

# **TECHNICAL MANUAL**

## **150mm COMMERCIAL FRAME CENTRE GLAZED - SINGLE GLAZED**

# 150mm COMMERCIAL FRAME CENTRE GLAZED - SINGLE GLAZED

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# 150mm COMMERCIAL FRAME CENTRE GLAZED - SINGLE GLAZED



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# 150mm COMMERCIAL FRAME CENTRE GLAZED - SINGLE GLAZED

## SPECIFICATION

### FRAME DIMENSIONS

- 150mm x 44.4mm

### MAX PERFORMANCE

- Water Penetration: 600Pa Water

### MAXIMUM SIZES

- Max mullion height: 3750
- Max mullion centres: 2000

Refer wind load charts for sizing and max pressures.

### GLAZING

- Single Glazed: 4mm - 10mm

# 150mm COMMERCIAL FRAME CENTRE GLAZED - SINGLE GLAZED

## LOAD TABLE - BW611 \ BW613 COUPLED MULLION

### SECTION PROPERTIES

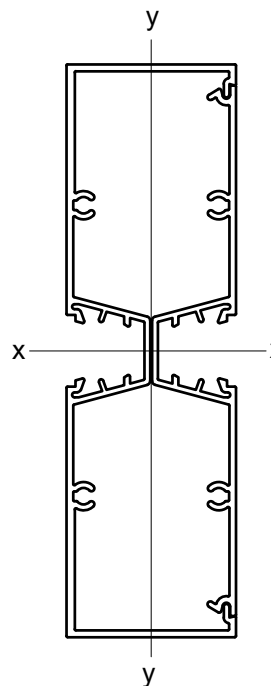
$I_{xx}: 2169 \times 10^3 \text{ mm}^4$

Alloy: 6060 T5

Max Stress 110 Mpa

S = Serviceability limit state l/250

U = Ultimate limit state



| Mullion Height | Maximum Design Pressure (Pa) |      |      |      |      |      |      |      |
|----------------|------------------------------|------|------|------|------|------|------|------|
| 4800           | S                            |      |      |      |      |      |      |      |
|                | U                            |      |      |      |      |      |      |      |
| 4500           | S                            | 640  |      |      |      |      |      |      |
|                | U                            | 1580 |      |      |      |      |      |      |
| 4200           | S                            | 790  | 630  |      |      |      |      |      |
|                | U                            | 1820 | 1470 |      |      |      |      |      |
| 3900           | S                            | 990  | 800  | 670  | 580  |      |      |      |
|                | U                            | 2120 | 1710 | 1430 | 1240 |      |      |      |
| 3600           | S                            | 1260 | 1020 | 860  | 750  | 670  |      |      |
|                | U                            | 2490 | 2010 | 1690 | 1470 | 1310 |      |      |
| 3300           | S                            | 1640 | 1330 | 1130 | 990  | 880  | 800  | 750  |
|                | U                            | 2970 | 2410 | 2030 | 1770 | 1580 | 1440 | 1330 |
| 3000           | S                            | 2200 | 1790 | 1520 | 1330 | 1200 | 1100 | 1030 |
|                | U                            | 3620 | 2930 | 2480 | 2170 | 1950 | 1780 | 1650 |
| 2700           | S                            | 3000 | 2480 | 2120 | 1870 | 1700 | 1570 | 1480 |
|                | U                            | 4490 | 3650 | 3110 | 2730 | 2470 | 2270 | 2130 |
| 2400           | S                            | 3000 | 3000 | 3000 | 2750 | 2520 | 2360 | 2250 |
|                | U                            | 5730 | 4680 | 4010 | 3550 | 3240 | 3020 | 2870 |
| 2100           | S                            | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|                | U                            | 6000 | 6000 | 5390 | 4830 | 4470 | 4240 | 4130 |
| Mullion Ctrs   |                              | 800  | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |

This table is based on theoretical section properties

# 150mm COMMERCIAL FRAME CENTRE GLAZED - SINGLE GLAZED

## LOAD TABLE - BW627 STD SPLIT MULLION

### SECTION PROPERTIES

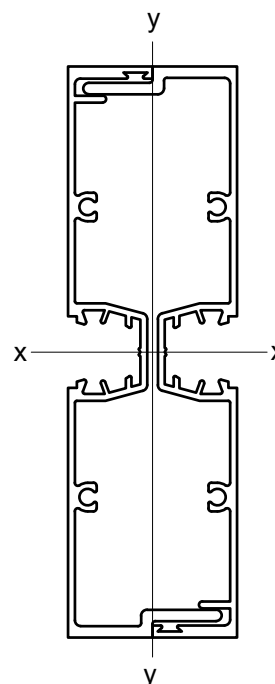
$I_{xx}: 3230 \times 10^3 \text{ mm}^4$

Alloy: 6060 T5

Max Stress 110 Mpa

S = Serviceability limit state I/250

U = Ultimate limit state



| Mullion Height | Maximum Design Pressure (Pa) |      |      |      |      |      |      |      |
|----------------|------------------------------|------|------|------|------|------|------|------|
| 4800           | S                            | 780  | 630  |      |      |      |      |      |
|                | U                            | 2070 | 1660 |      |      |      |      |      |
| 4500           | S                            | 950  | 770  | 640  |      |      |      |      |
|                | U                            | 2360 | 1900 | 1590 |      |      |      |      |
| 4200           | S                            | 1180 | 950  | 800  | 690  | 610  |      |      |
|                | U                            | 2710 | 2180 | 1840 | 1590 | 1410 |      |      |
| 3900           | S                            | 1470 | 1190 | 1000 | 870  | 770  | 700  | 640  |
|                | U                            | 3150 | 2540 | 2140 | 1850 | 1640 | 1490 | 1360 |
| 3600           | S                            | 1880 | 1520 | 1280 | 1120 | 1000 | 900  | 830  |
|                | U                            | 3710 | 3000 | 2530 | 2190 | 1950 | 1770 | 1620 |
| 3300           | S                            | 2450 | 1990 | 1680 | 1470 | 1320 | 1200 | 1110 |
|                | U                            | 4430 | 3590 | 3030 | 2640 | 2360 | 2140 | 1980 |
| 3000           | S                            | 3000 | 2670 | 2270 | 1990 | 1790 | 1640 | 1530 |
|                | U                            | 5390 | 4370 | 3700 | 3240 | 2900 | 2650 | 2470 |
| 2700           | S                            | 3000 | 3000 | 3000 | 2790 | 2530 | 2340 | 2210 |
|                | U                            | 6000 | 5440 | 4630 | 4070 | 3670 | 3390 | 3180 |
| 2400           | S                            | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|                | U                            | 6000 | 6000 | 5980 | 5300 | 4820 | 4490 | 4280 |
| 2100           | S                            | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|                | U                            | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| Mullion Ctrs   |                              | 800  | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |

This table is based on theoretical section properties

# 150mm COMMERCIAL FRAME CENTRE GLAZED - SINGLE GLAZED

## LOAD TABLE - BW612 / BW613 TRANSOM

### SECTION PROPERTIES

$I_{xx}: 1891 \times 10^3 \text{ mm}^4$

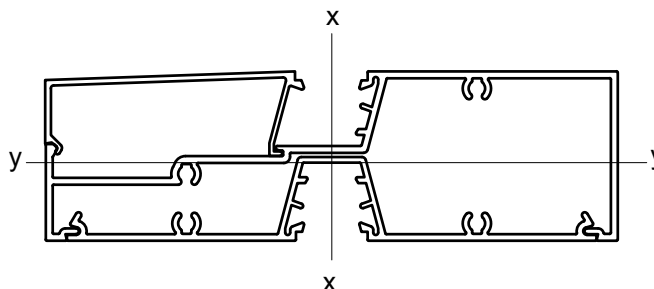
$I_{yy}: 100 \times 10^3 \text{ mm}^4$

Alloy: 6060 T5

Max Stress 110 Mpa

S = Serviceability limit state l/250

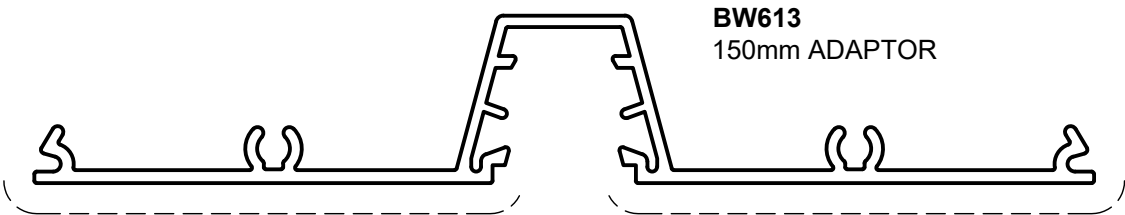
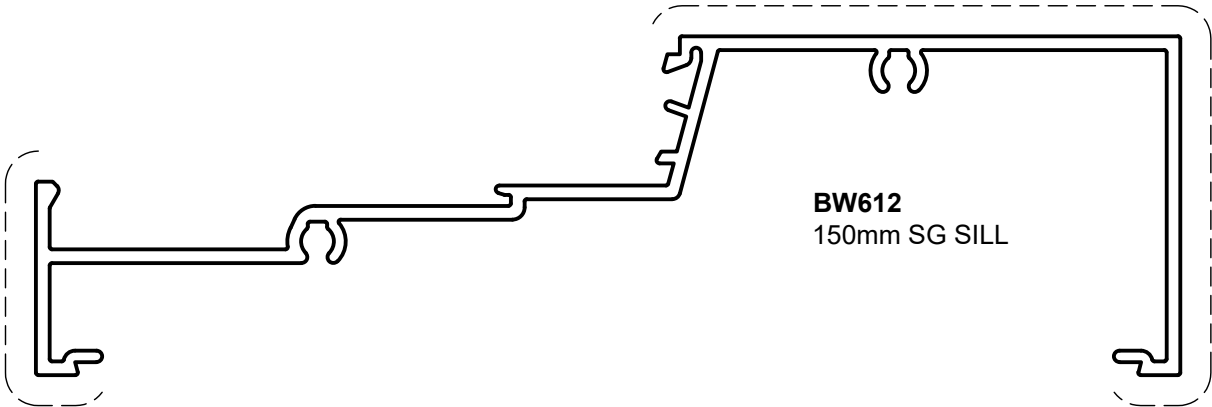
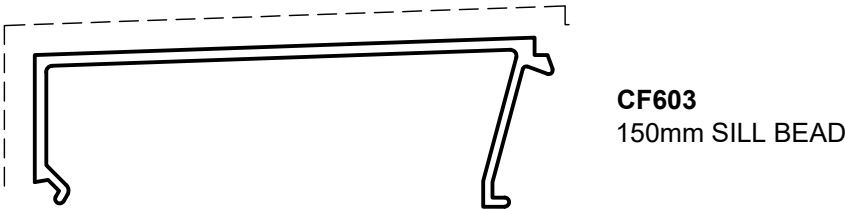
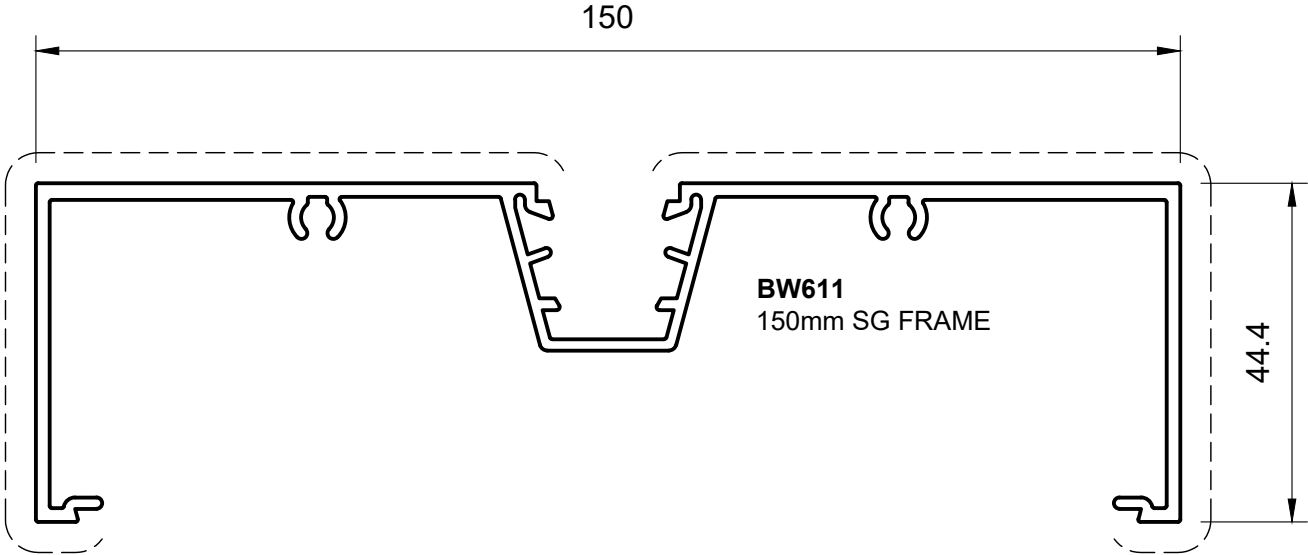
U = Ultimate limit state



| Transom Ctrs   | Maximum Design Pressure (Pa) |      |      |      |      |      |      |      |
|----------------|------------------------------|------|------|------|------|------|------|------|
| 1700           | S                            | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|                | U                            | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 5370 |
| 1600           | S                            | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|                | U                            | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 5440 |
| 1500           | S                            | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|                | U                            | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 5560 |
| 1400           | S                            | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|                | U                            | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 5740 |
| 1300           | S                            | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|                | U                            | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 5970 |
| 1200           | S                            | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|                | U                            | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| 1100           | S                            | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|                | U                            | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| 1000           | S                            | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|                | U                            | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| 900            | S                            | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|                | U                            | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| 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 |

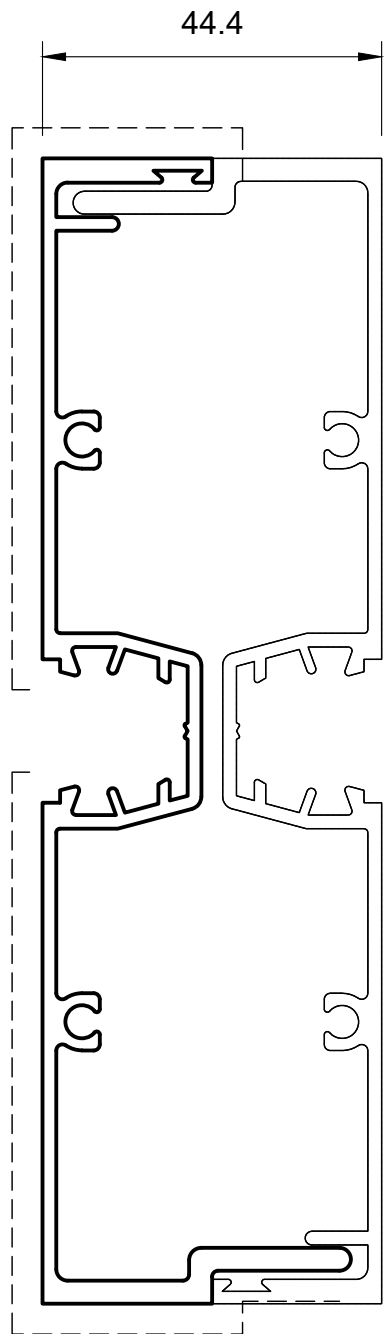
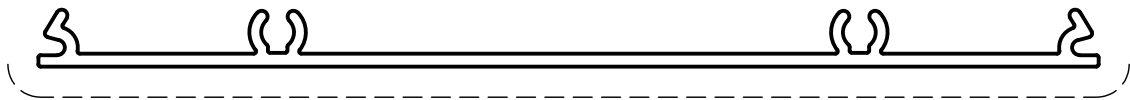
This table is based on theoretical section properties

