TECHNICAL MANUAL

150mm COMMERCIAL FRAME CENTRE GLAZED - DOUBLE GLAZED

May 2025 / Issue B
Scale 1:1 @ A4

150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

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150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

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150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

SPECIFICATION

FRAME DIMENSIONS
- 150mm x 50mm

MAX PERFORMANCE
- Water Penetration: 600Pa Water

MAXIMUM SIZES
- Max mullion height: 5100
- Max mullion centres: 2200

Refer wind load charts for sizing and max pressures.

GLAZING
- Double Glazed: 22mm - 30mm

150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

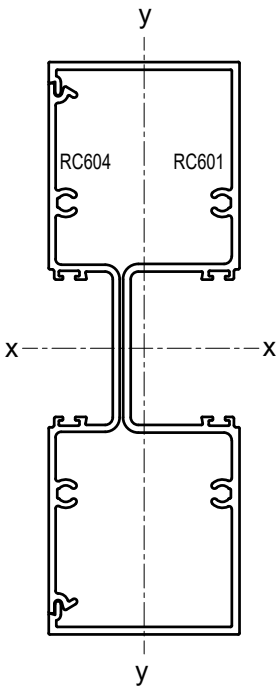
LOAD TABLE - RC601 \ RC604 COUPLED MULLION

SECTION PROPERTIES

Ixx: 2436 x 10^3 mm^4

Alloy: 6060 T5

Max Stress 110 Mpa
S = Serviceability limit state l/250
U = Ultimate limit state



Mullion Height		Maximum Design Pressure (Pa)						
4350	S	640						
	U	1530						
4200	S	710	600					
	U	1650	1380					
4050	S	800	670	580				
	U	1770	1490	1290				
3900	S	900	750	650	580			
	U	1920	1610	1400	1240			
3750	S	1010	850	740	660	600	550	
	U	2080	1750	1520	1350	1220	1120	
3600	S	1140	970	840	750	680	630	590
	U	2260	1900	1650	1470	1330	1220	1140
3450	S	1310	1100	960	860	780	720	680
	U	2470	2080	1810	1610	1460	1350	1260
3300	S	1500	1270	1110	990	900	840	790
	U	2700	2280	1990	1770	1610	1490	1400
3150	S	1730	1470	1280	1150	1050	980	920
	U	2980	2520	2200	1960	1790	1660	1560
3000	S	2010	1710	1500	1350	1240	1160	1090
	U	3290	2790	2440	2190	2000	1860	1750
Mullion Ctrs		1000	1200	1400	1600	1800	2000	2200

This table is based on theoretical section properties

150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

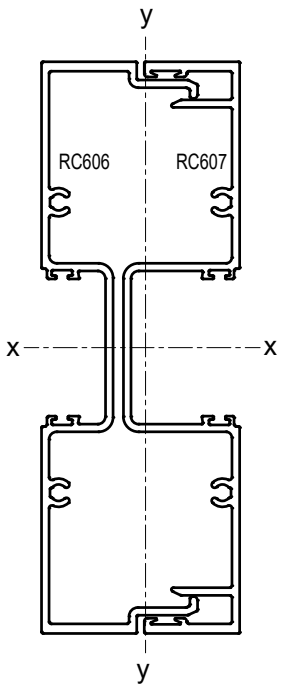
LOAD TABLE - RC606 / RC607 STD SPLIT MULLION

SECTION PROPERTIES

Ixx: 3302 x 10^3 mm^4

Alloy: 6060 T5

Max Stress 110 Mpa
S = Serviceability limit state l/250
U = Ultimate limit state



Mullion Height		Maximum Design Pressure (Pa)						
4350	S	870	730	630	560			
	U	2080	1750	1510	1340			
4200	S	970	810	710	630	560		
	U	2230	1880	1620	1440	1290		
4050	S	1080	910	790	700	630	580	
	U	2410	2020	1750	1550	1400	1280	
3900	S	1220	1020	890	790	720	660	610
	U	2600	2190	1900	1680	1520	1390	1290
3750	S	1370	1160	1010	890	810	750	700
	U	2820	2370	2060	1830	1650	1520	1410
3600	S	1550	1310	1140	1020	930	850	800
	U	3060	2580	2240	2000	1810	1660	1550
3450	S	1770	1500	1310	1170	1060	980	920
	U	3340	2820	2460	2190	1980	1830	1710
3300	S	2030	1720	1500	1350	1230	1140	1070
	U	3670	3100	2700	2410	2190	2020	1890
3150	S	2340	1990	1740	1560	1430	1330	1250
	U	4040	3410	2980	2660	2430	2250	2110
3000	S	2730	2320	2030	1830	1680	1570	1490
	U	4470	3780	3310	2970	2710	2520	2380
Mullion Ctrs		1000	1200	1400	1600	1800	2000	2200

This table is based on theoretical section properties

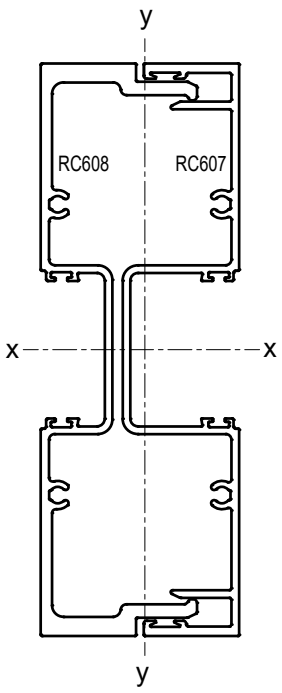
150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

LOAD TABLE - RC608 / RC607 MED SPLIT MULLION

SECTION PROPERTIES
Ixx: 4336 x 10^3 mm^4

Alloy: 6060 T5

Max Stress 110 Mpa
S = Serviceability limit state l/250
U = Ultimate limit state



Mullion Height		Maximum Design Pressure (Pa)						
5700	S							
	U							
5400	S							
	U							
5100	S	700						
	U	1980						
4800	S	850	710	610				
	U	2240	1870	1620				
4500	S	1030	870	750	660			
	U	2550	2140	1850	1630			
4200	S	1270	1070	930	820	740	680	630
	U	2930	2470	2130	1890	1700	1550	1440
3900	S	1600	1350	1170	1040	940	860	800
	U	3410	2870	2490	2210	2000	1830	1700
3600	S	2040	1720	1500	1340	1220	1120	1050
	U	4020	3390	2950	2620	2370	2180	2030
3300	S	2670	2260	1980	1770	1610	1500	1410
	U	4810	4070	3540	3160	2880	2660	2490
3000	S	3000	3000	2670	2400	2210	2060	1950
	U	5870	4970	4350	3900	3560	3310	3130
Mullion Ctrs		1000	1200	1400	1600	1800	2000	2200

This table is based on theoretical section properties

150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

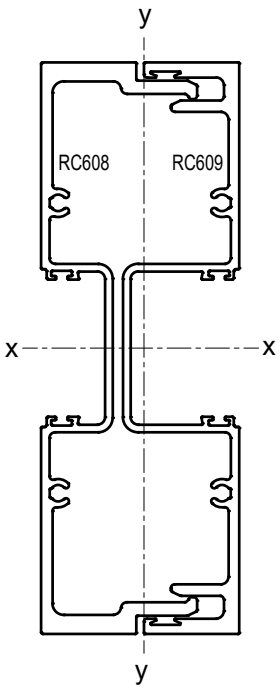
LOAD TABLE - RC608 / RC609 HD SPLIT MULLION

SECTION PROPERTIES

Ixx: 4865 x 10^3 mm^4

Alloy: 6060 T5

Max Stress 110 Mpa
S = Serviceability limit state l/250
U = Ultimate limit state



Mullion Height		Maximum Design Pressure (Pa)						
5700	S							
	U							
5400	S							
	U							
5100	S	790	660					
	U	2220	1860					
4800	S	950	800	690	610			
	U	2510	2100	1820	1600			
4500	S	1160	970	840	740	670		
	U	2860	2400	2080	1830	1650		
4200	S	1430	1200	1040	920	830	760	710
	U	3290	2770	2400	2120	1910	1750	1610
3900	S	1790	1510	1310	1170	1060	970	900
	U	3830	3220	2800	2480	2240	2050	1900
3600	S	2290	1940	1690	1500	1370	1260	1180
	U	4520	3810	3310	2940	2660	2450	2280
3300	S	2990	2540	2220	1980	1810	1680	1580
	U	5400	4560	3980	3550	3230	2980	2790
3000	S	3000	3000	3000	2700	2480	2310	2190
	U	6000	5580	4880	4370	4000	3720	3510
Mullion Ctrs		1000	1200	1400	1600	1800	2000	2200

This table is based on theoretical section properties

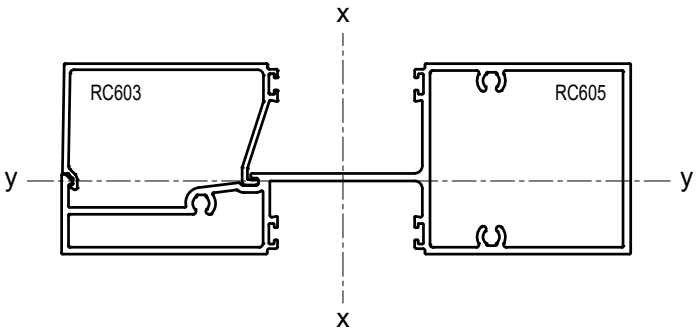
150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

LOAD TABLE - RC605 TRANSOM

SECTION PROPERTIES
Ixx: 1769 x 10^3 mm^4
Iyy: 227 x 10^3 mm^4

Alloy: 6060 T5

Max Stress 110 Mpa
S = Serviceability limit state l/250
U = Ultimate limit state



Transom Ctrs		Maximum Design Pressure (Pa)						
1700	S	3000	3000	3000	3000	3000		
	U	6000	6000	6000	6000	4850		
1600	S	3000	3000	3000	3000	3000		
	U	6000	6000	6000	6000	4920		
1500	S	3000	3000	3000	3000	3000		
	U	6000	6000	6000	6000	5030		
1400	S	3000	3000	3000	3000	3000		
	U	6000	6000	6000	6000	5190		
1300	S	3000	3000	3000	3000	3000	3000	
	U	6000	6000	6000	6000	5400	4460	
1200	S	3000	3000	3000	3000	3000	3000	
	U	6000	6000	6000	6000	5670	4710	
1100	S	3000	3000	3000	3000	3000	3000	
	U	6000	6000	6000	6000	6000	5020	
1000	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	6000	5410	4610
900	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	6000	5910	5040
800	S	3000	3000	3000	3000	3000	3000	3000
	U	6000	6000	6000	6000	6000	6000	5590
Max Weight		120	120	120	120	120	110	90
Transom length		1200	1350	1500	1650	1800	1950	2100

This table is based on theoretical section properties

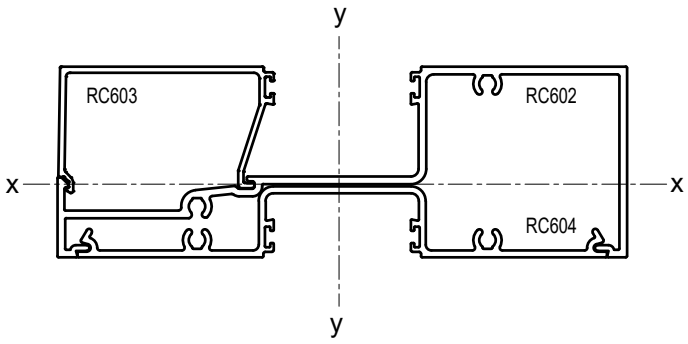
150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

