

TECHNICAL MANUAL

100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED



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100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED



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100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

SPECIFICATION

FRAME DIMENSIONS

- 100mm x 50mm

MAX PERFORMANCE

- Serviceable Pressure: +/-3000Pa
- Ultimate Pressure: +/-6000Pa
- Water Penetration: 1000Pa Water

MAXIMUM SIZES

- Max mullion height: 3450
- Max mullion centres width: 2000

Refer wind load charts for sizing and pressures.

GLAZING

- Double glazed: 18mm-28mm

100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

LOAD TABLE - DG126 / DG127 SPLIT MULLION

SECTION PROPERTIES

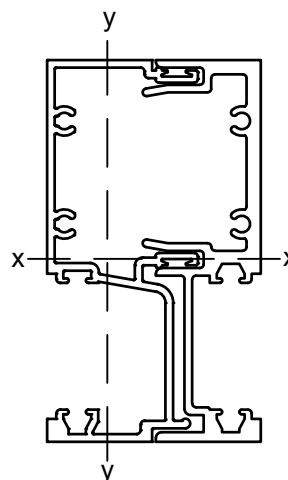
$I_{xx}: 638 \times 10^3 \text{ mm}^4$

Alloy: 6060 T5

Max Stress 110 Mpa

S = Serviceability limit state I/250

U = Ultimate limit state



Mullion Height	Maximum Design Pressure (Pa)							
3450	S	900	730	610	540			
	U	2450	1980	1670	1450			
3300	S	1030	830	710	620	550	500	
	U	2680	2170	1830	1600	1420	1300	
3150	S	1190	960	820	710	640	590	540
	U	2950	2390	2020	1760	1580	1440	1330
3000	S	1380	1120	950	840	750	690	640
	U	3260	2640	2240	1960	1760	1610	1490
2850	S	1610	1310	1120	980	890	820	770
	U	3620	2940	2500	2190	1970	1810	1690
2700	S	1910	1560	1330	1170	1060	980	930
	U	4050	3300	2800	2470	2220	2050	1920
2550	S	2270	1860	1590	1410	1290	1200	1130
	U	4560	3720	3170	2800	2530	2350	2220
2400	S	2740	2250	1940	1720	1580	1480	1410
	U	5170	4230	3620	3210	2920	2720	2590
2250	S	3000	2760	2390	2140	1970	1860	1790
	U	5910	4850	4170	3710	3400	3200	3070
2100	S	3000	3000	2990	2690	2510	2390	2340
	U	6000	5630	4860	4360	4030	3830	3730
Mullion Ctrs		800	1000	1200	1400	1600	1800	2000

This table is based on theoretical section properties

100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

LOAD TABLE - DG127 / DG128 HD SPLIT MULLION

SECTION PROPERTIES

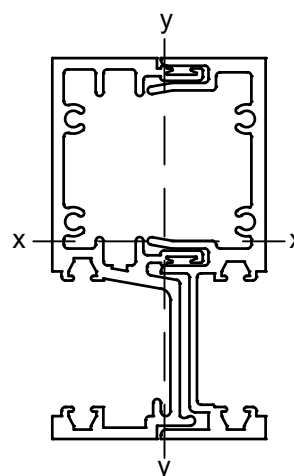
Ixx: $1589 \times 10^3 \text{ mm}^4$

Alloy: 6060 T5

Max Stress 110 Mpa

S = Serviceability limit state I/250

U = Ultimate limit state



Mullion Height	Maximum Design Pressure (Pa)							
3450	S	1050	850	720	630	560	510	
	U	2950	2380	2010	1750	1560	1410	
3300	S	1200	970	830	720	640	590	540
	U	3230	2610	2200	1920	1710	1560	1440
3150	S	1390	1130	950	840	750	690	640
	U	3550	2870	2430	2120	1900	1730	1600
3000	S	1610	1310	1110	980	880	810	750
	U	3920	3180	2690	2360	2110	1930	1800
2850	S	1890	1540	1310	1150	1040	960	900
	U	4360	3540	3000	2630	2370	2170	2030
2700	S	2230	1820	1550	1370	1240	1150	1080
	U	4870	3960	3370	2970	2680	2460	2310
2550	S	2660	2170	1860	1650	1500	1400	1330
	U	5480	4470	3810	3370	3050	2820	2660
2400	S	3000	2630	2260	2010	1840	1730	1650
	U	6000	5080	4350	3860	3510	3270	3110
2250	S	3000	3000	2790	2490	2300	2170	2100
	U	6000	5830	5010	4470	4090	3850	3700
2100	S	3000	3000	3000	3000	2930	2790	2730
	U	6000	6000	5850	5240	4850	4600	4480
Mullion Ctrs		800	1000	1200	1400	1600	1800	2000

This table is based on theoretical section properties

100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

LOAD TABLE - DG114 MULLION

SECTION PROPERTIES

$I_{xx}: 955 \times 10^3 \text{ mm}^4$

$I_{yy}: 130 \times 10^3 \text{ mm}^4$

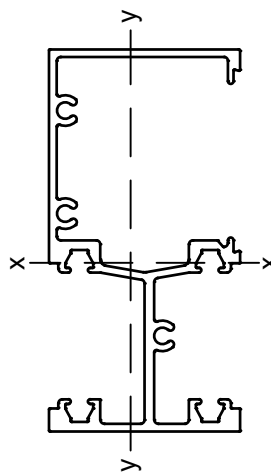
Alloy: 6060 T5

Max Stress 110 Mpa

S = Serviceability limit state 1/250

U = Ultimate limit state

Max weight is limited by 4mm max deflection with
setting blocks at 1/8 points



Mullion Height	Maximum Design Pressure (Pa)							
3450	S	630	510					
	U	1690	1360					
3300	S	720	580					
	U	1850	1490					
3150	S	830	670	570	500			
	U	2030	1640	1390	1210			
3000	S	970	780	670	580	530		
	U	2240	1820	1540	1350	1210		
2850	S	1130	920	780	690	620	570	540
	U	2490	2030	1720	1510	1350	1240	1160
2700	S	1340	1090	930	820	740	690	650
	U	2790	2270	1930	1700	1530	1410	1320
2550	S	1590	1300	1120	990	900	840	790
	U	3140	2560	2180	1930	1740	1620	1520
2400	S	1920	1580	1360	1210	1110	1040	990
	U	3560	2910	2490	2210	2010	1870	1780
2250	S	2350	1940	1670	1500	1380	1300	1260
	U	4070	3340	2870	2560	2340	2200	2120
2100	S	2910	2410	2100	1890	1760	1680	1640
	U	4710	3870	3350	3000	2770	2630	2570
Mullion Ctrs		800	1000	1200	1400	1600	1800	2000

This table is based on theoretical section properties

100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

LOAD TABLE - DG110 TRANSOM

SECTION PROPERTIES

$I_{xx}: 866 \times 10^3 \text{ mm}^4$

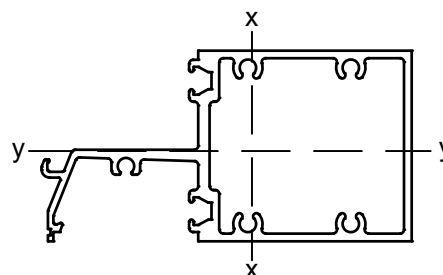
$I_{yy}: 114 \times 10^3 \text{ mm}^4$

Alloy: 6060 T5

Max Stress 110 Mpa

S = Serviceability limit state 1/250

U = Ultimate limit state



Max weight is limited by 4mm max deflection with
setting blocks at 1/8 points

Transom Ctrs	Maximum Design Pressure (Pa)							
1700	S	3000	3000	3000	3000	3000	3000	2760
	U	6000	6000	6000	6000	5260	4360	3690
1600	S	3000	3000	3000	3000	3000	3000	2790
	U	6000	6000	6000	6000	5230	4380	3740
1500	S	3000	3000	3000	3000	3000	3000	2850
	U	6000	6000	6000	6000	5260	4440	3820
1400	S	3000	3000	3000	3000	3000	3000	2930
	U	6000	6000	6000	6000	5350	4560	3940
1300	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	5500	4720	4100
1200	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	5720	4930	4310
1100	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	6000	5220	4570
1000	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	6000	5580	4910
900	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	6000	6000	5340
800	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	6000	6000	5890
Max Weight		80	80	80	80	80	80	80
Transom length		1200	1300	1400	1500	1600	1700	1800

This table is based on theoretical section properties

100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

LOAD TABLE - DG115 TRANSOM

SECTION PROPERTIES

$I_{xx}: 515 \times 10^3 \text{ mm}^4$

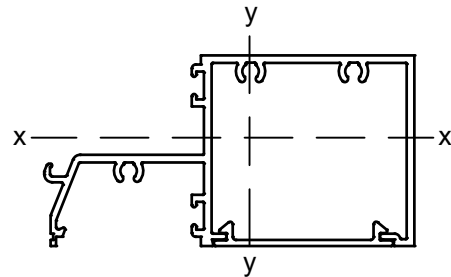
$I_{yy}: 145 \times 10^3 \text{ mm}^4$

Alloy: 6060 T5

Max Stress 110 Mpa

S = Serviceability limit state I/250

U = Ultimate limit state



Transom Ctrs	Maximum Design Pressure (Pa)							
1700	S	3000	3000	3000	3000	2630	2050	1640
	U	6000	6000	4970	3850	3100	2570	2170
1600	S	3000	3000	3000	3000	2620	2060	1660
	U	6000	6000	4750	3760	3080	2580	2200
1500	S	3000	3000	3000	3000	2630	2090	1690
	U	6000	5970	4640	3740	3100	2620	2250
1400	S	3000	3000	3000	3000	2670	2130	1740
	U	6000	5800	4600	3760	3150	2680	2320
1300	S	3000	3000	3000	3000	2740	2200	1800
	U	6000	5750	4630	3840	3240	2780	2420
1200	S	3000	3000	3000	3000	2840	2300	1890
	U	6000	5800	4740	3960	3370	2910	2540
1100	S	3000	3000	3000	3000	2970	2420	2000
	U	6000	5950	4910	4140	3550	3070	2690
1000	S	3000	3000	3000	3000	3000	2580	2140
	U	6000	6000	5170	4390	3780	3290	2890
900	S	3000	3000	3000	3000	3000	2790	2320
	U	6000	6000	5530	4720	4080	3570	3150
800	S	3000	3000	3000	3000	3000	3000	2550
	U	6000	6000	6000	5160	4480	3930	3470
Max Weight		80	80	80	80	80	80	80
Transom length		1200	1300	1400	1500	1600	1700	1800

This table is based on theoretical section properties

100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

LOAD TABLE - DG112 TRANSOM

SECTION PROPERTIES

Ixx: $829 \times 10^3 \text{ mm}^4$

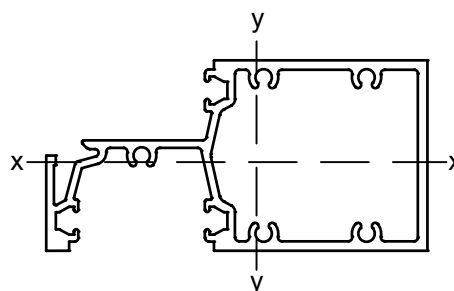
Iyy: $266 \times 10^3 \text{ mm}^4$

Alloy: 6060 T5

Max Stress 110 Mpa

S = Serviceability limit state I/250

U = Ultimate limit state



Transom Ctrs	Maximum Design Pressure (Pa)							
1700	S	3000	3000	3000	3000	3000	3000	2640
	U	6000	6000	6000	6000	4850	4020	3400
1600	S	3000	3000	3000	3000	3000	3000	2670
	U	6000	6000	6000	5890	4820	4040	3450
1500	S	3000	3000	3000	3000	3000	3000	2720
	U	6000	6000	6000	5850	4850	4100	3520
1400	S	3000	3000	3000	3000	3000	3000	2800
	U	6000	6000	6000	5890	4930	4200	3630
1300	S	3000	3000	3000	3000	3000	3000	2910
	U	6000	6000	6000	6000	5070	4350	3780
1200	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	5270	4550	3970
1100	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	5550	4810	4220
1000	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	5910	5150	4530
900	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	6000	5580	4920
800	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	6000	6000	5440
Max Weight		80	80	80	80	80	80	80
Transom length		1200	1300	1400	1500	1600	1700	1800

This table is based on theoretical section properties

100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

LOAD TABLE - DG108 TRANSOM

SECTION PROPERTIES

Ixx: $955 \times 10^3 \text{ mm}^4$

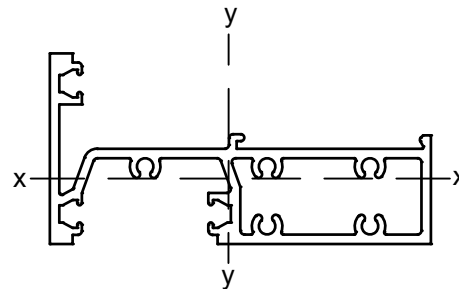
Iyy: $130 \times 10^3 \text{ mm}^4$

Alloy: 6060 T5

Max Stress 110 Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

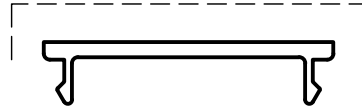


Max weight is limited by 4mm max deflection with
setting blocks at 1/8 points

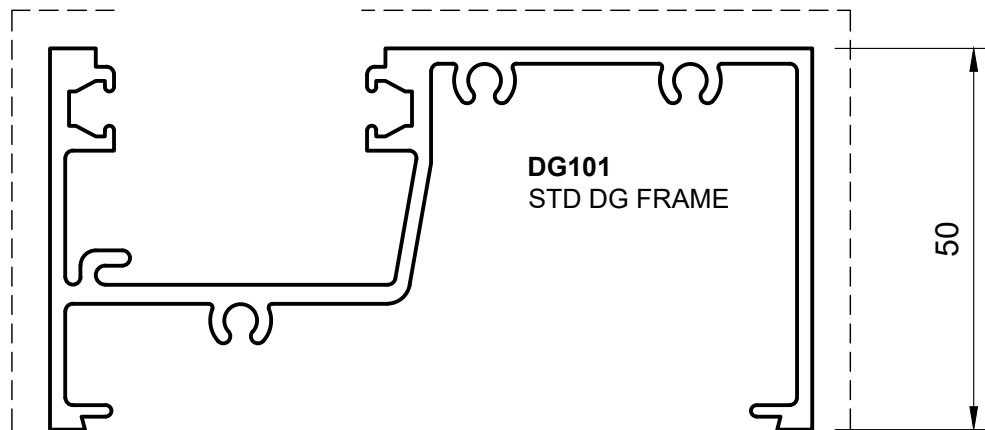
Transom Ctrs	Maximum Design Pressure (Pa)							
1700	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	5820	4820	4080
1600	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	5790	4850	4140
1500	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	5820	4920	4230
1400	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	5920	5050	4360
1300	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	6000	5220	4540
1200	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	6000	5460	4770
1100	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	6000	5780	5060
1000	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	6000	6000	5440
900	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	6000	6000	5910
800	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	6000	6000	6000
Max Weight		80	80	80	80	80	80	80
Transom length		1200	1300	1400	1500	1600	1700	1800

