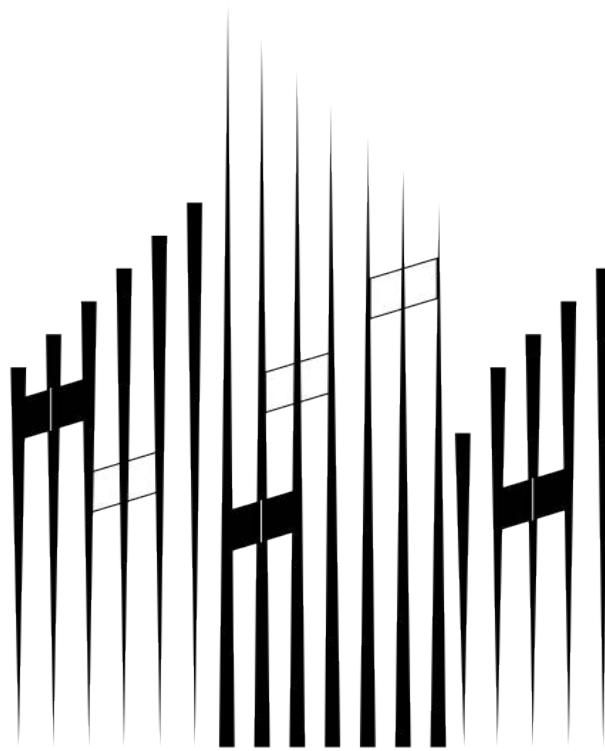




# **ALL STATES**

## **— W I N D O W S —**

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Shelton CT 06484  
tel: 877-302-2001  
email: [sales@allstateswindows.com](mailto:sales@allstateswindows.com)**

**CASEMENT WINDOW SYSTEM  
TECHNICAL INFORMATION  
PROFILE PRINT**



## NFRC Testing Casement Window Series

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### **3mm Cl - Argon - 3mm E272 (1")**



U-Factor - 0.27

SHGC - 0.28

VT - 0.48

Con. Res. - 0.61

### **3mm Cl - Argon - 3mm E366 (1")**

U-Factor - 0.26

SHGC - 0.18

VT - 0.41

Con. Res. - 63

### **3mm E272 - Argon - 3mm Cl - Argon - 3mm 272 (1 3/8")**

U-Factor - 0.17

SHGC - 0.20

VT - 0.34

Con. Res. - 79

### **3mm E366 - Argon - 3mm Cl - Argon - 3mm Cl (1 3/8")**

U-Factor - 0.22

SHGC - 0.16

VT - 0.37

Con. Res. - 72



## Performance

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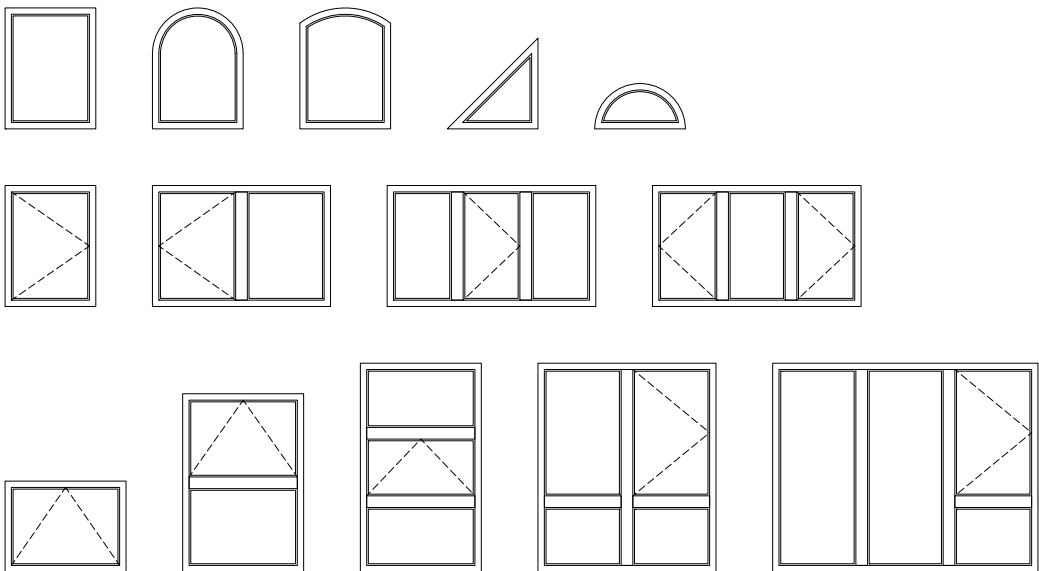


- Thermal Insulation - U-factor down up to 0.17
- SHGC - up to 0.16
- Primary Product Designator - Class CW-PG100 813 x 1499 mm (~32 x 59 in) C
- Design Pressure - +4800 Pa (+100.25 psf)
- Air Infiltration - 0.1 L/s/m<sup>2</sup> (0.01 cfm/ft<sup>2</sup>)
- Canadian Air Filtration / Exfiltration Level - A3
- Water Penetration Resistance Test Pressure - 960 Pa (20.05 psf)