LOAD TABLE - RC602 / RC604 TRANSOM

SECTION PROPERTIES
Ixx: 1437 x 10^3 mm^4
Iyy: 142 x 10^3 mm^4

Alloy: 6060 T5

Max Stress 110 Mpa
S = Serviceability limit state l/250
U = Ultimate limit state

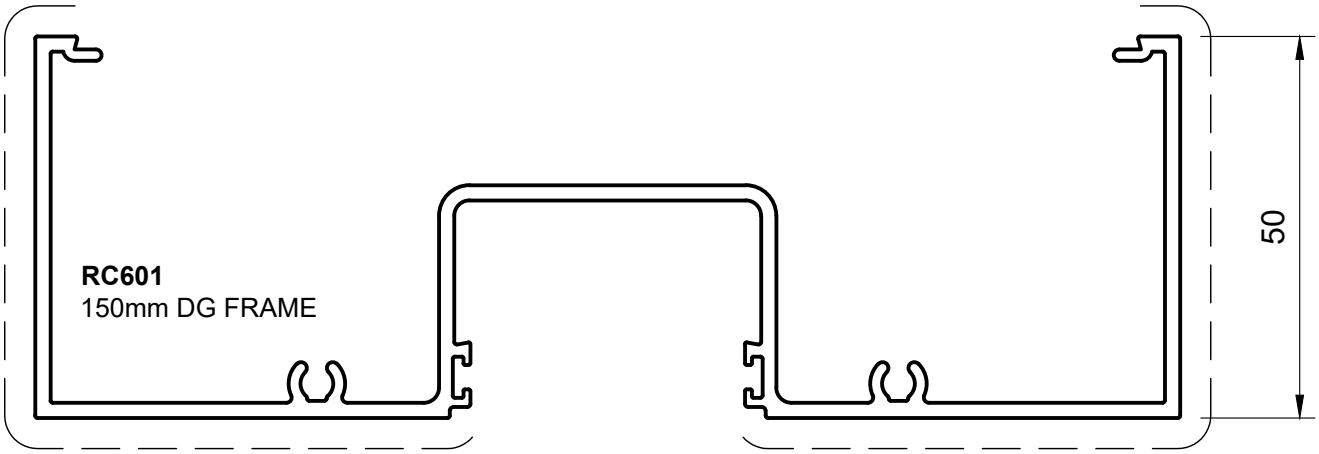


Transom Ctrs		Maximum Design Pressure (Pa)						
1700	S	3000	3000	3000	3000			
	U	6000	6000	6000	5020			
1600	S	3000	3000	3000	3000			
	U	6000	6000	6000	5020			
1500	S	3000	3000	3000	3000			
	U	6000	6000	6000	5070			
1400	S	3000	3000	3000	3000			
	U	6000	6000	6000	5180			
1300	S	3000	3000	3000	3000			
	U	6000	6000	6000	5350			
1200	S	3000	3000	3000	3000	3000		
	U	6000	6000	6000	5580	4530		
1100	S	3000	3000	3000	3000	3000		
	U	6000	6000	6000	5880	4810		
1000	S	3000	3000	3000	3000	3000		
	U	6000	6000	6000	6000	5160		
900	S	3000	3000	3000	3000	3000	3000	
	U	6000	6000	6000	6000	5610	4720	
800	S	3000	3000	3000	3000	3000	3000	
	U	6000	6000	6000	6000	6000	5230	
Max Weight		120	120	120	110	90	70	
Transom length		1200	1350	1500	1650	1800	1950	2100

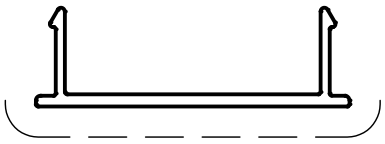
This table is based on theoretical section properties