This table is based on theoretical section properties

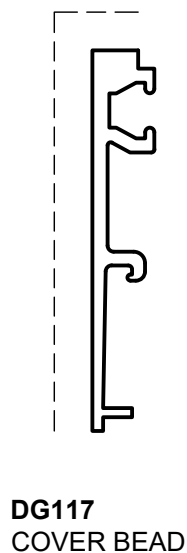
100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED EXTRUSION PROFILES



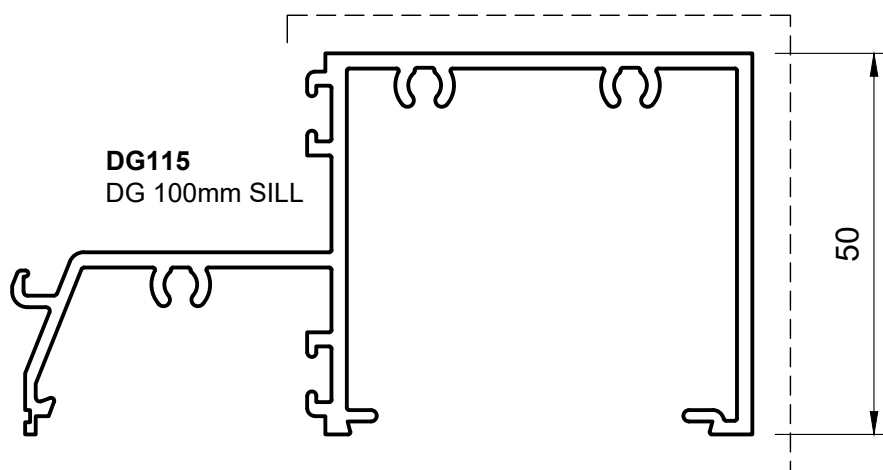
DG106
POCKET FILLER



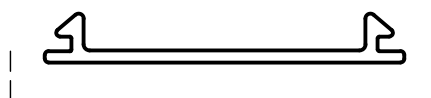
DG101
STD DG FRAME



DG117
COVER BEAD

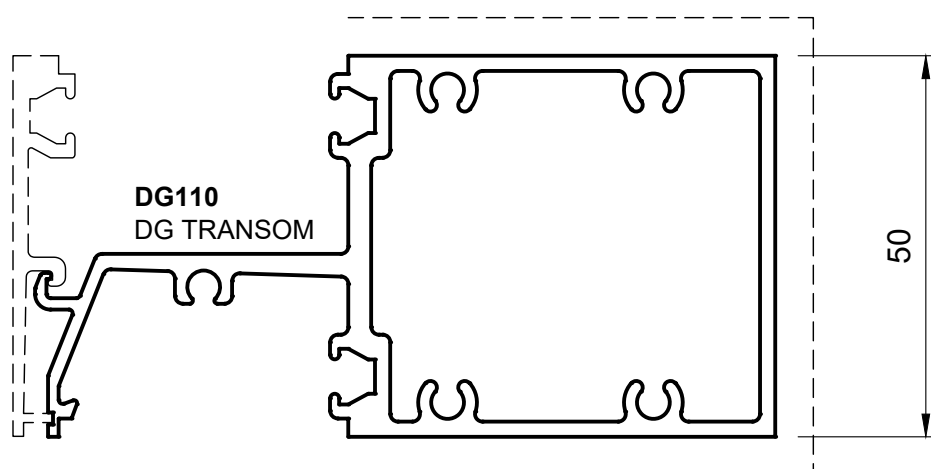
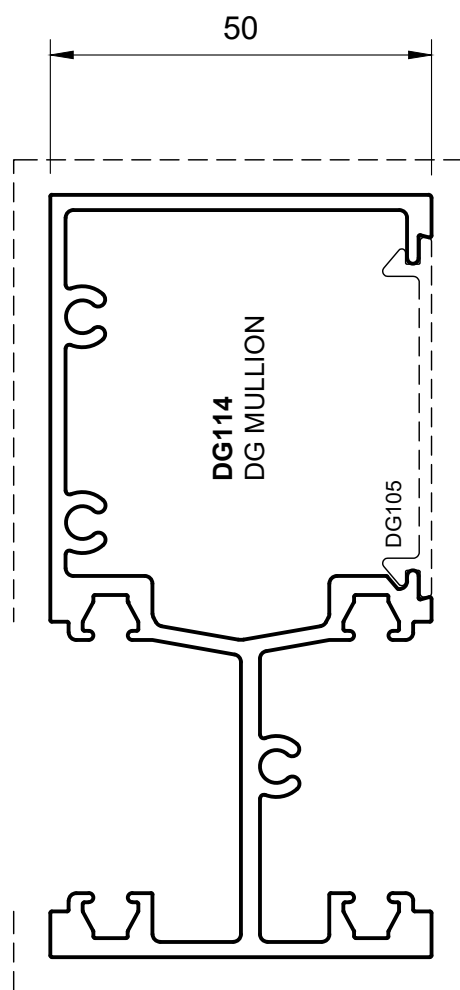