150mm COMMERCIAL FRAME  
CENTRE GLAZED - SINGLE GLAZED  
EXTRUSION PROFILES



150mm COMMERCIAL FRAME  
CENTRE GLAZED - SINGLE GLAZED  
EXTRUSION PROFILES

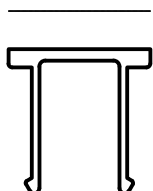
**BW614**  
150mm FLAT FILLER



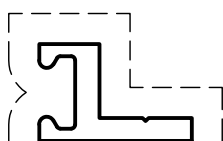
**BW627**  
150mm SELF MATING MULLION

# 150mm COMMERCIAL FRAME CENTRE GLAZED - SINGLE GLAZED

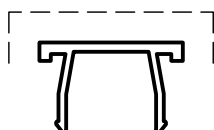
## EXTRUSION PROFILES



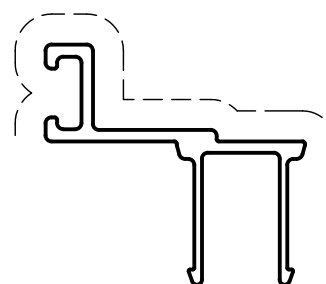
**CF406**  
POCKET FILLER



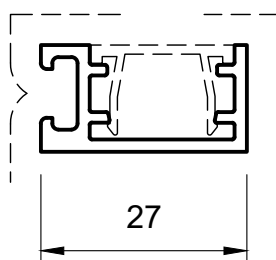
**CF429**  
PLANT ON DOOR STOP



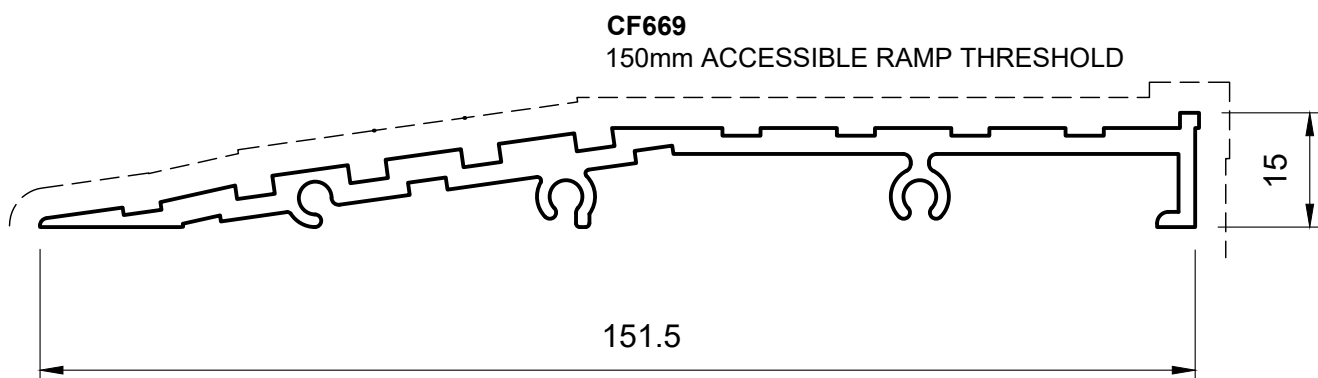
**CF306**  
INFILL



**CF607**  
45mm DOOR STOP  
SG CENTRE GLAZED



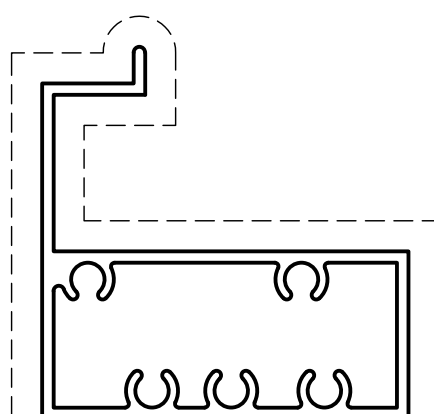
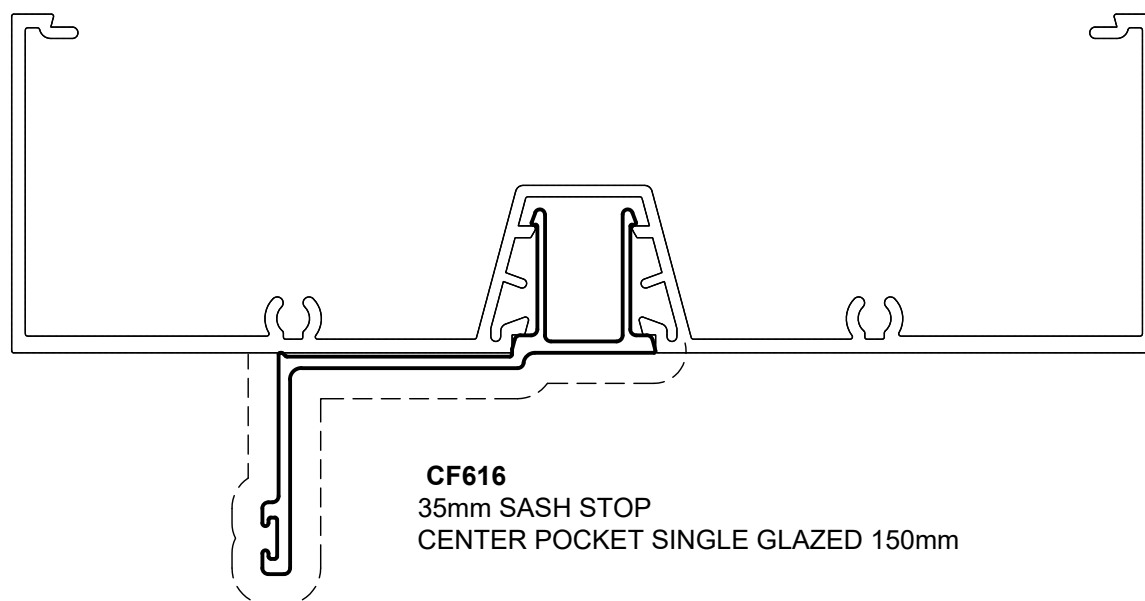
**CF429C**  
PLANT ON DOOR STOP



**CF669**  
150mm ACCESSIBLE RAMP THRESHOLD

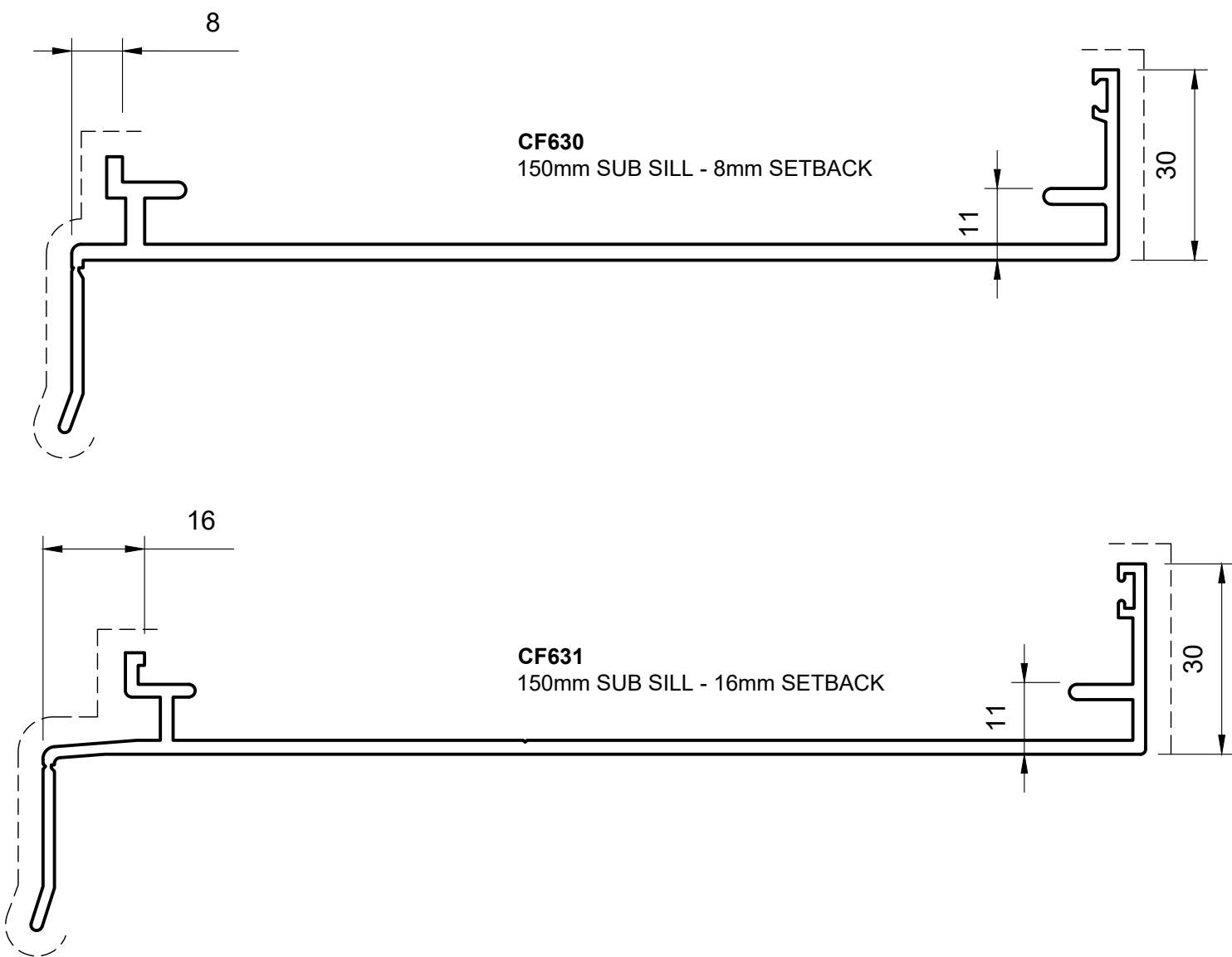
# 150mm COMMERCIAL FRAME CENTRE GLAZED - SINGLE GLAZED