150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

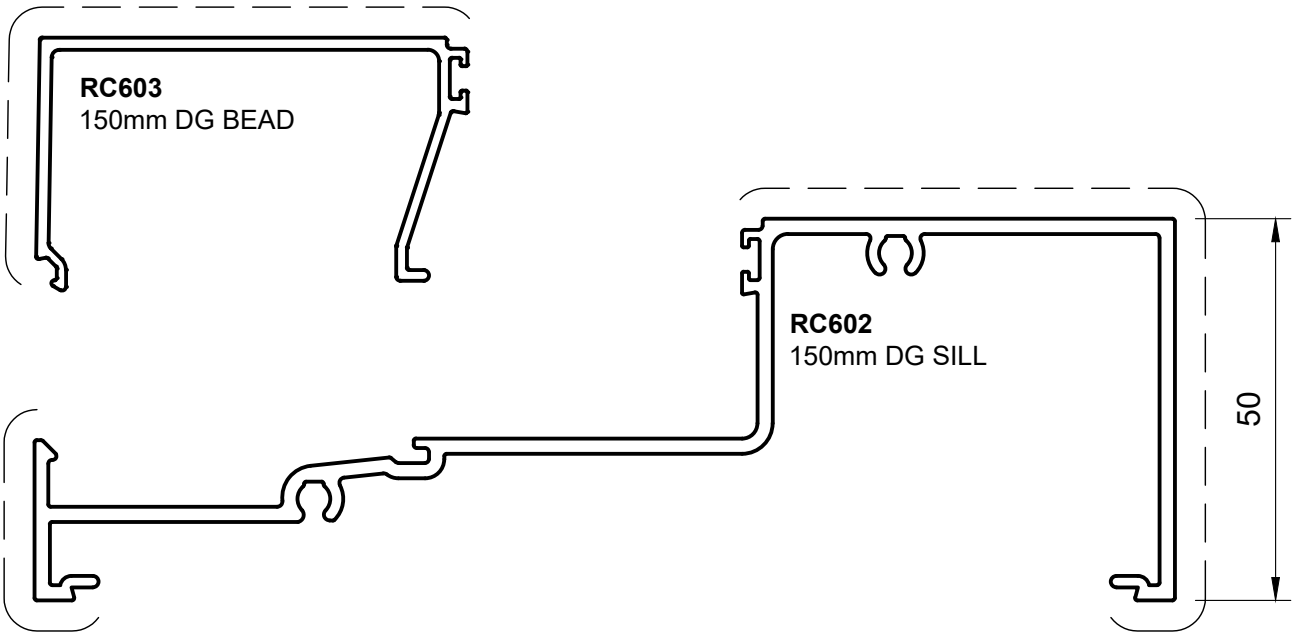
EXTRUSION PROFILES



RC601
150mm DG FRAME



RC610
DG POCKET INFILL

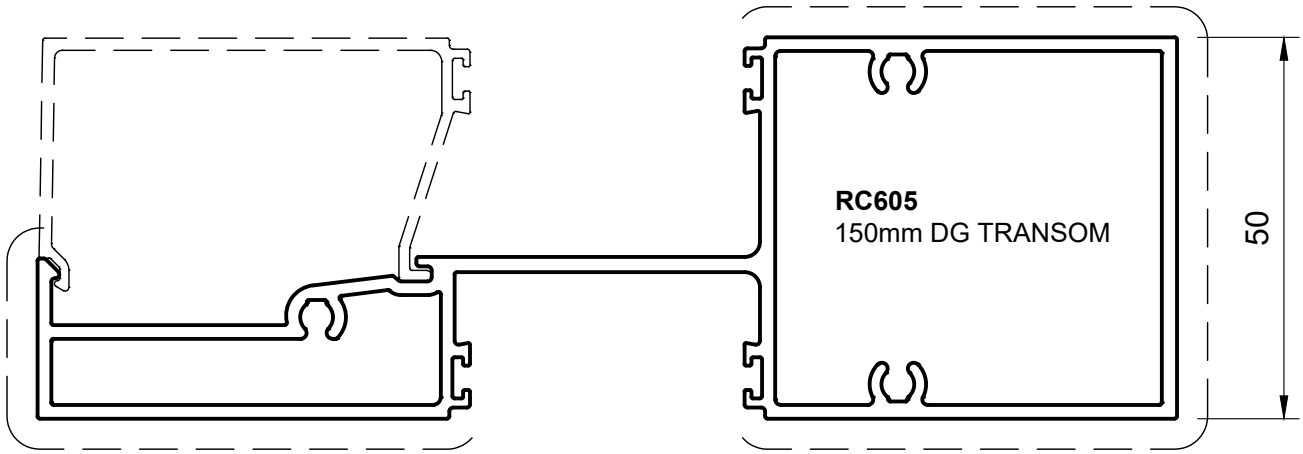


RC603
150mm DG BEAD

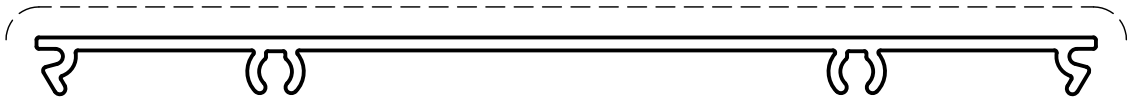
RC602
150mm DG SILL

150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

EXTRUSION PROFILES



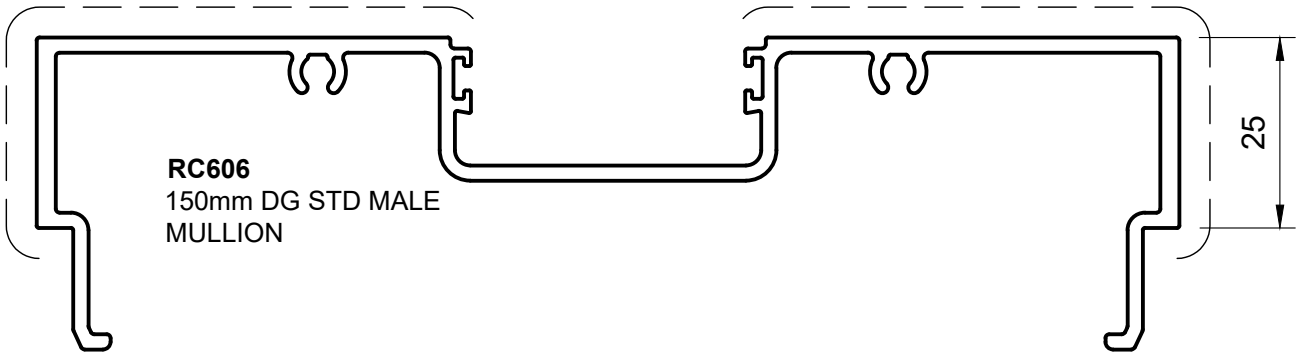
BW614
150mm FLAT FILLER



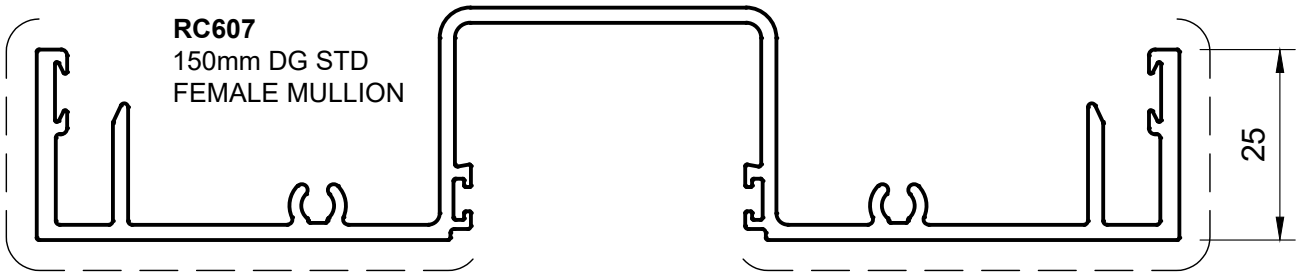
RC604
150mm DG GLAZING ADAPTOR

150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

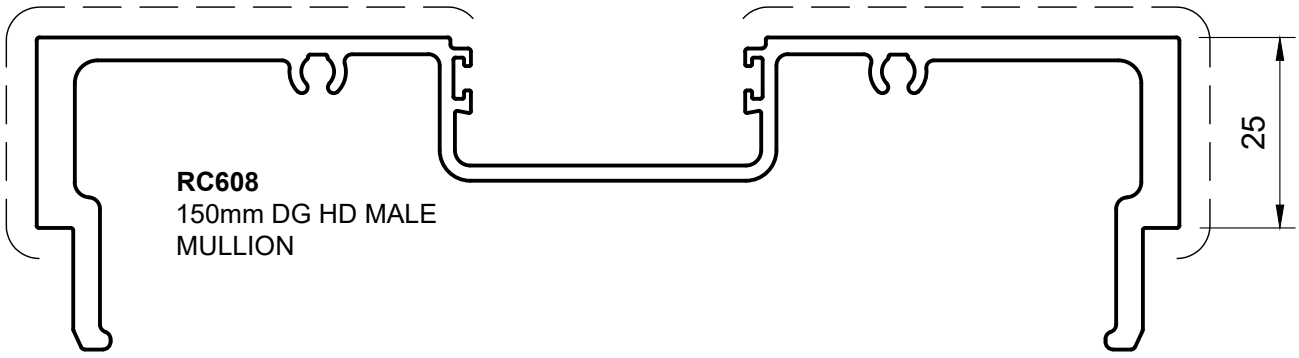
EXTRUSION PROFILES



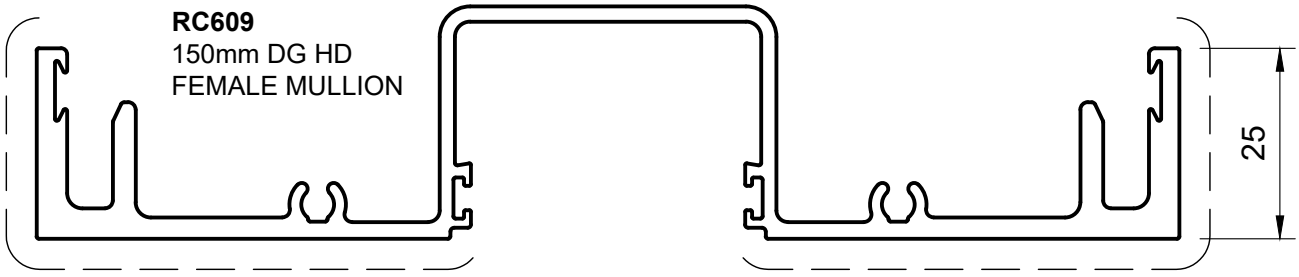
RC606
150mm DG STD MALE
MULLION



RC607
150mm DG STD
FEMALE MULLION



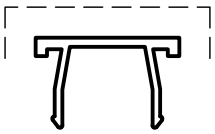
RC608
150mm DG HD MALE
MULLION



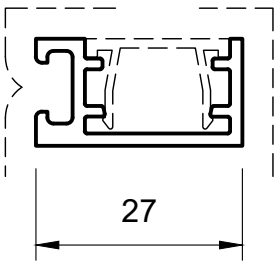
RC609
150mm DG HD
FEMALE MULLION

150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

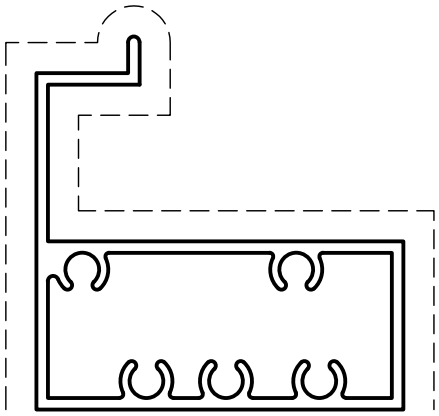
EXTRUSION PROFILES



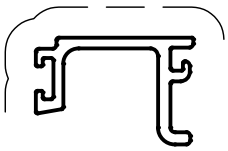
CF306
INFILL



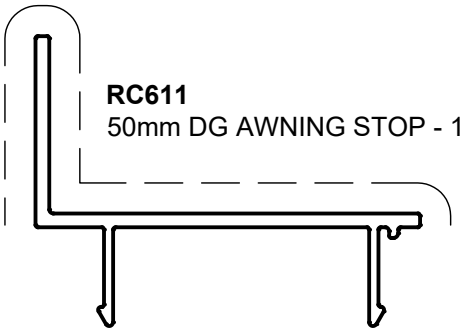
CF429C
PLANT ON DOOR STOP



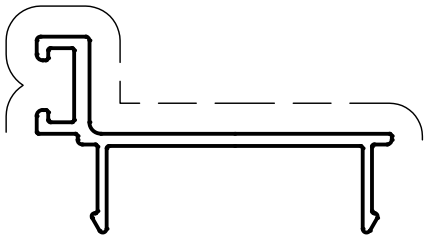
CF466
WINDER SUPPORT - 35mm SASH



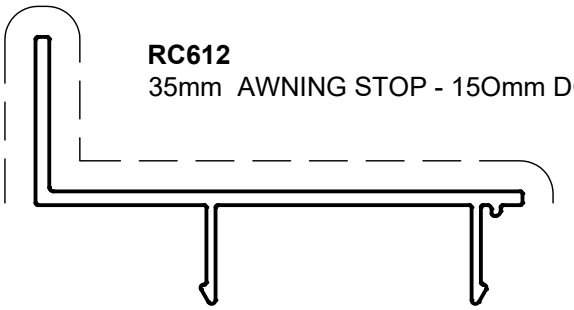
DG POCKET REDUCER



RC611
50mm DG AWNING STOP - 15Omm DG