DG115
DG 100mm SILL

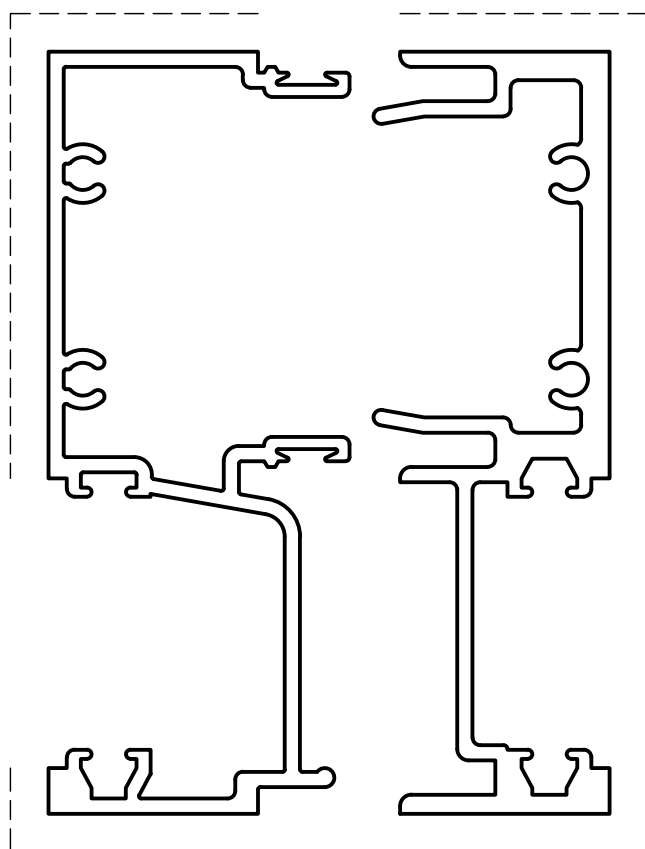


100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

EXTRUSION PROFILES

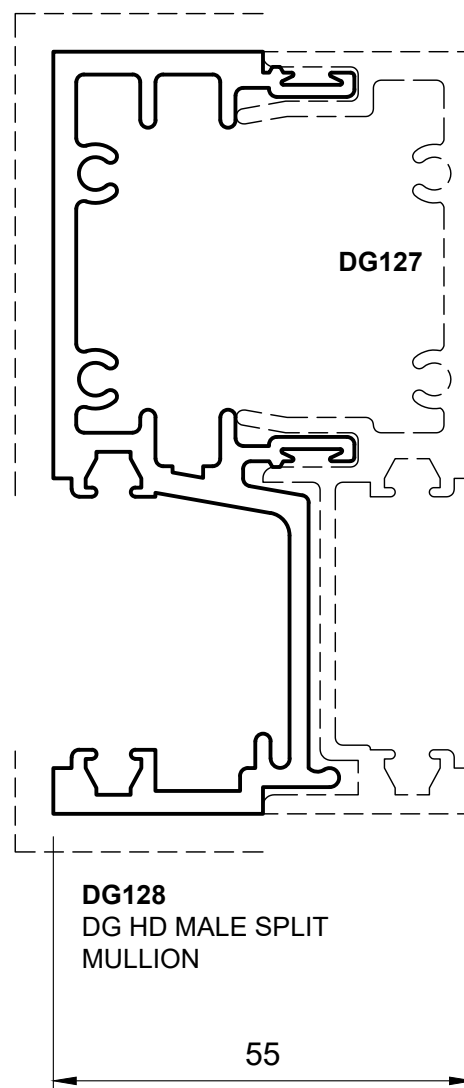


100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED EXTRUSION PROFILES



DG126
DG STD MALE
SPLIT
MULLION

DG127
FEMALE SPLIT
MULLION

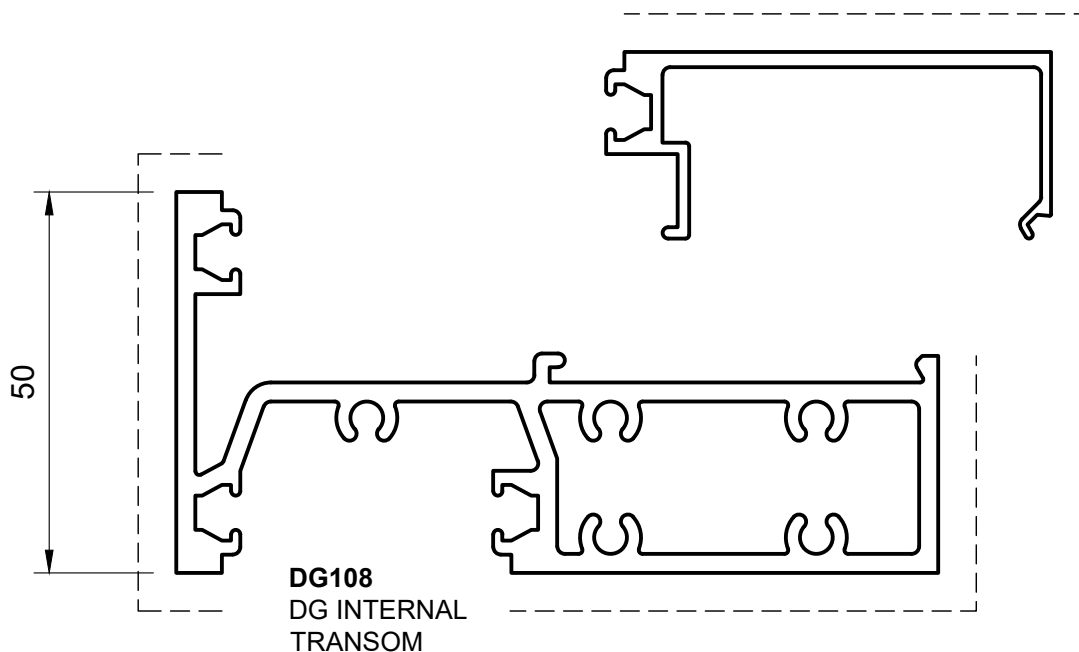


DG128
DG HD MALE SPLIT
MULLION

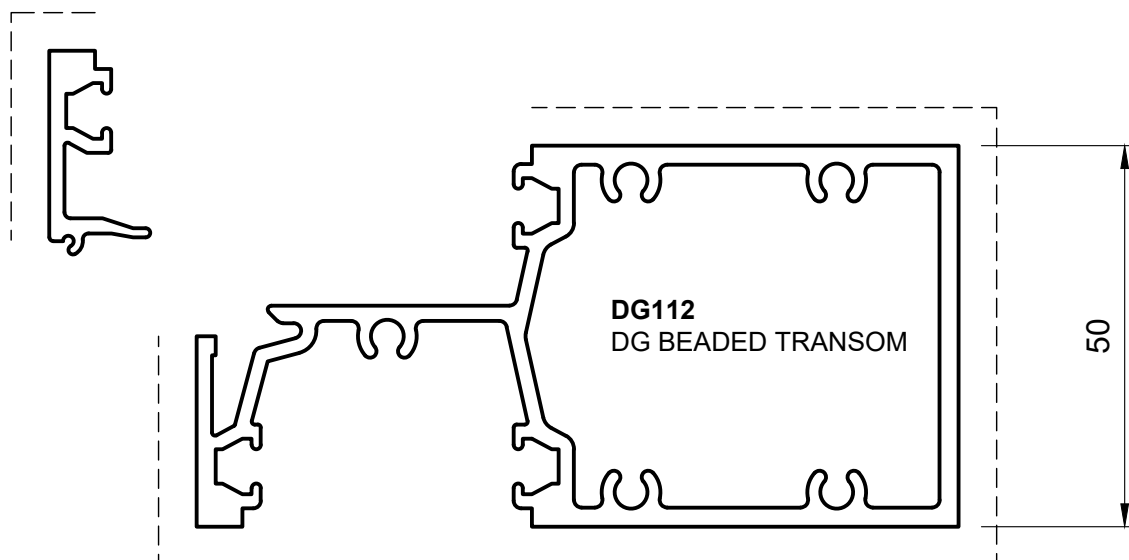
55

100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED EXTRUSION PROFILES

DG109
DG INTERNAL GLAZING BEAD

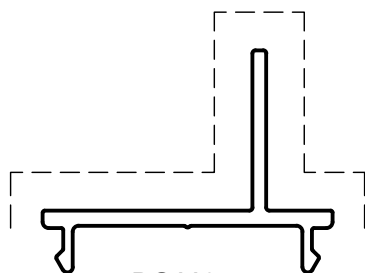


DG113
DG BEAD

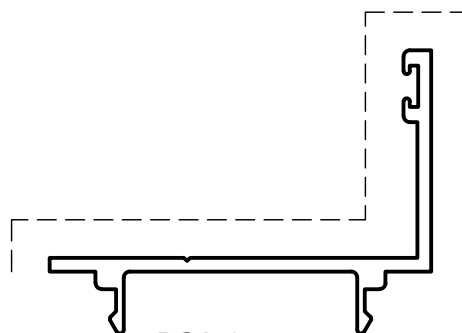


100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

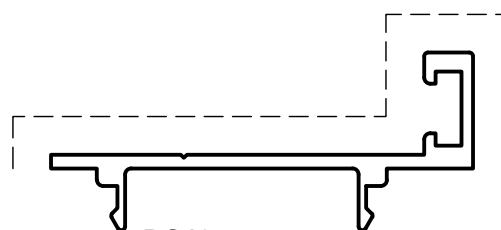
EXTRUSION PROFILES



DG116
DG 35mm AWNING STOP

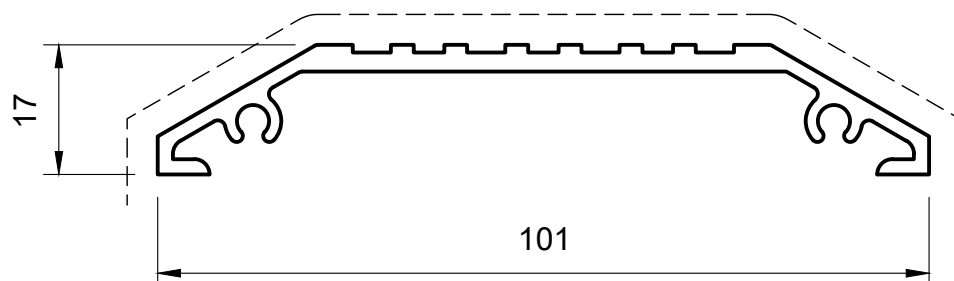


DG156
DG 50mm AWNING STOP

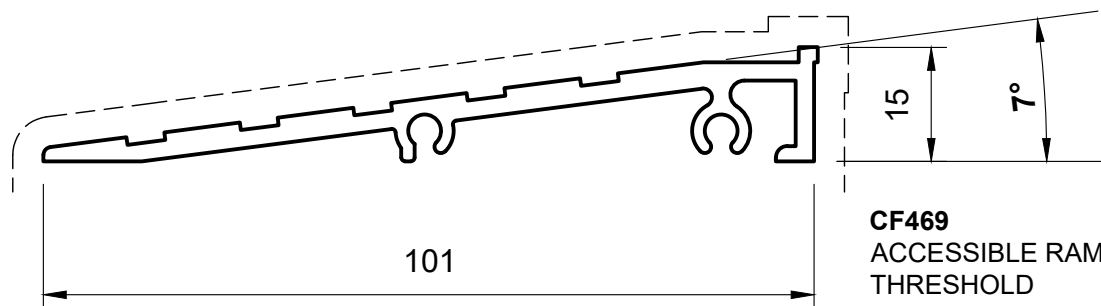


DG107
DG 45mm DOOR STOP

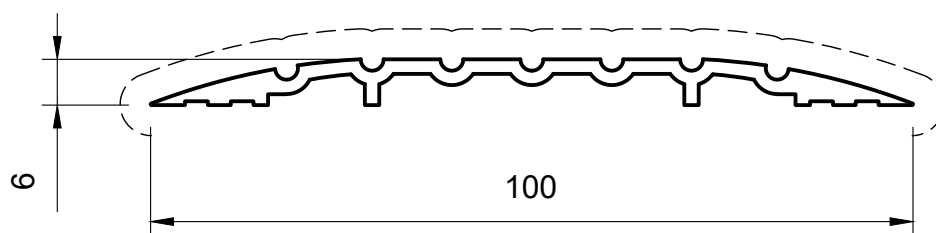
100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED EXTRUSION PROFILES



CF468
BEVELLED
THRESHOLD

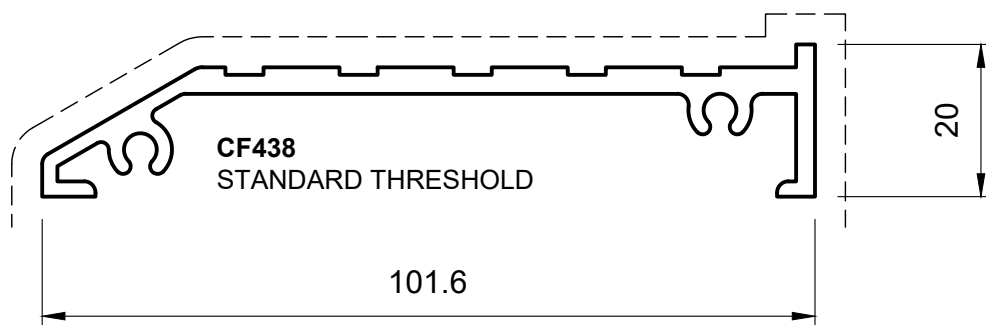
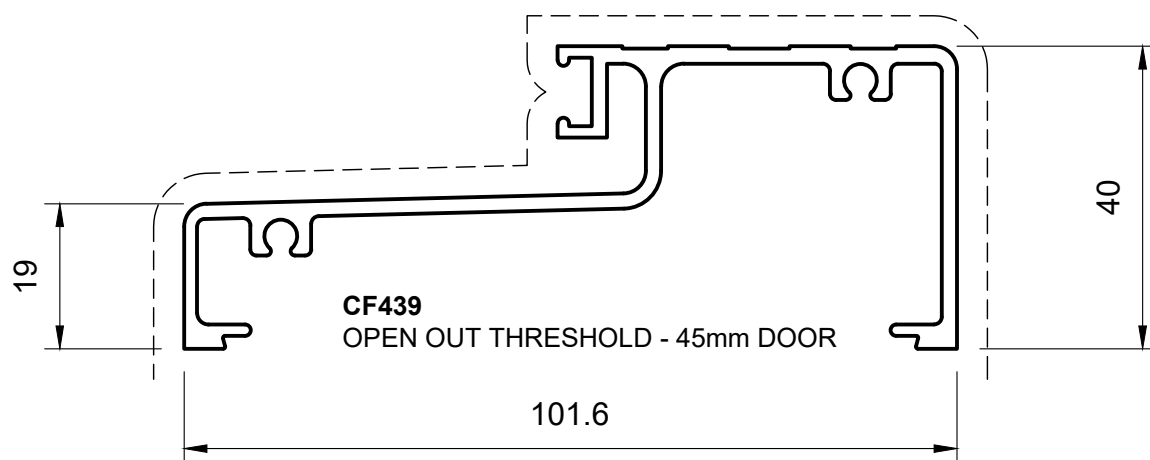
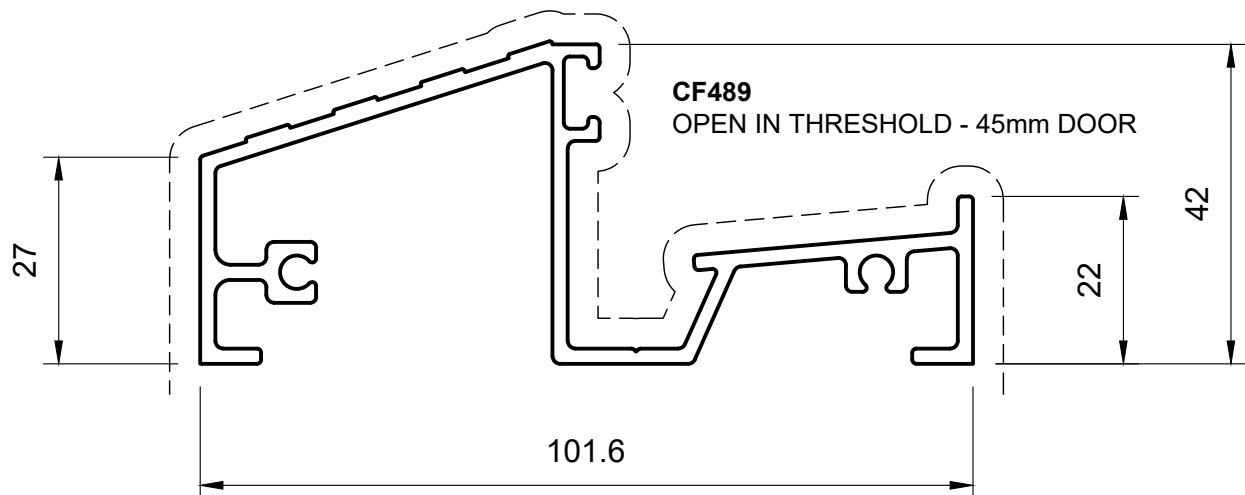


CF469
ACCESSIBLE RAMP
THRESHOLD

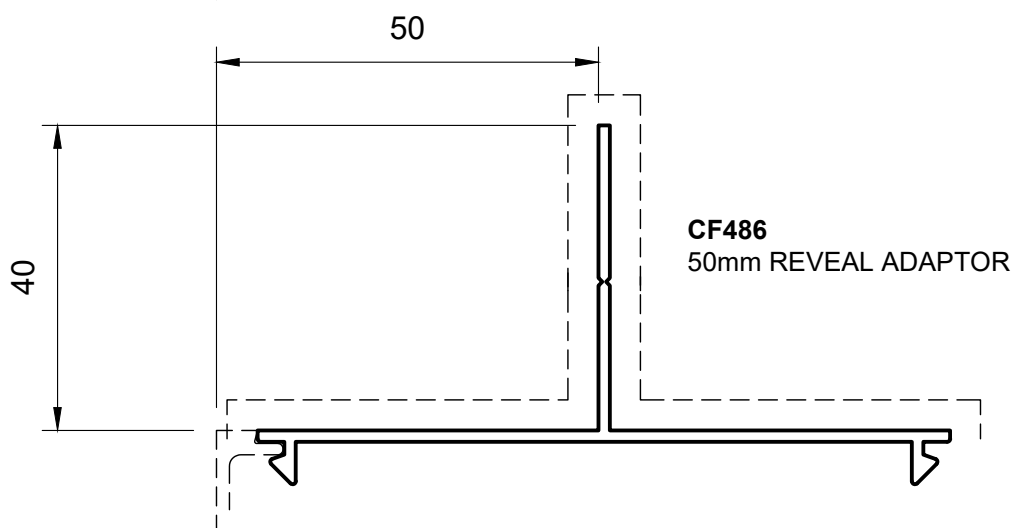
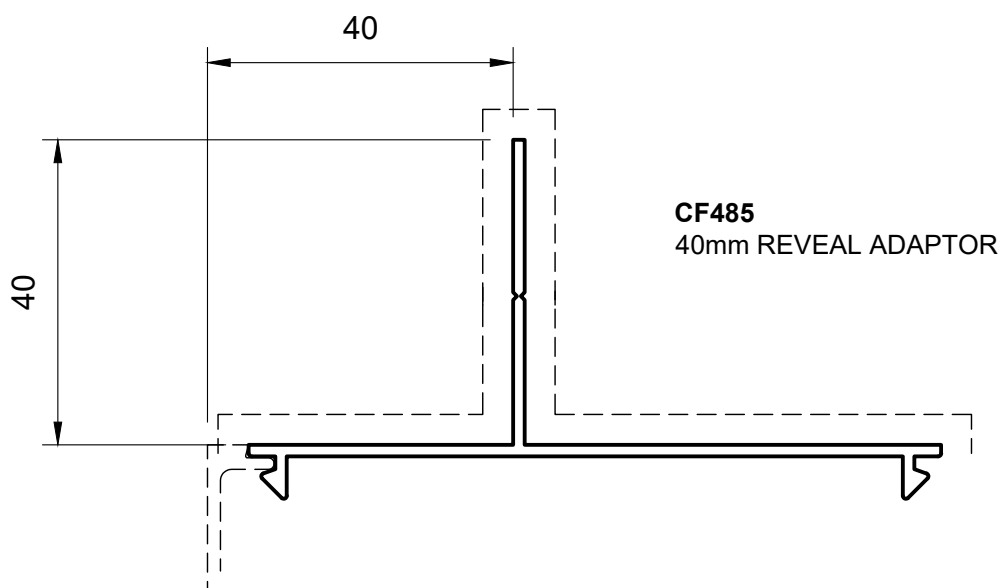
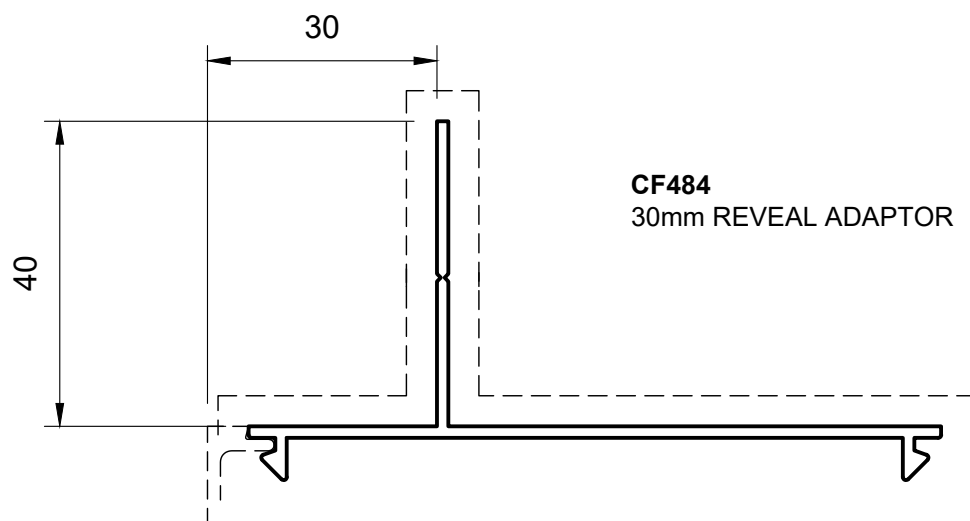


