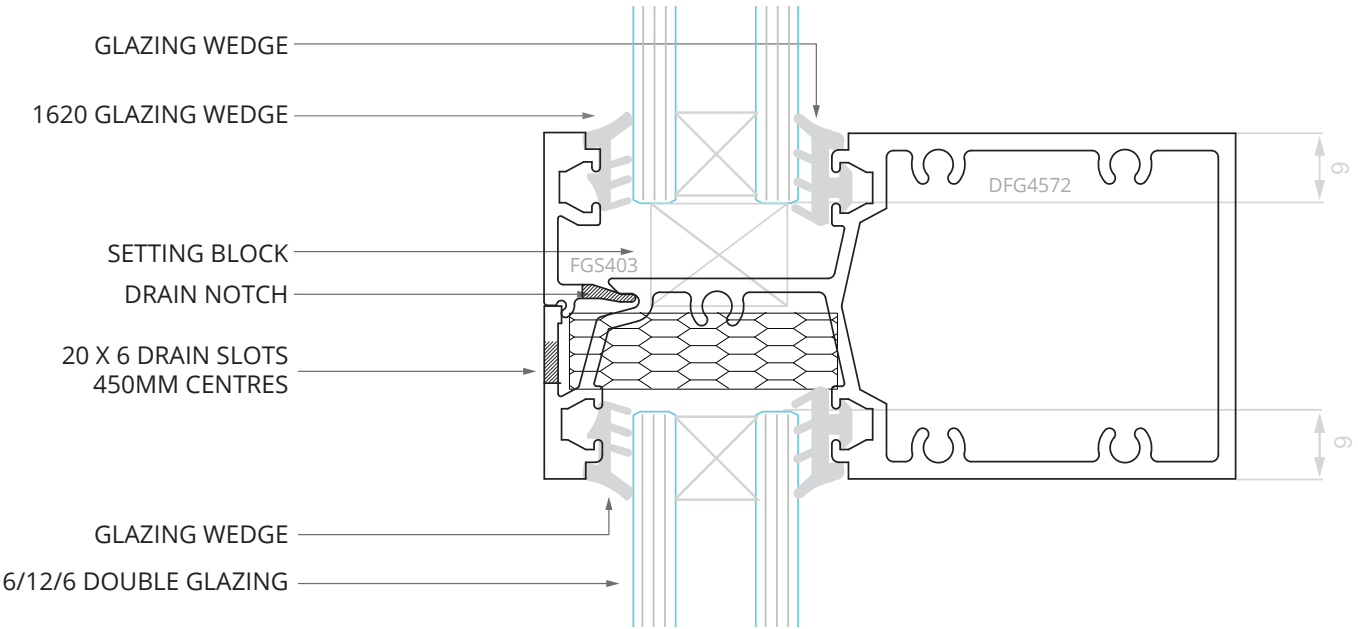
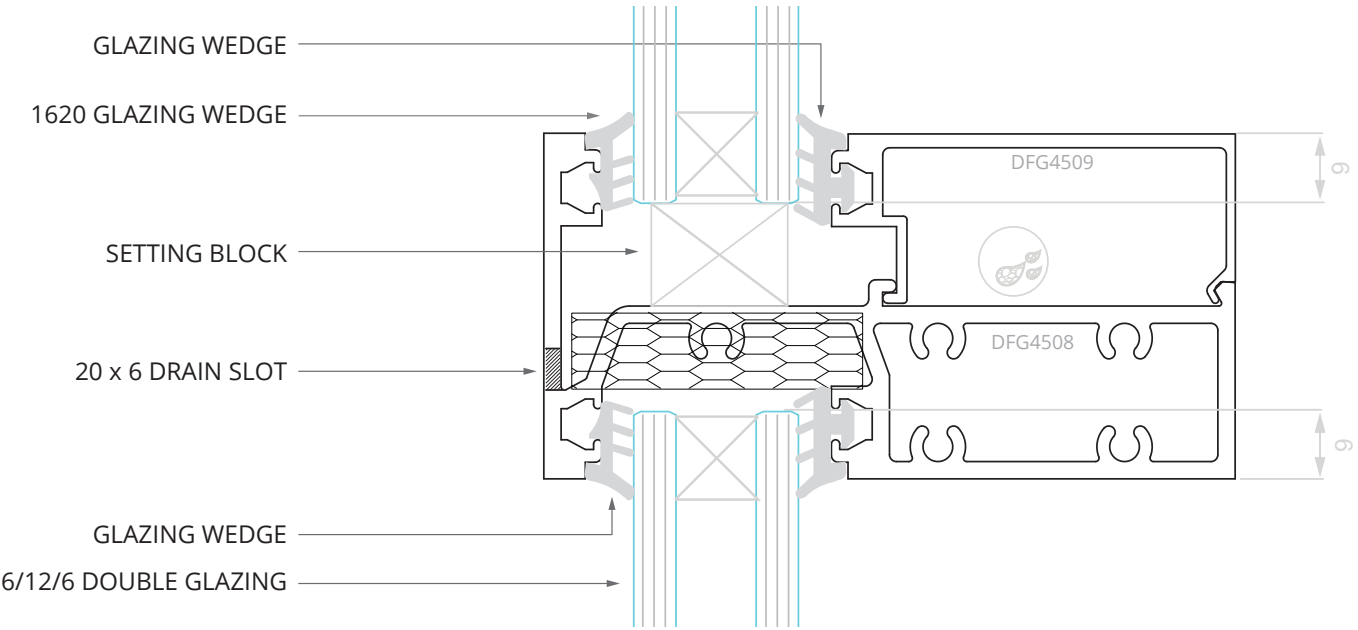


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100 X 50 FRONT DG FRAMING SYSTEM