## EXTRUSION PROFILES

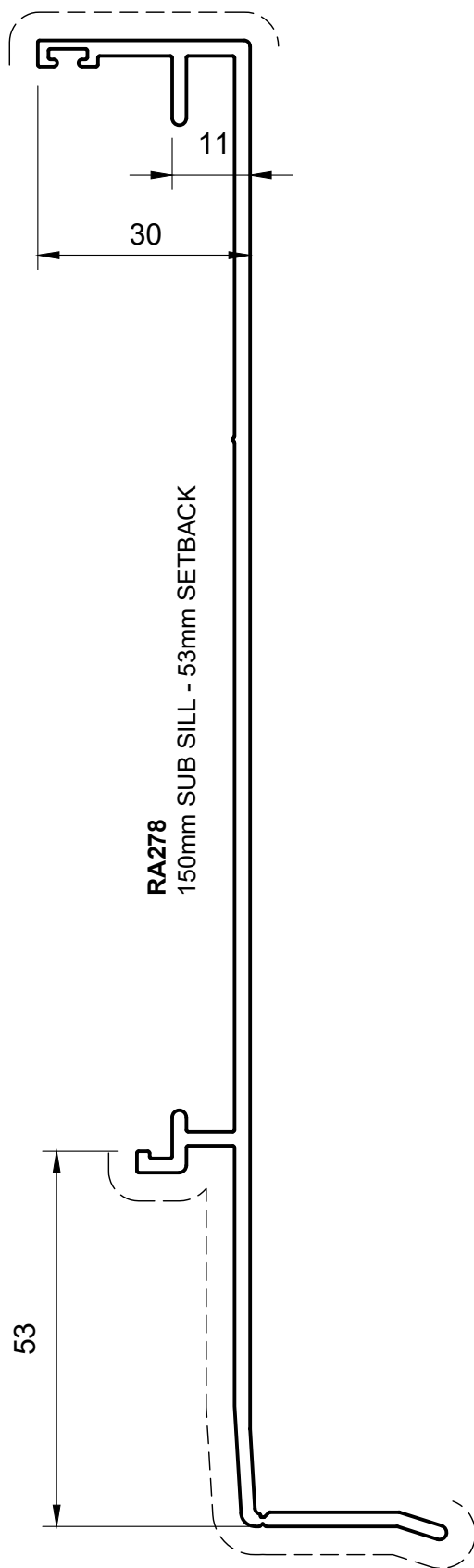
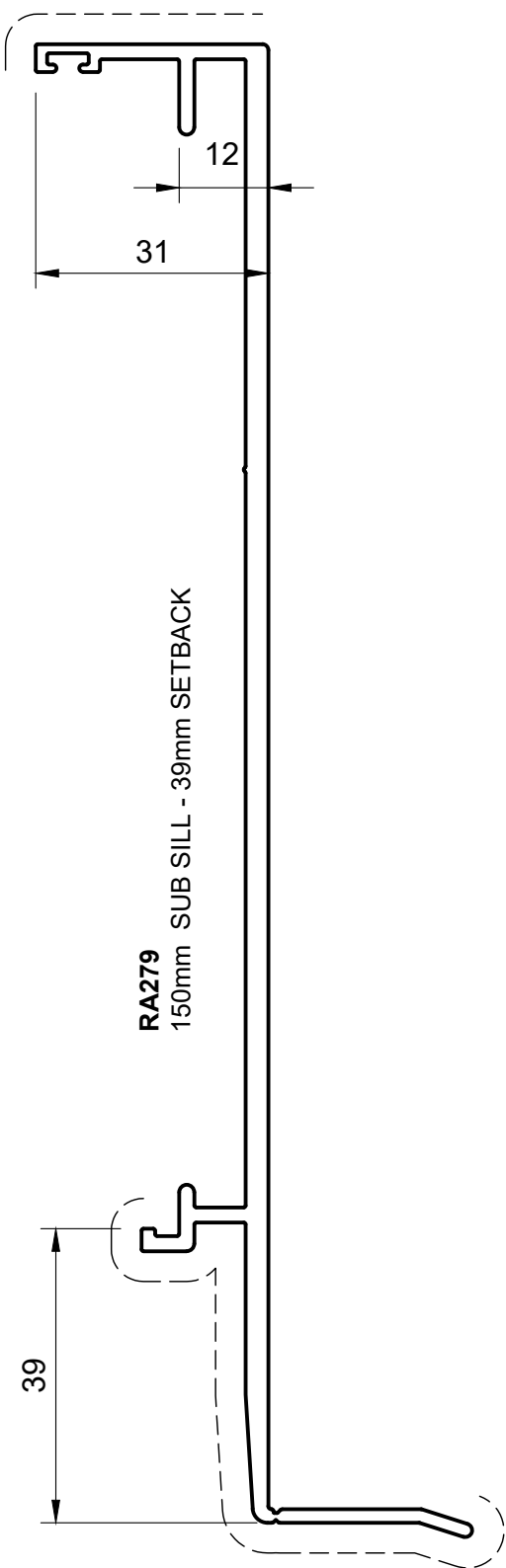


**CF466**  
WINDER SUPPORT - 35mm SASH

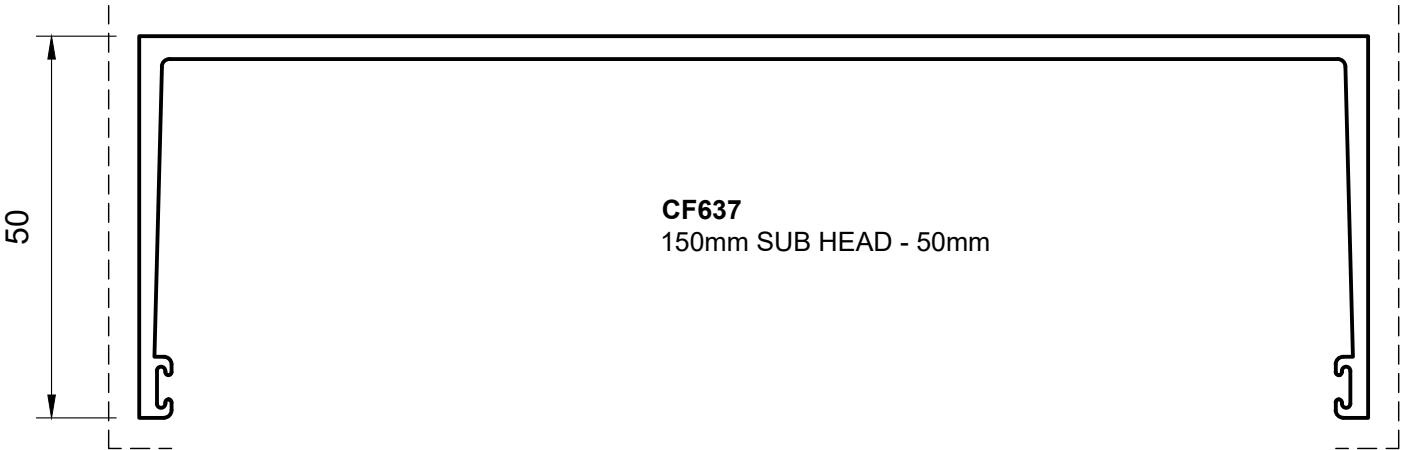
150mm COMMERCIAL FRAME  
CENTRE GLAZED - SINGLE GLAZED  
EXTRUSION PROFILES



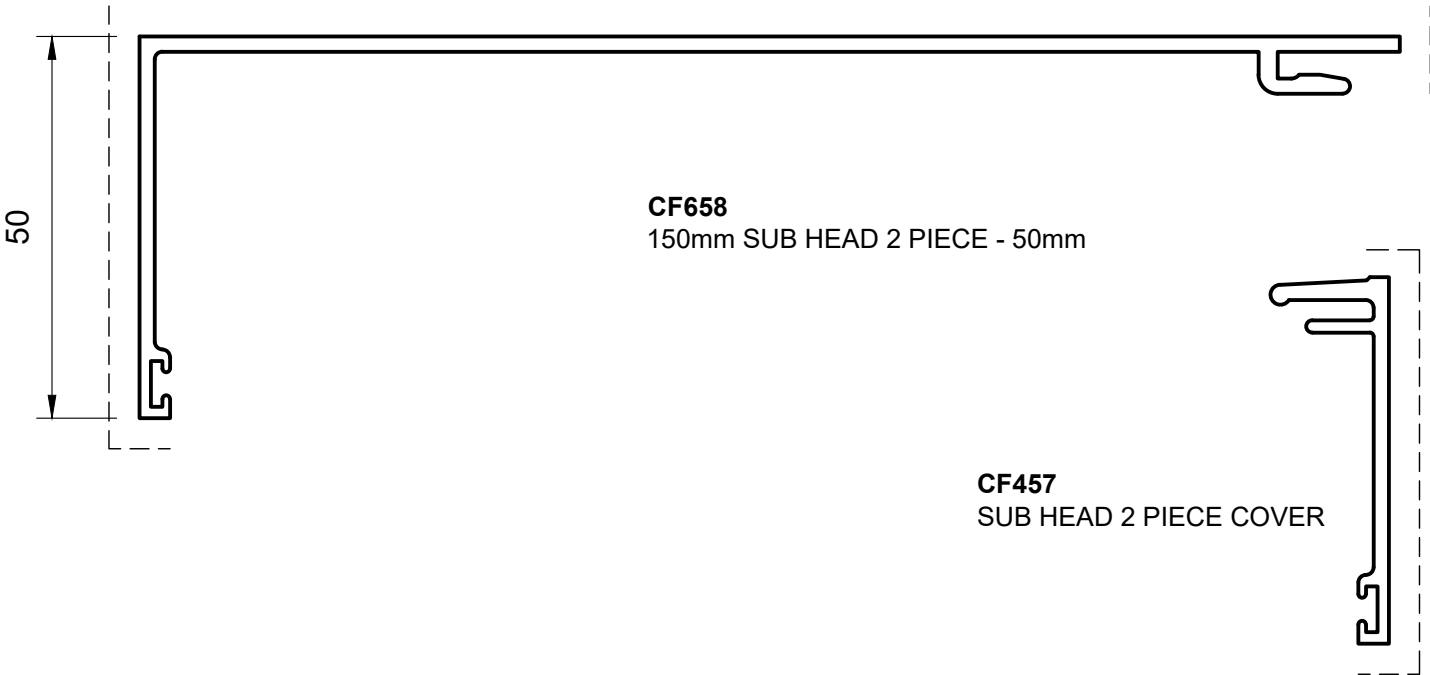
150mm COMMERCIAL FRAME  
CENTRE GLAZED - SINGLE GLAZED  
EXTRUSION PROFILES



150mm COMMERCIAL FRAME  
CENTRE GLAZED - SINGLE GLAZED  
EXTRUSION PROFILES



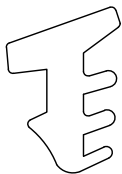
**CF637**  
150mm SUB HEAD - 50mm



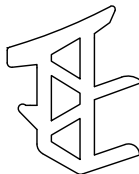
**CF658**  
150mm SUB HEAD 2 PIECE - 50mm

**CF457**  
SUB HEAD 2 PIECE COVER

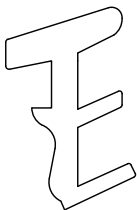
150mm COMMERCIAL FRAME  
CENTRE GLAZED - SINGLE GLAZED  
ACCESSORIES



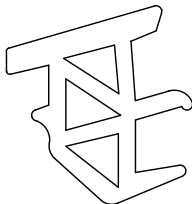
**CFH006**  
GLAZING WEDGE (4mm GAP)  
200m ROLL