CF469
LOW PROFILE
THRESHOLD

100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED EXTRUSION PROFILES

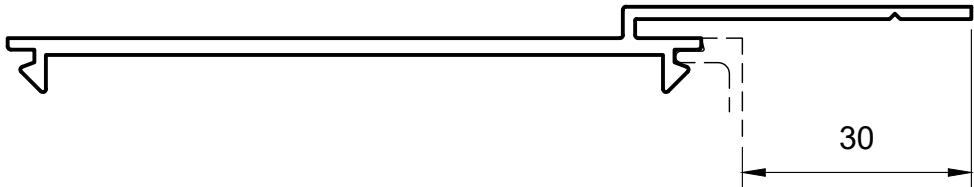


100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED EXTRUSION PROFILES

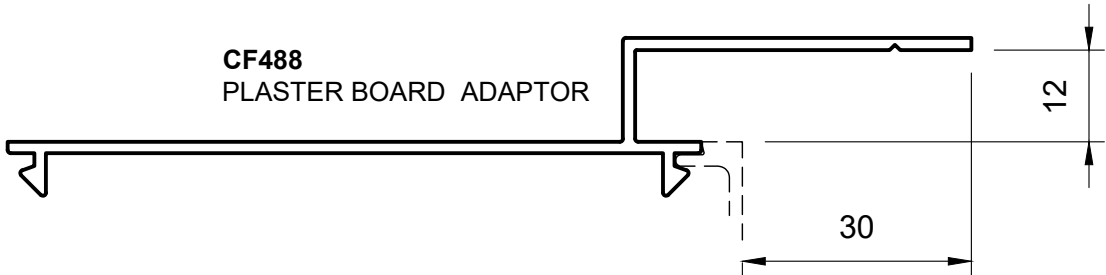


100mm COMMERCIAL FRAME
FLUSH GLAZED - DOUBLE GLAZED
EXTRUSION PROFILES

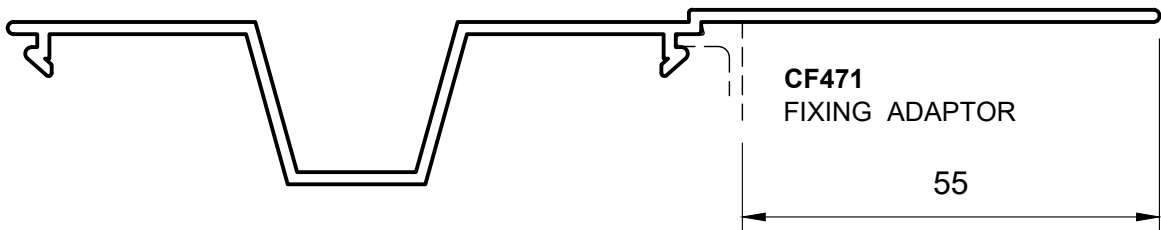
CF473
FIXING ADAPTOR



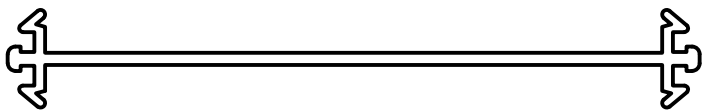
CF488
PLASTER BOARD ADAPTOR



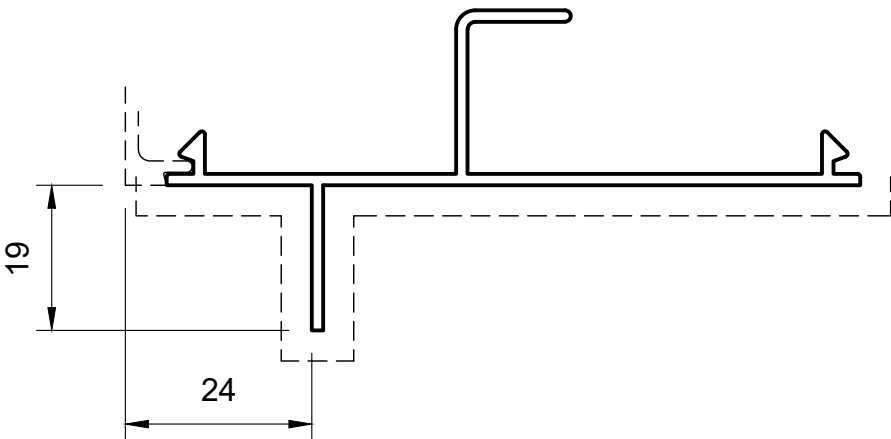
CF471
FIXING ADAPTOR



CF470
BACK TO BACK ADAPTOR

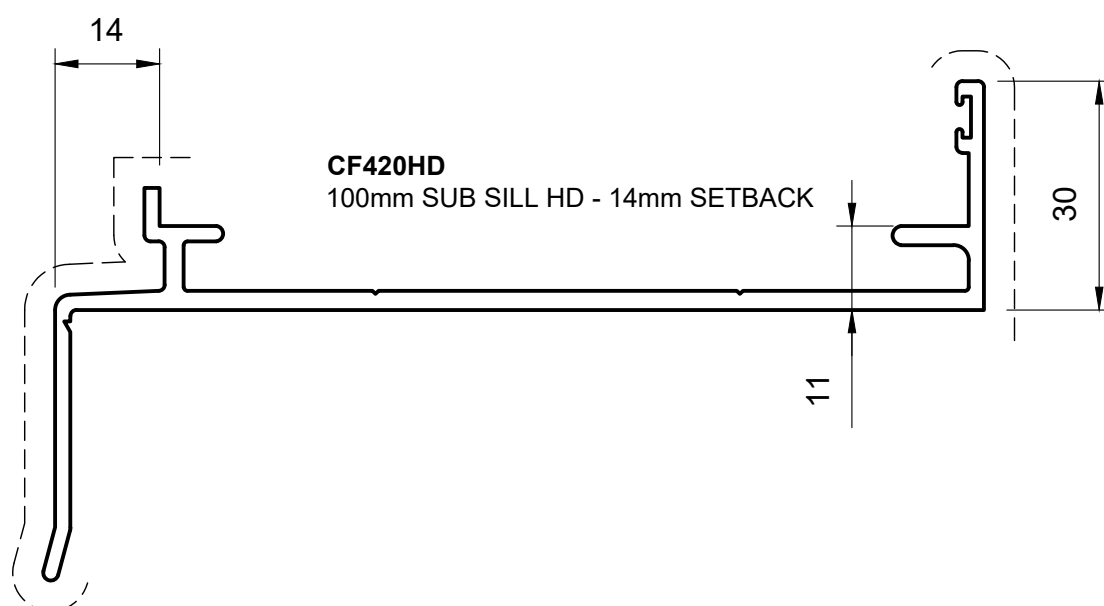
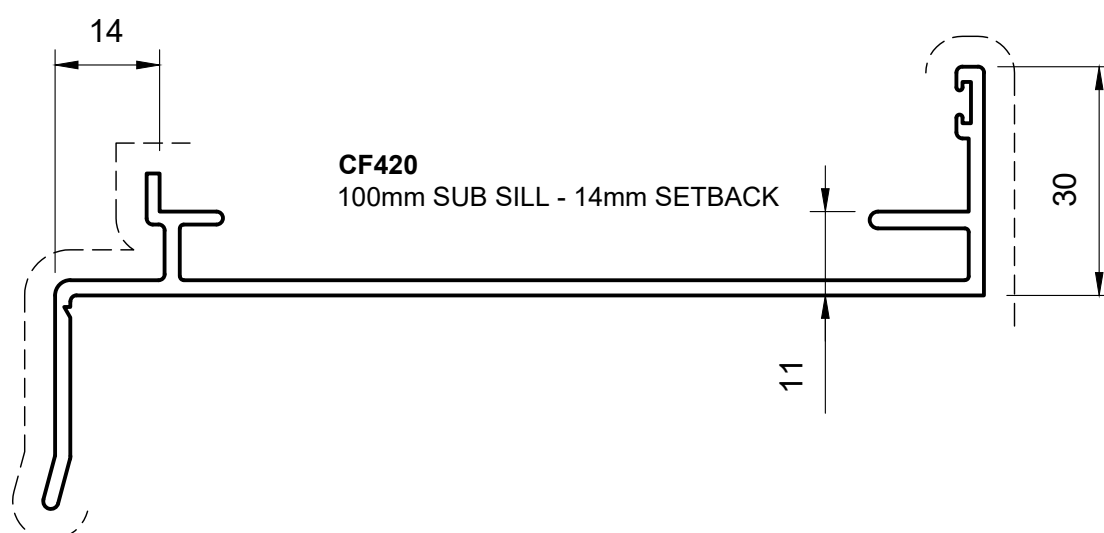
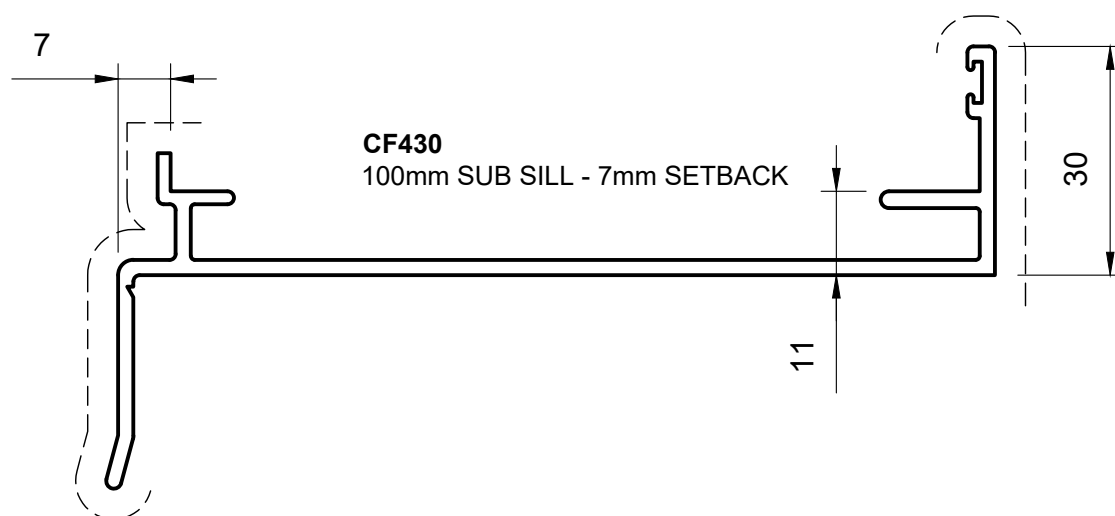


