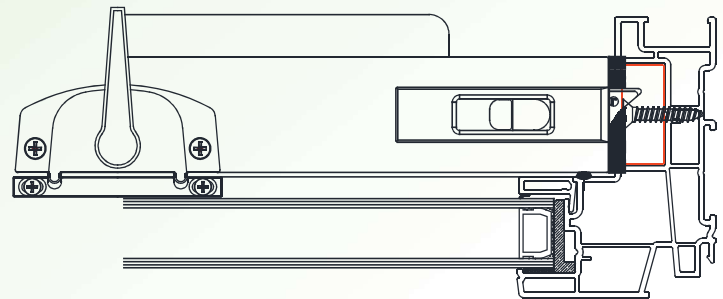
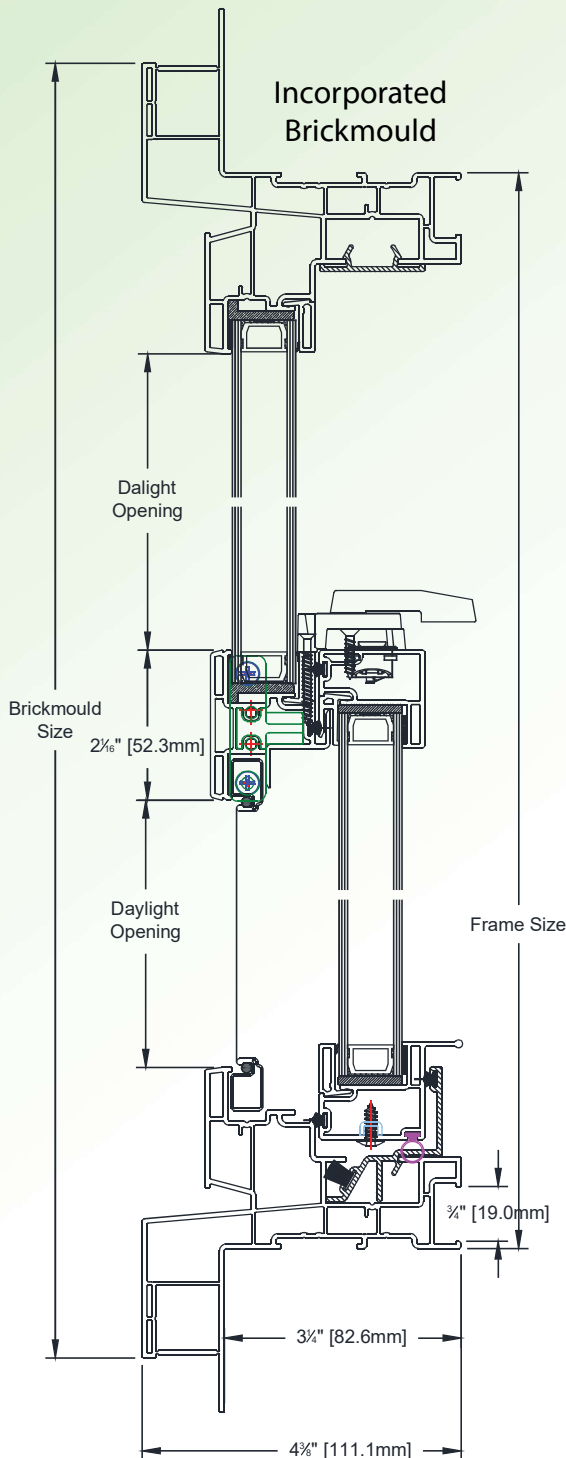


## Single Hung

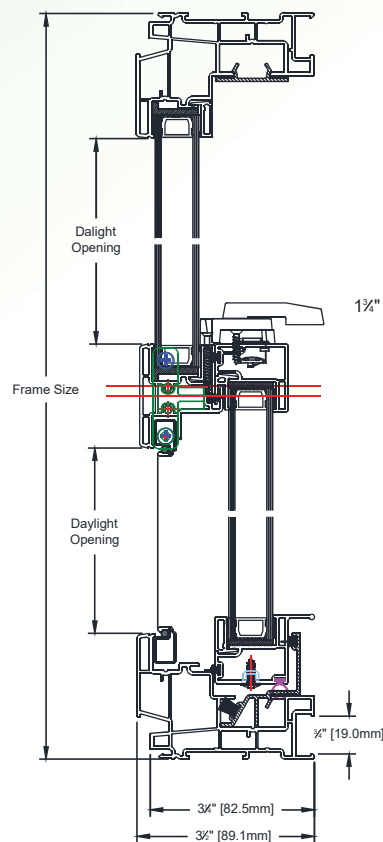
*Global Windows and Doors manufactured products are structurally tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-08 and -11 'NAFS' with the A440S1-09 Canadian Supplement. And energy performance tested in accordance with ANSI/NFRC 100, NFRC 200 and NFRC 500 as determined by the NFRC Standards accreditation agency.*