Transom Plug Insertion

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

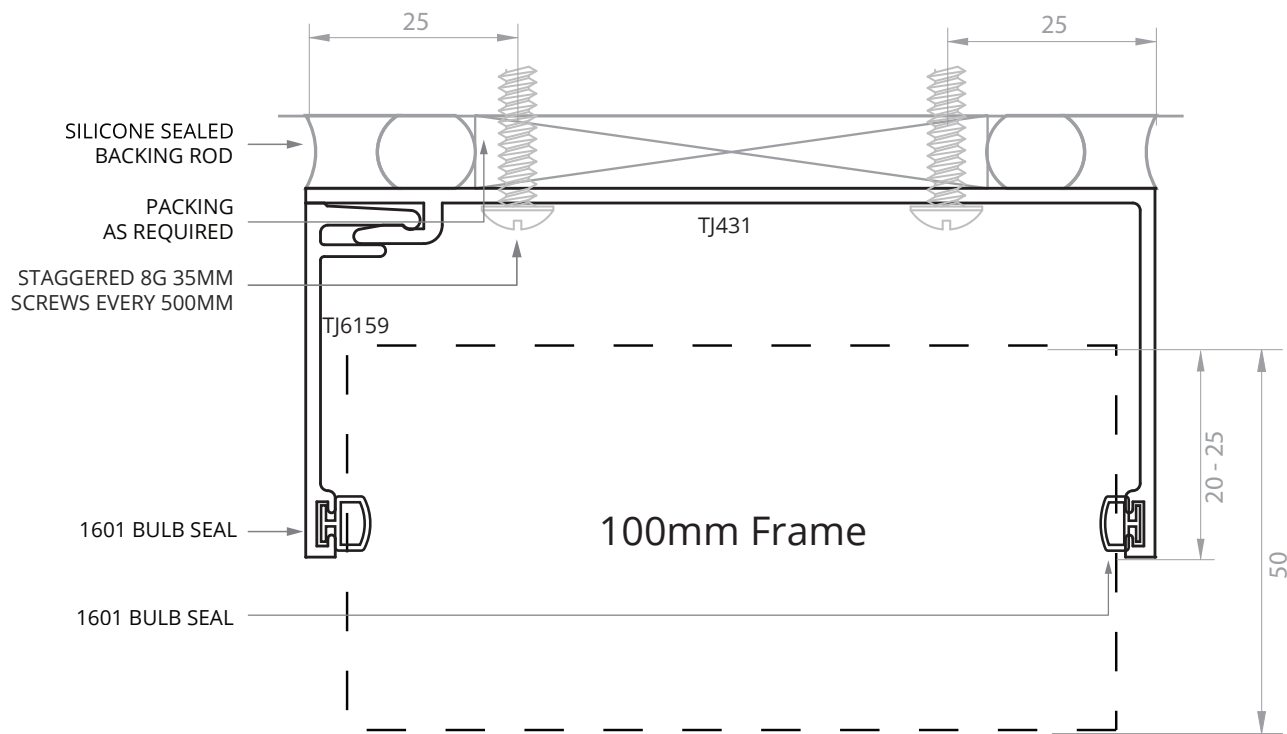
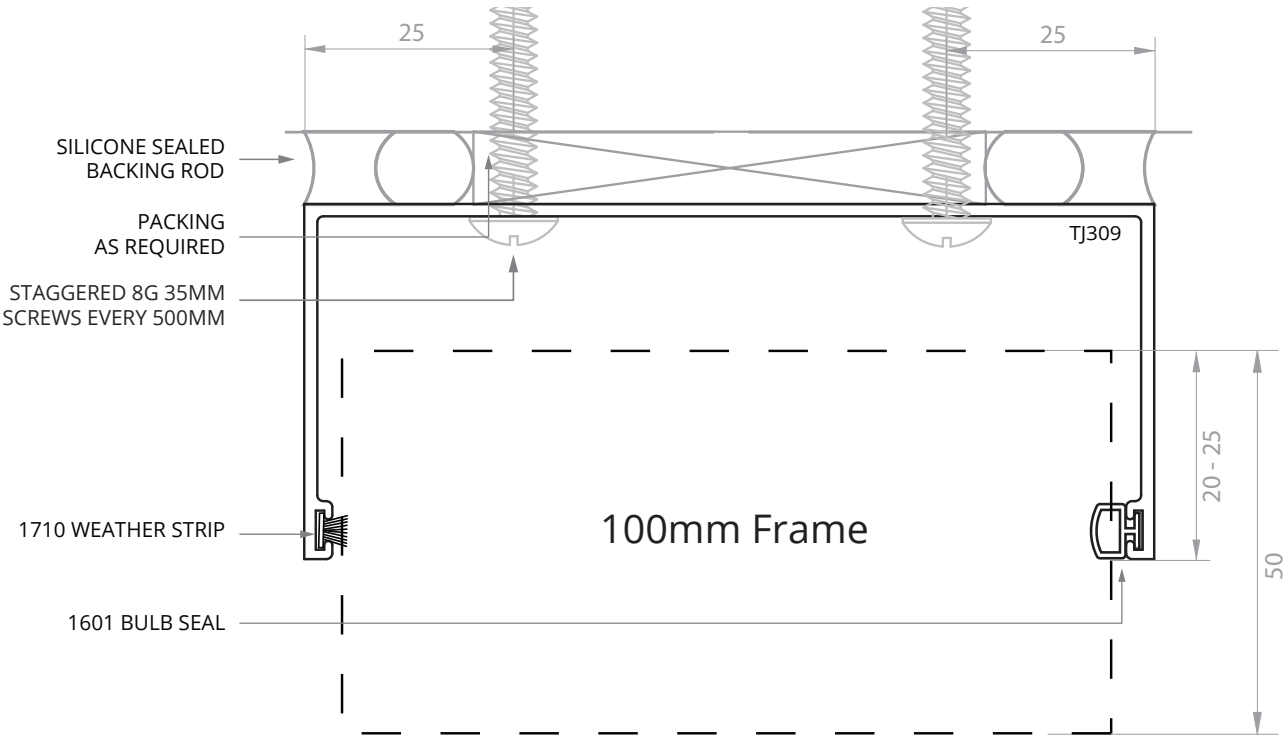