**CFH007**  
GLAZING WEDGE (5mm GAP)  
200m ROLL



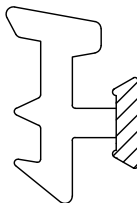
**CFH008**  
GLAZING WEDGE (3mm GAP)  
250m ROLL



**CFH009**  
GLAZING WEDGE (6mm GAP)  
100m ROLL



**CFH010**  
GLAZING WEDGE (2mm GAP)  
500m ROLL

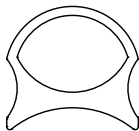


**CFH012**  
CAPTIVE WEDGE (4mm GAP)  
500m ROLL

150mm COMMERCIAL FRAME  
CENTRE GLAZED - SINGLE GLAZED  
ACCESSORIES



**CFH5**  
MULLION SEAL  
200m ROLL

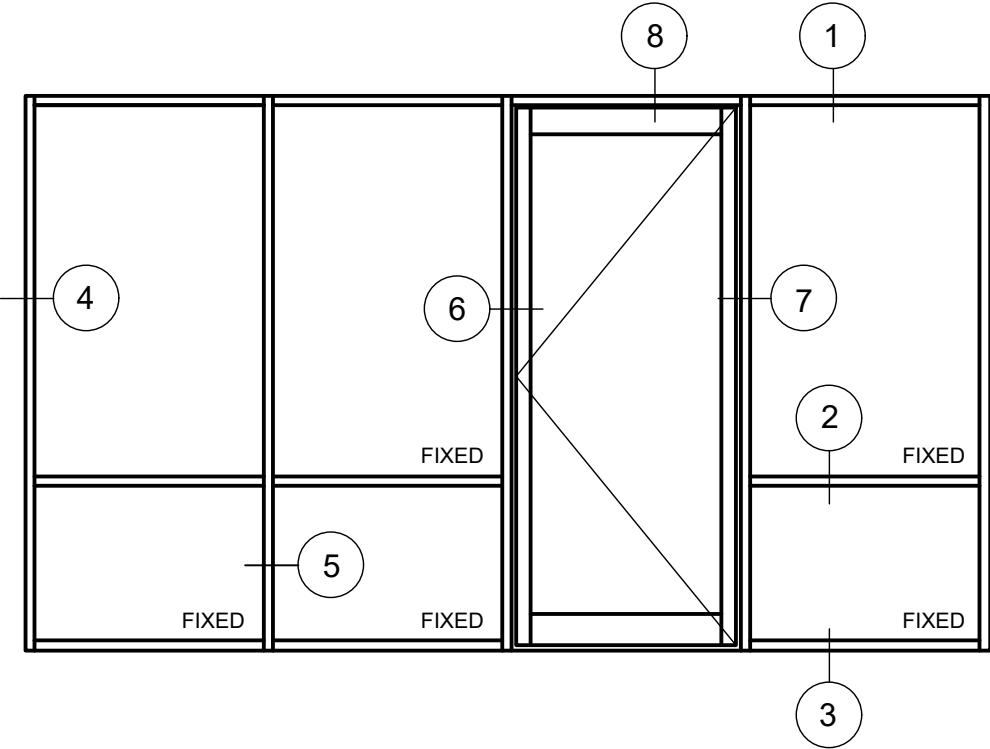


**CFH4**  
DOOR BUFFER  
200m ROLL

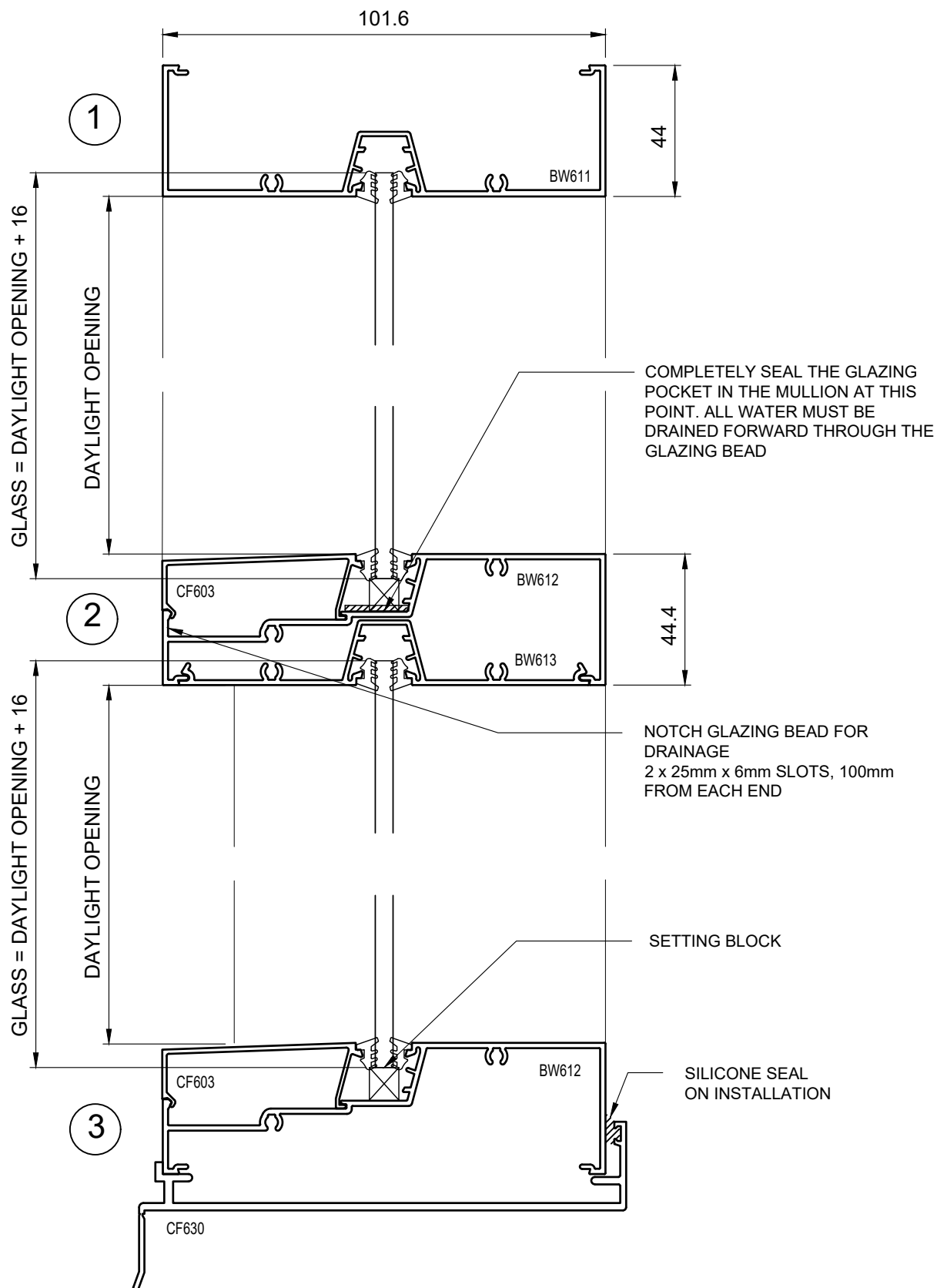


**CFH13**  
SASH SEAL  
200m ROLL

150mm COMMERCIAL FRAME  