RC613
45mm DG DOOR STOP - 15Omm DG

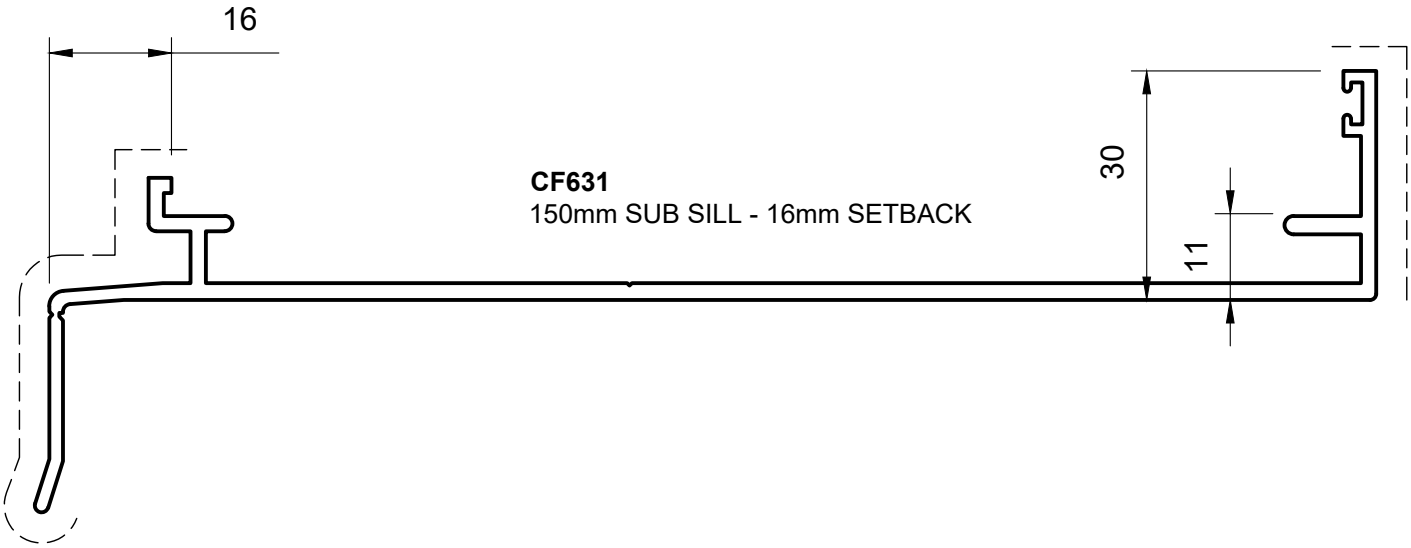


RC612
35mm AWNING STOP - 15Omm DG

150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

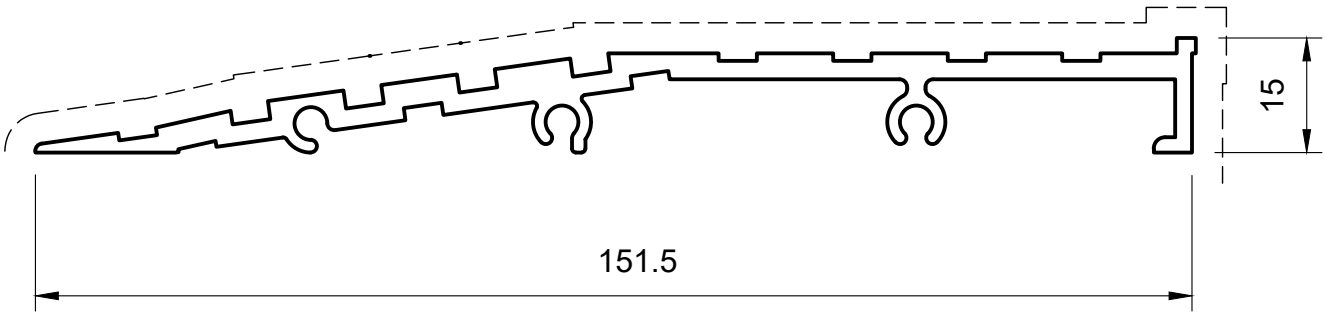
EXTRUSION PROFILES

CF630
150mm SUB SILL - 8mm SETBACK



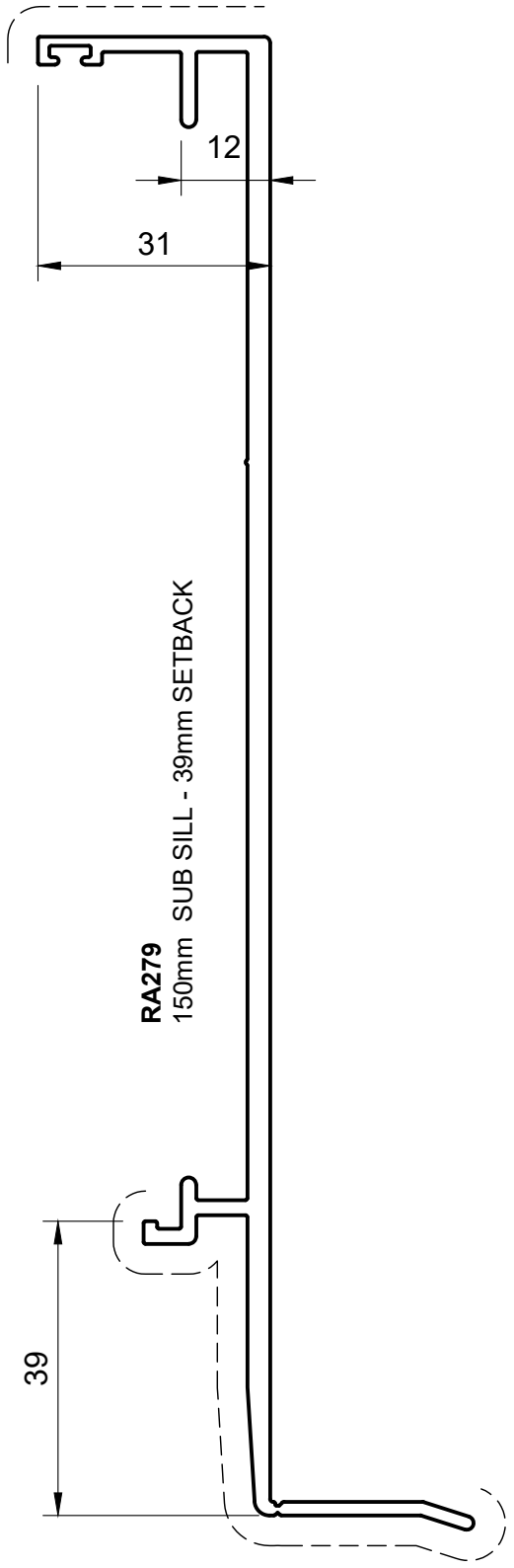
CF631
150mm SUB SILL - 16mm SETBACK

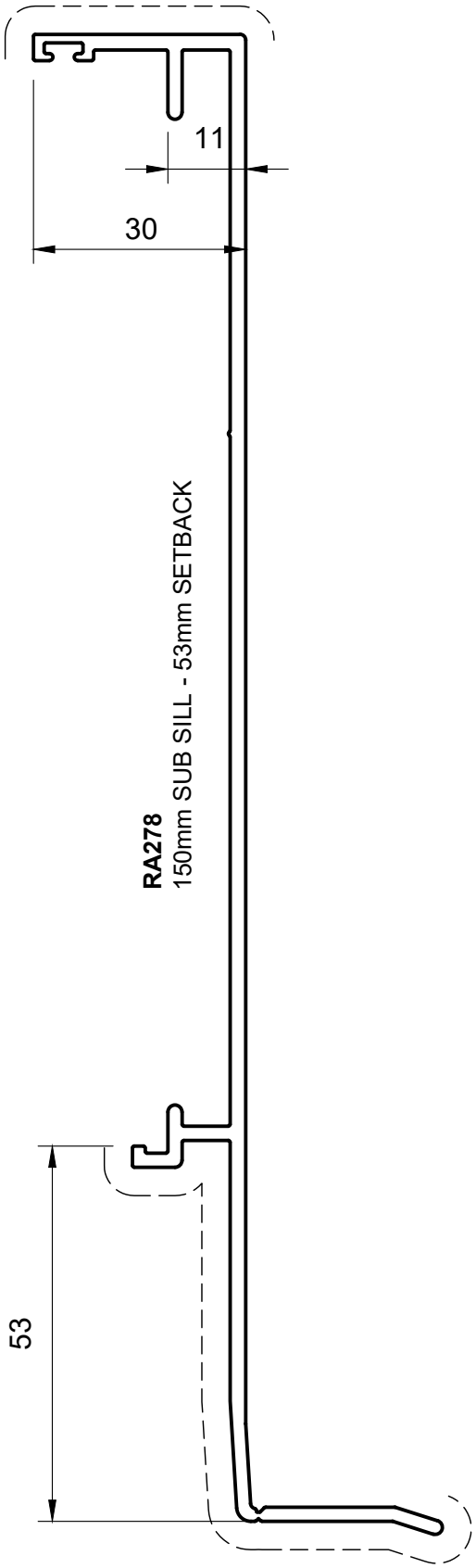
CF669
150mm ACCESSIBLE RAMP THRESHOLD



150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

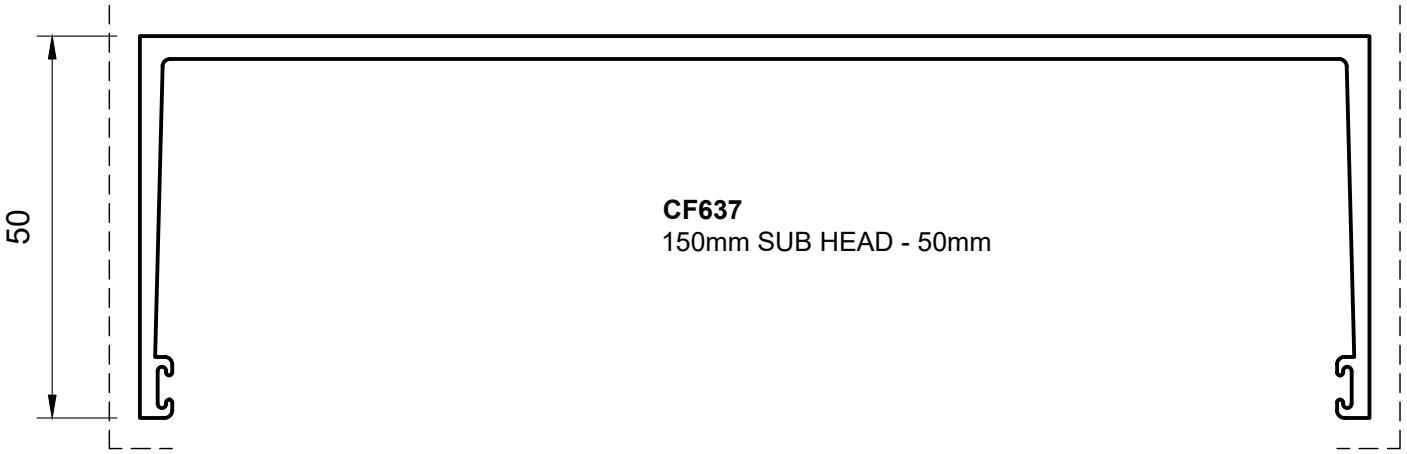
EXTRUSION PROFILES



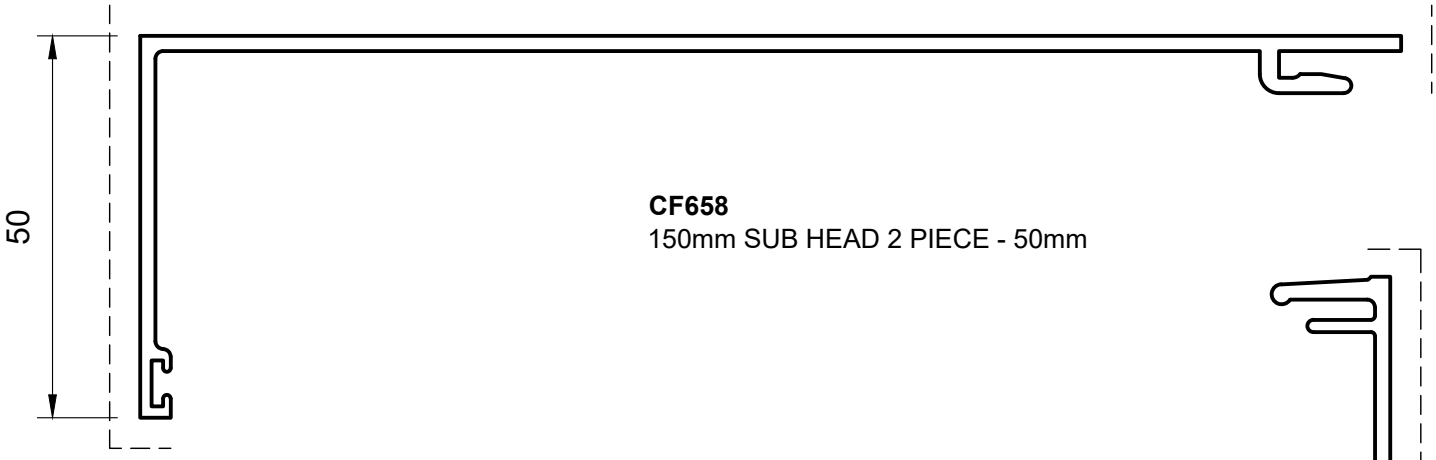


150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

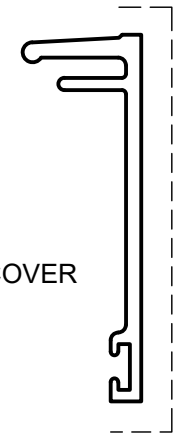
EXTRUSION PROFILES



CF637
150mm SUB HEAD - 50mm



CF658
150mm SUB HEAD 2 PIECE - 50mm



CF457
SUB HEAD 2 PIECE COVER

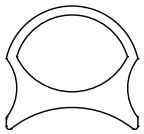
150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

ACCESSORIES

 **CFH204** GLAZING WEDGE (4mm GAP) 100m ROLL	 **CFH205** GLAZING WEDGE (5mm GAP) 100m ROLL
 **CFH206** GLAZING WEDGE (6mm GAP) 100m ROLL	 **CFH207** GLAZING WEDGE (7mm GAP) 100m ROLL
 **CFH208** GLAZING WEDGE (8mm GAP) 100m ROLL	 **CFH260** CAPTIVE WEDGE (6mm GAP) 100m ROLL

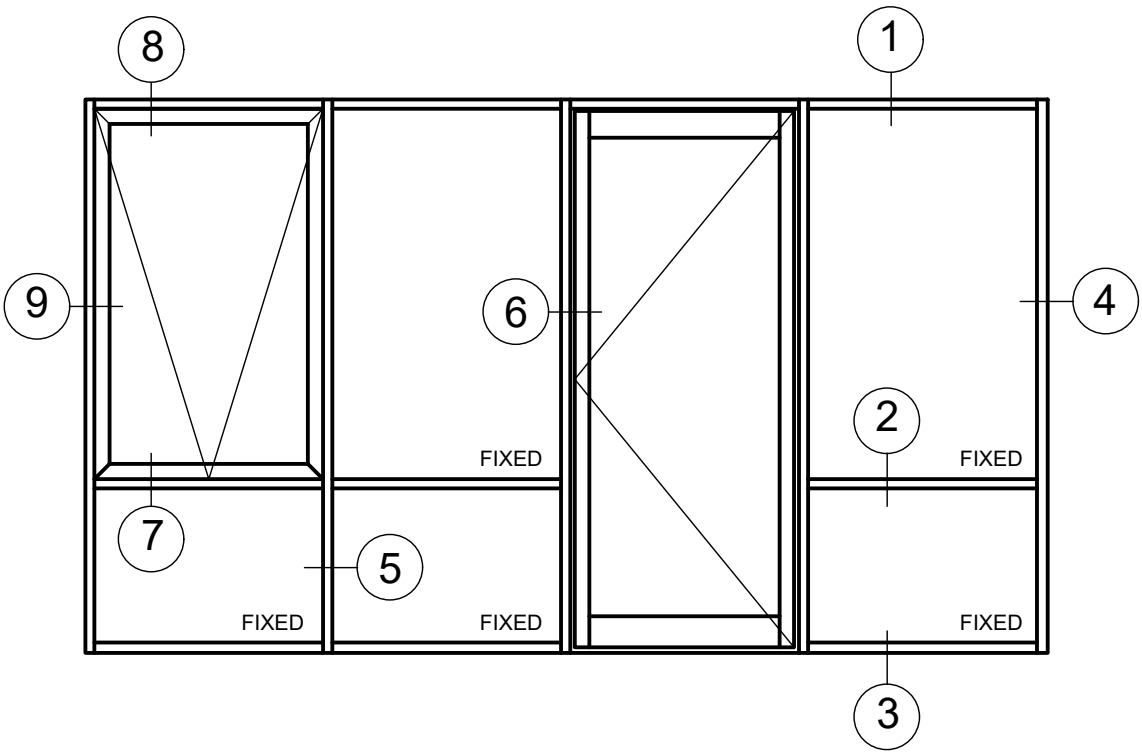
150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