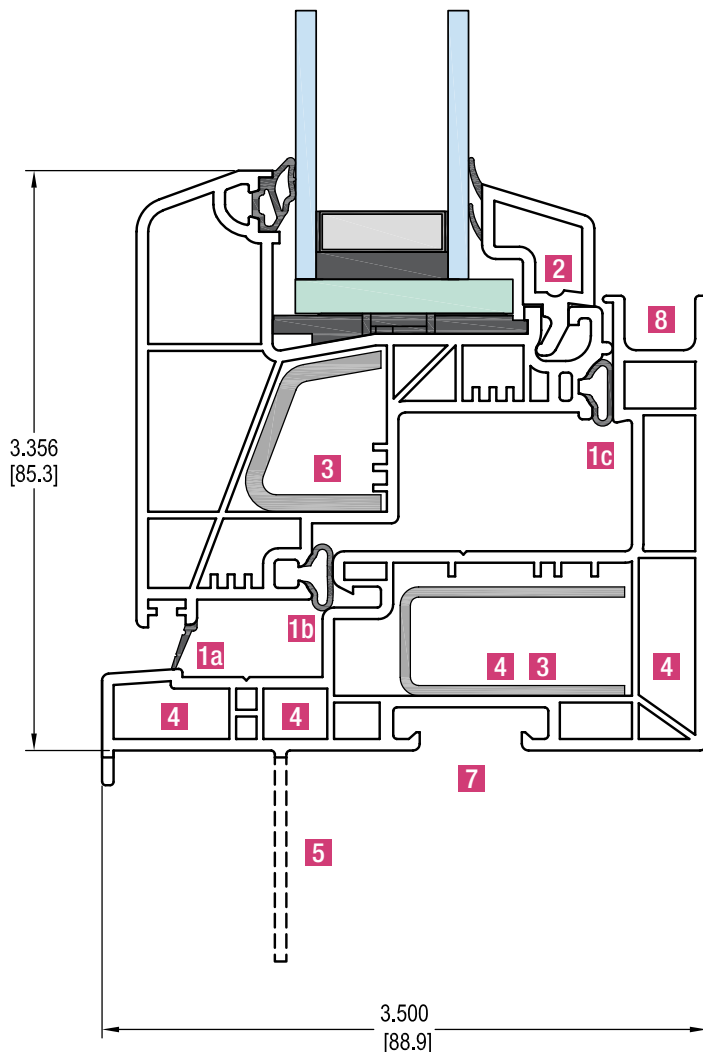
Description, Technical Data

|                         |                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------|
| Window / Door Typesr    | Fixed, Casement, Awning Windows                                                                         |
| Frame Material: Core    | Cadmium and lead-free RAU-PVC                                                                           |
| Sealing System          | Triple Seal System                                                                                      |
| Design Depth            | 3 1/2 in (88.9 mm) / 3 1/4 in (82.5 mm) / 3 3/8 in (86 mm) frame depth                                  |
| Hinge Allowance         | 7/16 in (11.4 mm)                                                                                       |
| Maximum Glass Thickness | 1 3/8 in (35 mm)                                                                                        |
| Glazing System          | Dry-Glazed Sash (Casement / Awning)<br>Tape- or Wet-Glazed Fixed Lite (Direct Set)                      |
| Sightlines Frame / Sash | 3 11/32 in (85.3 mm)                                                                                    |
| U-values                | Down to 0.18 (Btu/hr-ft²°F); *                                                                          |
| Structural Tests        | Fixed: up to Class CW-PG 80; *<br>Casement: up to Class CW-PG 100; *<br>Awning: up to Class CW-PG 70; * |
| Sound Reduction         | Up to STC 40; *                                                                                         |

Examples of Opening Types



## SYSTEM DESCRIPTION



### Features and Benefits for Operable Windows

#### 1 Triple Seal System

For optimal air and water performance

##### 1a Fin Seal

Provides barrier against dust and dirt infiltration into hinge area, is field replaceable and removable if damaged

##### 1b Center Seal

Minimize water infiltration in hardware area, is field replaceable and removable if damaged

##### 1c Primary Seal

Provides uninterrupted seal around perimeter, is field replaceable and removable if damaged

#### 2 Compatible Glazing Stops

Same glazing stops as in S2200, S4500 and GENE0, allows easy glass replacement

#### 3 Reinforcement

Provides high structural performance

#### 4 Main profiles engineered with multiple chambers

Increases strength, enhances energy performance and allow efficient water drainage

#### 5 Variety of optional frames

3 1/2 in (88.9 mm) / 3 1/4 in (82.5 mm) / 3 3/8 in (86 mm) frame depth

#### 6 Standard REHAU Accessory Grooves

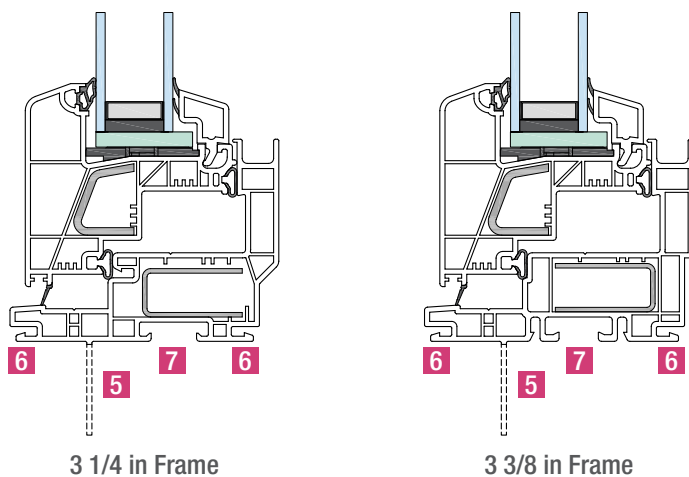
Allow various configurations and applications

#### 7 Variety of installation options

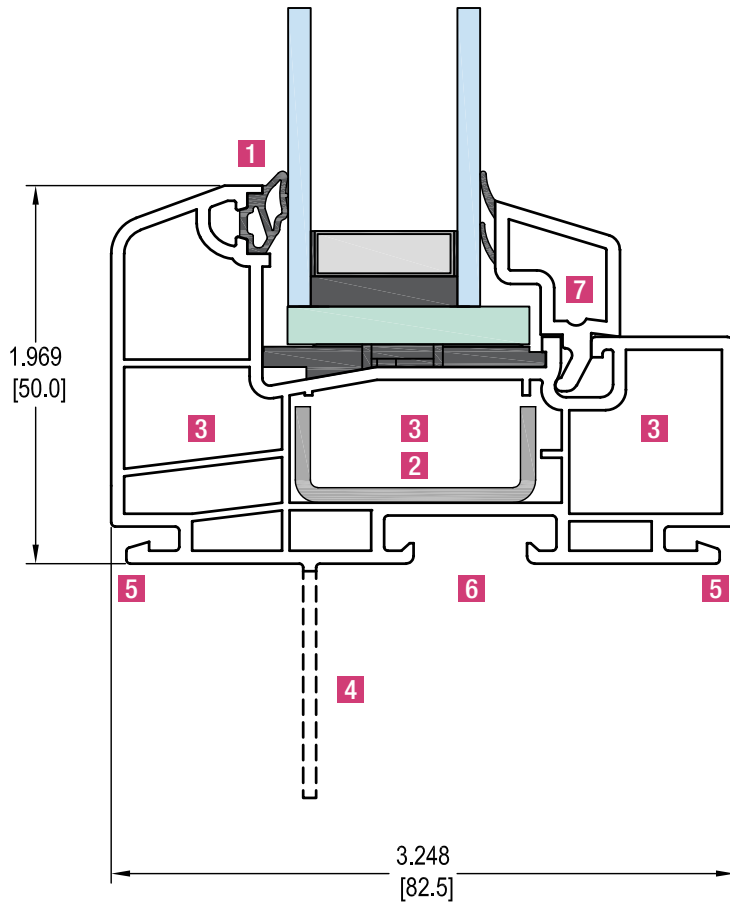
Option through use of nailing fins / installation straps / brickmolds for new construction or replacement applications