CF451
FIXING REVEAL ADAPTOR

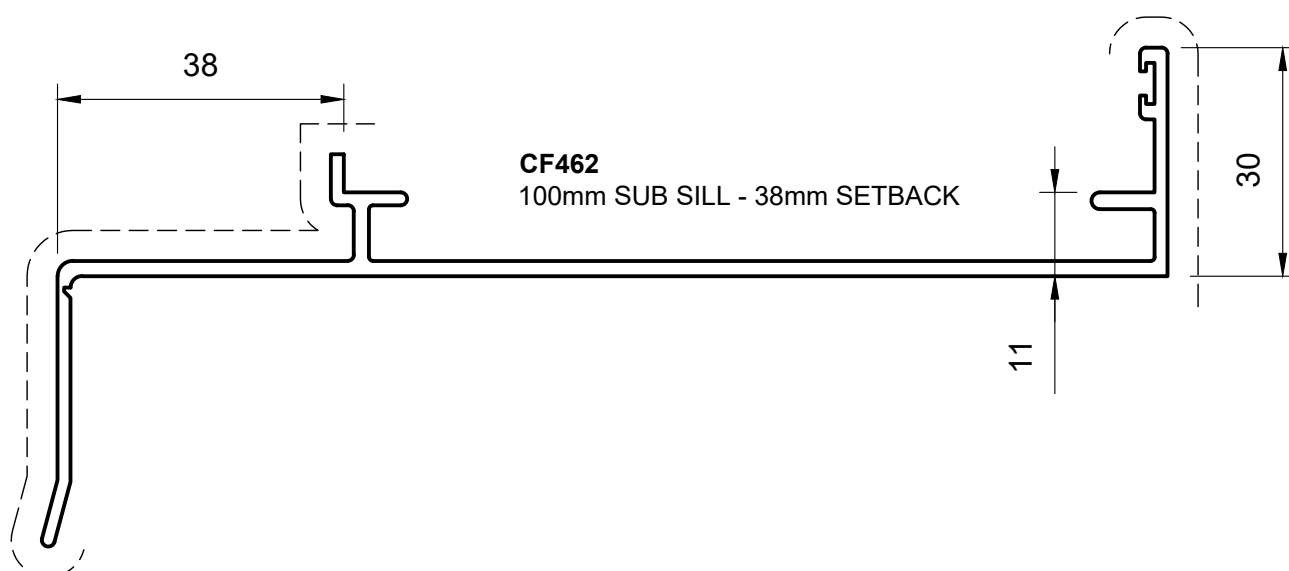
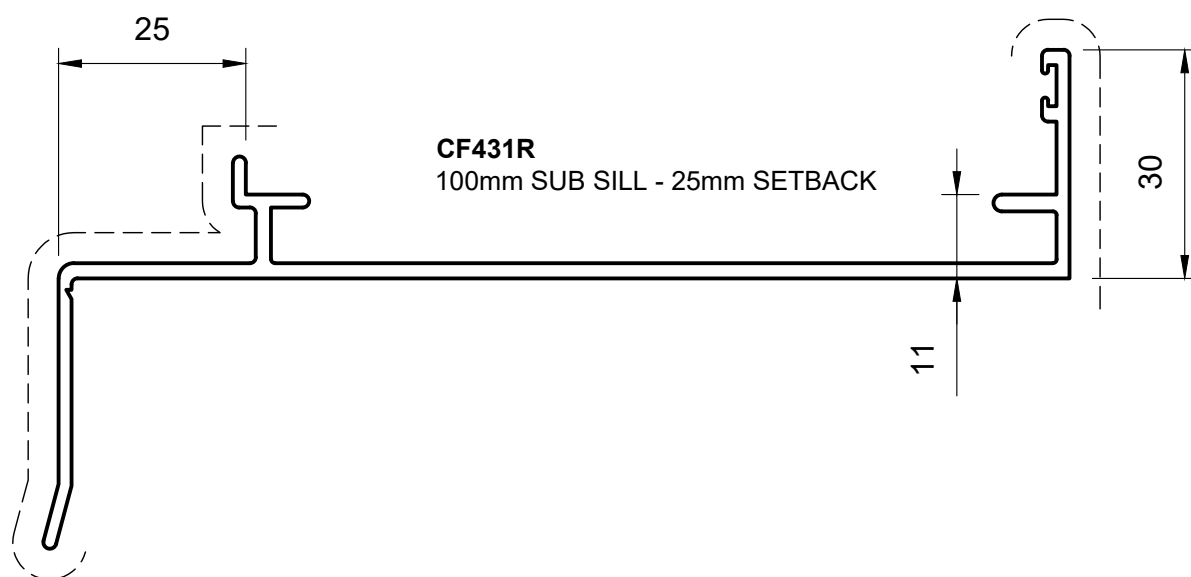


100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

EXTRUSION PROFILES

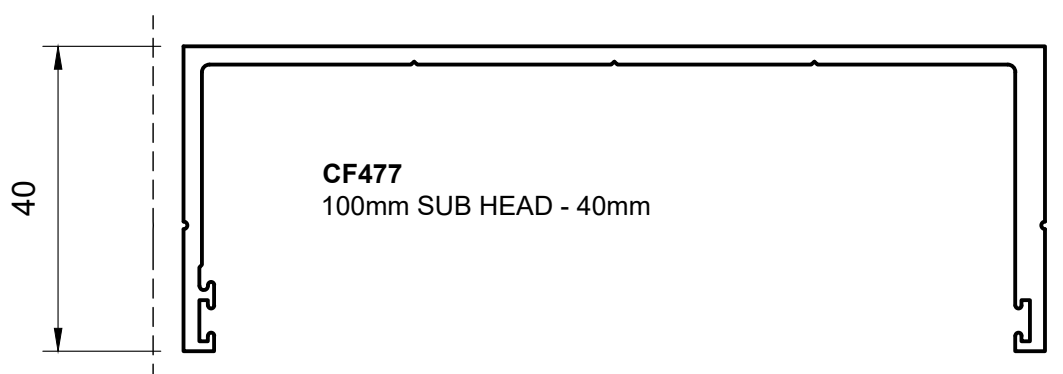
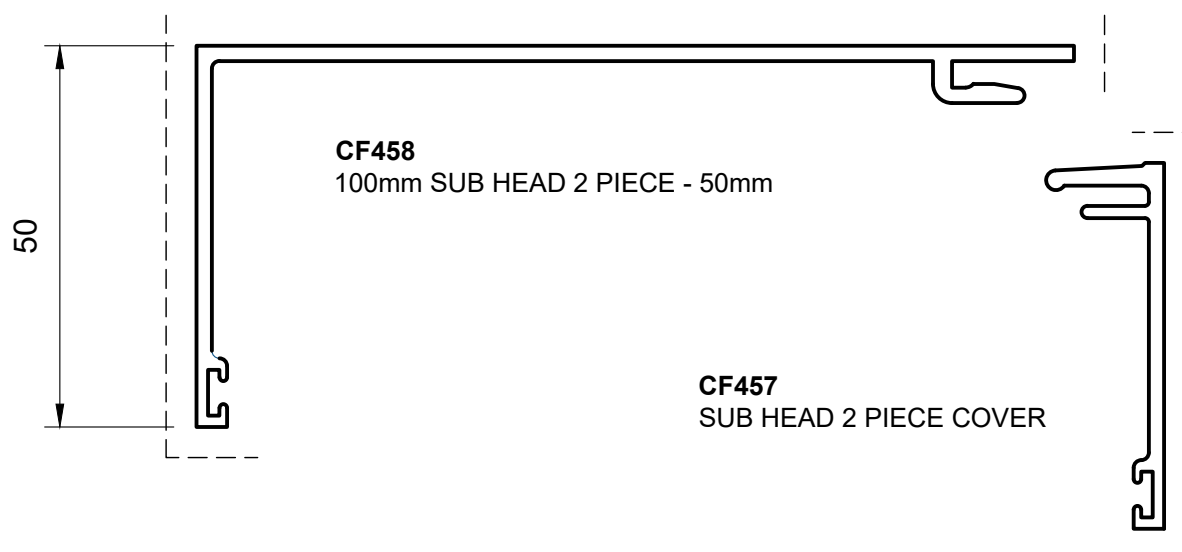
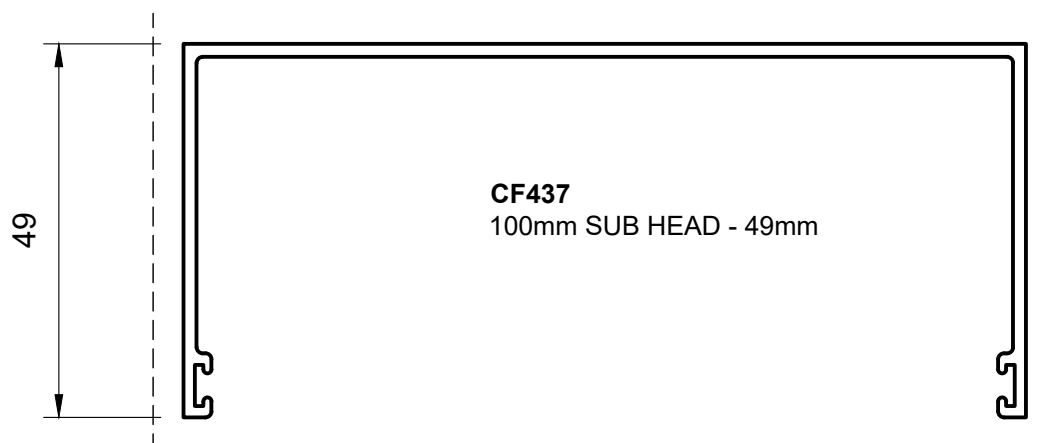


100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED EXTRUSION PROFILES

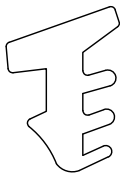


100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

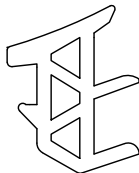
EXTRUSION PROFILES



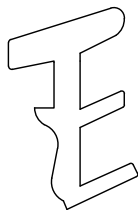
100mm COMMERCIAL FRAME
FLUSH GLAZED - DOUBLE GLAZED
ACCESSORIES



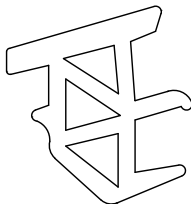
CFH006
GLAZING WEDGE (4mm GAP)
200m ROLL



CFH007
GLAZING WEDGE (5mm GAP)
200m ROLL



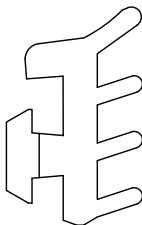
CFH008
GLAZING WEDGE (3mm GAP)
250m ROLL



CFH009
GLAZING WEDGE (6mm GAP)
100m ROLL



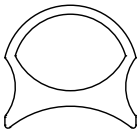
CFH010
GLAZING WEDGE (2mm GAP)
500m ROLL



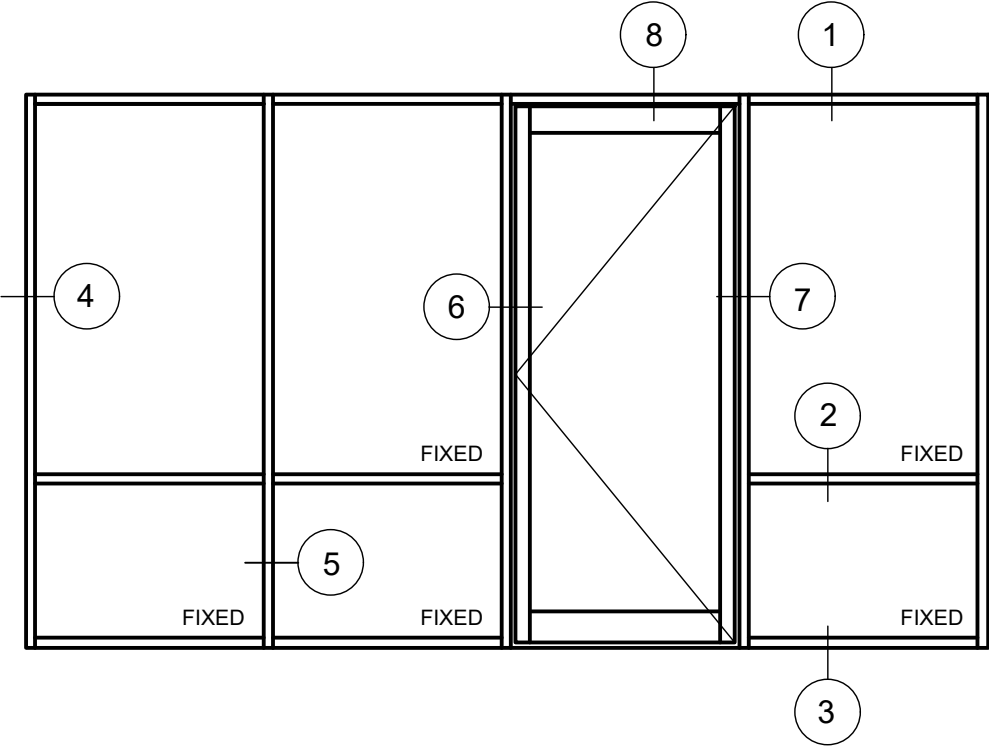
CFH017
CAPTIVE WEDGE (4mm GAP)
250m ROLL

100mm COMMERCIAL FRAME
FLUSH GLAZED - DOUBLE GLAZED
ACCESSORIES



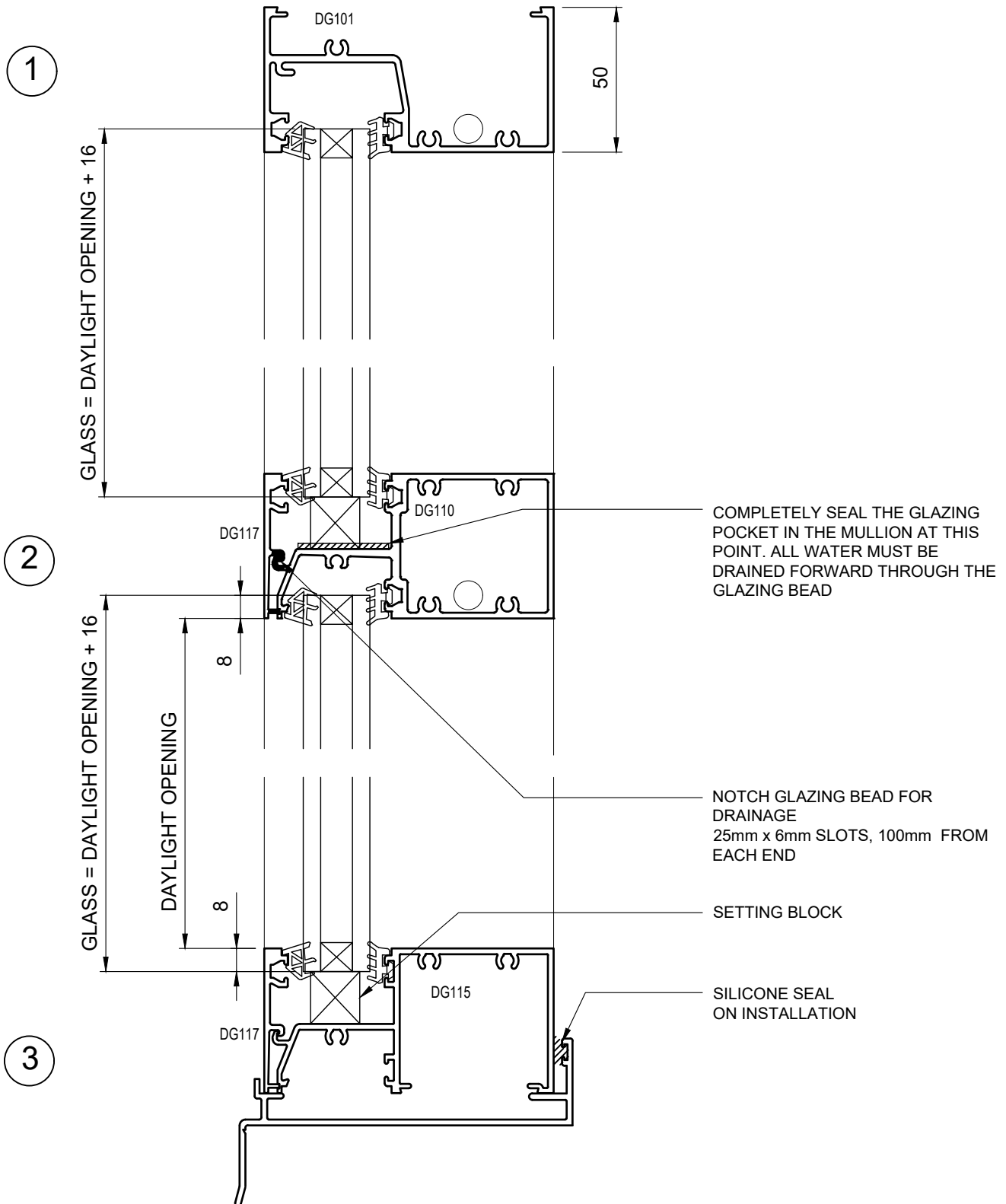
 CFH5 MULLION SEAL 200m ROLL	 CFH4 DOOR BUFFER 200m ROLL
 CFH13 SASH SEAL 200m ROLL	 CFH12 FRINGE PILE 200m ROLL