ACCESSORIES

 **CFH220** CAPTIVE WEDGE (2mm GAP) 200m ROLL	 **CFH5** MULLION SEAL 200m ROLL
 **CFH13** SASH SEAL 200m ROLL	 **CFH4** DOOR BUFFER 200m ROLL

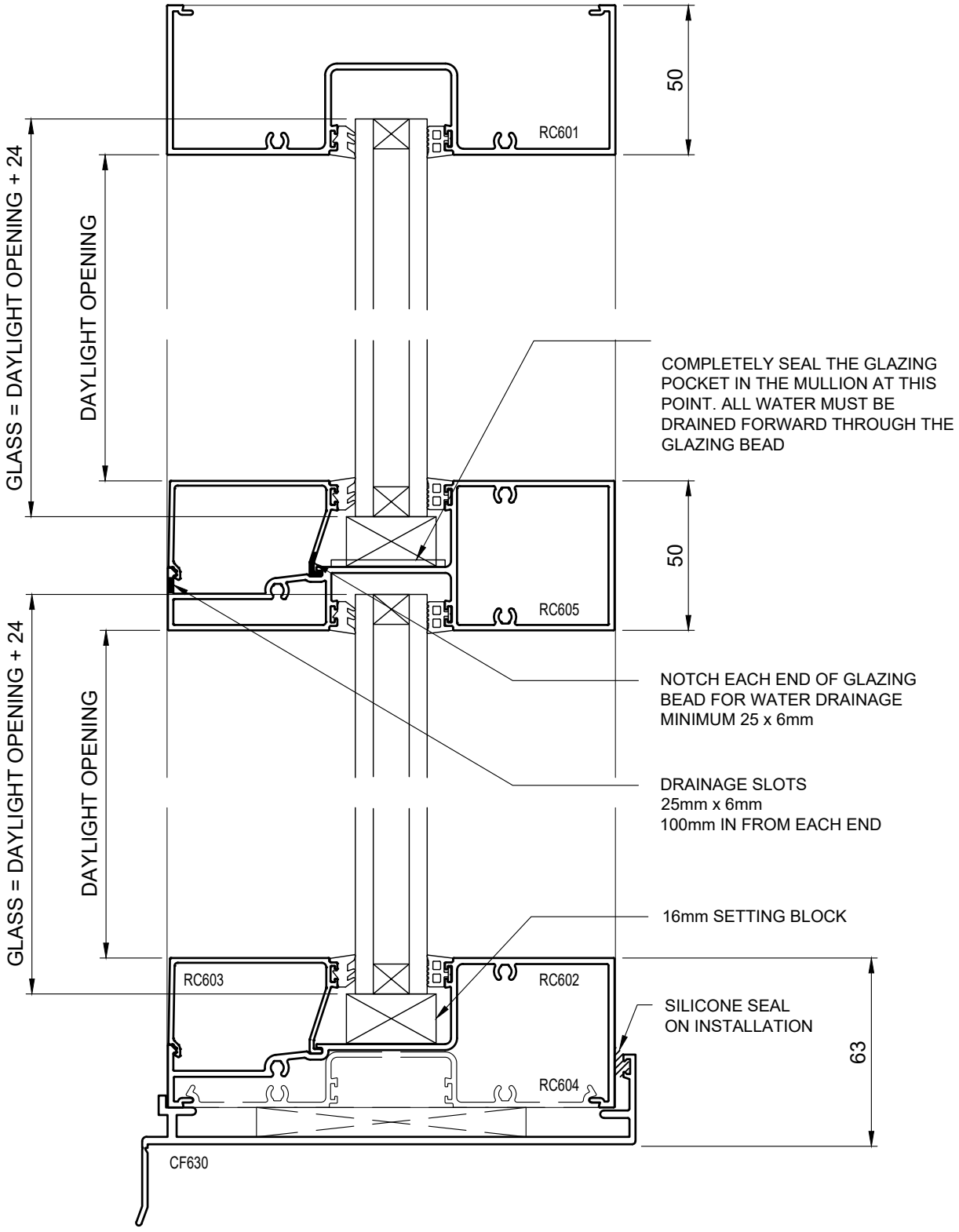
150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

CONFIGURATIONS



150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

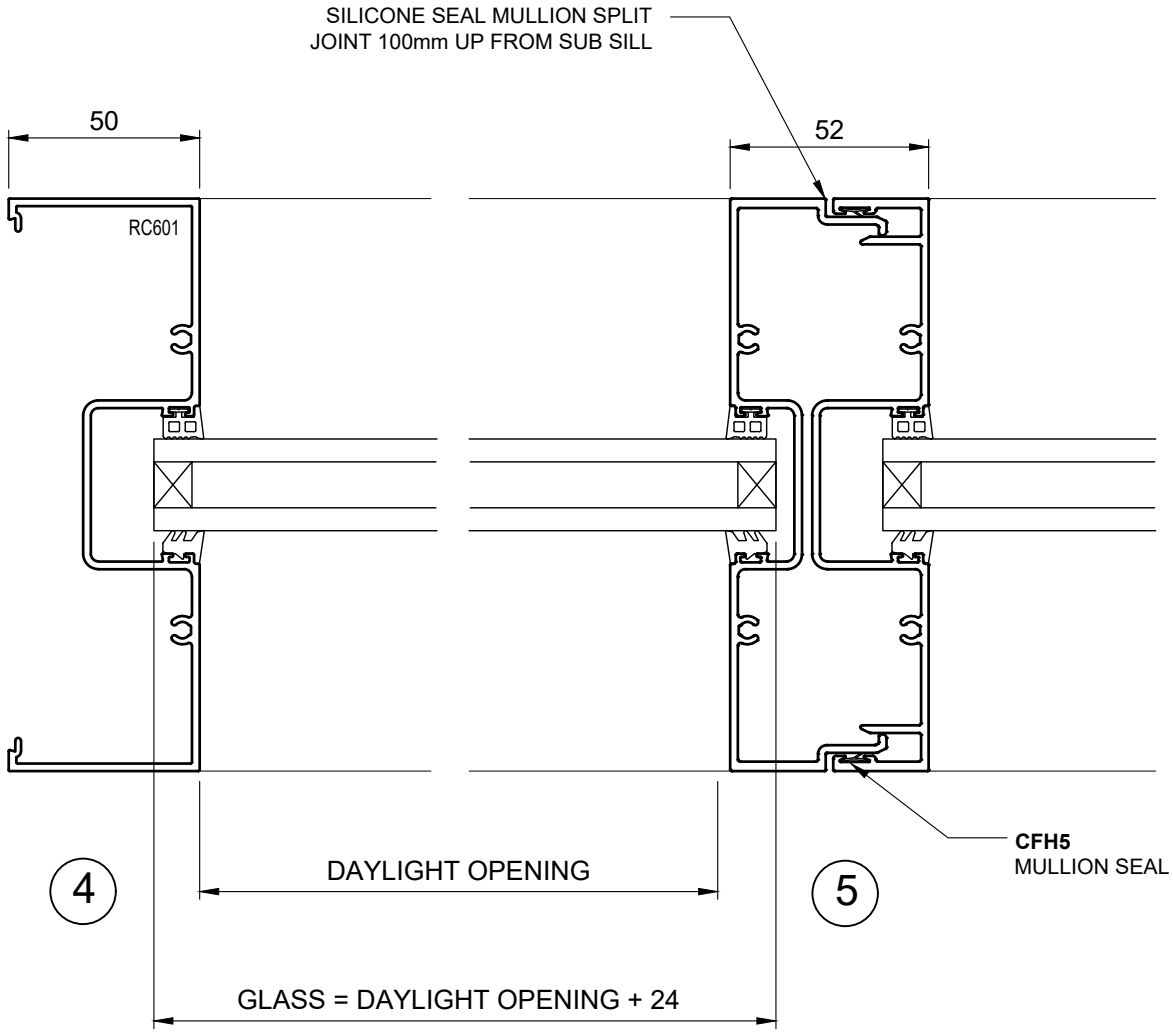
HEAD / SILL / TRANSOM



NOTE:

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

150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED
JAMB / MULLION



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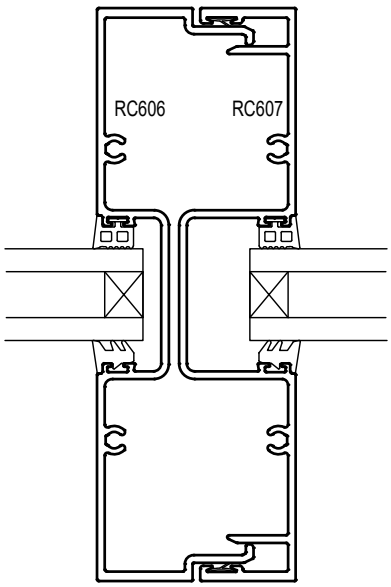
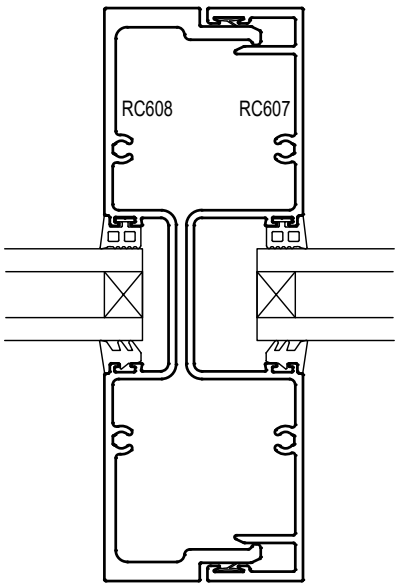
150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

MULLION OPTIONS

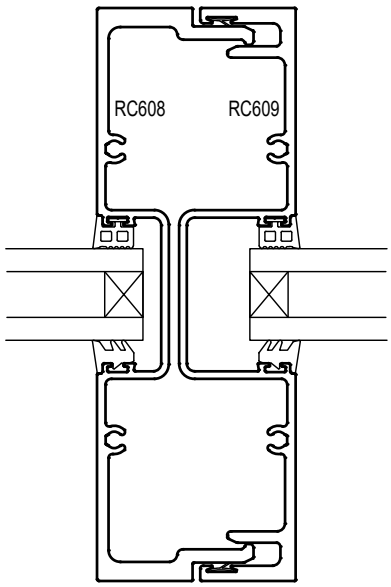
STD SPLIT MULLION



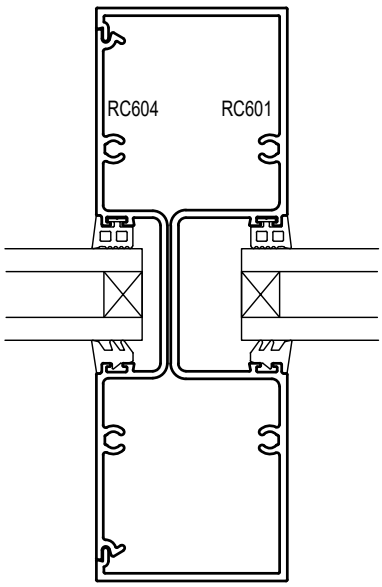
MED SPLIT MULLION



HD SPLIT MULLION



COUPLED MULLION



NOTE:

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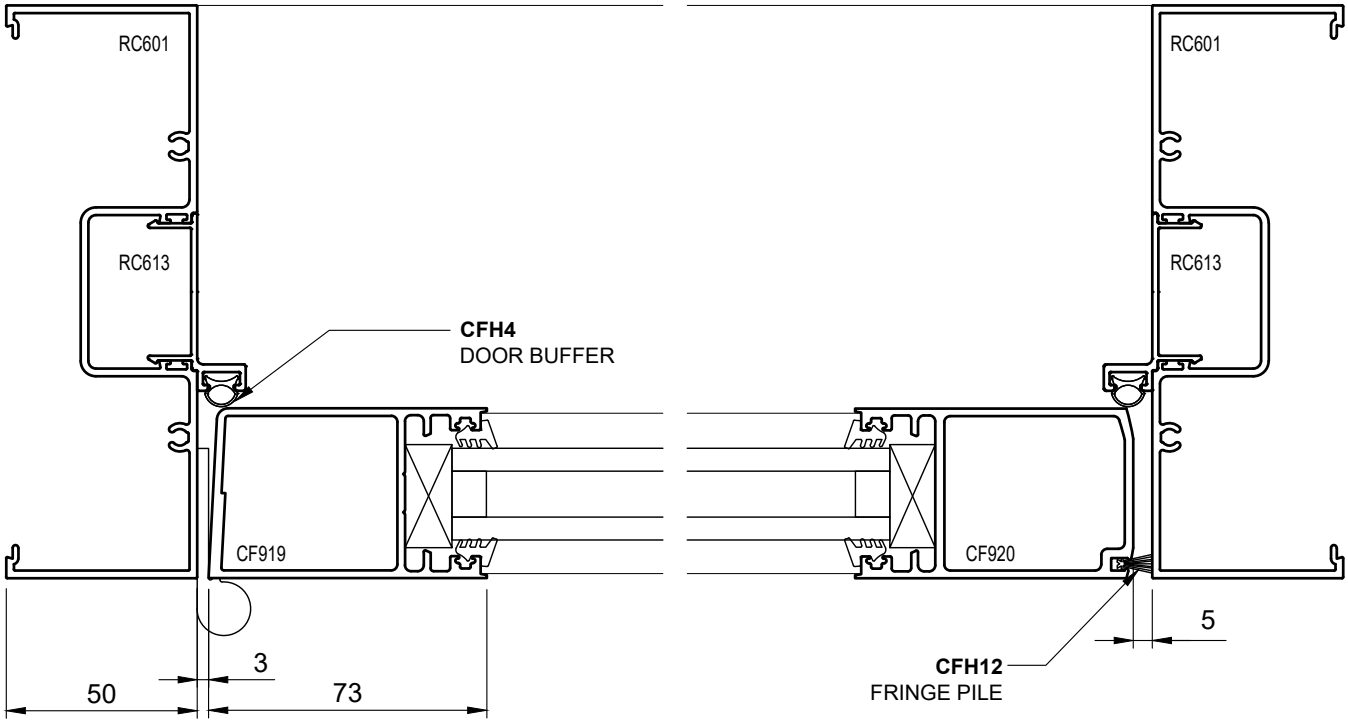
150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

HORIZONTAL DETAIL - 45mm HINGED DOOR - OPEN OUT



NOTE:
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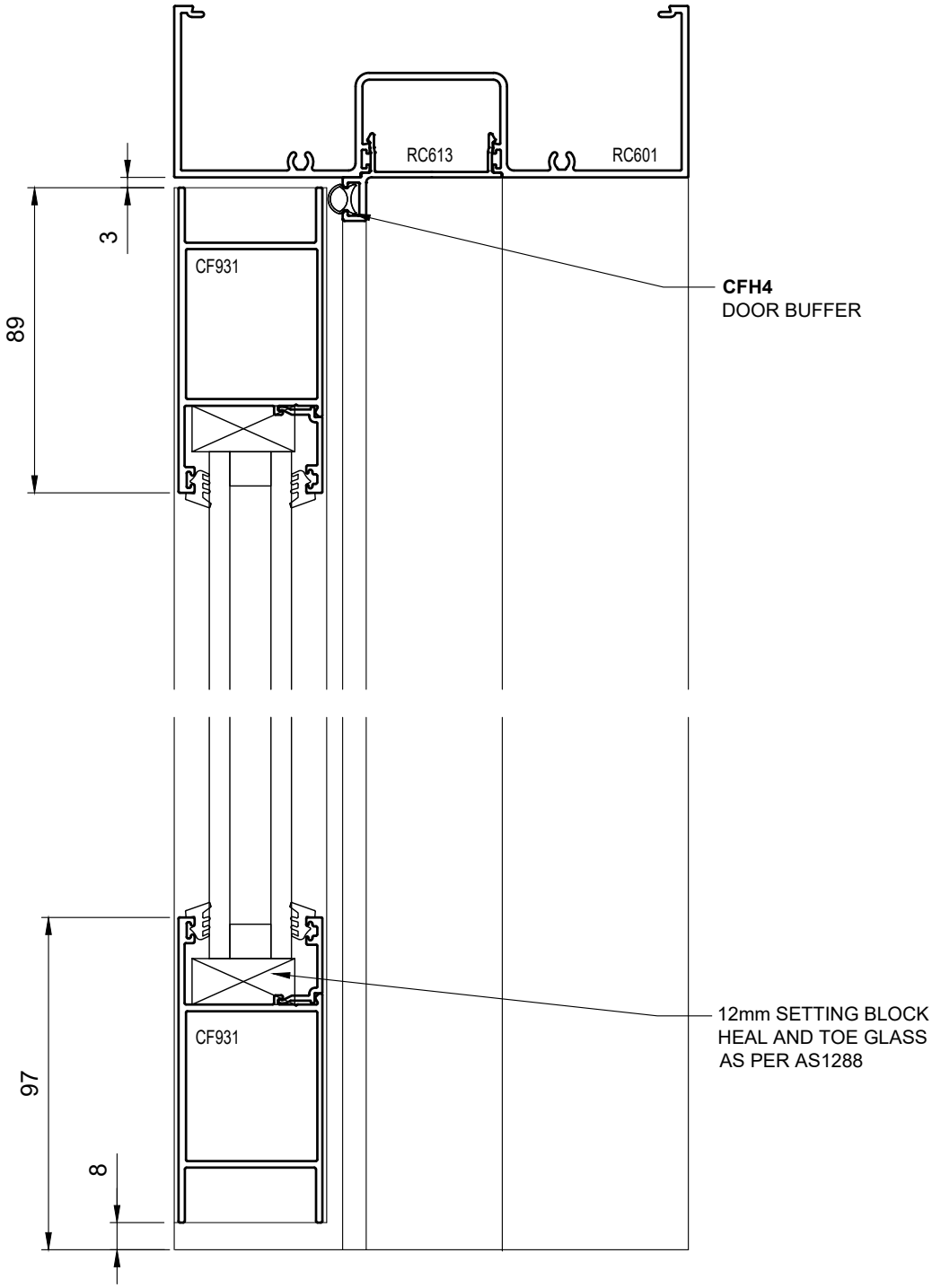
150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

VERTICAL DETAIL - 45mm HINGED DOOR - OPEN OUT



NOTE:

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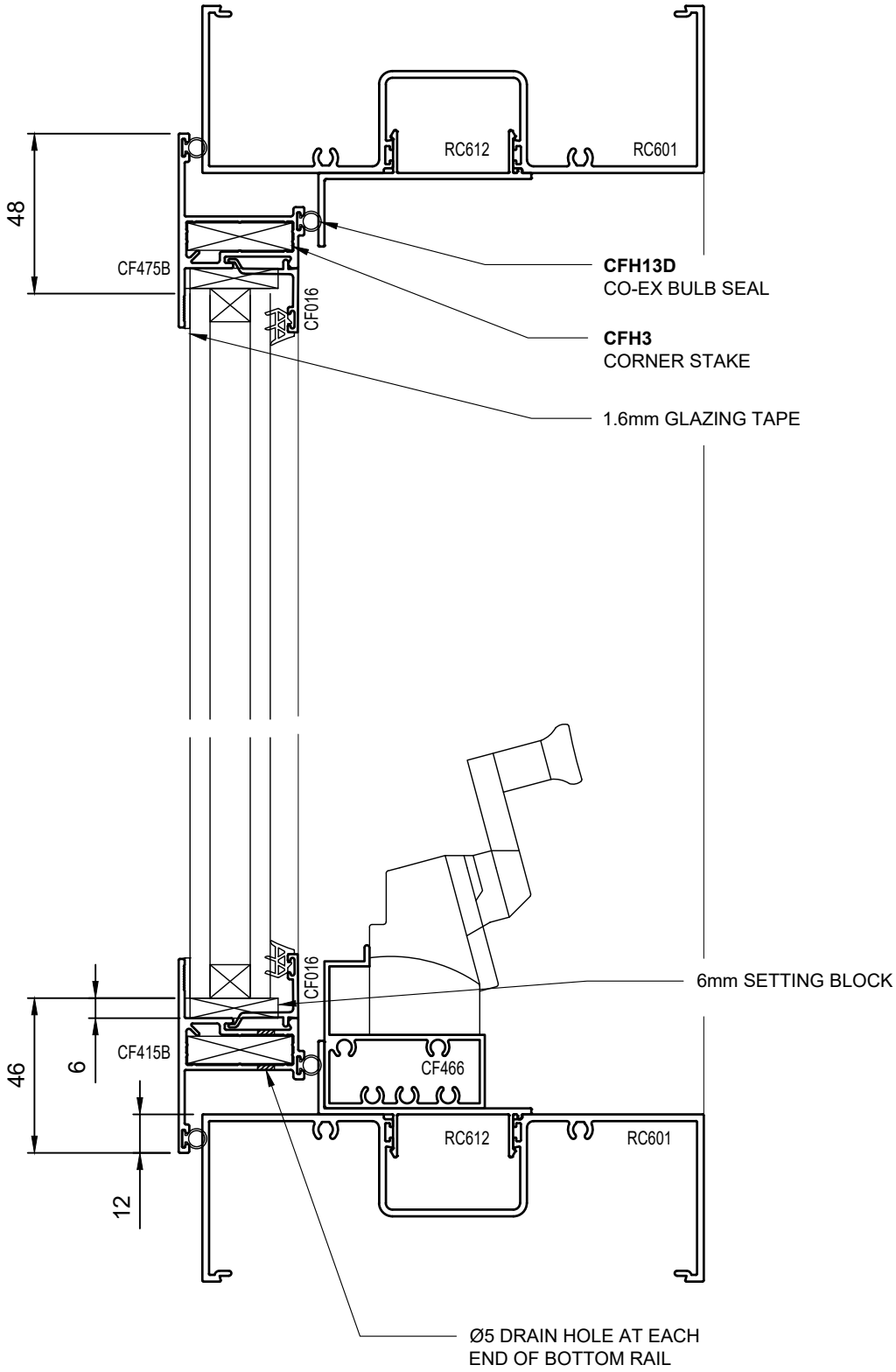
150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