CENTRE GLAZED - SINGLE GLAZED  
CONFIGURATIONS



# 150mm COMMERCIAL FRAME CENTRE GLAZED - SINGLE GLAZED VERTICAL DETAIL - STD FRAME



**NOTE:**

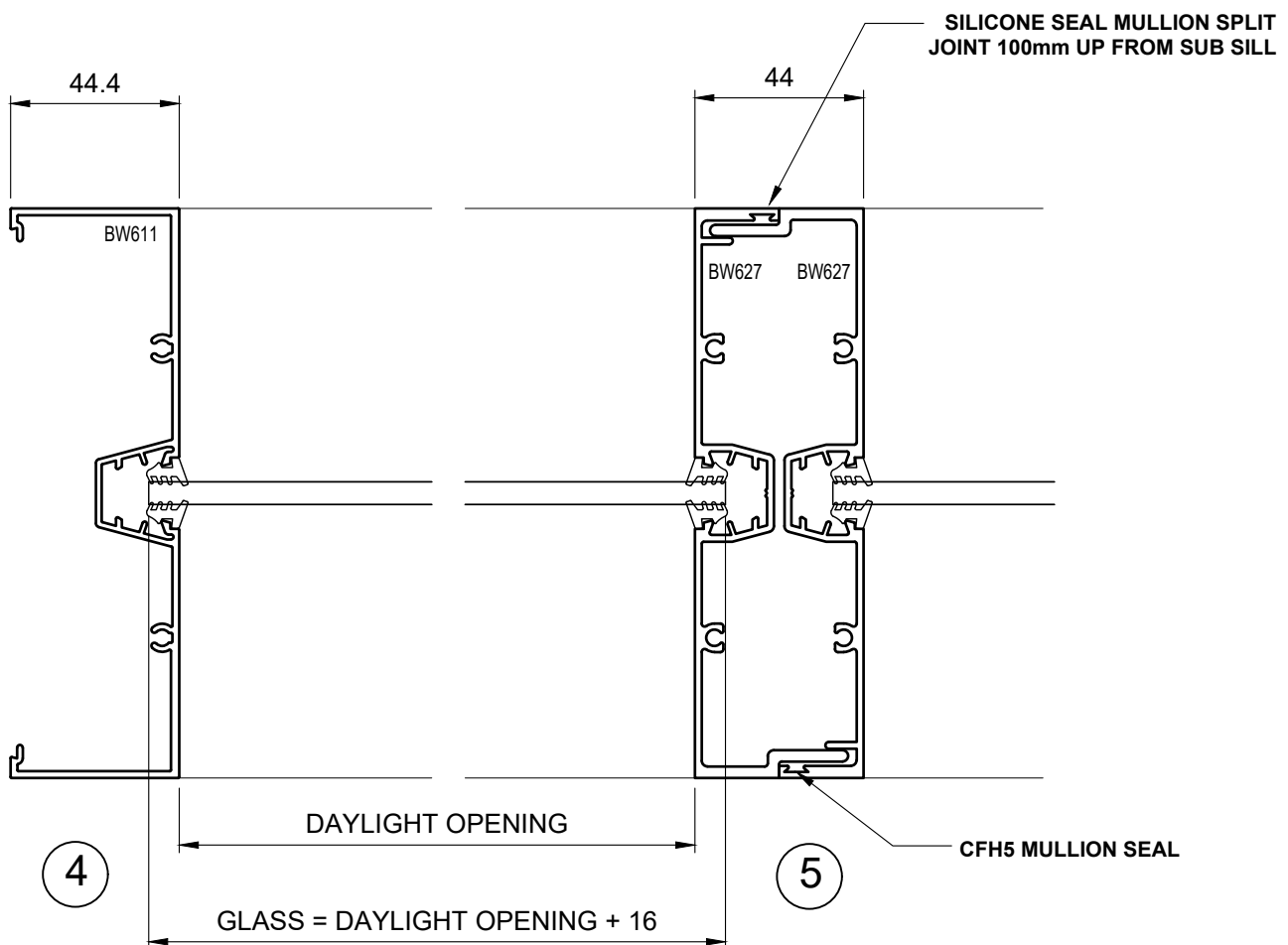
- ALL JOINTS TO BE SEALED USING A SUITABLE SMALL JOINT SEALANT OR CLOSED CELL FRAME GASKET

**rapid**  
ALUMINIUM



### 5.3

# 150mm COMMERCIAL FRAME CENTRE GLAZED - SINGLE GLAZED VERTICAL DETAIL - STD SPLIT MULLION

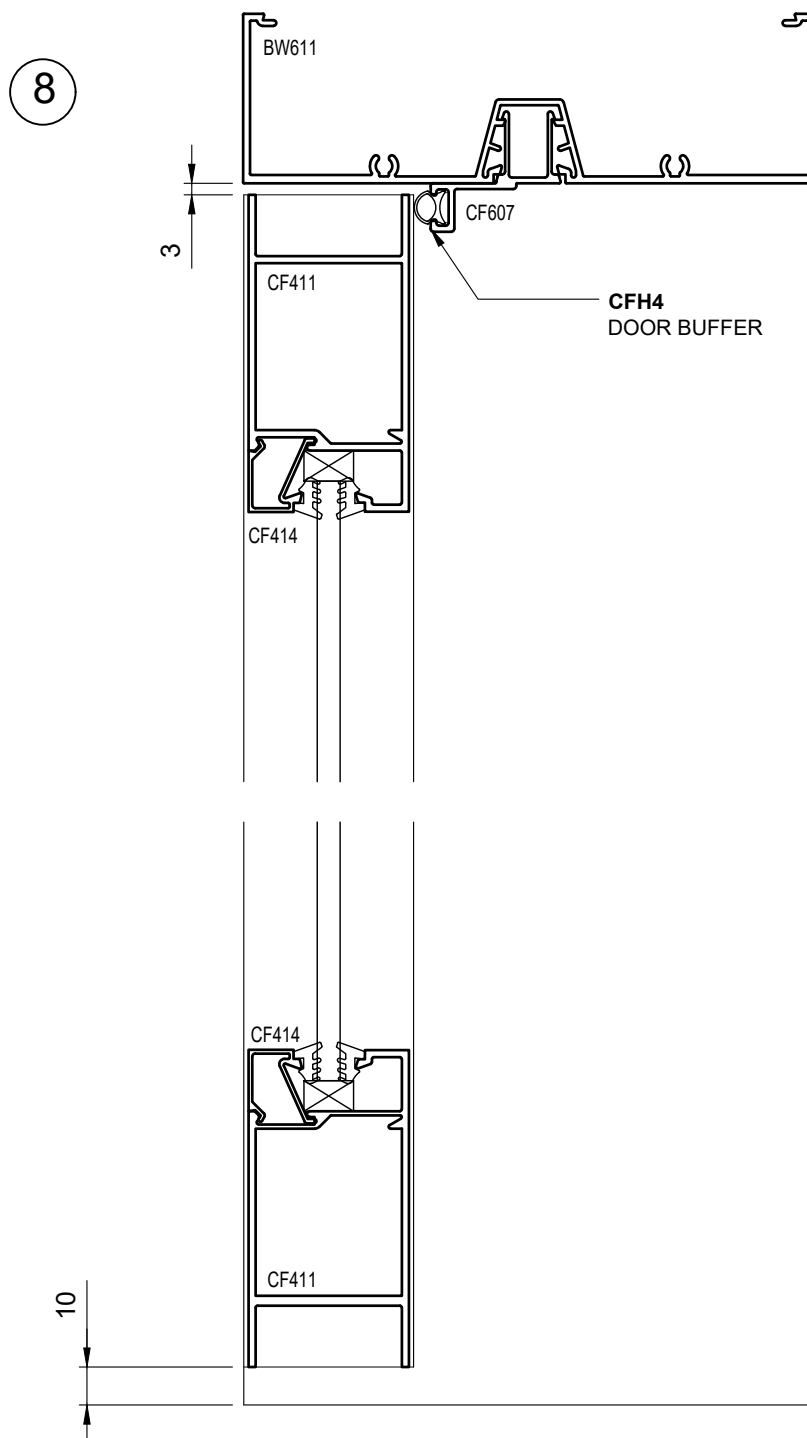


NOTE:

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

# 150mm COMMERCIAL FRAME CENTRE GLAZED - SINGLE GLAZED

## VERTICAL DETAIL - HD SPLIT MULLION

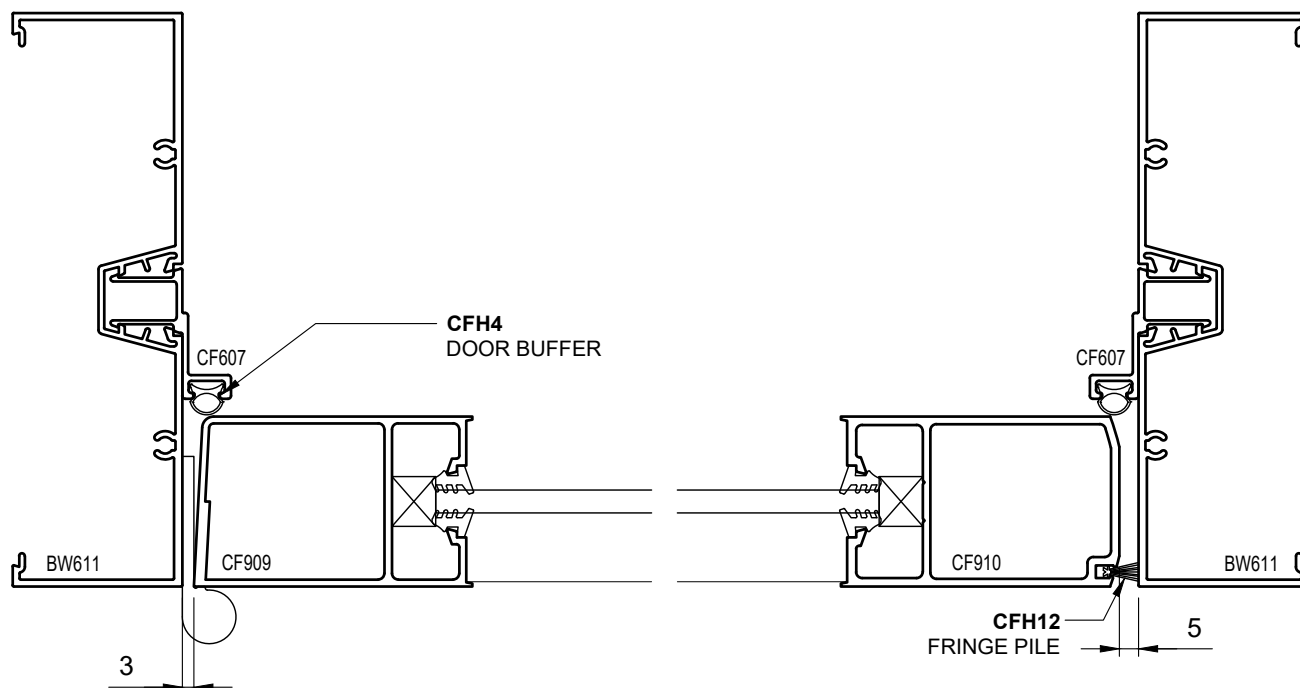


NOTE:

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

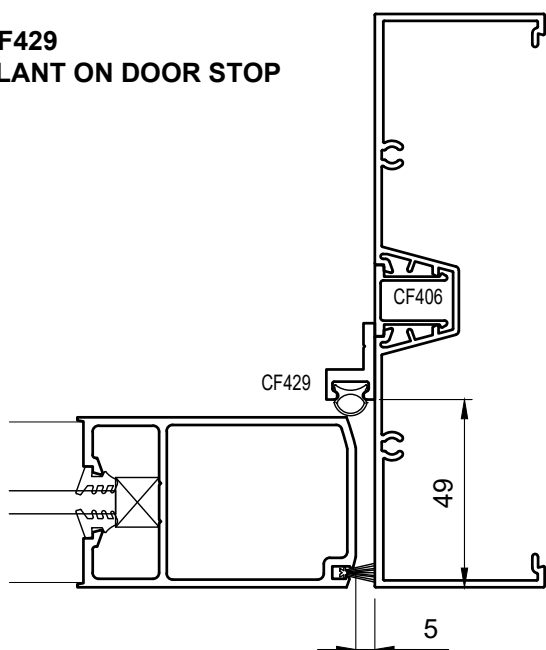
# 150mm COMMERCIAL FRAME CENTRE GLAZED - SINGLE GLAZED

## HORIZONTAL DETAIL - 45mm HINGED DOOR JAMB - OPEN OUT

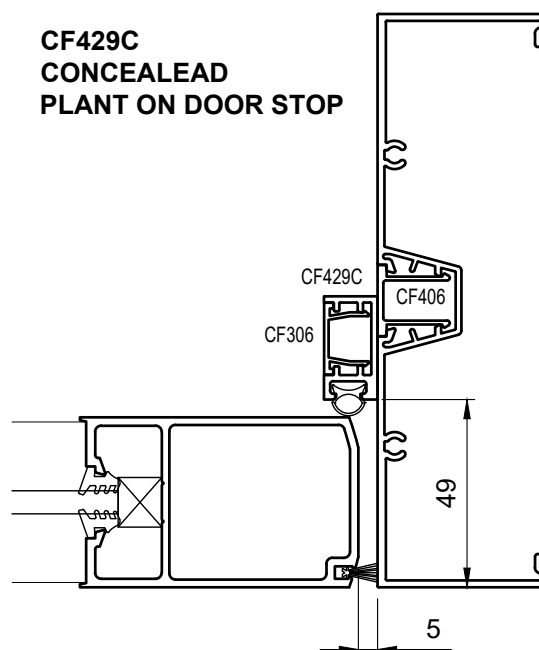


## ALTERNATE DOOR STOP OPTIONS

**CF429  
PLANT ON DOOR STOP**



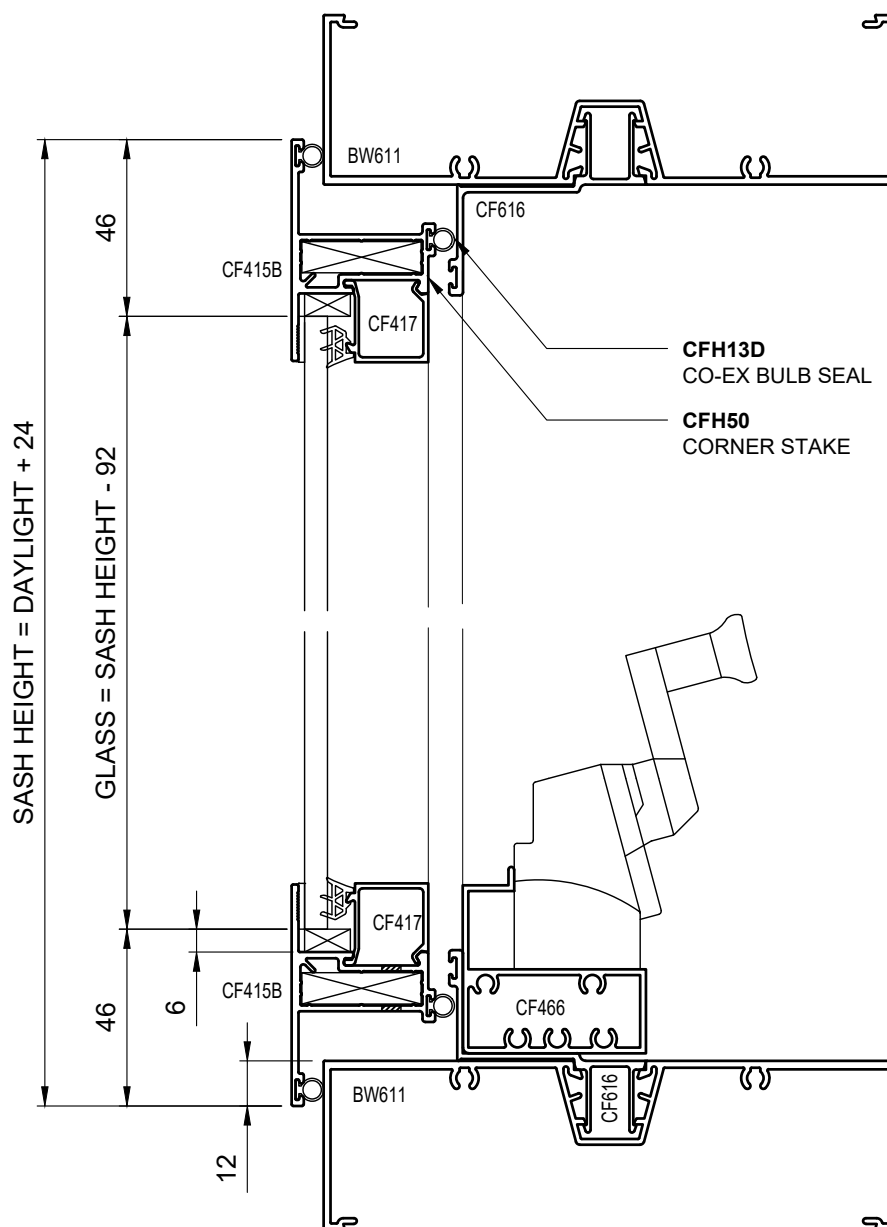
**CF429C  
CONCEALED  
PLANT ON DOOR STOP**



**NOTE:**

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

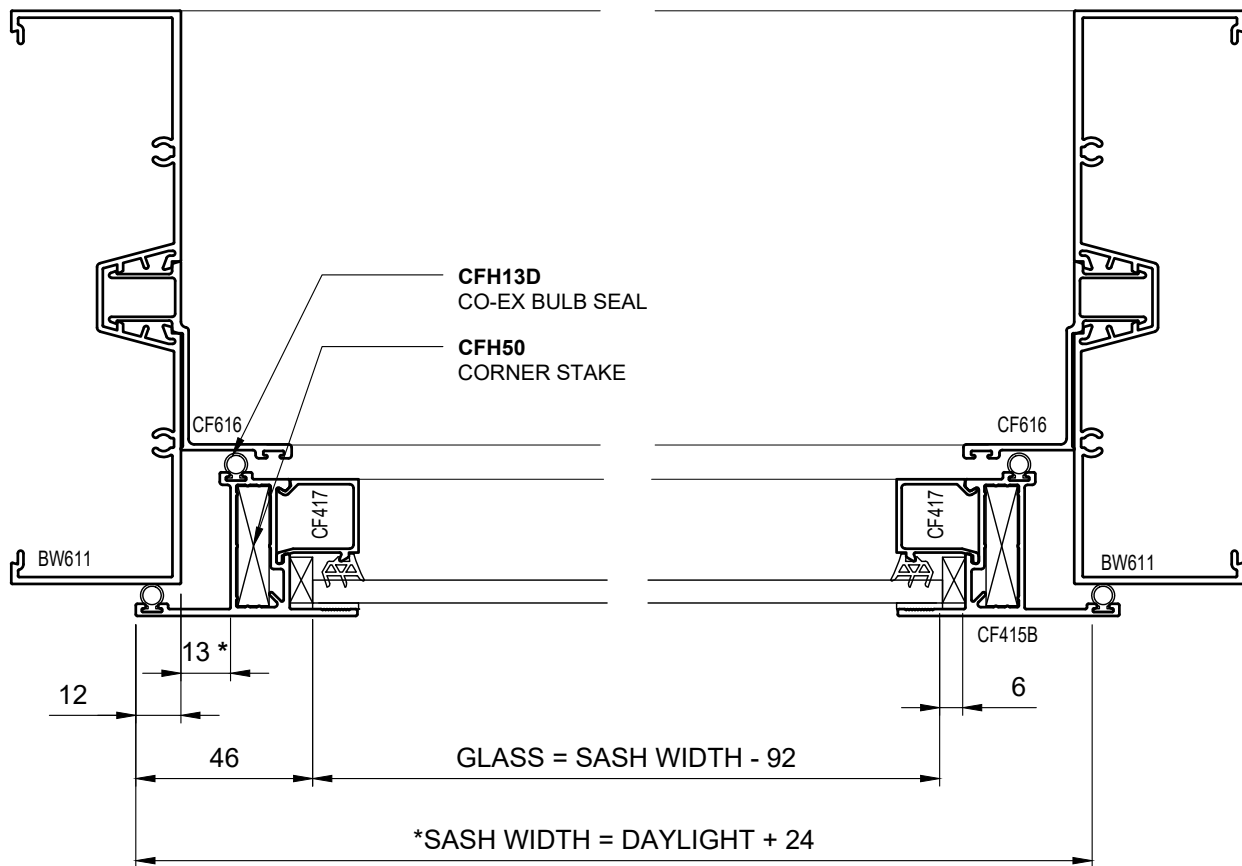
# 150mm COMMERCIAL FRAME CENTRE GLAZED - SINGLE GLAZED VERTICAL DETAIL - 35mm AWNING