100mm COMMERCIAL FRAME
FLUSH GLAZED - DOUBLE GLAZED
CONFIGURATIONS



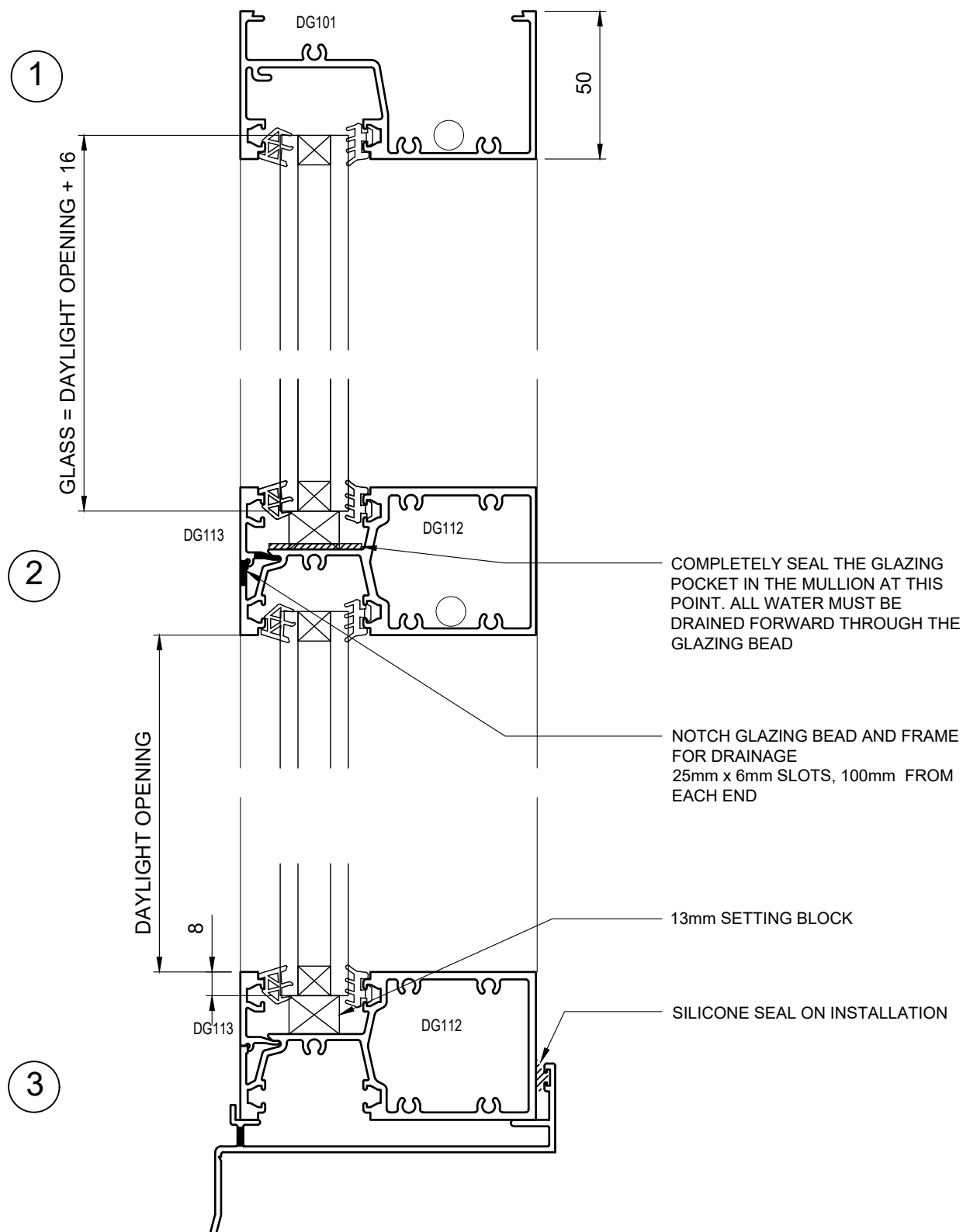
100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

VERTICAL DETAIL - EXTERNAL GLAZED - CAP BEAD



100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

VERTICAL DETAIL - EXTERNAL GLAZED - L BEAD

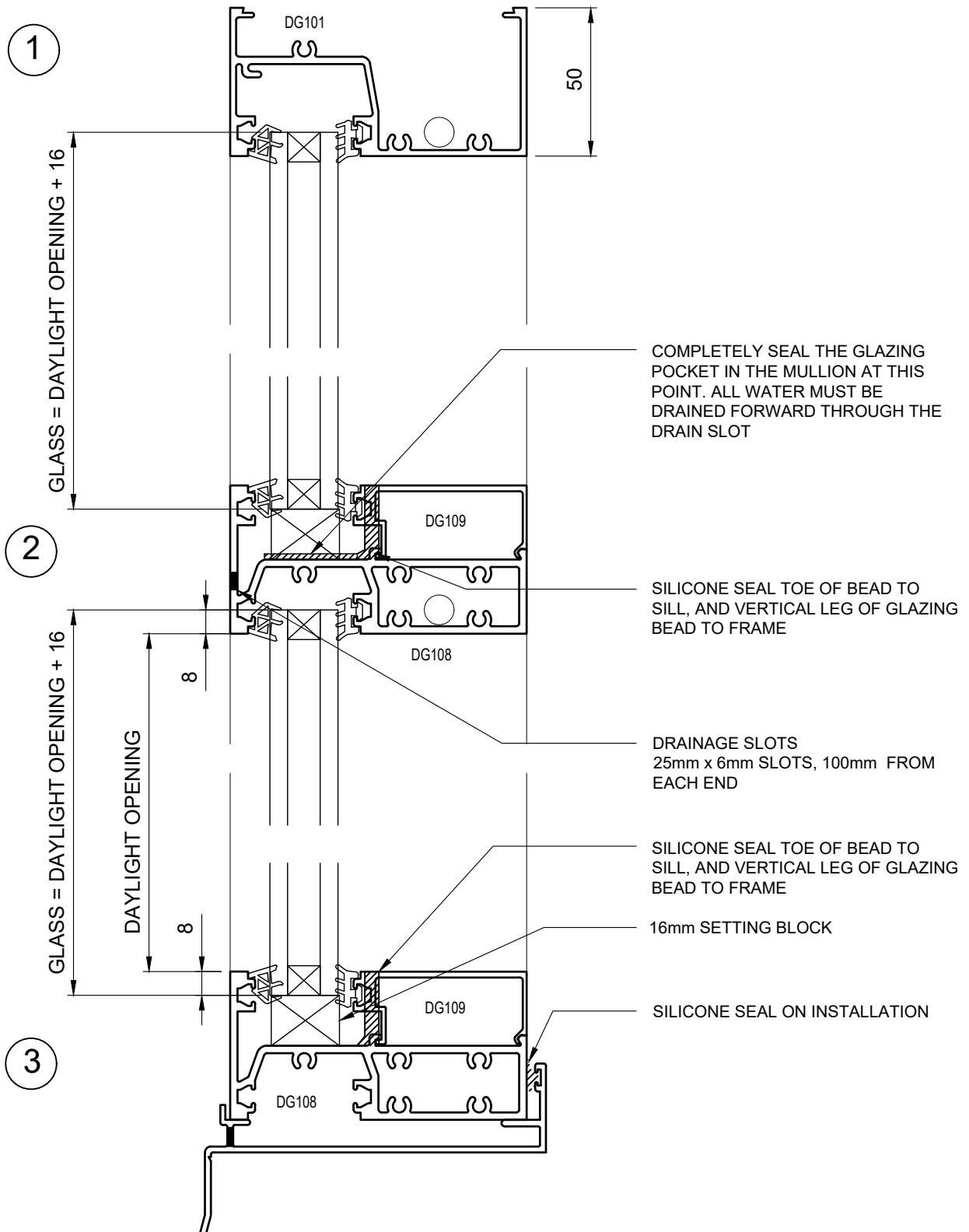


NOTE:

- ALL JOINTS TO BE SEALED USING A SUITABLE SMALL JOINT SEALANT OR CLOSED CELL FRAME GASKET

100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

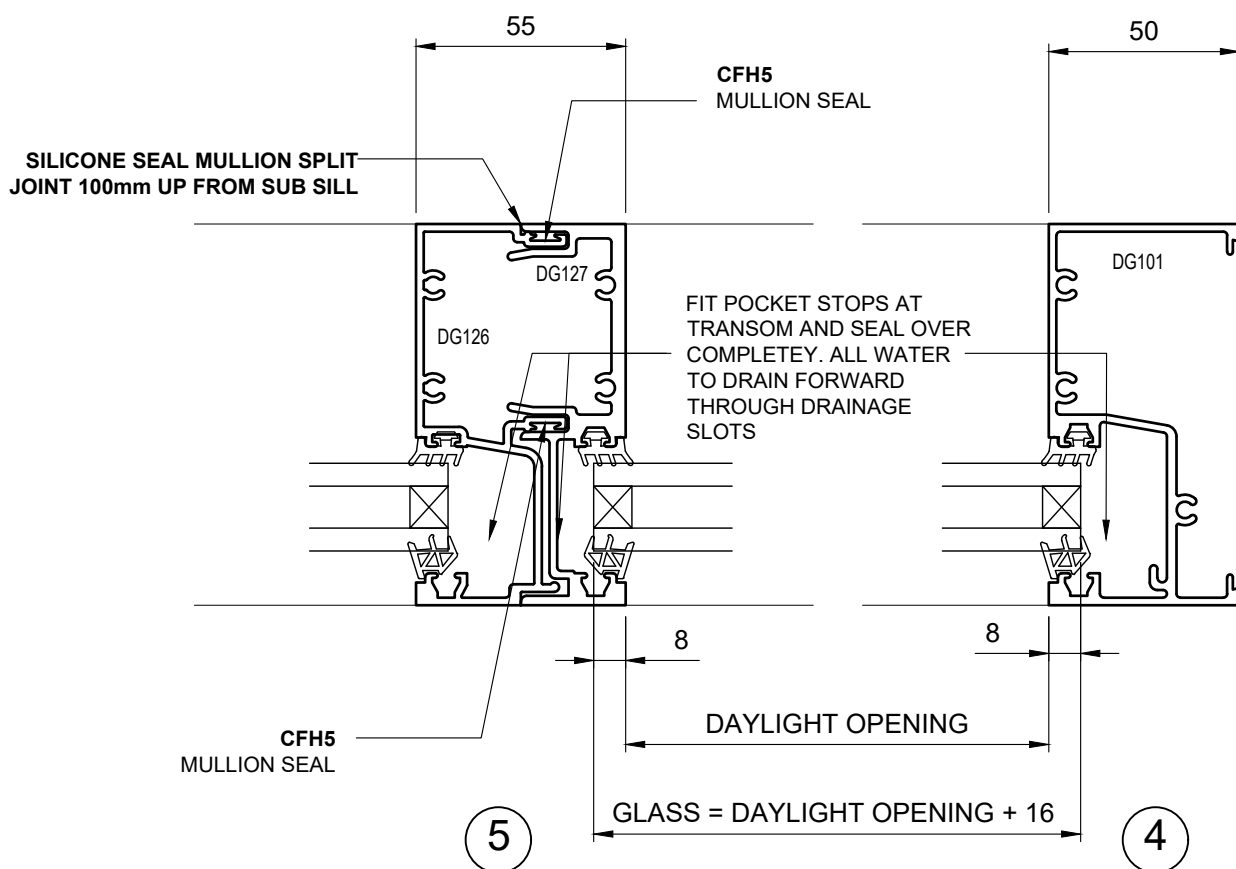
VERTICAL DETAIL - INTERNAL GLAZED



NOTE:

- ALL JOINTS TO BE SEALED USING A SUITABLE SMALL JOINT SEALANT OR CLOSED CELL FRAME GASKET

100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED HORIZONTAL DETAIL - SPLIT MULLIONS