#### 8 Screen Channel

All vent frames and T-mullions incorporate a full "U" shaped channel to accommodate a wide variety of screen types



## SYSTEM DESCRIPTION



### Features and Benefits for Fixed Windows

#### 1 Dry Glazing

Allows easy glass replacement

#### 2 Reinforcement

Provides high structural performance

#### 3 Main profiles engineered with multiple chambers

Increases strength, enhances energy performance and allow efficient water drainage

#### 4 Variety of optional frames

3 1/4 in (82.5 mm) / 3 3/8 in (86 mm) frame depth

#### 5 Standard Accessory Grooves

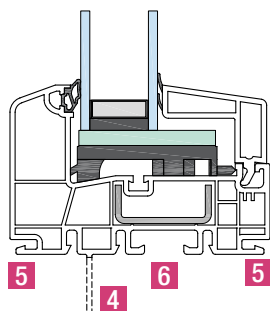
Allow various configurations and applications

#### 6 Variety of installation options

Option through use of nailing fins / installation straps / brickmolds for new construction or replacement applications

#### 7 Compatible Glazing Stops

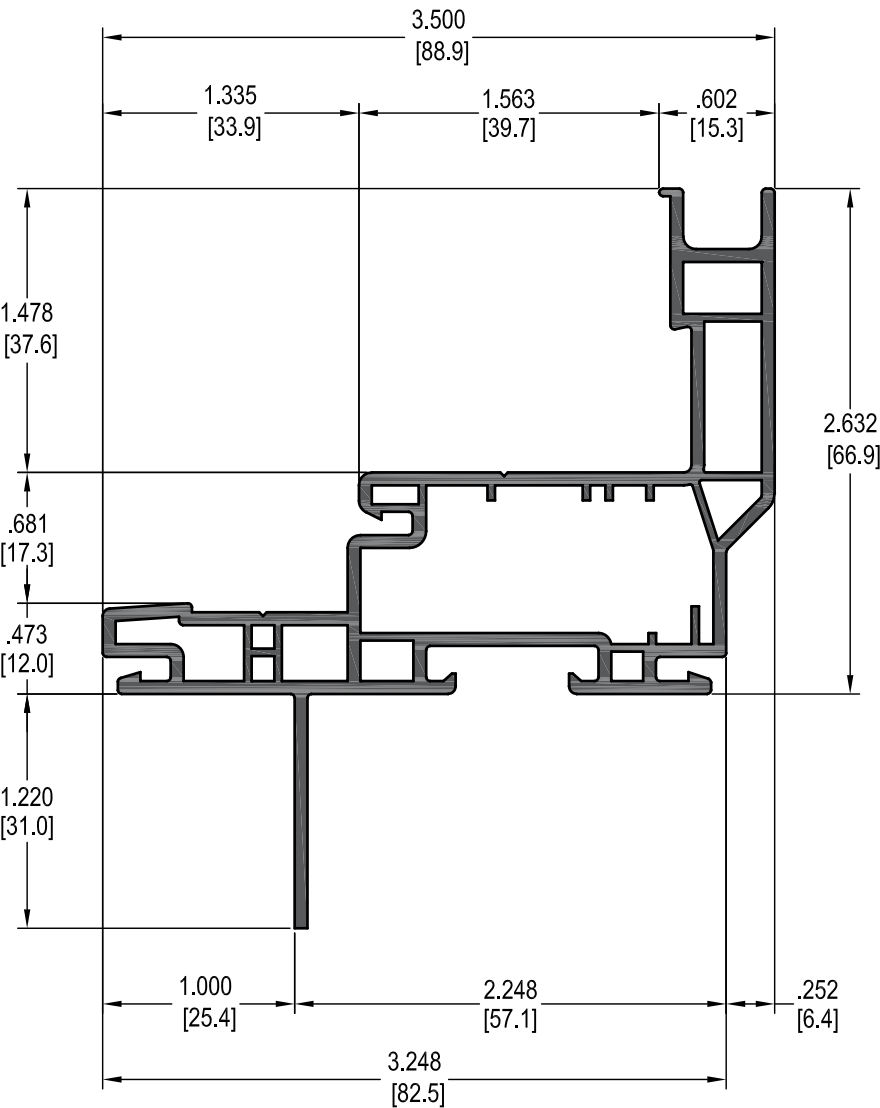
Same glazing stops as in S2200, S4500 and GENE0, allows easy glass replacement



3 3/8 in Frame

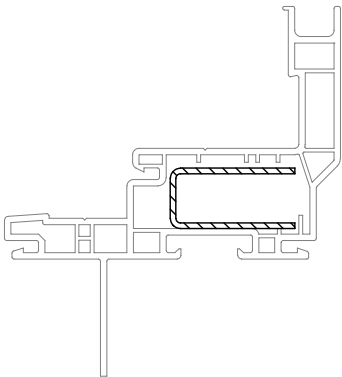
# PROFILE PRINT

## Frames



3 1/4 in Vent Frame  
(with Nailing Fin)

|                                                                                     |      |      |      |  |
|-------------------------------------------------------------------------------------|------|------|------|--|
|                                                                                     | WHT  | BG   | CLAY |  |
|  | RACK | RACK | RACK |  |
|                                                                                     | ---  | ---  | ---  |  |
|                                                                                     | PACK | PACK | PACK |  |