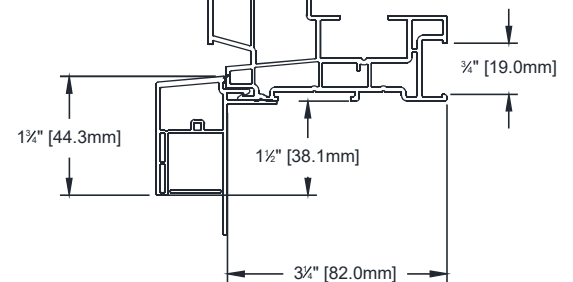
# Single Hung



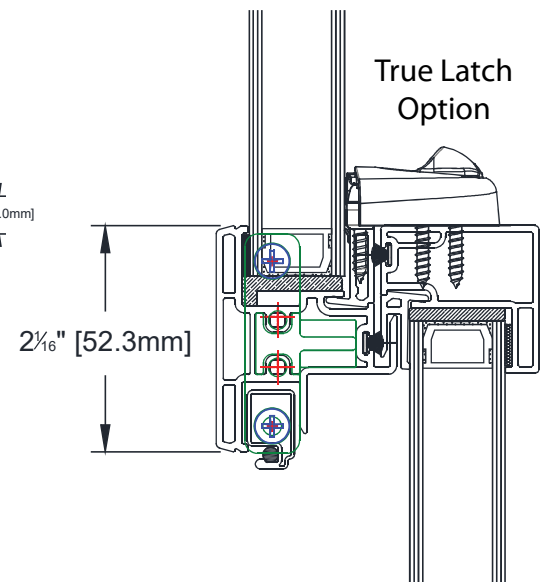
**Flush Frame**



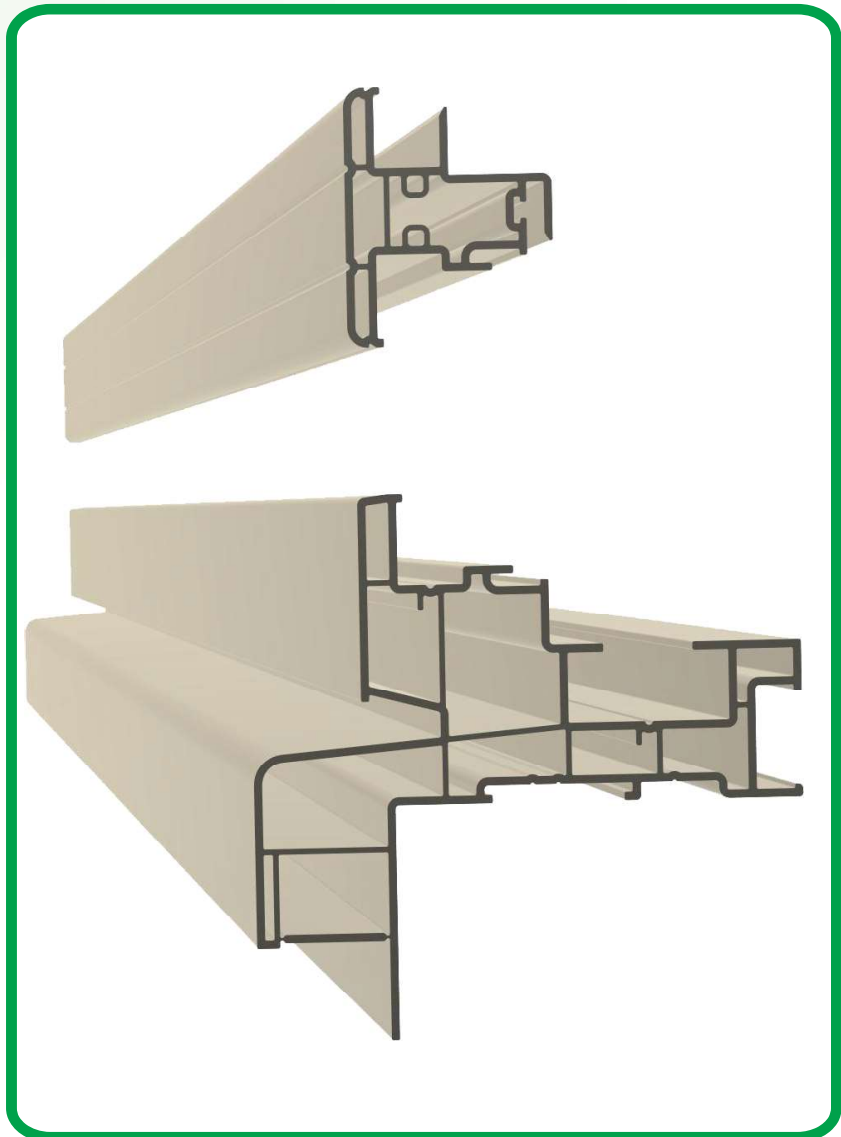
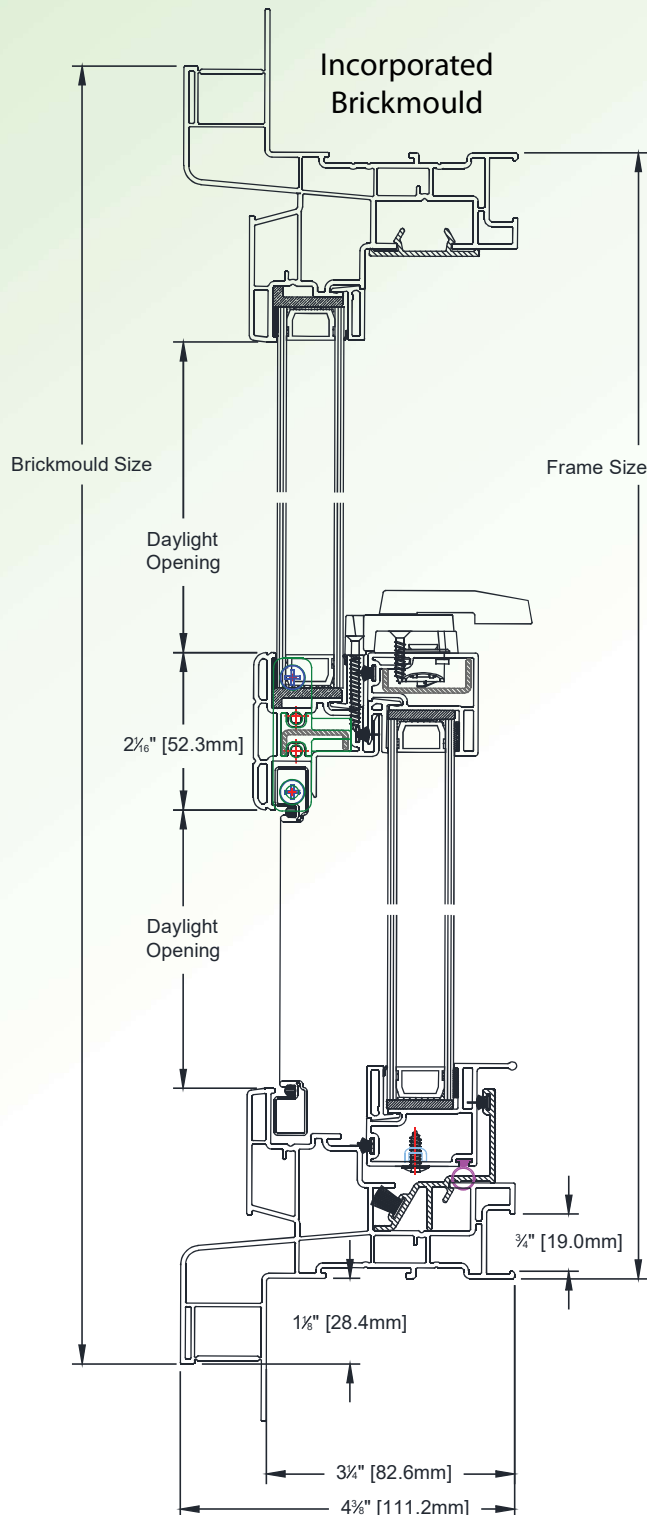
**Flush Frame with Add-On Brickmould**



