Awning

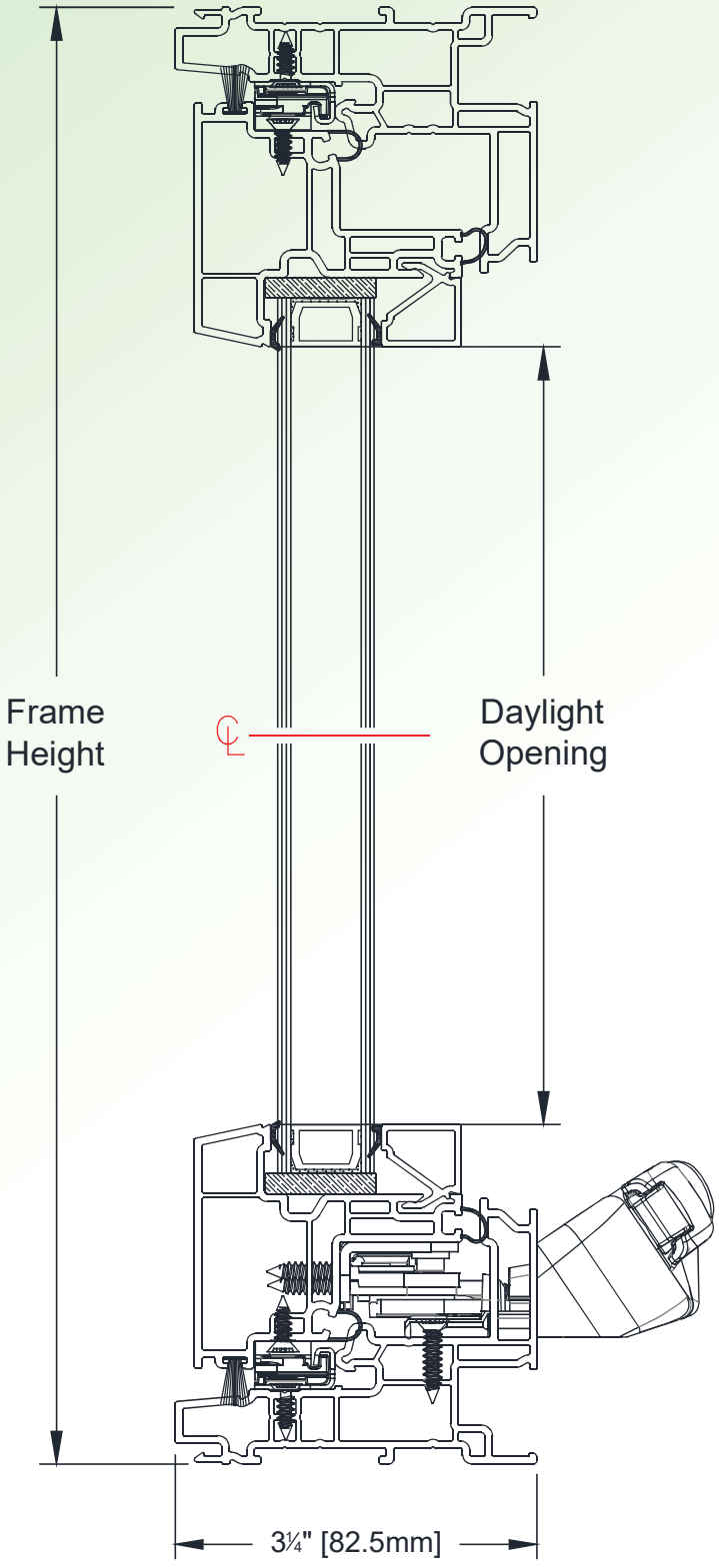
Global Windows and Doors manufactured products are structurally tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-08 and -11 'NAFS' with the A440S1-09 Canadian Supplement. And energy performance tested in accordance with ANSI/NFRC 100, NFRC 200 and NFRC 500 as determined by the NFRC Standards accreditation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

This energy efficient side hinged, outward projecting to a full 90 degree Awning style window, complete with a finished geared ratio folding crank for ease of operation was conceptualized at Global Windows and Doors with durability and performance as our primary engineering design criteria while exceeding Building Code of Canada and regional building code standards.

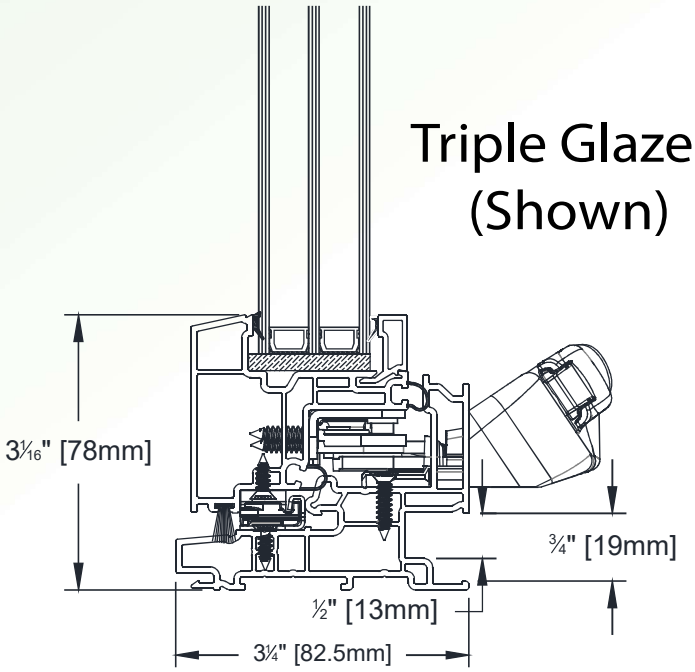
3400
5-3/4" Incorporated
Brickmould Frame