Fabrication

100mm Subhead Options

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

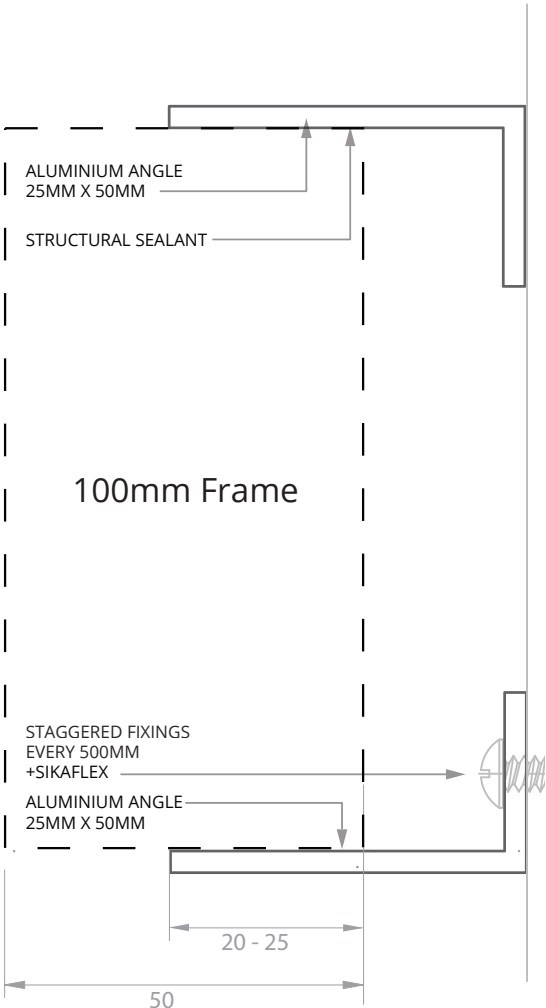
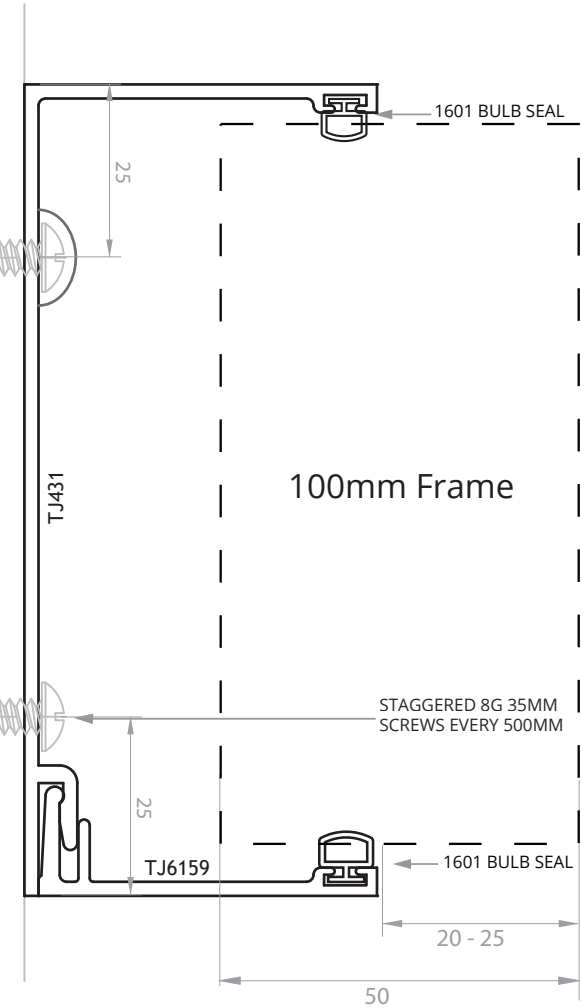
Fabrication



100 X 50 FRONT DG FRAMING SYSTEM

100mm SubJamb Options

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



Fabrication

Copyright and important information on page 3

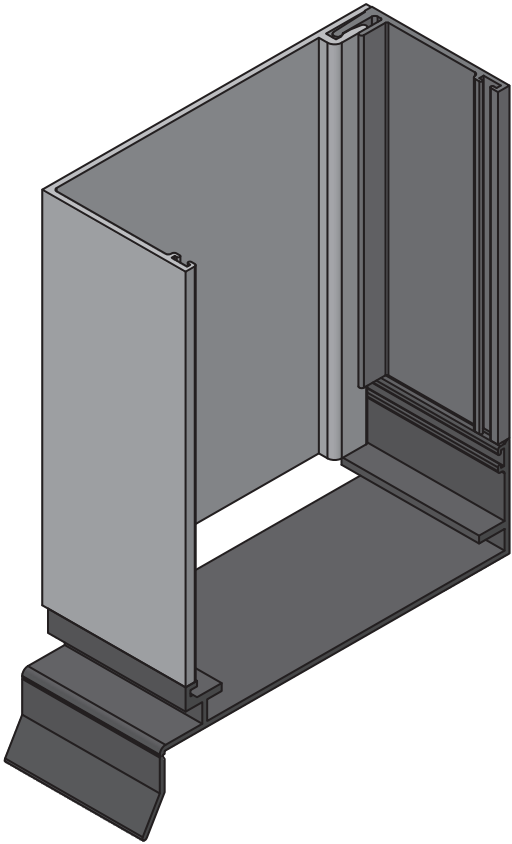
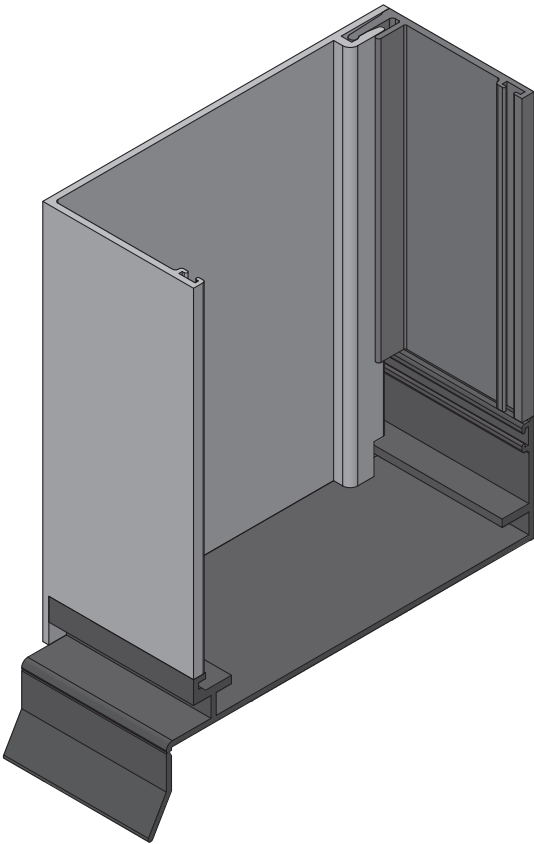
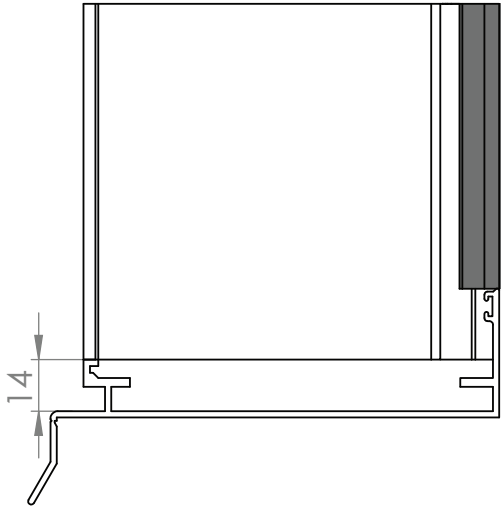
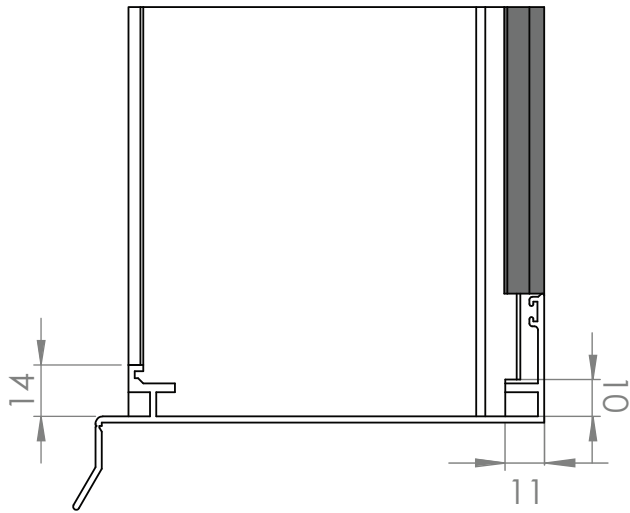
100mm Subframe Internal Bead