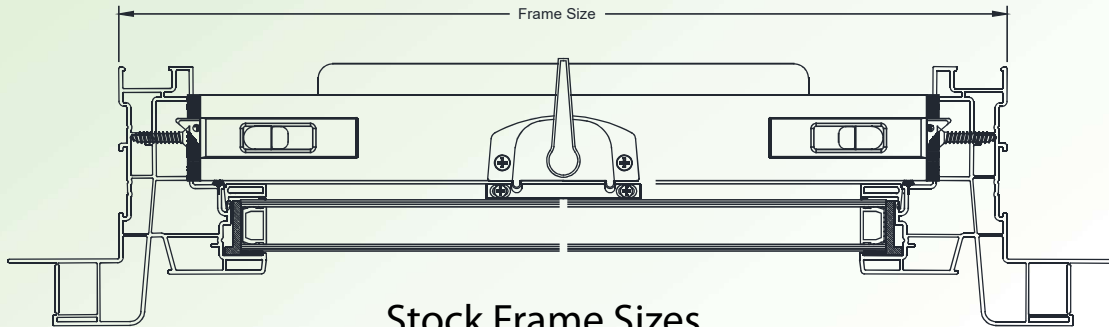
**True Latch Option**



# Single Hung Stock Window Program



## Single Hung Stock Window Program

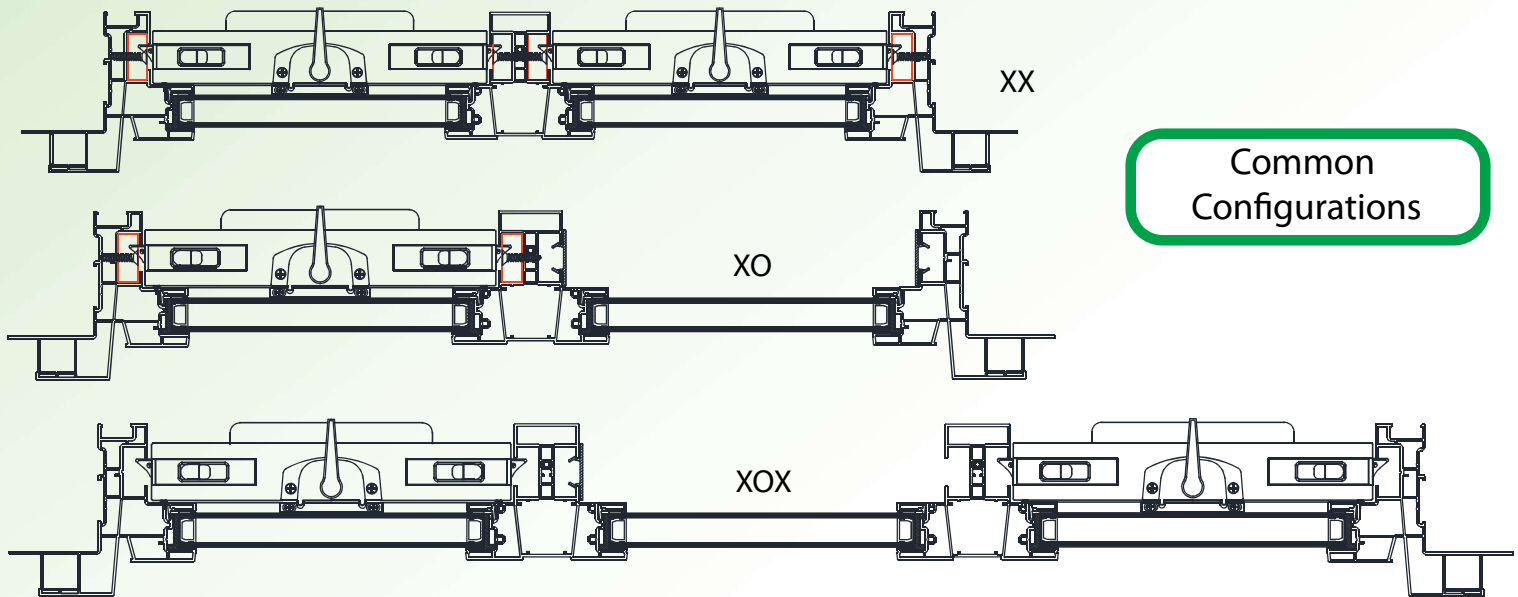


Stock Frame Sizes

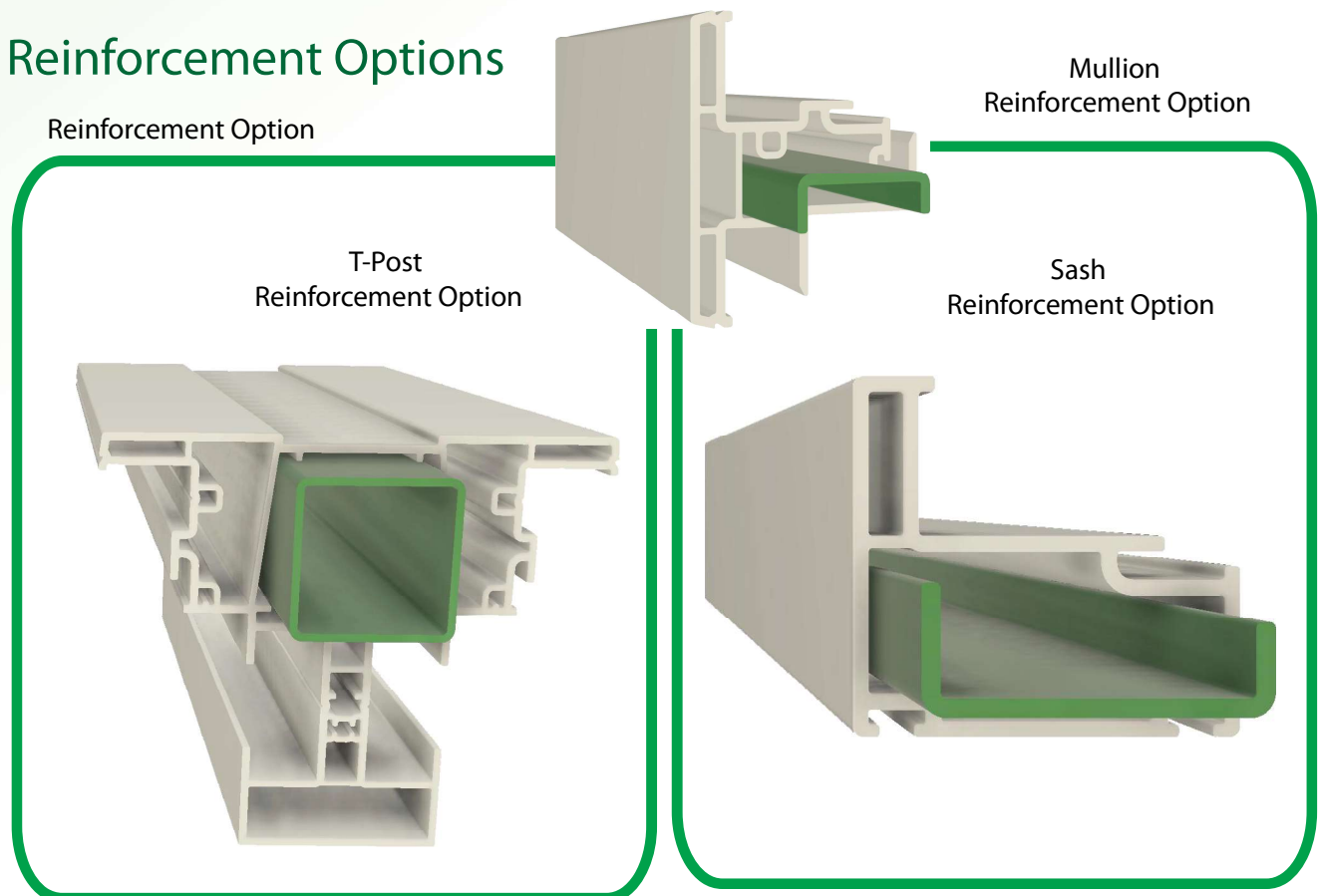
|        |                                |                                | NAFS A440 |                                       |                             |                             |                   |                                            |
|--------|--------------------------------|--------------------------------|-----------|---------------------------------------|-----------------------------|-----------------------------|-------------------|--------------------------------------------|
| SKU    | Grills<br>(N) NO or<br>(Y) YES | Style                          | Class     | Size Tested                           | Positive Design<br>Pressure | Negative Design<br>Pressure | Water Penetration | Canadian<br>Air<br>Infiltration<br>(Level) |
| SH2040 | N                              | Single Hung 20x40              | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
|        | Y                              | Single Hung 20x40              | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
| SH2436 | N                              | Single Hung 24x36              | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
|        | Y                              | Single Hung 24x36              | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
| SH3036 | N                              | Single Hung 30x36              | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
|        | Y                              | Single Hung 30x36              | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
| SH3040 | N                              | Single Hung 30x40              | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
|        | Y                              | Single Hung 30x40              | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
| SH3240 | N                              | Single Hung 32x40              | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
|        | Y                              | Single Hung 32x40              | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
| SH3248 | N                              | Single Hung 32x48              | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
|        | Y                              | Single Hung 32x48              | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
| SH3254 | N                              | Single Hung 32x54 Meets Egress | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
|        | Y                              | Single Hung 32x54 Meets Egress | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
| SH3636 | N                              | Single Hung 36x36              | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
|        | Y                              | Single Hung 36x36              | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
| SH3640 | N                              | Single Hung 36x40              | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
|        | Y                              | Single Hung 36x40              | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
| SH3648 | N                              | Single Hung 36x48 Meets Egress | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