**NOTE:**

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

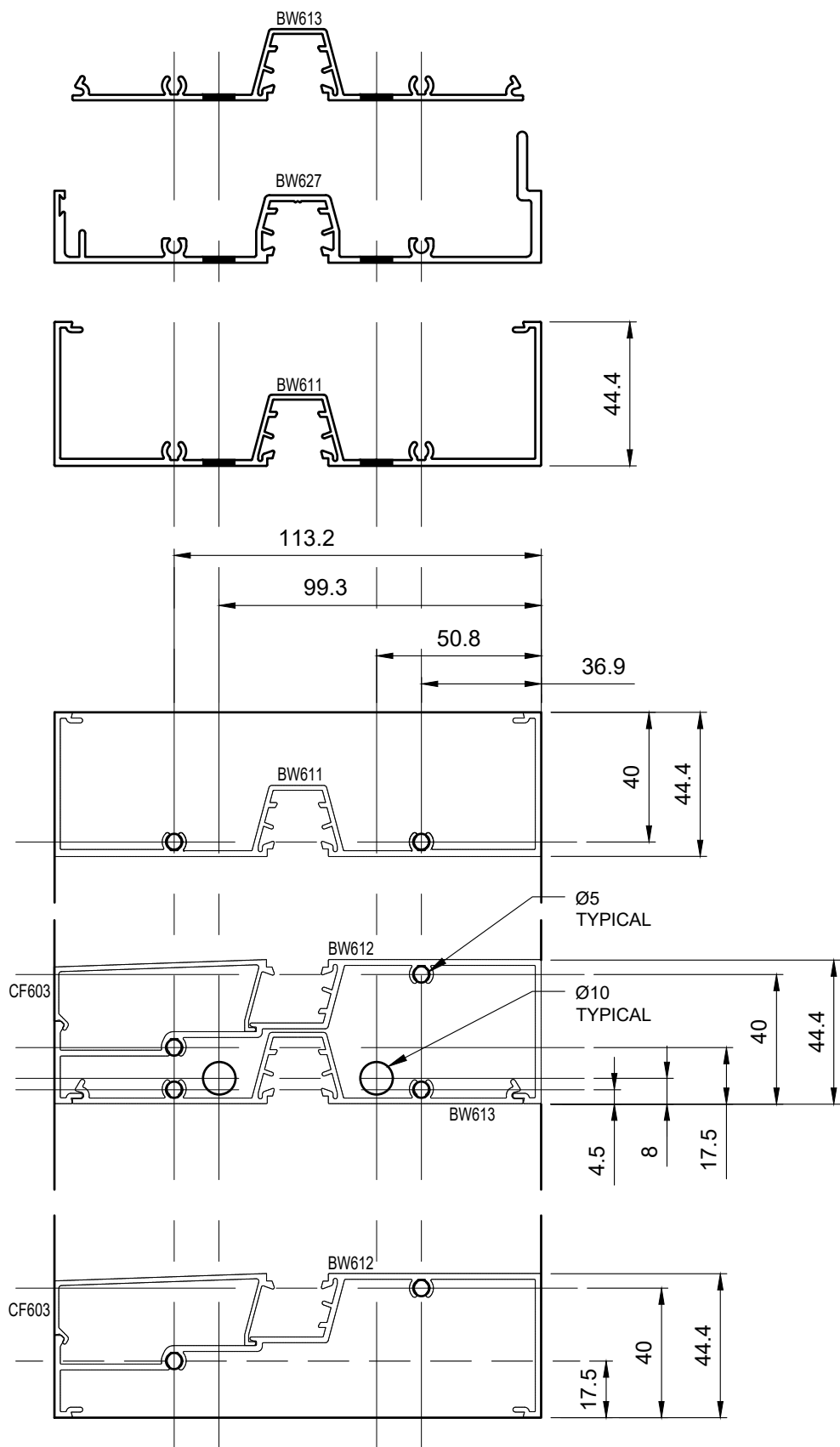
# 150mm COMMERCIAL FRAME CENTRE GLAZED - SINGLE GLAZED HORIZONTAL DETAIL - 35mm AWNING



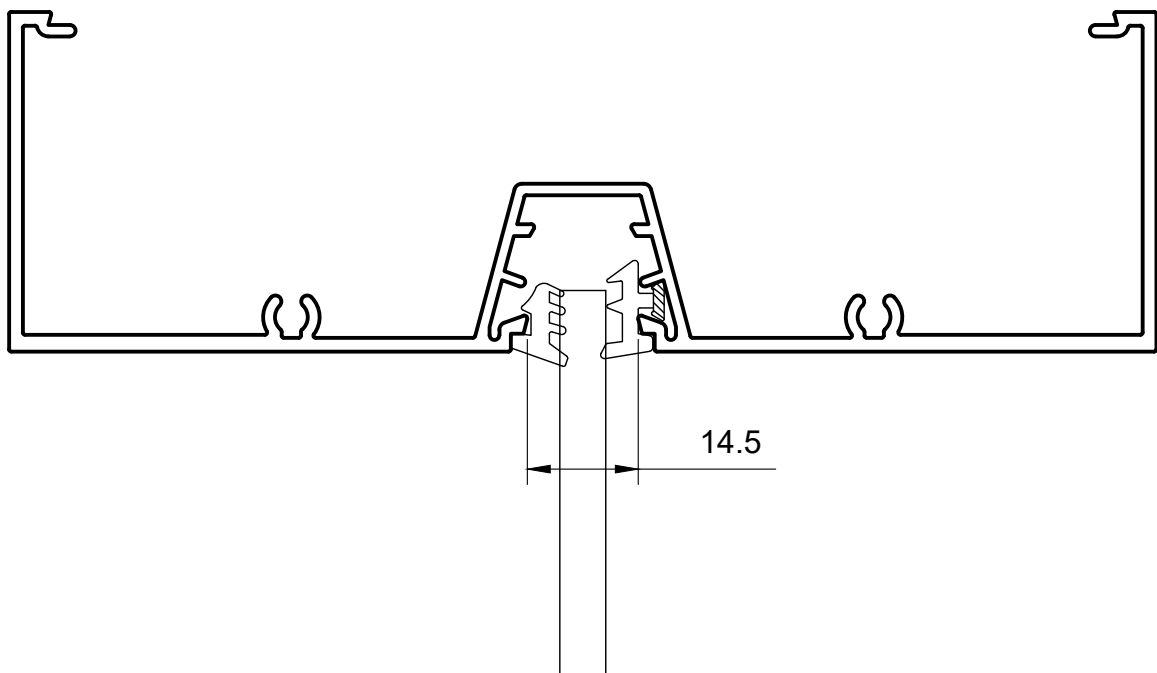
**NOTE:**

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

150mm COMMERCIAL FRAME  
CENTRE GLAZED - SINGLE GLAZED  
MACHINING - JAMB ASSEMBLY HOLES



150mm COMMERCIAL FRAME  
CENTRE GLAZED - SINGLE GLAZED  
GLAZING DETAILS - CAPTIVE

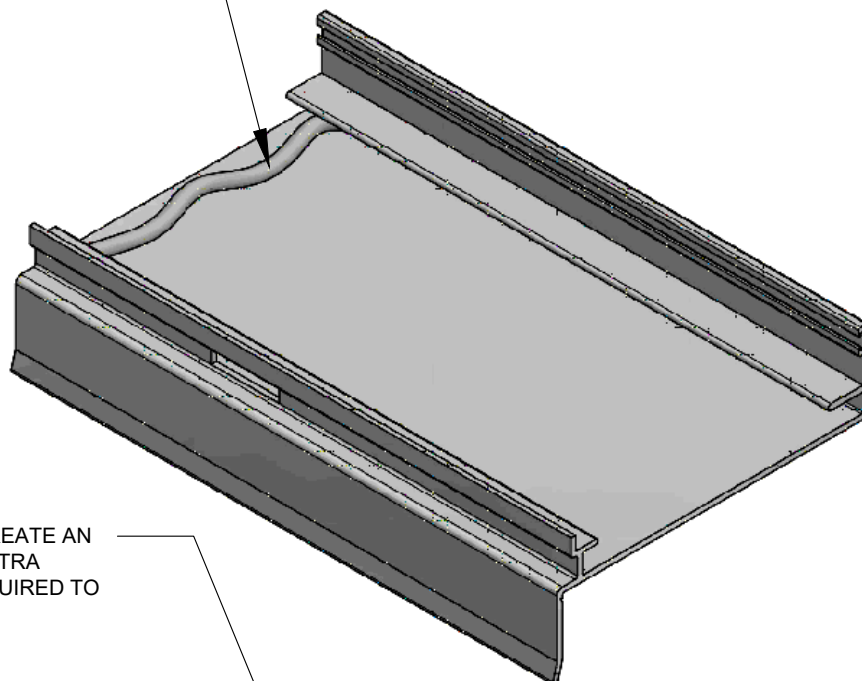


| SINGLE GLAZE - CAPTIVE |              |              |
|------------------------|--------------|--------------|
| GLASS THICKNESS        | WEDGE        | CAPTIVE      |
| 5mm                    | CFH007 - 5mm | CFH006 - 4mm |
| 6mm                    | CFH006 - 4mm | CFH006 - 4mm |
| 8mm                    | CFH010 - 2mm | CFH006 - 4mm |

# 150mm COMMERCIAL FRAME CENTRE GLAZED - SINGLE 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