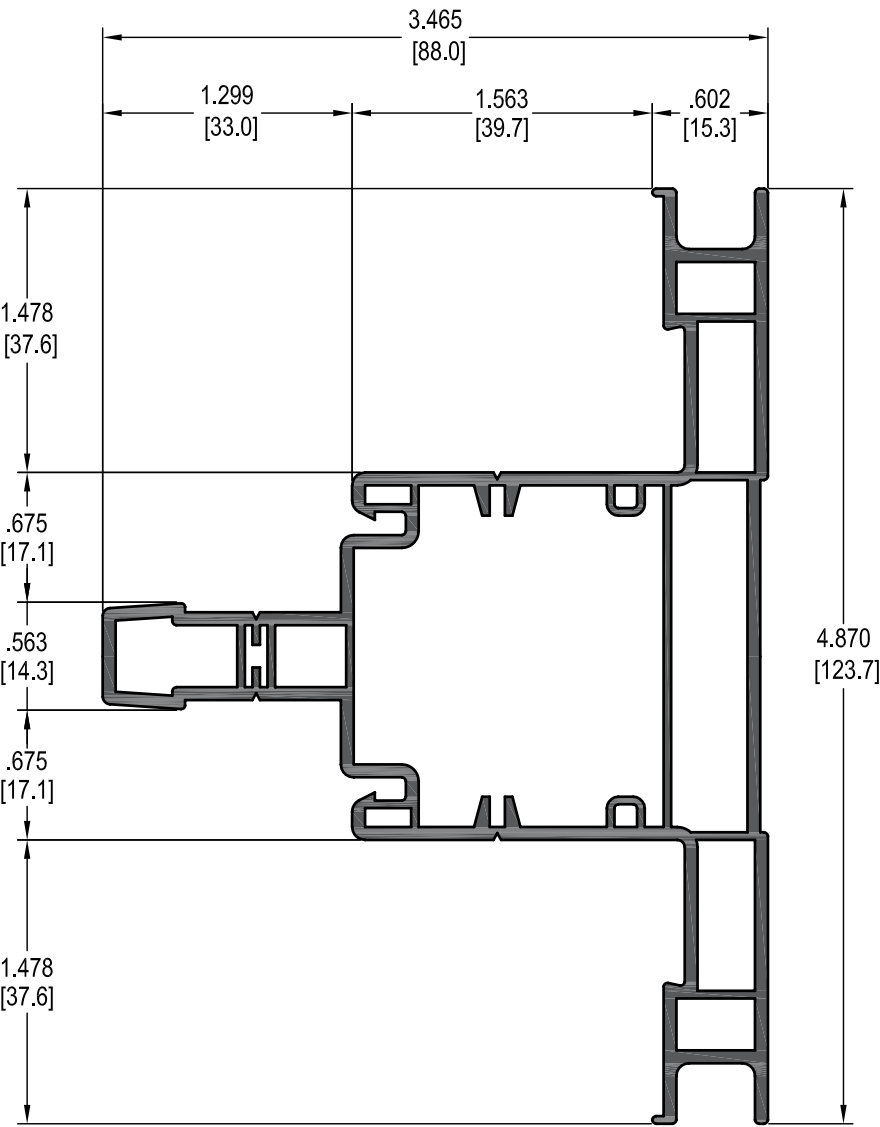


33 mm x 16 mm

|                                                                                     |                                                |
|-------------------------------------------------------------------------------------|------------------------------------------------|
|  | 0.059 in (1.5 mm)                              |
| lx                                                                                  | 0.0303 in <sup>4</sup> (1.26 cm <sup>4</sup> ) |
| ly                                                                                  | 0.0127 in <sup>4</sup> (0.53 cm <sup>4</sup> ) |
|  | PACK                                           |

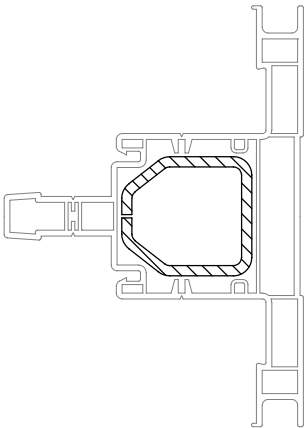
# PROFILE PRINT

## Mullion



### Standard T-Mullion

|                                                                                     |      |      |      |  |
|-------------------------------------------------------------------------------------|------|------|------|--|
|                                                                                     | WHT  | BG   | CLAY |  |
|  | RACK | RACK | RACK |  |
|                                                                                     | ---  | ---  | ---  |  |
|                                                                                     | PACK | PACK | PACK |  |