VERTICAL DETAIL - 35mm AWNING



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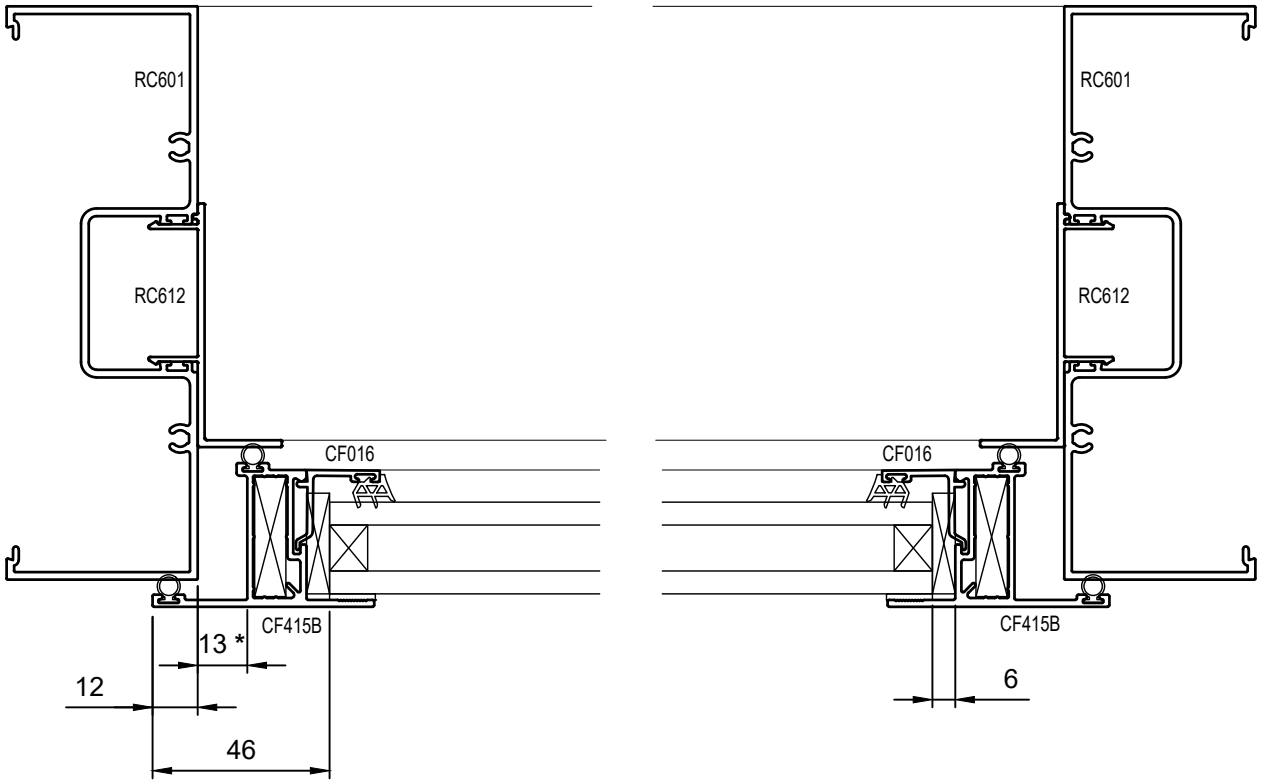
150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

HORIZONTAL DETAIL - 35mm AWNING



NOTE:

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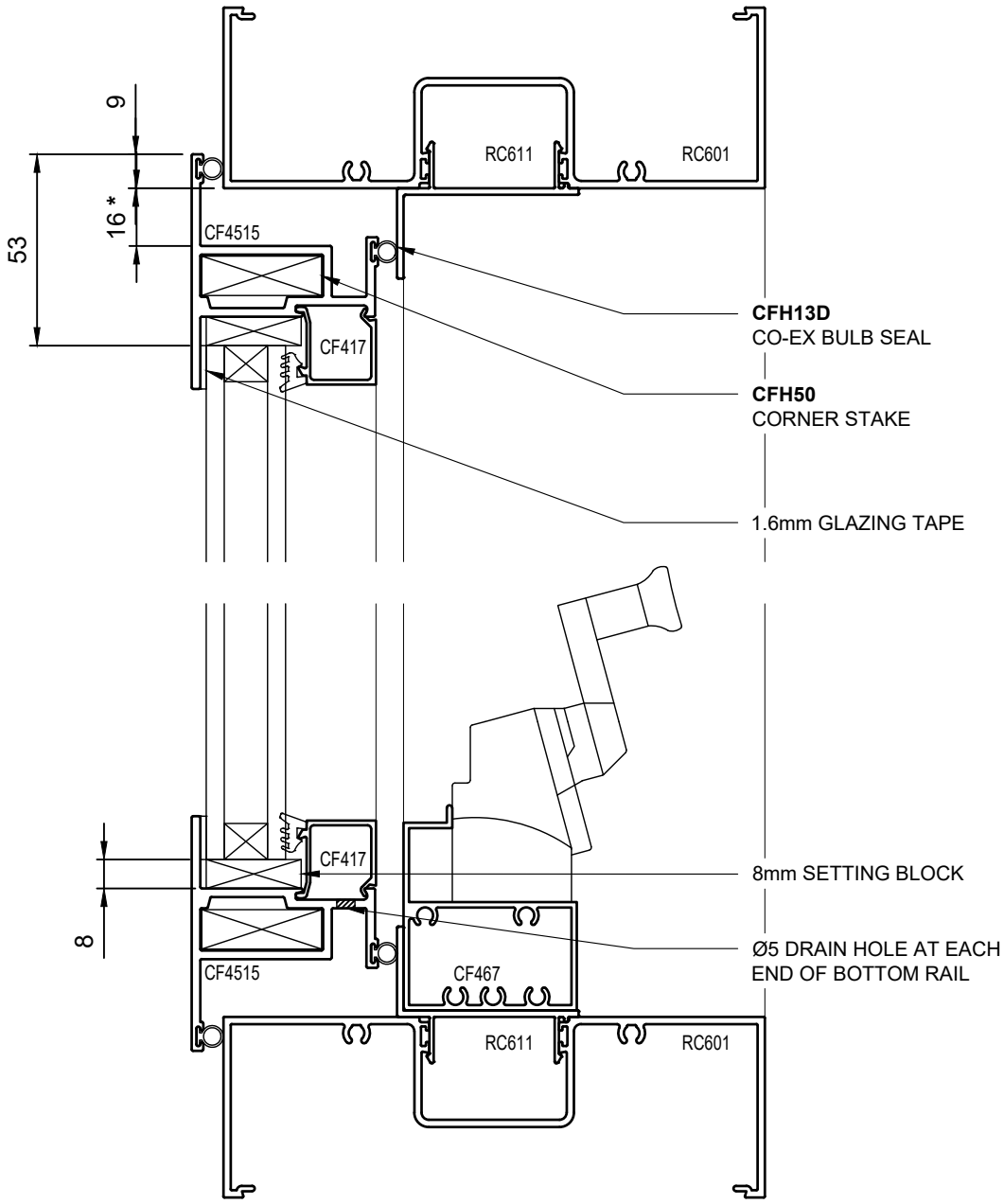
150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

VERTICAL DETAIL - 50mm AWNING



NOTE:

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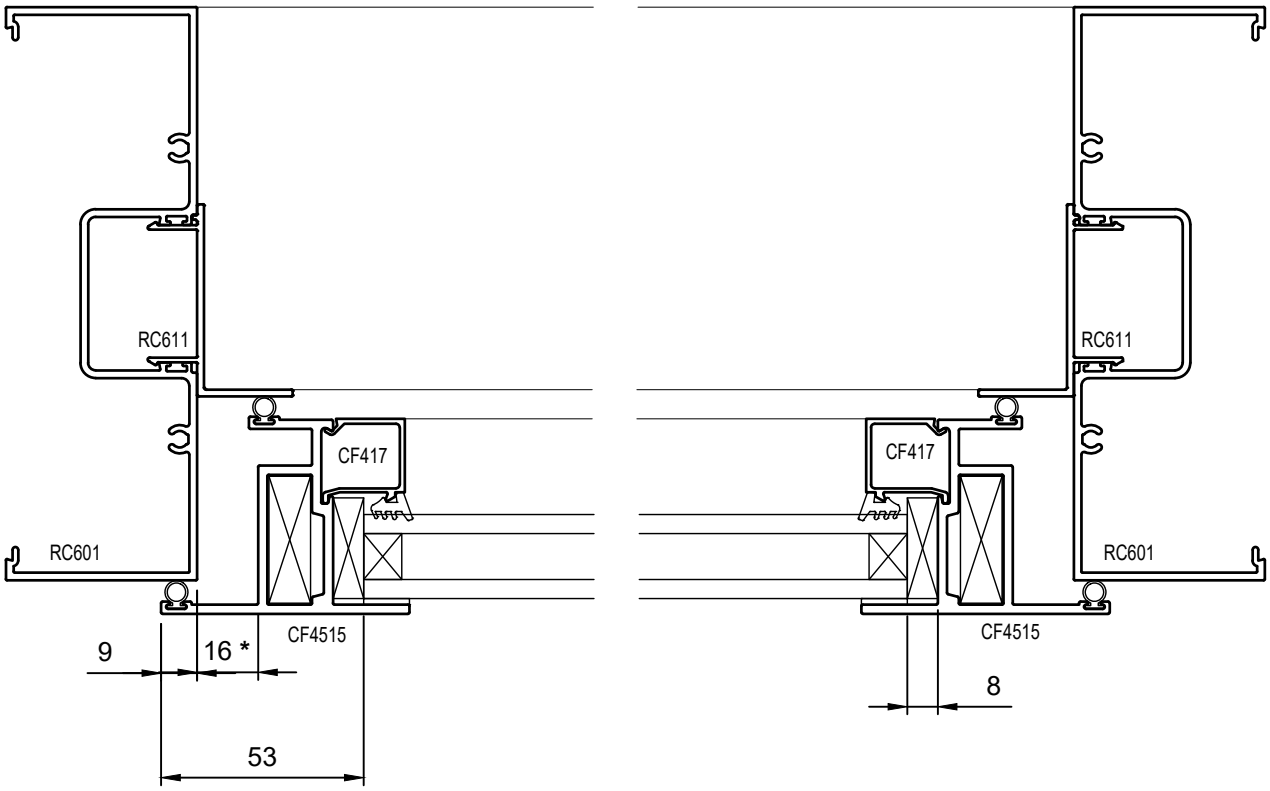
150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