|        | Y                              | Single Hung 36x48 Meets Egress | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
| SH3654 | N                              | Single Hung 36x54 Meets Egress | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
|        | Y                              | Single Hung 36x54 Meets Egress | LC-PG40-H | 125 mm x 940 mm (44 in. x 76 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 400 Pa (8.25 psf) | A3                                         |
| SH6054 | N                              | Single Hung 60x54 Meets Egress | LC-PG50-H | 930 mm x 925 mm (72 in. x 64 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 360 Pa (7.5 psf)  | A3                                         |
|        | Y                              | Single Hung 60x54 Meets Egress | LC-PG50-H | 930 mm x 925 mm (72 in. x 64 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 360 Pa (7.5 psf)  | A3                                         |
| SH6454 | N                              | Single Hung 64x54 Meets Egress | LC-PG50-H | 930 mm x 925 mm (72 in. x 64 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 360 Pa (7.5 psf)  | A3                                         |
|        | Y                              | Single Hung 64x54 Meets Egress | LC-PG50-H | 930 mm x 925 mm (72 in. x 64 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 360 Pa (7.5 psf)  | A3                                         |
| SH7254 | N                              | Single Hung 72x54 Meets Egress | LC-PG45-H | 930 mm x 925 mm (72 in. x 64 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 360 Pa (7.5 psf)  | A3                                         |
|        | Y                              | Single Hung 72x54 Meets Egress | LC-PG45-H | 930 mm x 925 mm (72 in. x 64 in.)     | 920 Pa (40.0 psf)           | -920 Pa (-40.0 psf)         | 360 Pa (7.5 psf)  | A3                                         |
| SH9536 | N                              | Single Hung 95x36              | LC-PG50-H | 2740 mm x 925 mm (107.9 in. x 64 in.) | 1680 Pa (35.0 psf)          | -1680 Pa (-35.0 psf)        | 360 Pa (8.0 psf)  | A3                                         |
|        | Y                              | Single Hung 95x36              | LC-PG50-H | 2740 mm x 925 mm (107.9 in. x 64 in.) | 1680 Pa (35.0 psf)          | -1680 Pa (-35.0 psf)        | 360 Pa (8.0 psf)  | A3                                         |
| SH9554 | N                              | Single Hung 95x54              | LC-PG45-H | 2740 mm x 925 mm (107.9 in. x 64 in.) | 1680 Pa (35.0 psf)          | -1680 Pa (-35.0 psf)        | 360 Pa (8.0 psf)  | A3                                         |
|        | Y                              | Single Hung 95x54              | LC-PG45-H | 2740 mm x 925 mm (107.9 in. x 64 in.) | 1680 Pa (35.0 psf)          | -1680 Pa (-35.0 psf)        | 360 Pa (8.0 psf)  | A3                                         |
| SH9560 | N                              | Single Hung 95x60              | LC-PG30-H | 2740 mm x 925 mm (107.9 in. x 64 in.) | 1680 Pa (35.0 psf)          | -1680 Pa (-35.0 psf)        | 360 Pa (8.0 psf)  | A3                                         |
|        | Y                              | Single Hung 95x60              | LC-PG30-H | 2740 mm x 925 mm (107.9 in. x 64 in.) | 1680 Pa (35.0 psf)          | -1680 Pa (-35.0 psf)        | 360 Pa (8.0 psf)  | A3                                         |