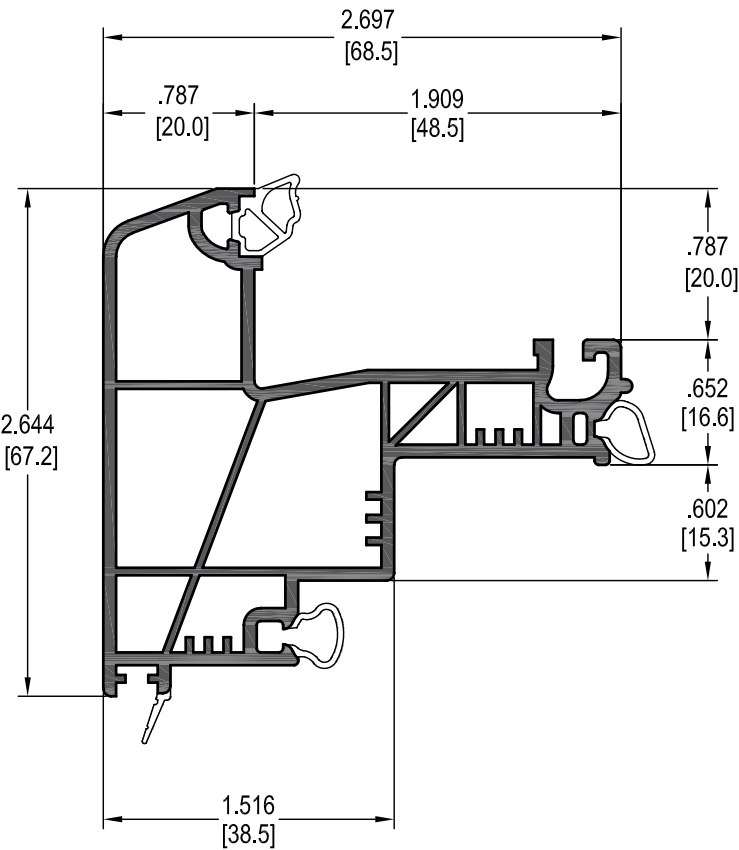


38.2 mm x 35 mm

|                                                                                     |                                                |
|-------------------------------------------------------------------------------------|------------------------------------------------|
|  | 0.118 in (3.0 mm)                              |
| Ix                                                                                  | 0.1499 in <sup>4</sup> (6.24 cm <sup>4</sup> ) |
| Iy                                                                                  | 0.1329 in <sup>4</sup> (5.53 cm <sup>4</sup> ) |
|  | PACK                                           |

PROFILE PRINT

Sash



Standard Sash



WHT

BG

CLAY



RACK

RACK

RACK

---

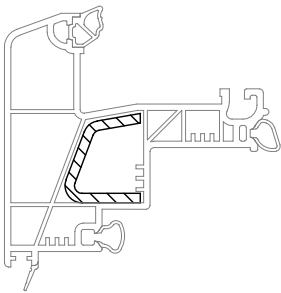
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PACK

PACK

PACK

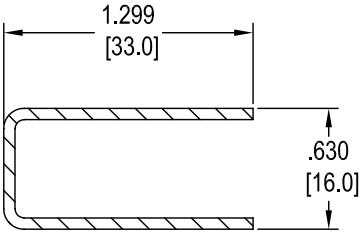
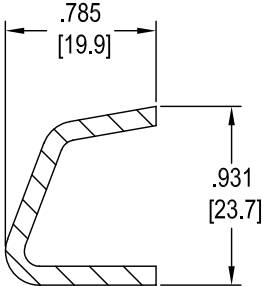
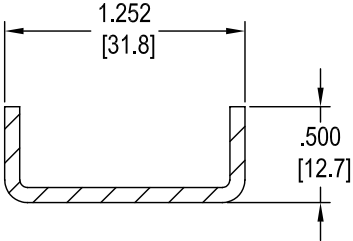
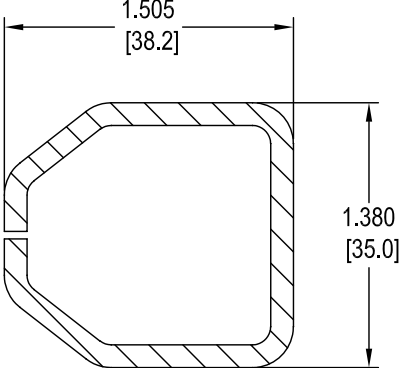


19.9 mm x 23.7 mm

|                                                                                     |                                                |
|-------------------------------------------------------------------------------------|------------------------------------------------|
|                                                                                     |                                                |
|  | 0.098 in (2.5 mm)                              |
| Ix                                                                                  | 0.0091 in <sup>4</sup> (0.38 cm <sup>4</sup> ) |
| Iy                                                                                  | 0.0221 in <sup>4</sup> (0.92 cm <sup>4</sup> ) |
|  | PACK                                           |

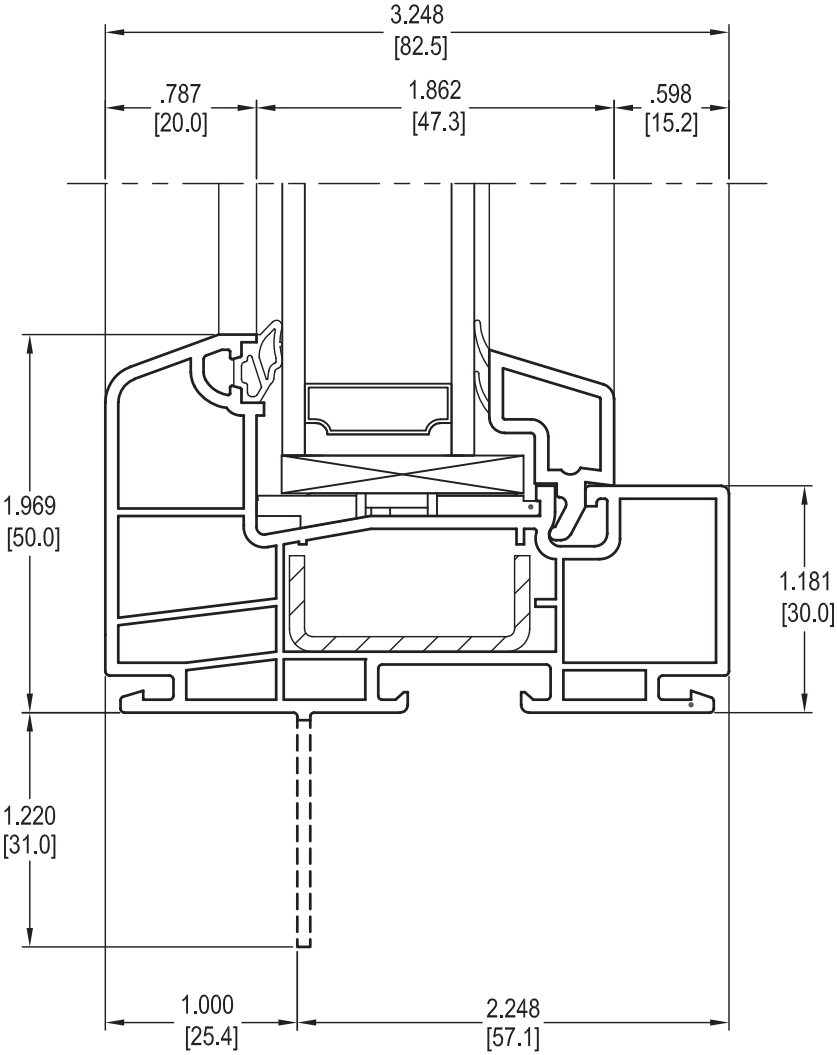
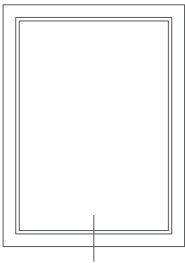
PROFILE PRINT