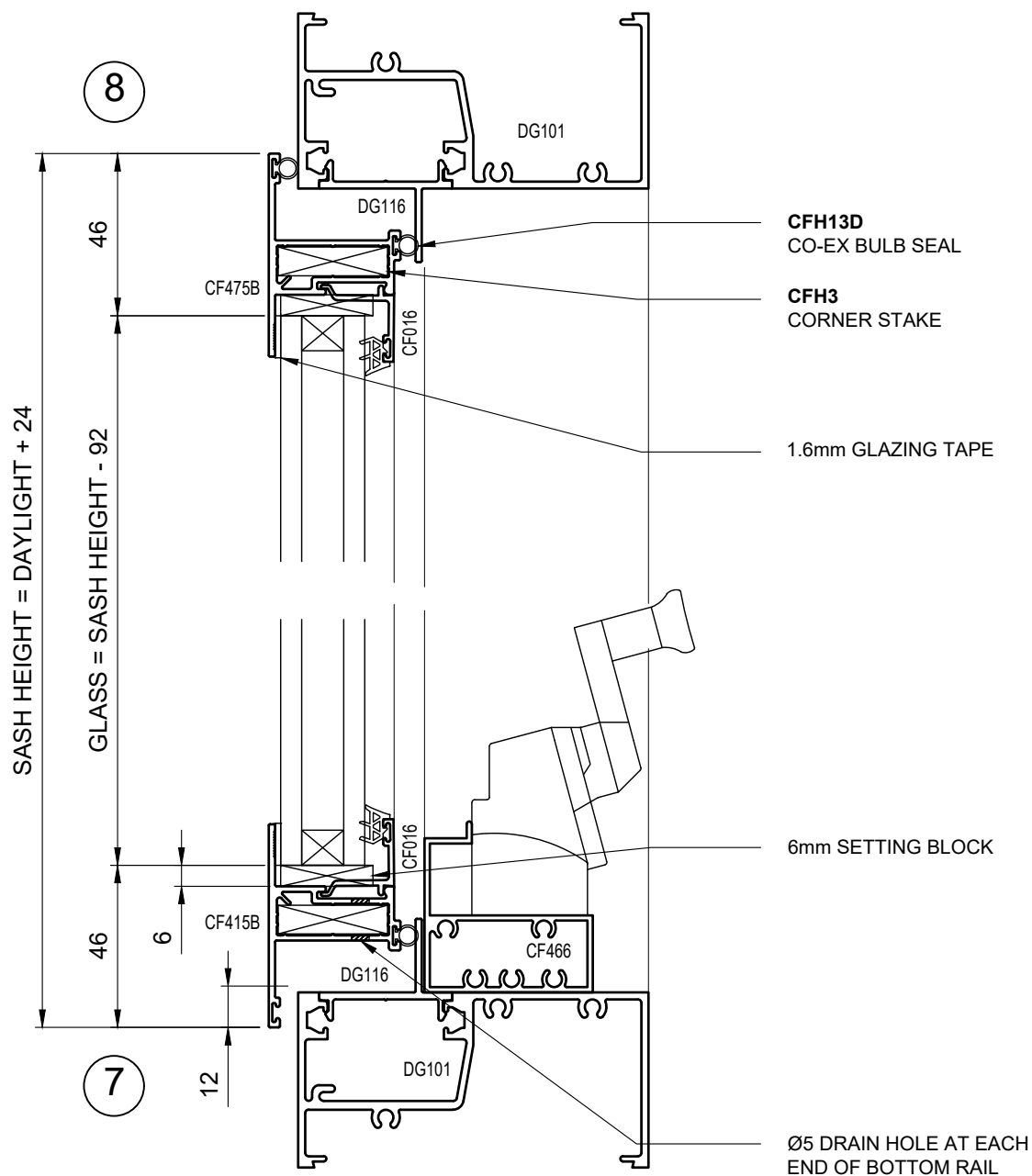


NOTE:

- ALL JOINTS TO BE SEALED USING A SUITABLE SMALL JOINT SEALANT OR CLOSED CELL FRAME GASKET

100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

VERTICAL DETAIL - 35mm AWNING

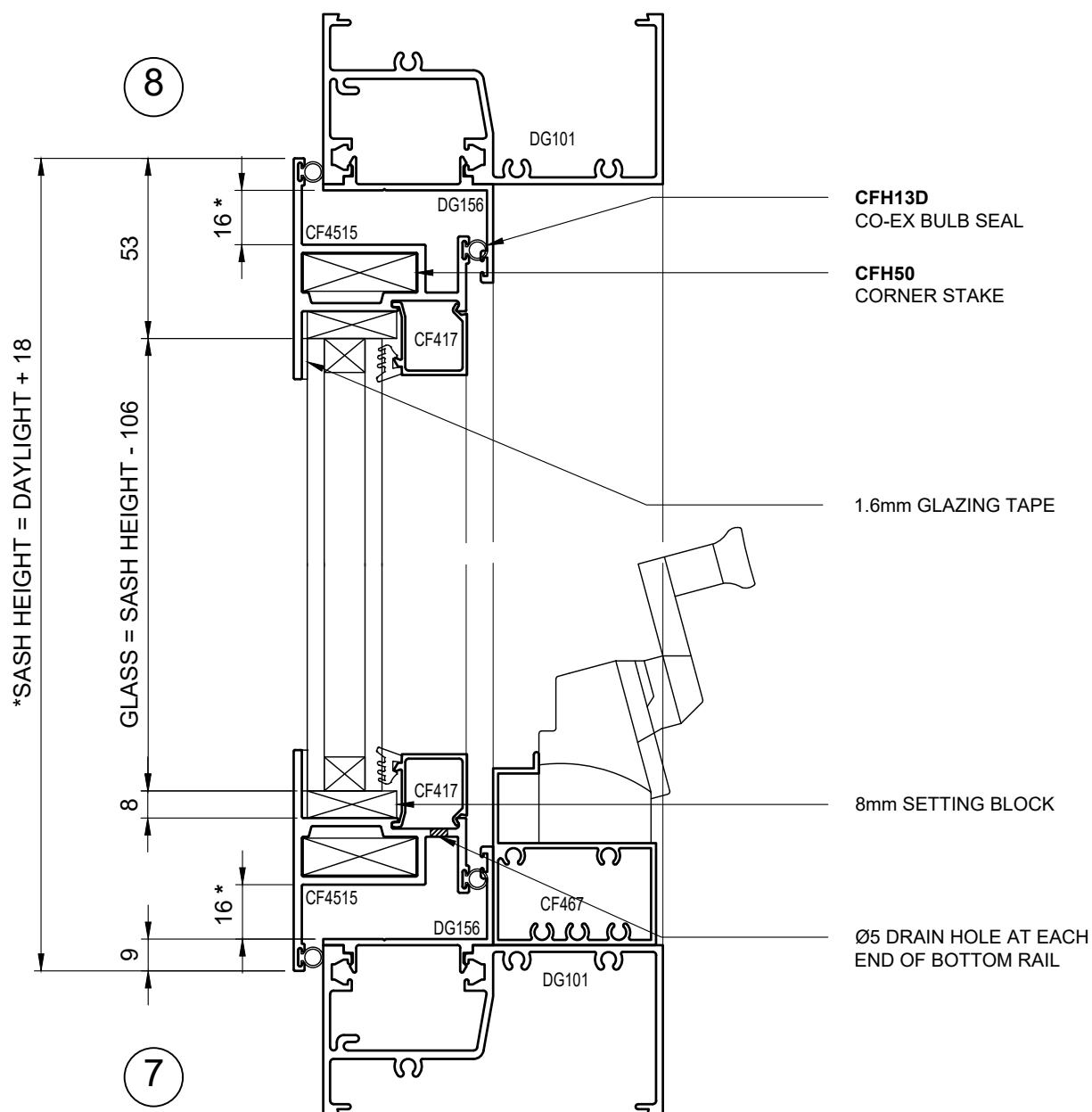


NOTE:

- ALL JOINTS TO BE SEALED USING A SUITABLE SMALL JOINT SEALANT OR CLOSED CELL FRAME GASKET

100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

VERTICAL DETAIL - 50mm AWNING



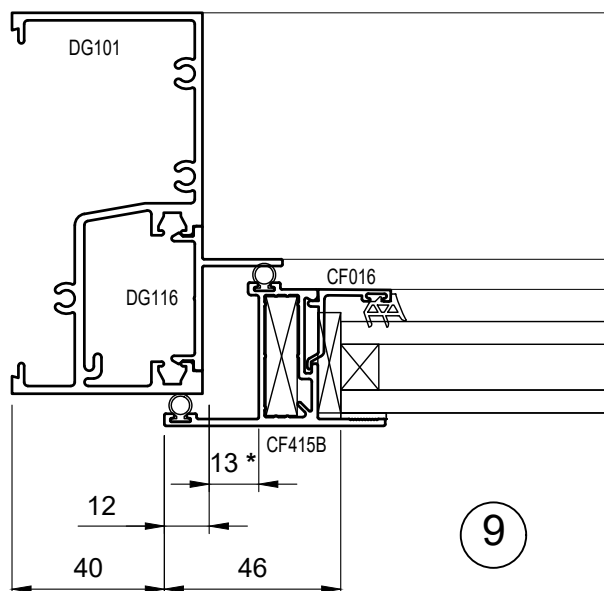
NOTE:

- ALL JOINTS TO BE SEALED USING A SUITABLE SMALL JOINT SEALANT OR CLOSED CELL FRAME GASKET

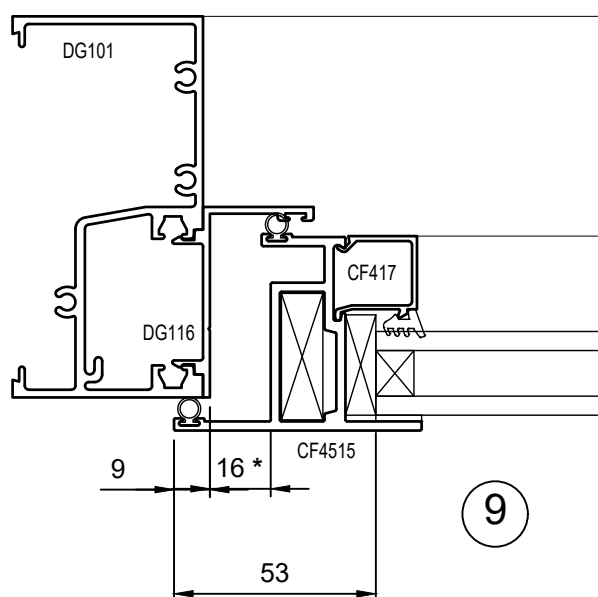
100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

HORIZONTAL DETAIL - AWNING JAMBS

35mm AWNING



50mm AWNING

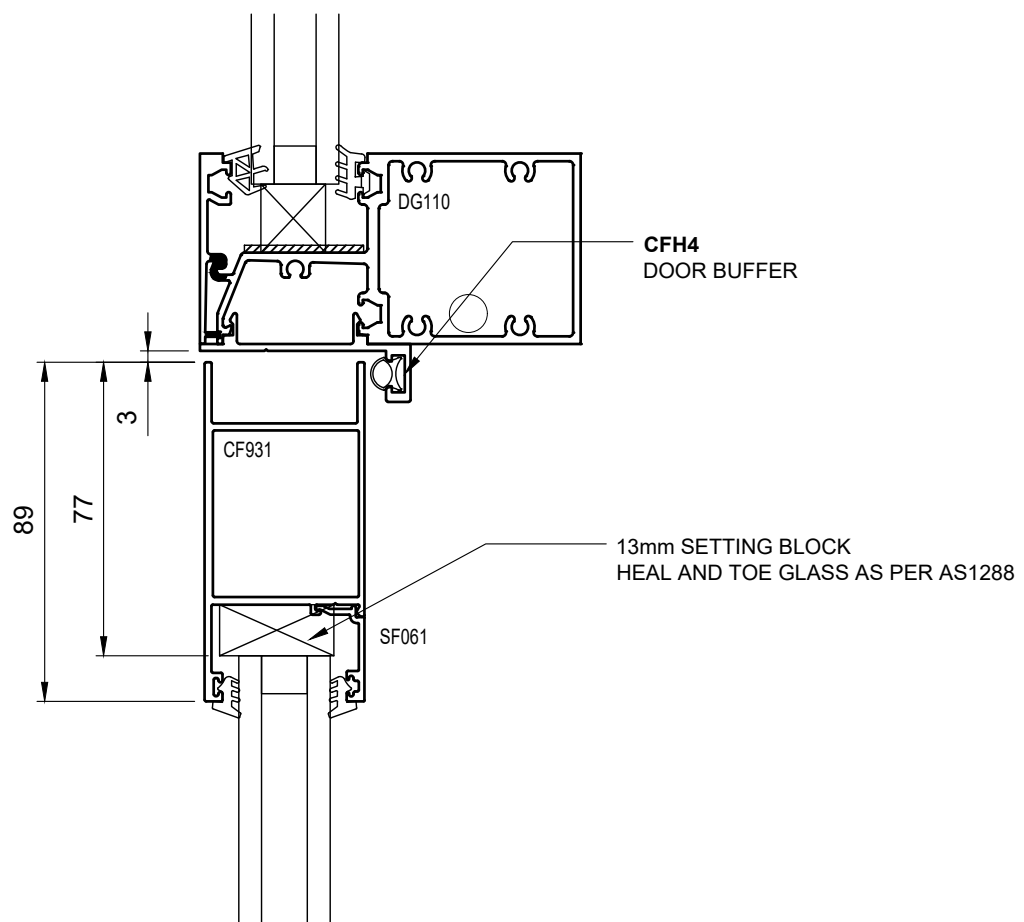


NOTE:

- ALL JOINTS TO BE SEALED USING A SUITABLE SMALL JOINT SEALANT OR CLOSED CELL FRAME GASKET

100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

VERTICAL DETAIL - 45mm HINGED DOOR HEAD/TRANSOM

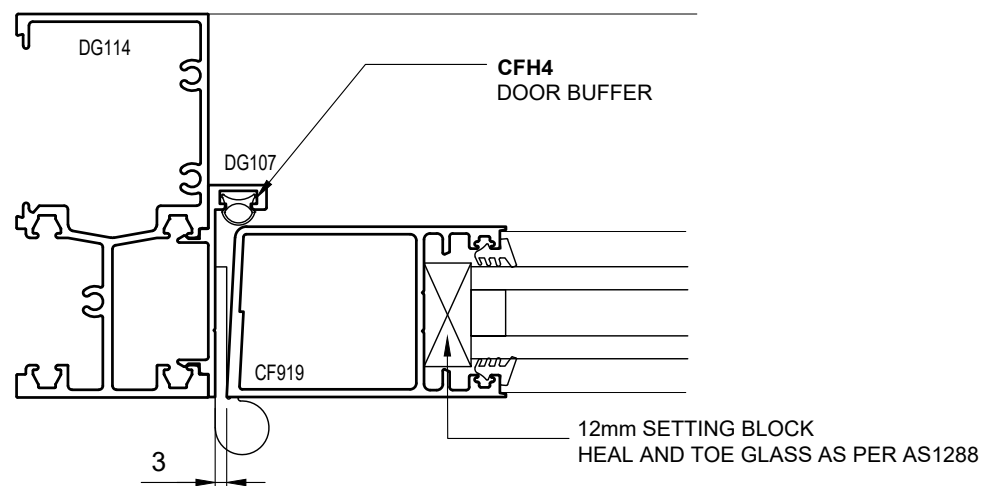


NOTE:

- ALL JOINTS TO BE SEALED USING A SUITABLE SMALL JOINT SEALANT OR CLOSED CELL FRAME GASKET

100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

HORIZONTAL DETAIL - 45mm HINGED DOOR JAMB

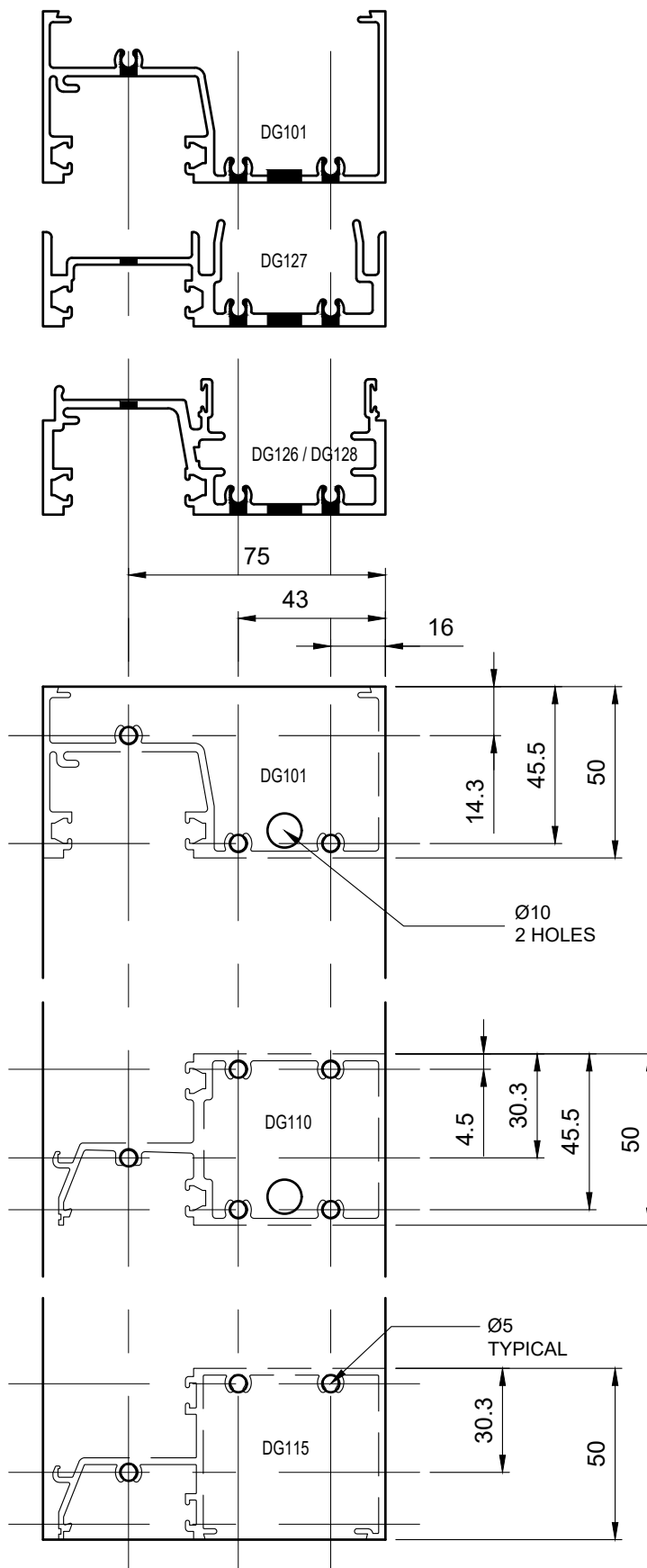


NOTE:

- ALL JOINTS TO BE SEALED USING A SUITABLE SMALL JOINT SEALANT OR CLOSED CELL FRAME GASKET

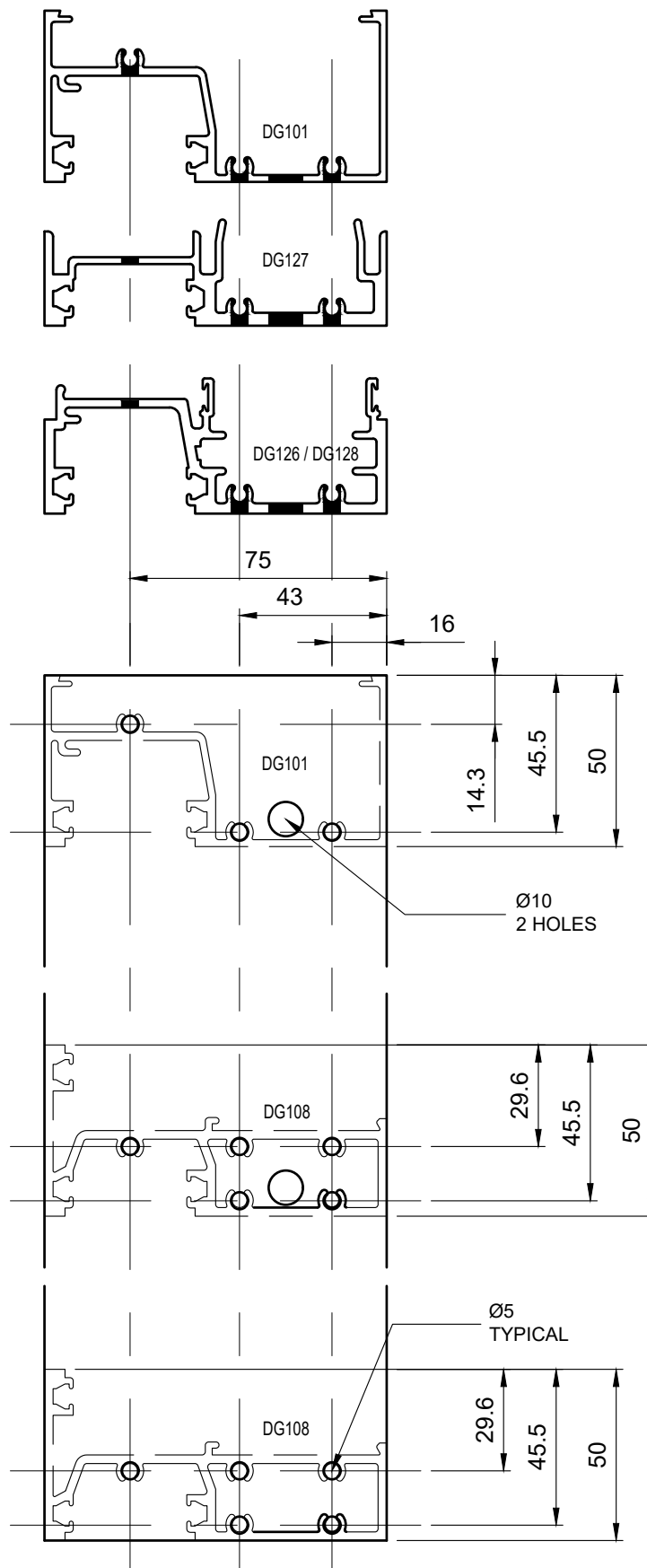
100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

MACHINING - MAIN FRAME AND MULLIONS - EXT CAP GLAZE

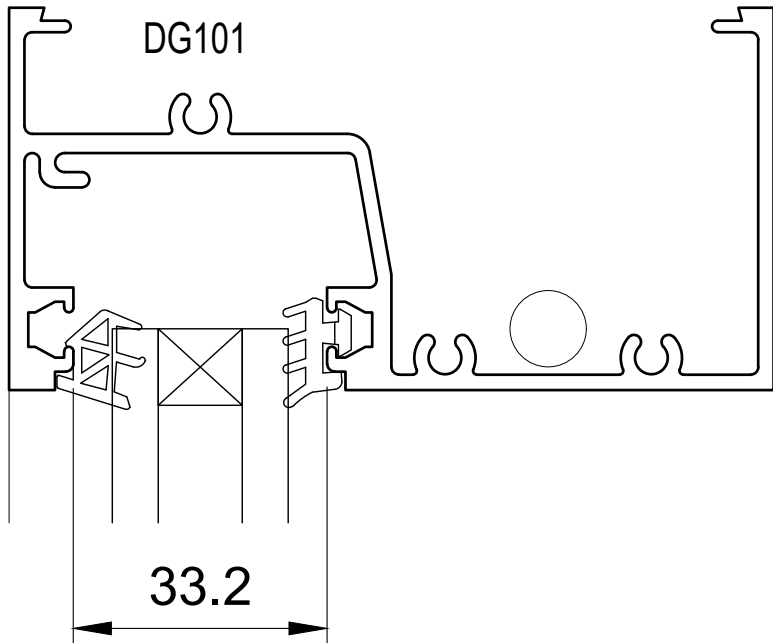


100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED

MACHINING - MAIN FRAME AND MULLIONS - INTERNAL GLAZE



100mm COMMERCIAL FRAME
FLUSH GLAZED - DOUBLE GLAZED
GLAZING DETAILS - CAPTIVE

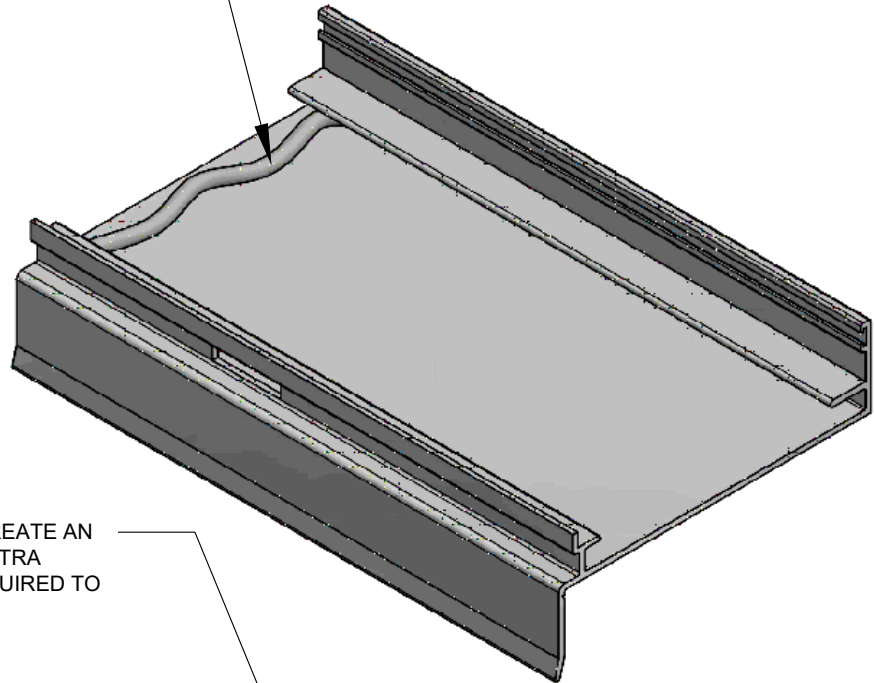


DOUBLE GLAZE - CAPTIVE		
IGU THICKNESS	CAPTIVE	WEDGE
22mm	CFH015 - 6.5mm	CFH007 - 5mm
24mm	CFH015 - 6.5mm	CFH008 - 3mm
26mm	CFH017 - 4mm	CFH007 - 5mm
28mm	CFH017 - 4mm	CFH010 - 2mm

DOUBLE GLAZE - NON - CAPTIVE		
IGU THICKNESS	WEDGE	WEDGE
18mm	SILICONE	SILICONE
20mm	SILICONE	SILICONE
22mm	CFH009 - 6mm	CFH007 - 5mm
24mm	CFH009 - 6mm	CFH008 - 3mm
26mm	CFH007 - 5mm	CFH010 - 2mm
28mm	CFH008 - 3mm	CFH010 - 2mm

100mm COMMERCIAL FRAME FLUSH GLAZED - DOUBLE GLAZED SUB SILL END DAM SEALING

LAY A BED OF SILICONE ACROSS THE BASE OF THE SUB SILLS, CAREFULLY SEALING INTO THE CORNERS AND UP THE VERTICAL SUB SILL LEGS



INSTALL A 25 x 25mm ANGLE TO CREATE AN END DAM IN THE SUB SILL. ADD EXTRA SILICONE IN THE CORNERS IF REQUIRED TO ENSURE WATER TIGHTNESS

RIVET ANGLE TO SUB SILL TO ENSURE THE SILICONE SEAL IS NOT DISTURBED OR BROKEN