# Single Hung

## Structural Mullion T-Post (Composite)



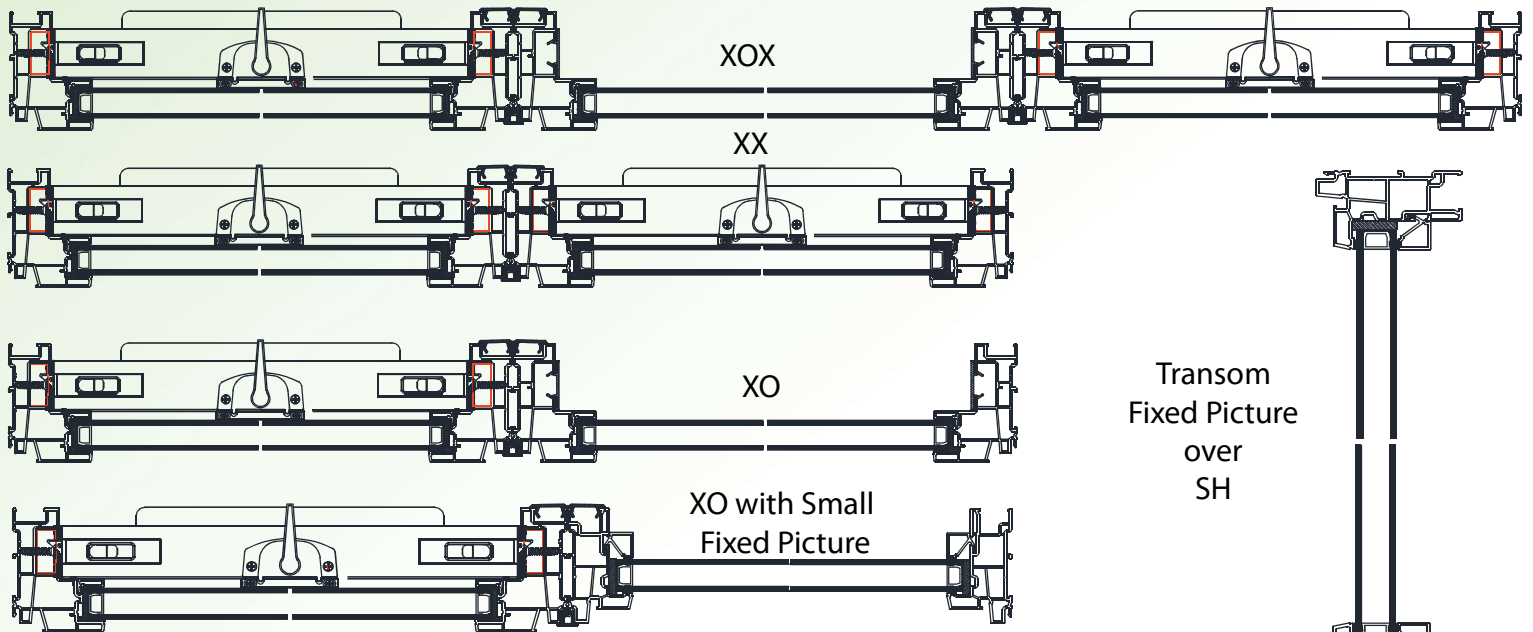
### Reinforcement Options



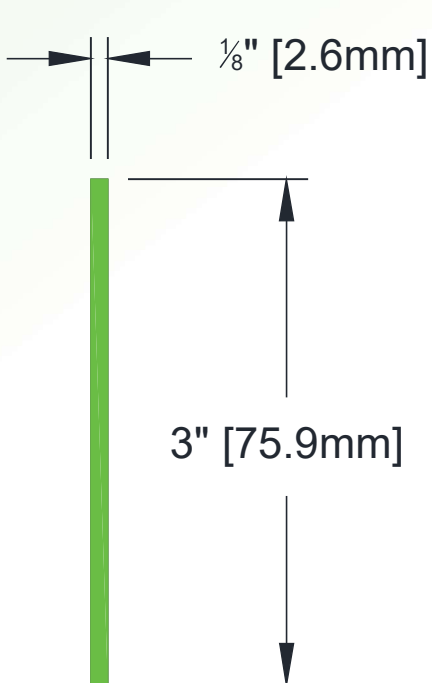
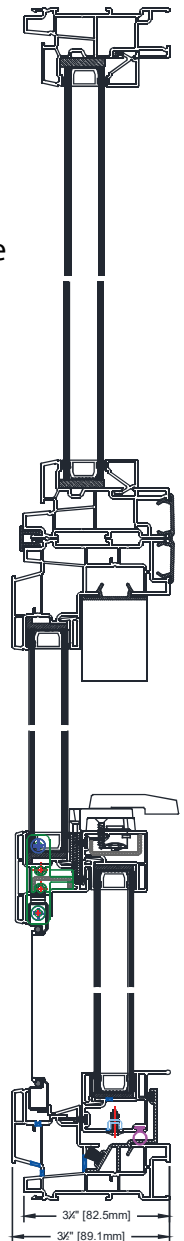
# Single Hung