Reinforcements

| Reinforcement Diagram                                                               |  | Weight<br>kg / m |  in (mm) | Ix<br>Ix in <sup>4</sup> (Ix cm <sup>4</sup> ) | Iy<br>Iy in <sup>4</sup> (Iy cm <sup>4</sup> ) |
|-------------------------------------------------------------------------------------|--|------------------|---------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|
|    |  | 0.91             | 0.059<br>(1.5)                                                                              | 0.0303<br>(1.26)                               | 0.0127<br>(0.53)                               |
|   |  | 0.98             | 0.098<br>(2.5)                                                                              | 0.0091<br>(0.38)                               | 0.0221<br>(0.92)                               |
|  |  | 0.81             | 0.079<br>(2.0)                                                                              | 0.0339<br>(1.41)                               | 0.0034<br>(0.14)                               |
|  |  | 2.78             | 0.118<br>(3.0)                                                                              | 0.1499<br>(6.24)                               | 0.1329<br>(5.53)                               |

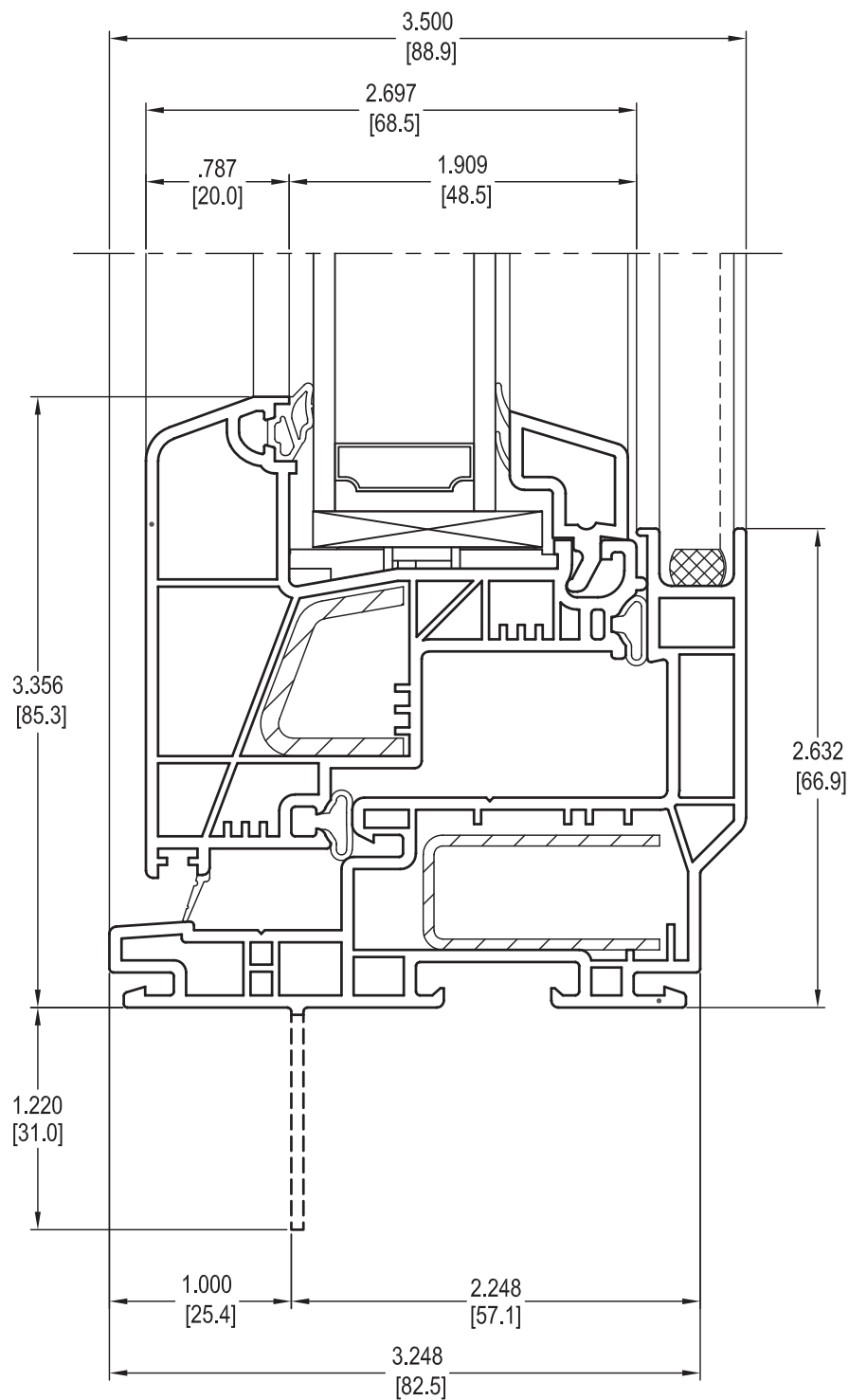
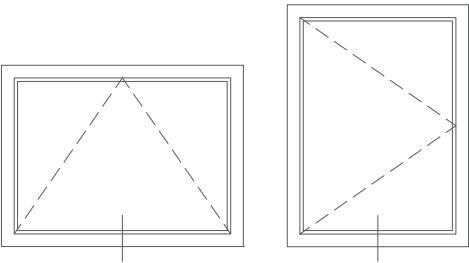
# DETAIL DRAWINGS