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

Fabrication

SQUARE CUT (INTERNAL BEAD)

MACHINED (INTERNAL BEAD)

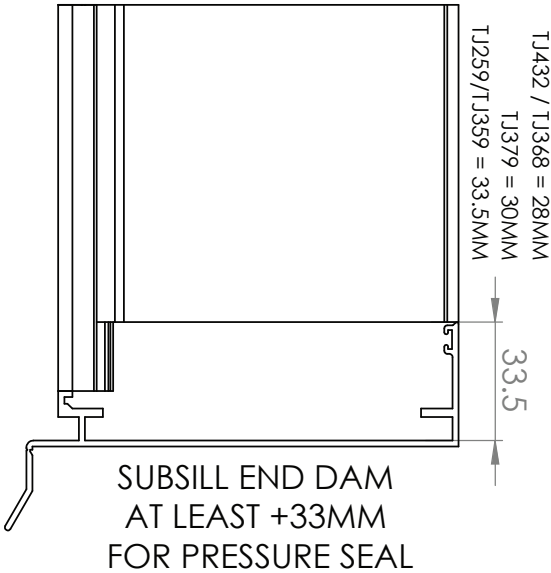


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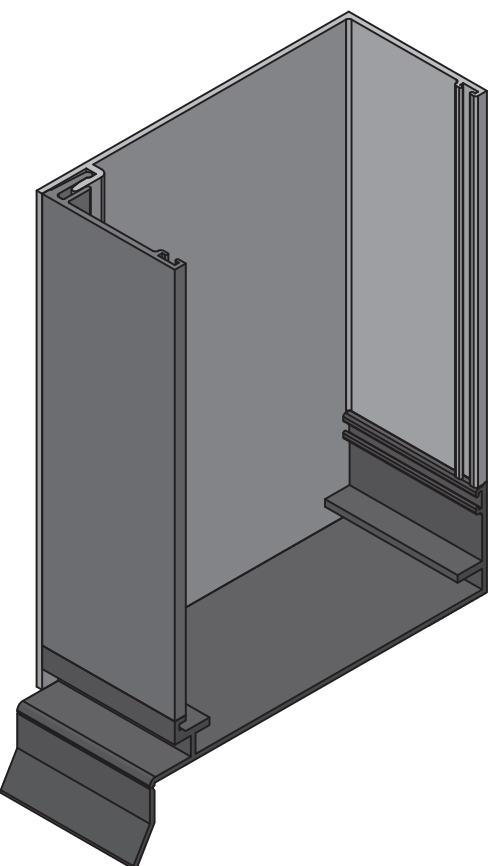
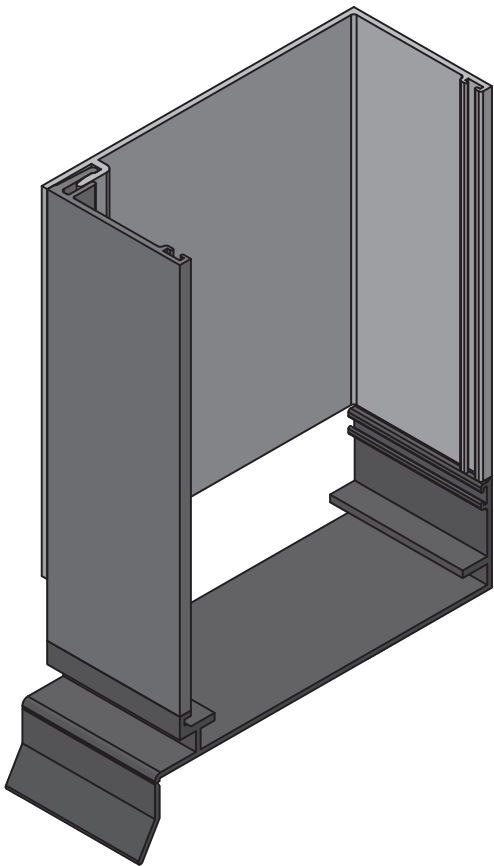
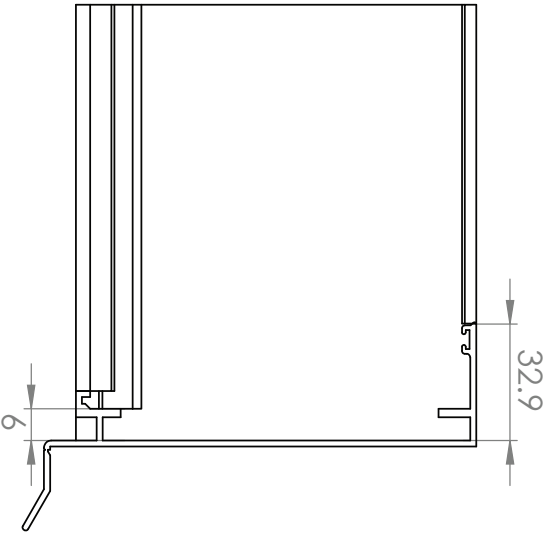
100mm Subframe External Bead

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

SQUARE CUT (EXTERNAL BEAD)



MACHINED (EXTERNAL BEAD)