## MULLED - COMBINATION

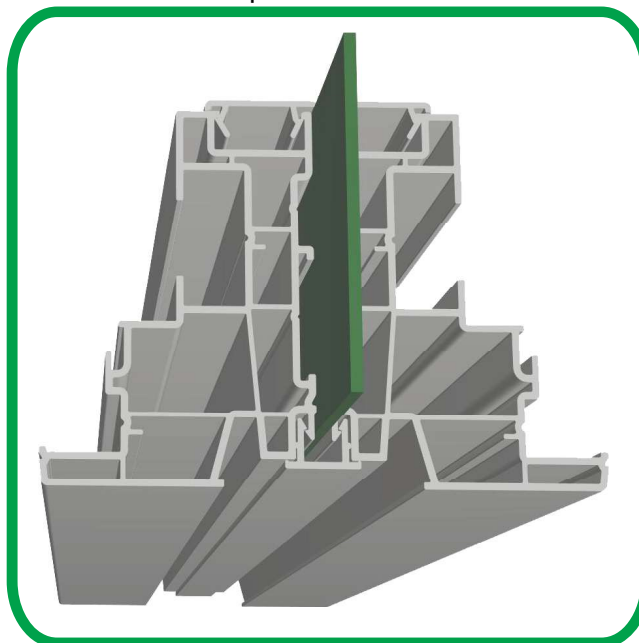
Common  
Configurations



Transom  
Fixed Picture  
over  
SH



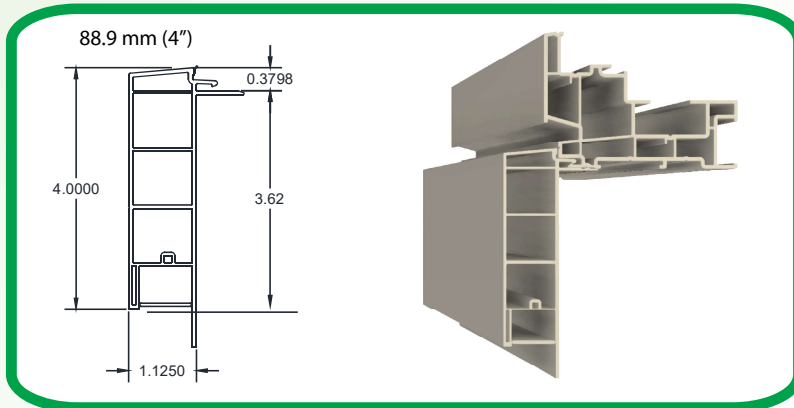
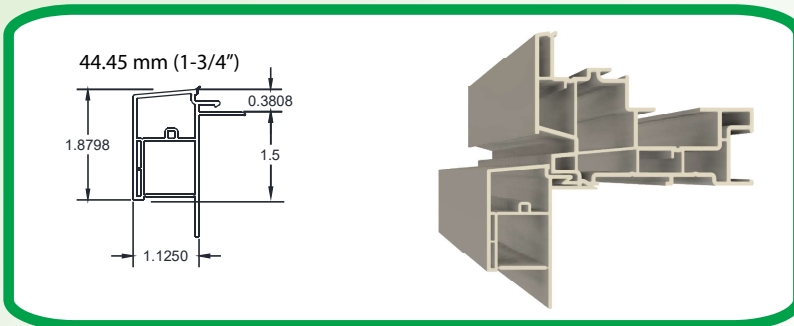
Reinforcement Option



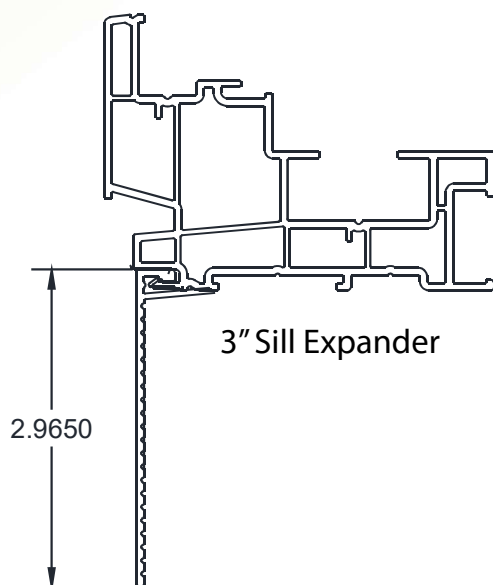
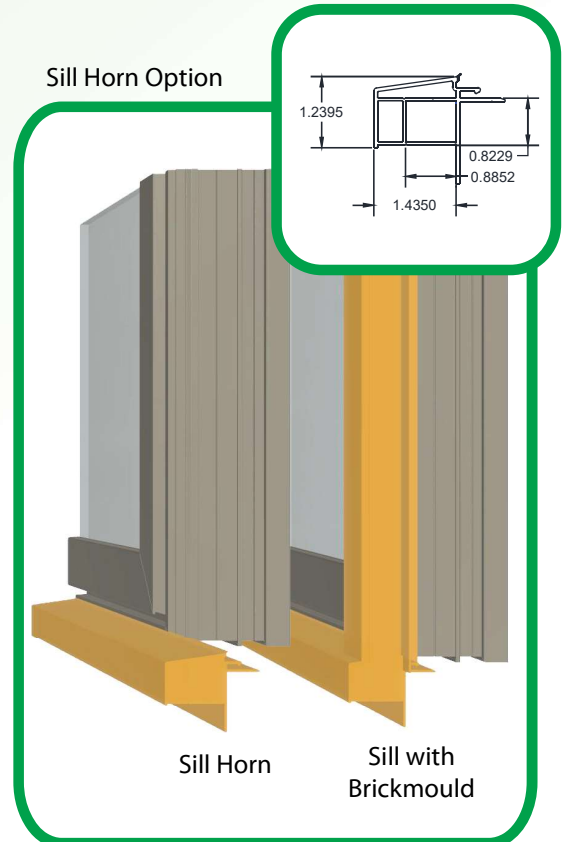
# Single Hung