HORIZONTAL DETAIL - 50mm AWNING



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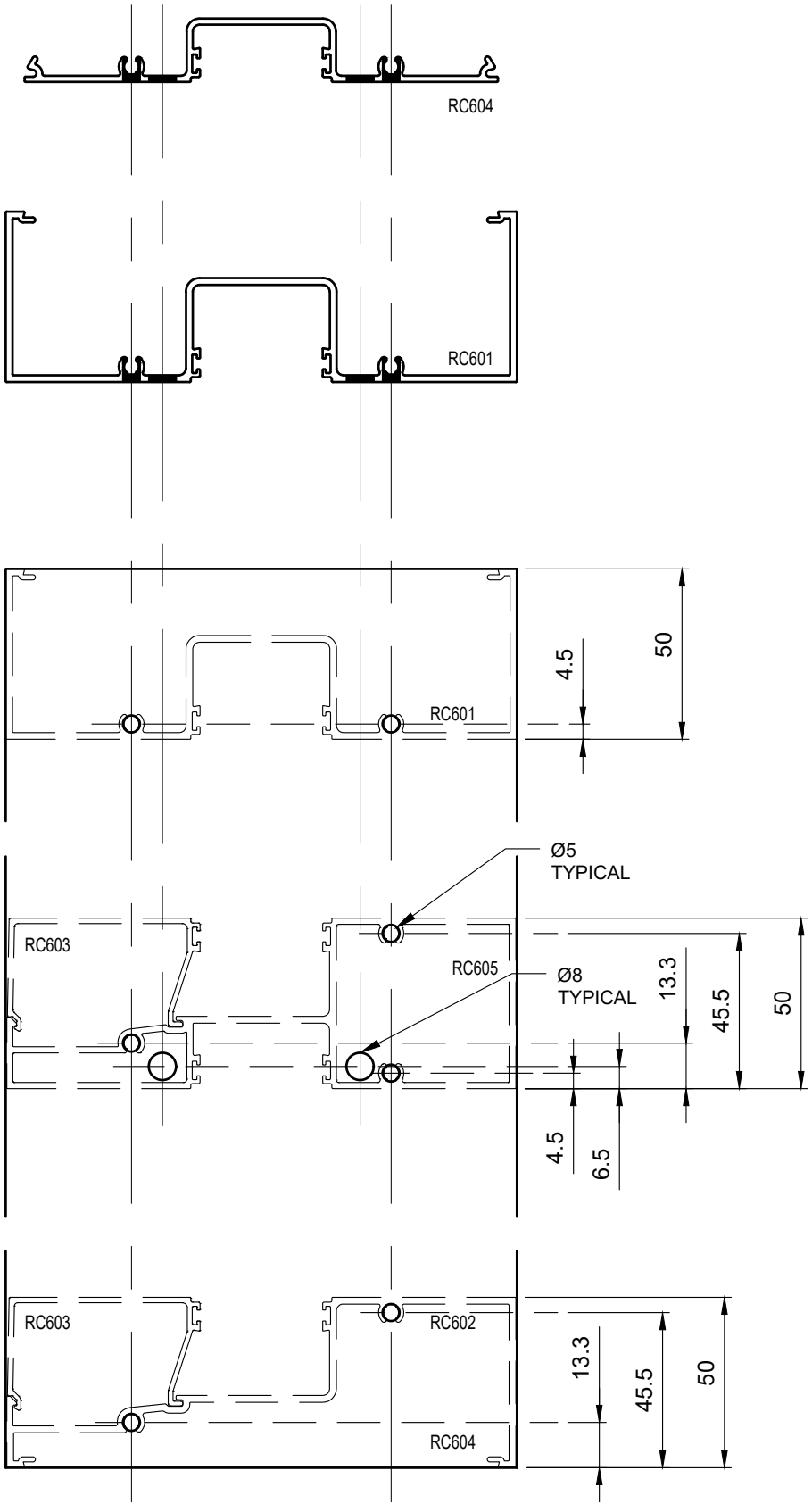
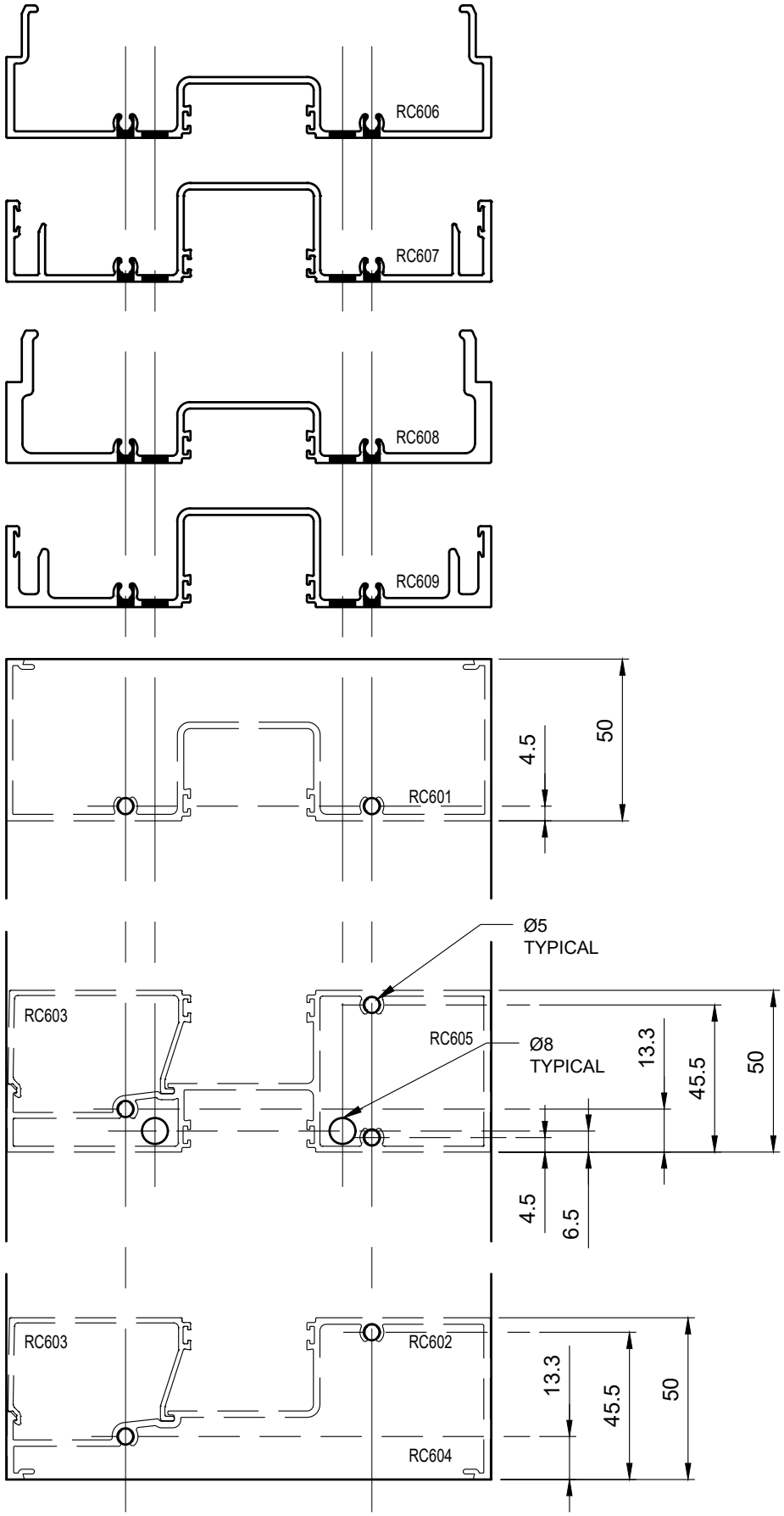
150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

MACHINING - JAMB ASSEMBLY HOLES



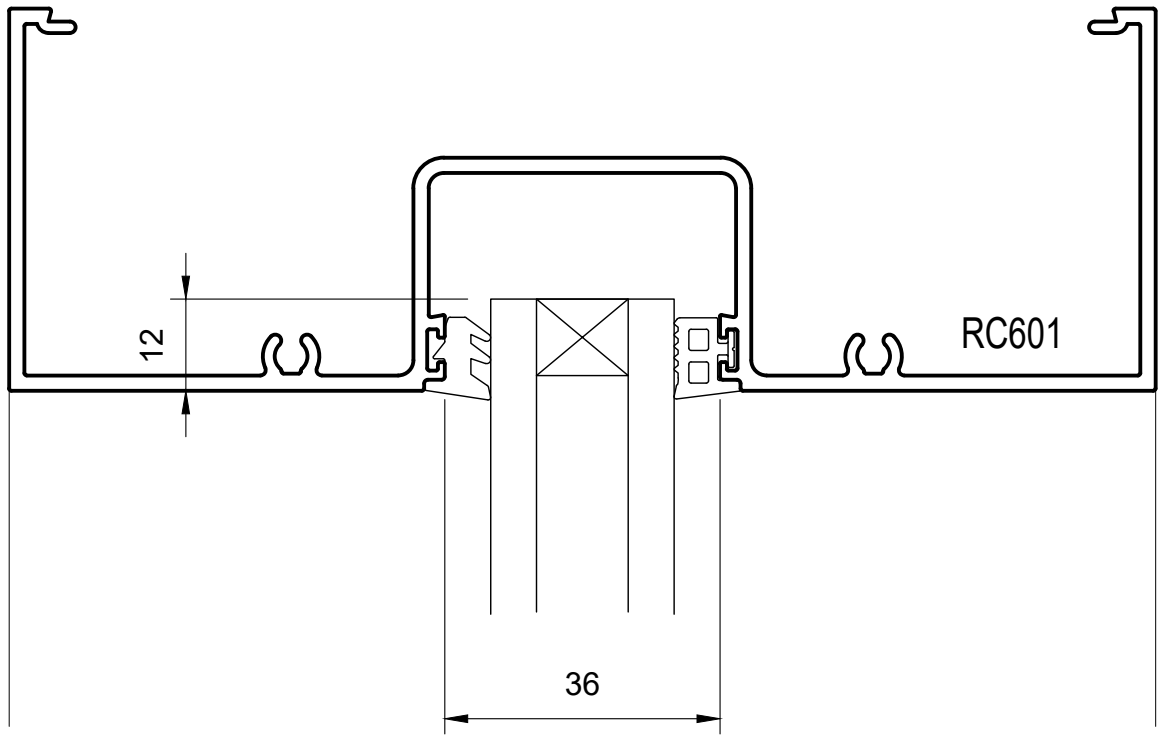
150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

MACHINING - JAMB ASSEMBLY HOLES



150mm COMMERCIAL FRAME
CENTRE GLAZED - DOUBLE GLAZED

GLAZING DETAILS - CAPTIVE

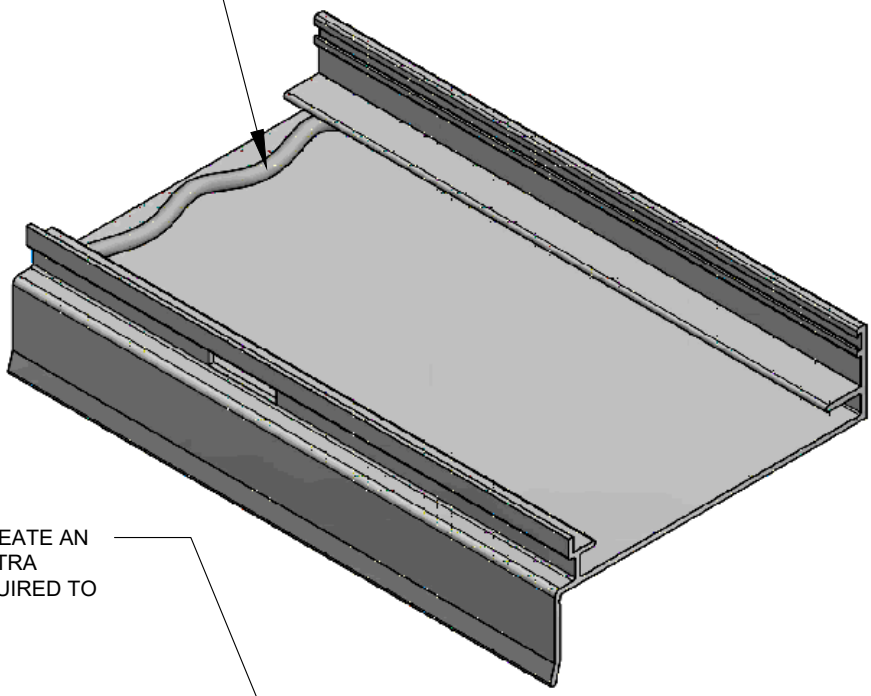


SINGLE GLAZE - CAPTIVE		
GLASS THICKNESS	**WEDGE**	**CAPTIVE**
22mm	CFH208 - 8mm	CFH260 - 6mm
24mm	CFH206 - 6mm	CFH260 - 6mm
25mm	CFH205 - 5mm	CFH260 - 6mm
26mm	CFH204 - 4mm	CFH260 - 6mm
28mm	CFH206 - 6mm	CFH220 - 2mm
30mm	CFH204 - 4mm	CFH220 - 2mm

150mm COMMERCIAL FRAME
CENTRE 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