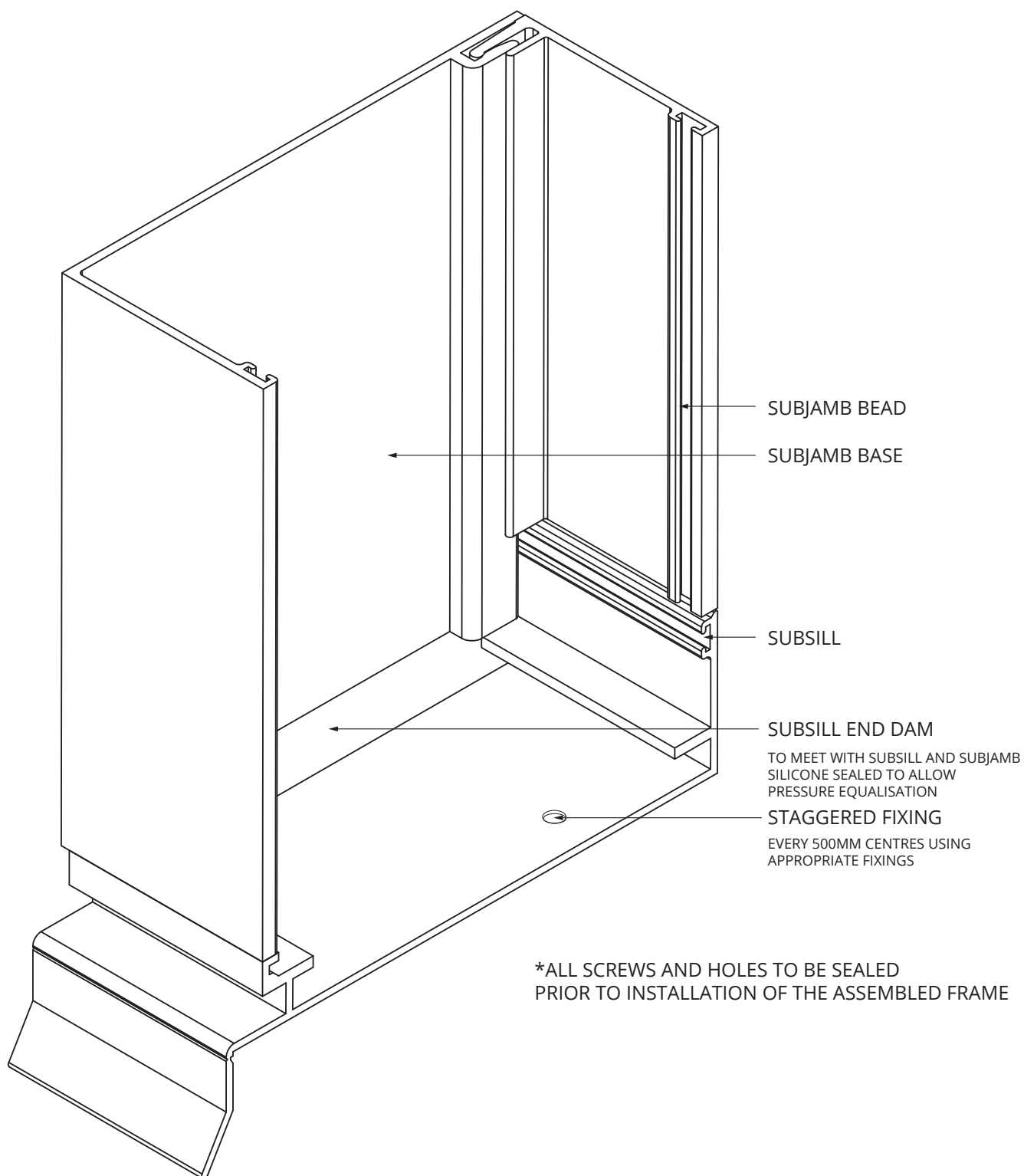
Fabrication

Copyright and important information on page 3

Subsill End-Dam Installation

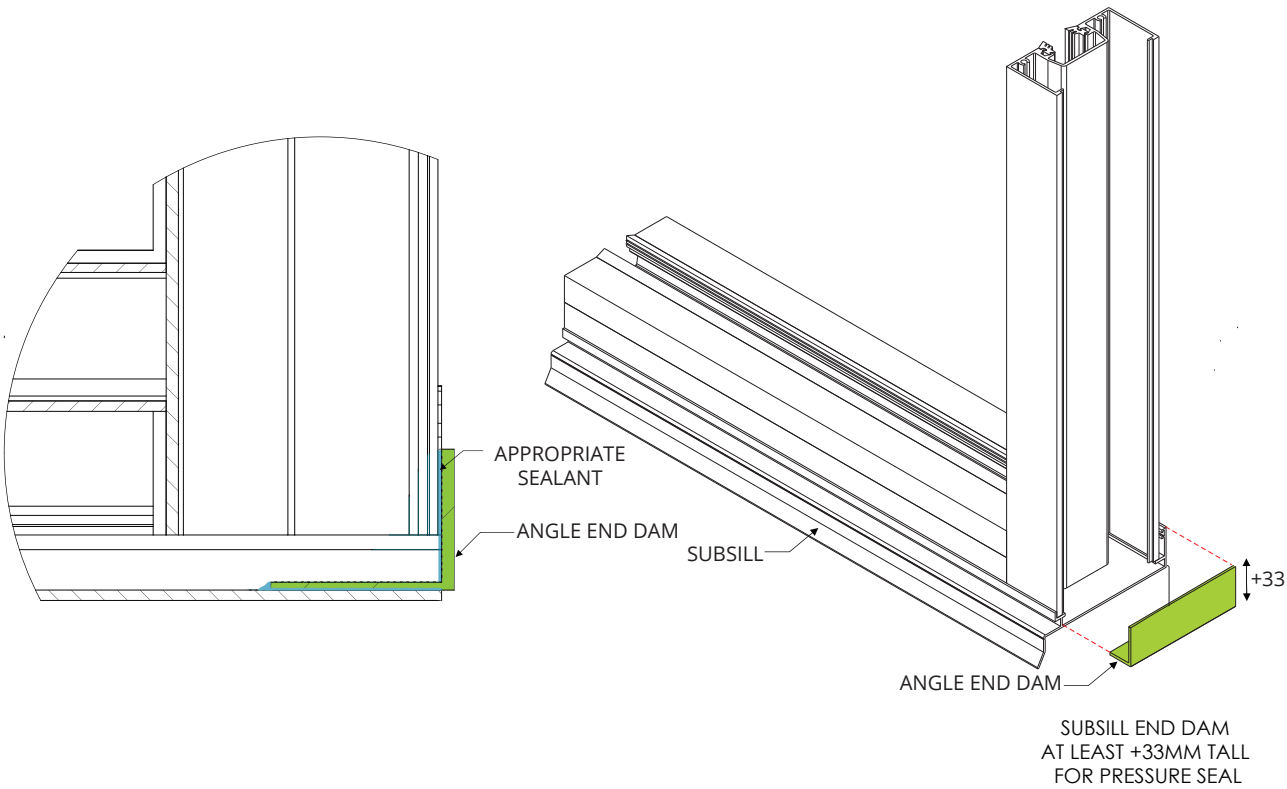
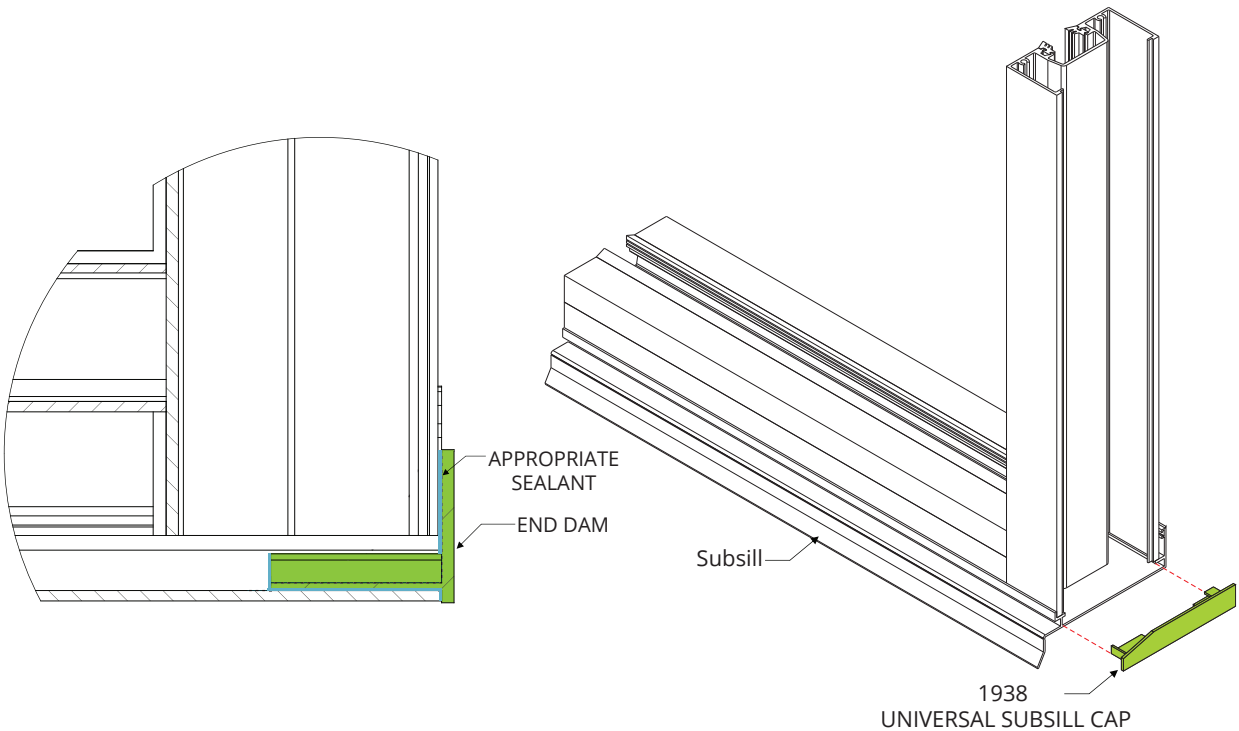