Fixed Window - 3 1/4 in Small Picture Frame



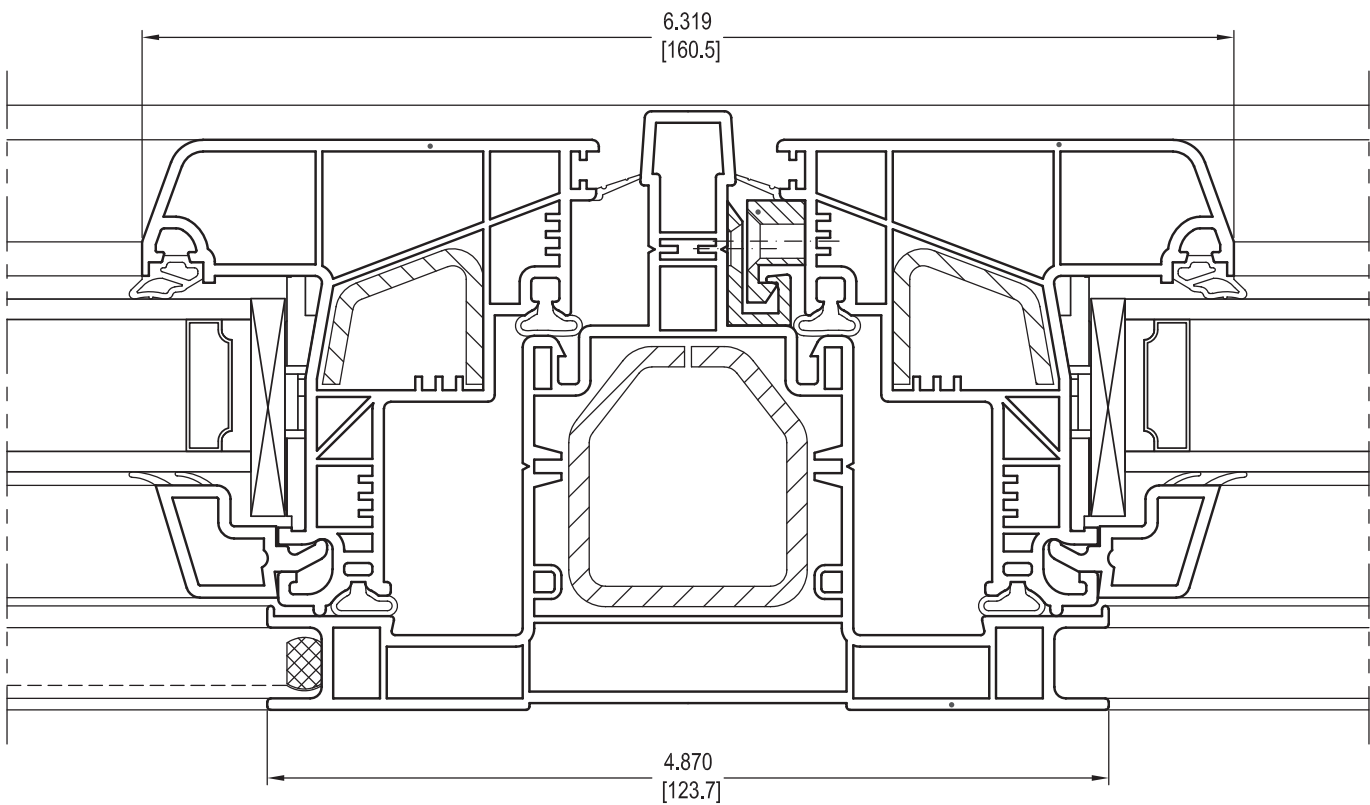
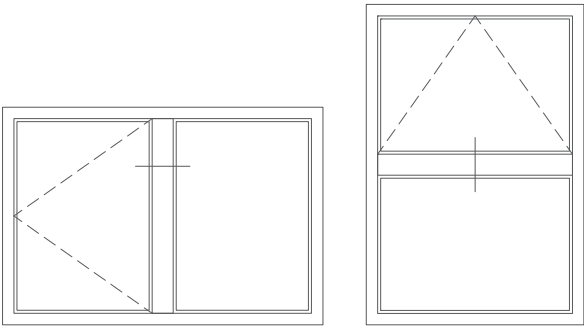
# DETAIL DRAWINGS

Awning / Casement window - 3 1/4 in Frame with Sash



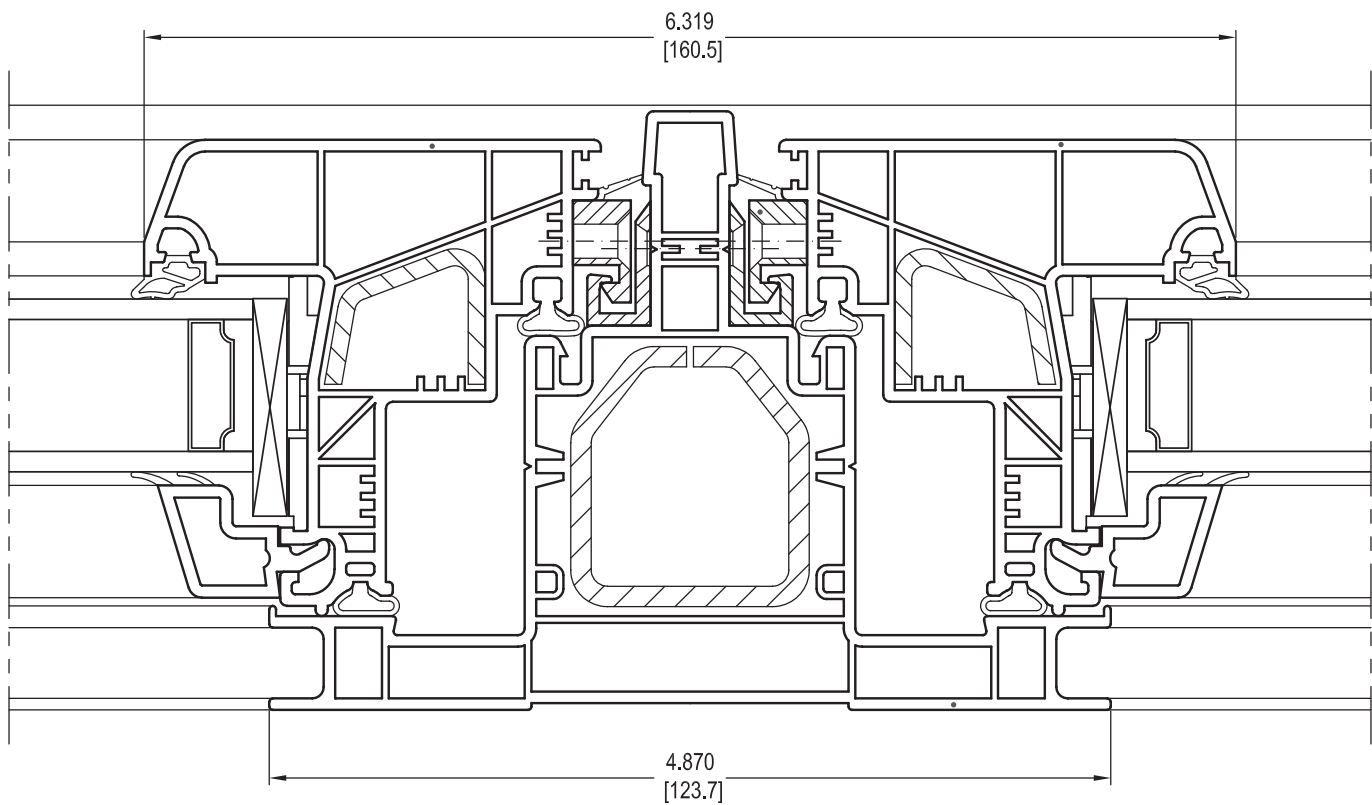
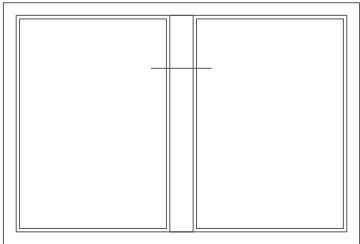
# DETAIL DRAWINGS