## Brickmould Options

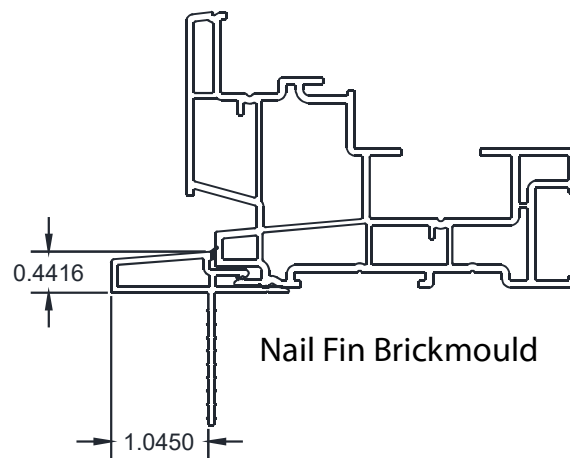
" 1-3/4" and 4" Options



Sill Horn Option



3" Sill Expander



Nail Fin Brickmould

## Single Hung

# NAFS

Based on the results of the testing summarised in Table 1, Global Windows and Doors, "1300 Series Single Hung" Window Unit, Exova Specimen No.: AI-04819-B1 met the following requirements as outlined in the NAFS - AAMA/WDMA/CSA 101/I.S.2/A440-08 and -11 "NAFS" with the Canadian Supplement A440S1-17 Window Standard:

## Size Tested

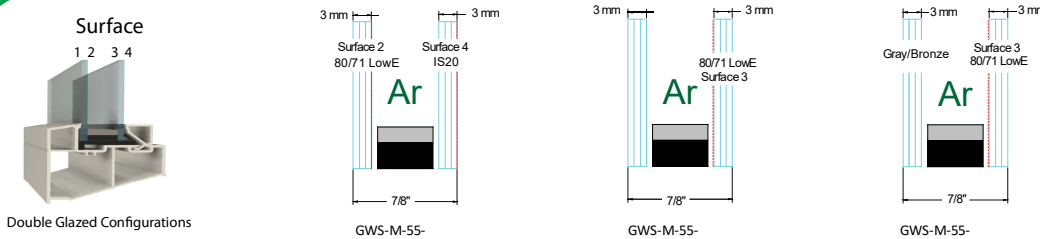
| SERIE #    | REPORT #    | DESCRIPTIONS | REINF. |   | DIM     | CSA |        | NAFS     |
|------------|-------------|--------------|--------|---|---------|-----|--------|----------|
|            |             |              | O      | N |         | AIR | WATER  | CLASS    |
| 1300 (3¼") |             |              |        |   |         |     |        |          |
| 1000       | AI-04819-B1 | Single Hung  |        | X | 40 X 63 | A3  | 720 Pa | R-PG50-H |

| TEST REPORT SUMMARY           |                                                                                                                                                                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product type                  | Single Hung Window                                                                                                                                                                                                                              |
| Product series/model          | C1000                                                                                                                                                                                                                                           |
| Primary product designator    | Class R – PG50 : Size tested 1015 x 1600 mm (~ 40 x 63 in) - Type H                                                                                                                                                                             |
| Optional secondary designator | Positive Design pressure (DP) = 2400 Pa (~50.13 psf)<br>Negative design pressure (DP) = -2400 Pa (~-50.13 psf)<br>Water penetration resistance test pressure = 720 Pa (~15.04 psf)<br>Canadian air infiltration / exfiltration level = A3 Level |
| Option                        | Without reinforcement                                                                                                                                                                                                                           |

See CLEB laboratory Inc. complete report AI-04819-B1 for test specimen description and detailed test results

# Single Hung

## Glazing Options



| ID        | Option Name                             | Overall Product |              |      |      |    |
|-----------|-----------------------------------------|-----------------|--------------|------|------|----|
|           |                                         | U Factor        |              | SHGC | VT   | ER |
|           |                                         | W/m2-K          | Btu/hr-ft2-F |      |      |    |
| GWS-M-55- | PVC_SH1300/3.25-3mm-Cl-Ar-8071          | 1.65            | 0.29         | 0.56 | 0.62 | 36 |
| GWS-M-55- | PVC_SH1300/3.25-3mm-Cl-Ar-8071-Grills   | 1.65            | 0.29         | 0.50 | 0.56 | 32 |
| GWS-M-55- | PVC_SH1300/3.25-3mm-8071-Ar-IS20        | 1.41            | 0.25         | 0.51 | 0.61 | 38 |
| GWS-M-55- | PVC_SH1300/3.25-3mm-8071-Ar-IS20-Grills | 1.41            | 0.25         | 0.45 | 0.54 | 35 |
| GWS-M-55- | PVC_SH1300/3.25-3mm-Gr-Ar-8071          | 1.65            | 0.29         | 0.41 | 0.43 | 27 |
| GWS-M-55- | PVC_SH1300/3.25-3mm-Gr-Ar-8071-Grills   | 1.65            | 0.29         | 0.37 | 0.38 | 25 |
| GWS-M-55- | PVC_SH1300/3.25-3mm-Br-Ar-8071          | 1.65            | 0.29         | 0.43 | 0.47 | 28 |
| GWS-M-55- | PVC_SH1300/3.25-3mm-Br-Ar-8071-Grills   | 1.65            | 0.29         | 0.39 | 0.42 | 26 |

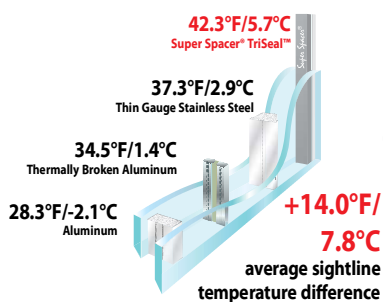
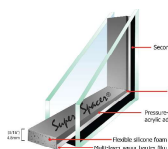
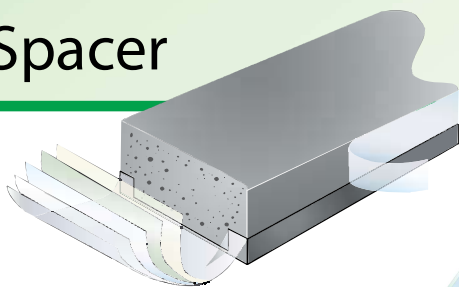
ENERGY STAR® Certified in Canada  
Certifié ENERGY STAR au Canada