All raw joints need to be sealed with small joint sealer or foam tab option.

Fabrication



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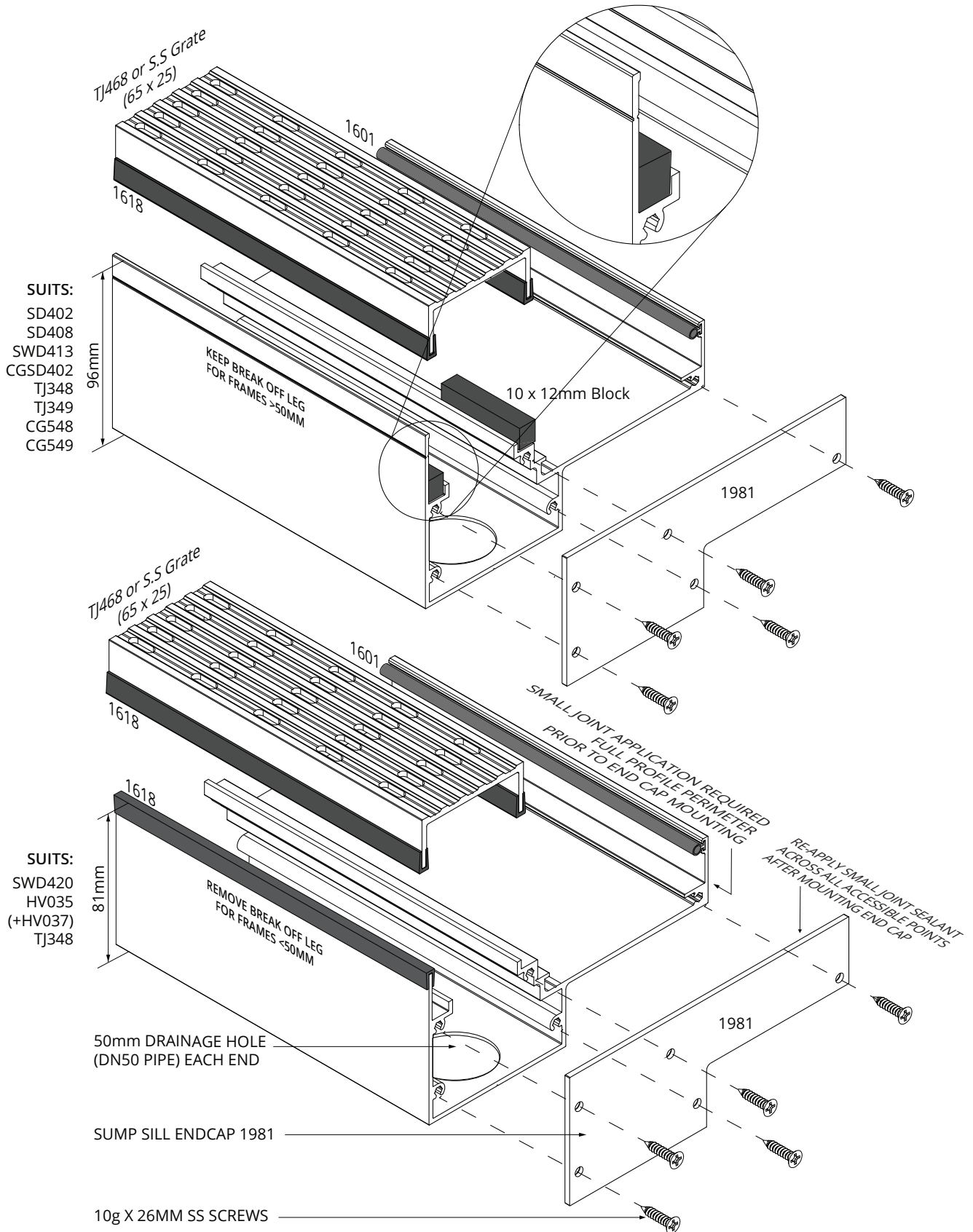
All raw joints need to be sealed with small joint sealer or foam tab option.