Casement mulled Fixed window - Standard T-Mullion with Sash Set glazing  
Awning over Fixed window - Standart T-Mullion with Sash Set glazing



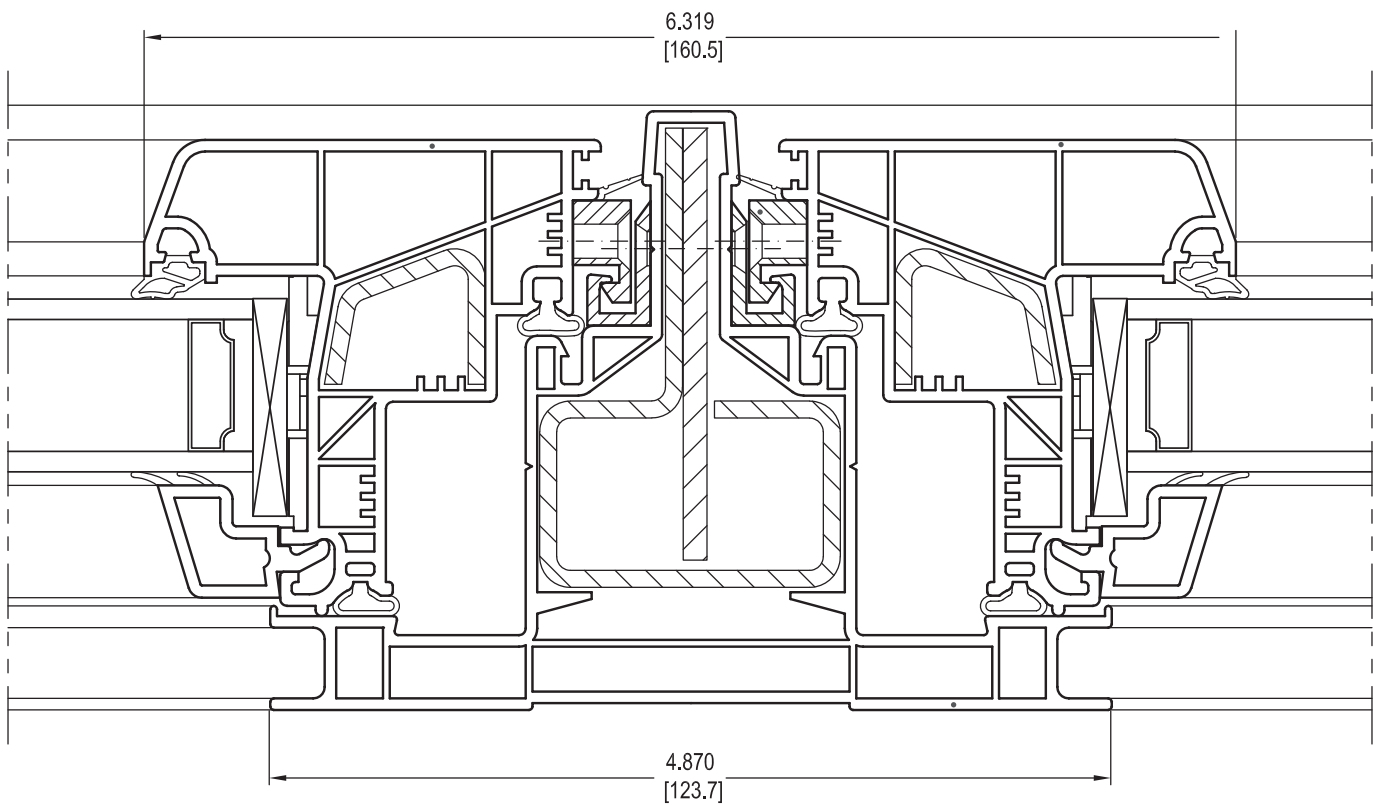
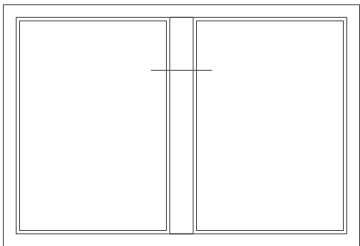
# DETAIL DRAWINGS

Double Fixed window - Standard T-Mullion with Sash Set glazing



# DETAIL DRAWINGS

Double Fixed window - Static T-Mullion with Sash Set glazing



# FABRICATION DETAILS

## Mechanical Joints

### T-Mullion Installation Detail