**Canada**  
energystar.gc.ca

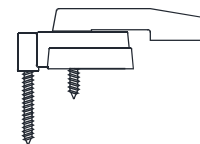
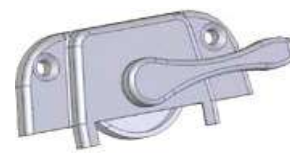
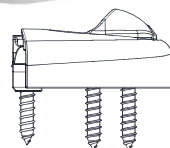
## Single Hung

### Spacer



### Lock Option

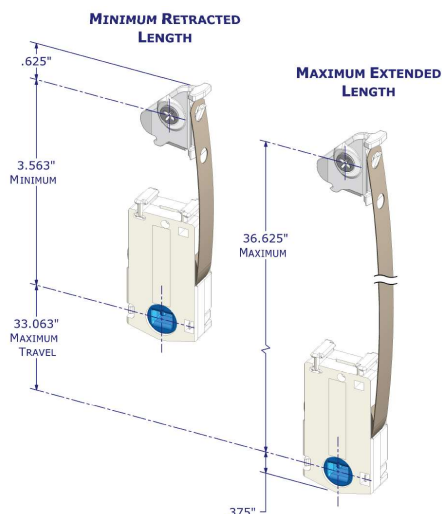
#### Optional TRU-Latch



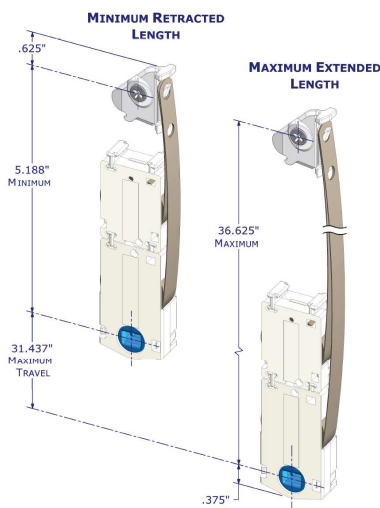
### Tilt Roller

#### Travel Characteristics

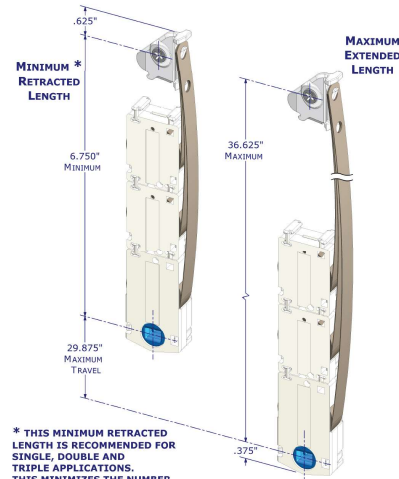
#### Single Case



#### Double Case



#### Triple Case

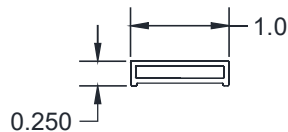
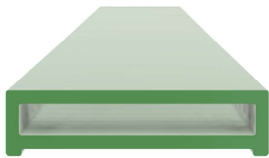


## Single Hung

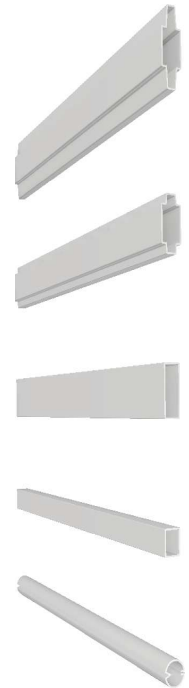
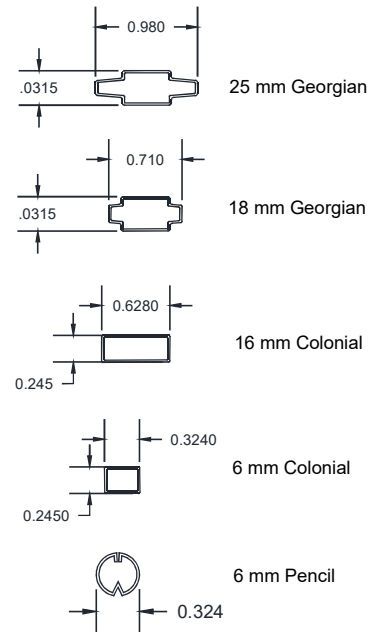
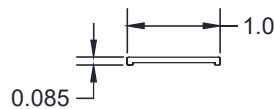
### SDL Options

### Grill Options

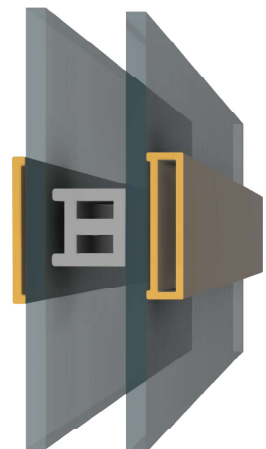
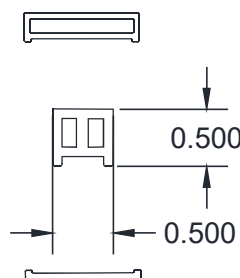
Interior



Exterior



Heritage  
(internal)



## Single Hung

### NBCC 9.9 Compliant

#### Specification/Standards - built in accordance with:

##### Canadian General Standards Board (CGSB)

- .1 CAN/CGSB-12.1-M90 - Tempered or Laminated Safety Glass.
- .2 CAN/CGSB-12.2-M91 - Flat, Clear Sheet Glass.
- .3 CAN/CGSB-12.3-M91 - Flat, Clear Float Glass.
- .4 CAN/CGSB-12.8-M90 - Insulating Glass Units.

##### Canadian Standards Association (CSA)

- .1 AAMA/WDMA/CSA 101/I.S.2/A440-[08][11] - NAFS - North American Fenestration Standard / Specification for Windows, Doors, and Skylights; including A440S1-17 - Canadian Supplement.
- .2 AAMA/NWWDA 101/I.S. 2-97, Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.

##### Insulating Glass Manufacturers Alliance (IGMA)

- .1 IGMAC Certification Program for manufacturers of insulating glass units.

##### National Fenestration Rating Council (NFRC)

- .1 ANSI/NFRC 100 – Procedure for Determining Fenestration Product U-Factors.
- .2 ANSI/NFRC 200 – Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence.
- .3 NFRC 500 – Procedure for Determining Fenestration Product Condensation Resistance Values.