100mm Sump Sill

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

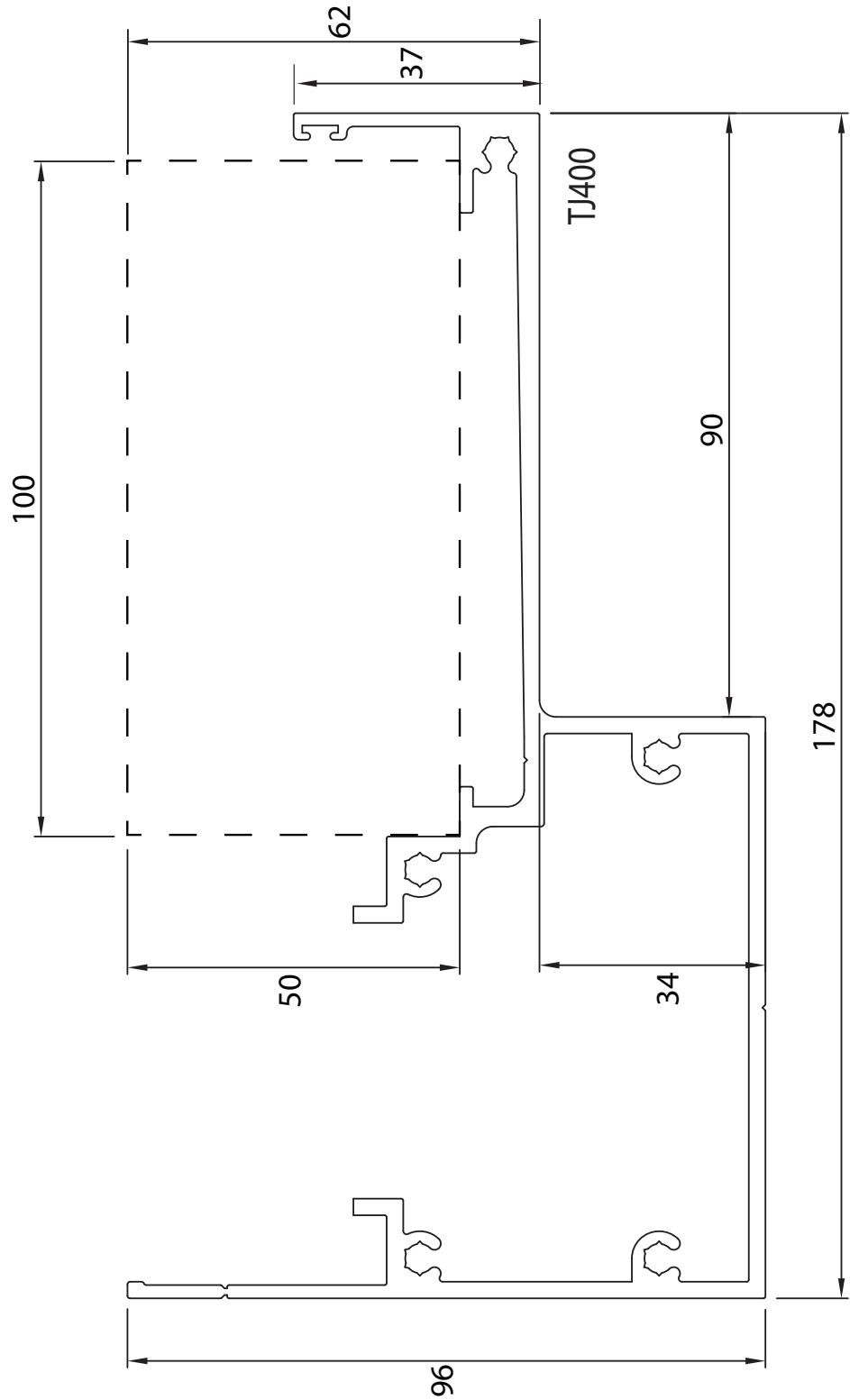
Fabrication



Copyright and important information on page 3

TJ400 Slab Recess Details (1:1)

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



Fabrication

Copyright and important information on page 3

Tooling

BDX-CV-CSG/H/AW

CSG Frame / Hinged / Hook Awning

CSG301	100mm Standard Main Frame
CSG303	CSG Bead
CSG303B	CSG Sloped Bead
CSG304	Glazing Adaptor
CSG320	Standard Duty Self Mating Mullion
CSG333	Heavy Duty Self Mating Mullion
CSG360	100mm Centre Glazed Slim Frame
CSG362	CSG Transom/Sill
CSG390	100mm Light Duty Frame
CSG601	150mm Standard Main Frame
CSG603	CSG Bead
CSG604	Glazing Adaptor
CSG633	Self Mating Mullion
CDG4301	100mm Centre Double Glazed Main Frame
CDG4303	Sill Bead
CDG4303M	Sill Sloped bead
CDG4304	Glazing Adaptor
CDG4310	Male Split Mullion
CDG4311	Female Split Mullion
CDG4312	H/D Male Split Mullion
CDG4313	H/D Female Split Mullion
CDG4314	Male Light Split Mullion
CDG4315	Female Light Split Mullion
CDG4390	Transom/Sill
CDG6501	150mm Centre DG Main Frame
CDG6503	Sill Bead
CDG6504	Glazing Adaptor
CDG6510	Male Split Mullion
CDG6511	Female Split Mullion
CDG6512	H/D Male Split Mullion
CDG6513	H/D Female Split Mullion
HV271	Door Stile
HV272	Hinge Stile
HV273	Large Rail
HV275	Large DG Rail
HV277	Small DG Rail

HV289	Small Rail
HV291	DG Stile
HV322	Sliding Door stile
TJ154	114mm Hinge Stile
TJ155	114mm Lock Stile
TJ158	114mm Pivot Stile
TJ159	114mm Sliding Stile
TJ311	Hinge Stile
TJ312	Lock Stile
TJ313	Door Top Rail
TJ315	Door Bottom Rail
TJ322	Sliding Door Stile
TJ327	Meeting Stile
TJ416	73mm Open Pocket Sliding Stile
TJ417	73mm Open Pocket Hinge Stile
TJ418	73mm Open Pocket Lock Stile
TJ419	DG Top Rail
TJ420	DG Bottom Rail
TJ428	114mm Open Pocket Sliding Stile
TJ435	114mm Open Pocket Hinge Stile
TJ436	114mm Open Pocket Lock Stile
TJ437	114mm Open Pocket Plain Stile
TJ440	73mm Open Pocket Sliding Stile
TJ441	73mm Open Pocket Hinge Stile
TJ443	73mm Open Pocket Sliding Stile
TJ444	73mm Open Pocket Plain Stile
TJ450	73mm Open Pocket Meeting Stile
TJ451	114mm Open Pocket Lock Stile
TJ452	114mm Open Pocket Hinge Stile
TJ453	114mm Open Pocket Sliding Stile
TJ725	114mm Open Pocket Plain Stile
TJ737	Flyscreen Adaptor/Winder Support
TJ742	Awning Stile/Rail
TJ747	Hook Awning Sash Rail
TJ749	Hook Awning Sash Stop

[BDX-CV-CSG/H/AW tool set information](#)

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



Tooling

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

CARE & MAINTENANCE

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.

Tooling

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

CARE & MAINTENANCE

Exchange or replace die:

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

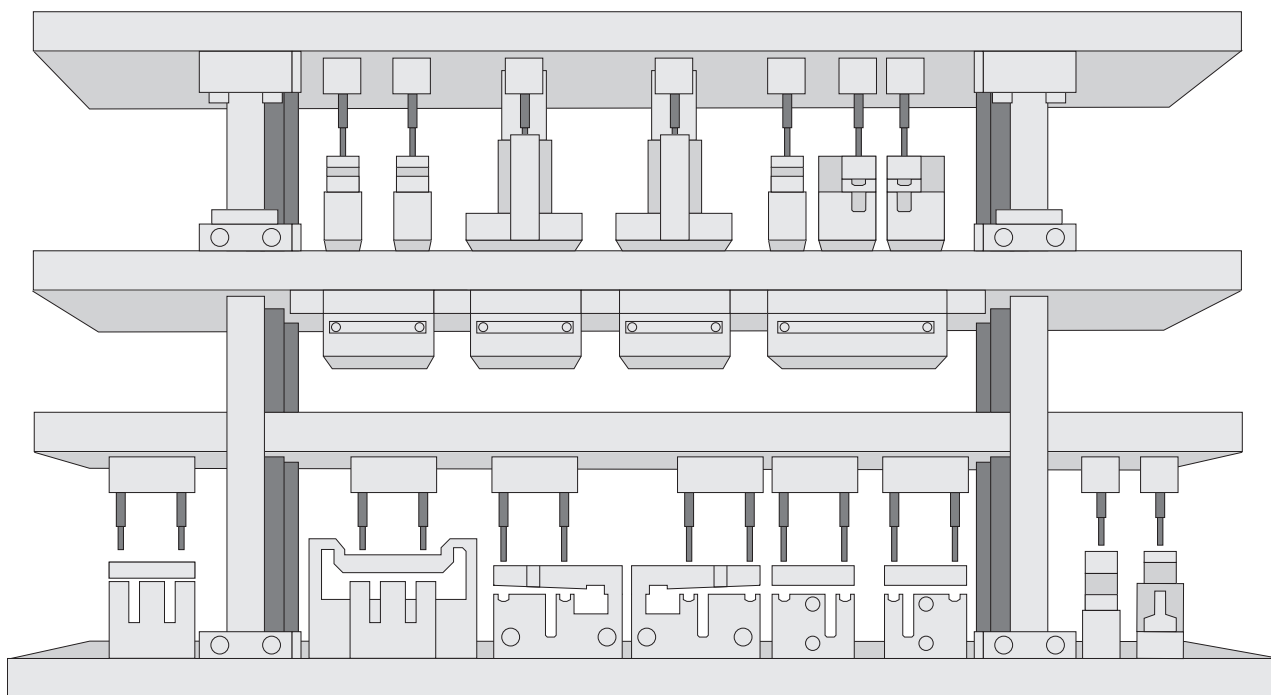
1. Switch off the machine and isolate power point. Removing front covers and swarf trays.
2. Remove top and bottom screws from the die. Carefully take out the old die block.
3. Reconnect the power and switch on the machine. Turn to INCHING MODE, press foot valve to ensure the machine desk is on lowest 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:

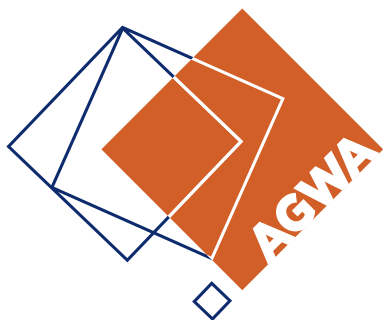
* Please provide following details to your sales representative

- Machine serial number:
- Port (DIE) location:
- List of extrusion involved:
- Take photo of the issues:

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



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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

| ABN 14 076 364 657

NEW SOUTH WALES

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salesnsw@darleyaluminium.com.au

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QUEENSLAND

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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 100 x 50mm Front Double Glazed

1.Technical Manual Release Notes

This page is intended to record all changes to the 100 x 50mm Front Double 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



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



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



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



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

Security



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



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

Outdoor Screening and Enclosure



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



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 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.

New South Wales Head Office

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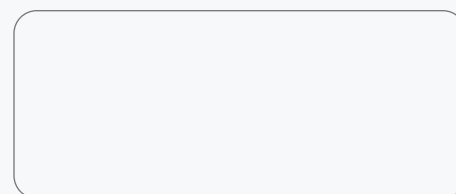
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