3300
4-3/8" Incorporated
BrickmouldFrame

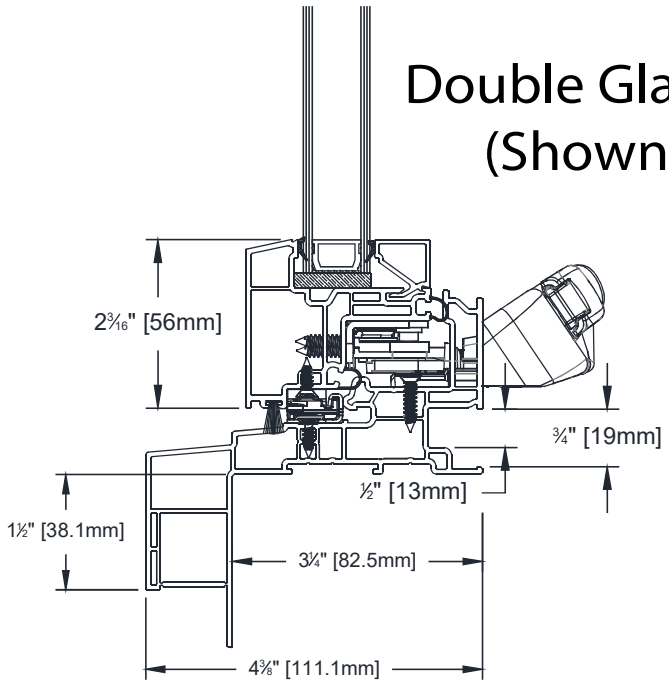
Awning 3-1/4" (3300)



Triple Glazed (Shown)

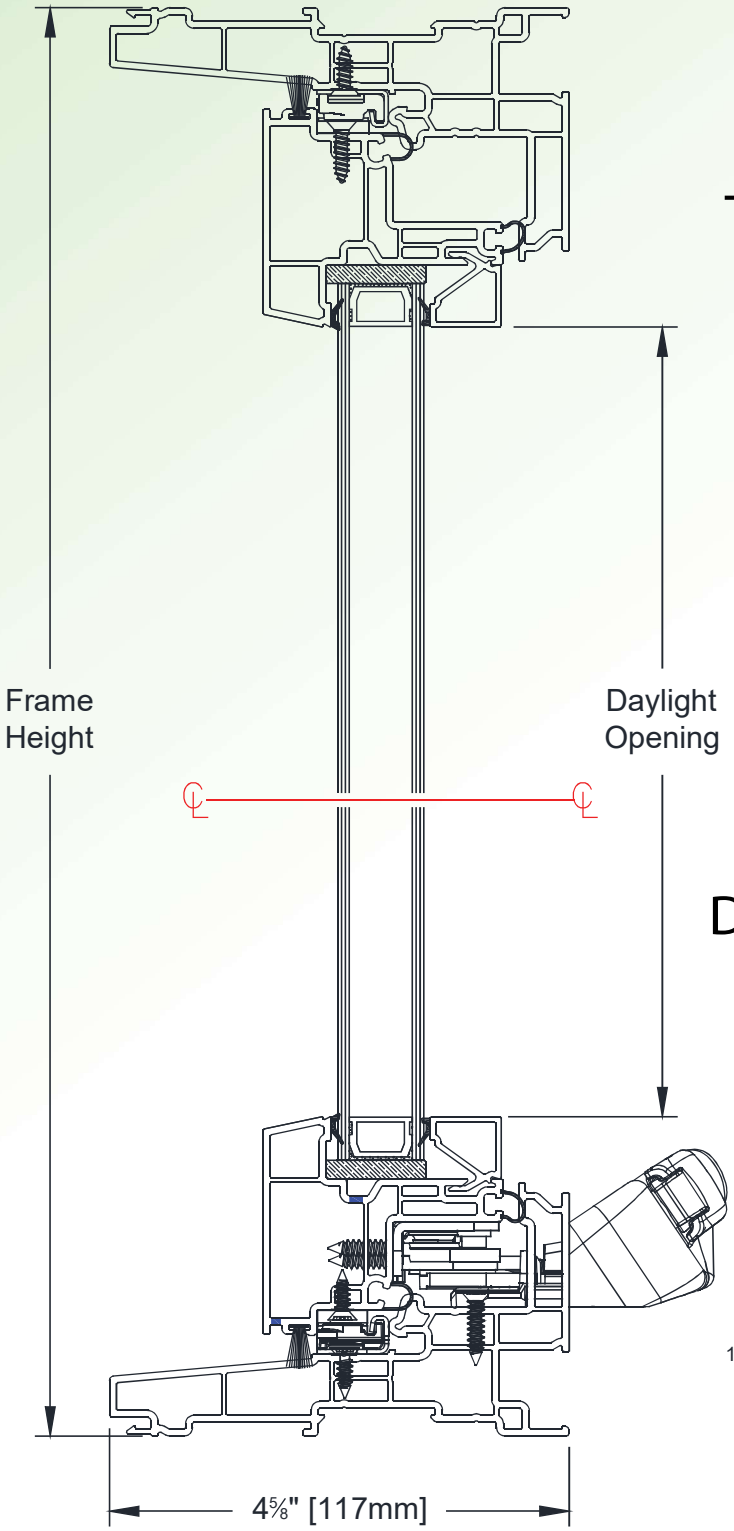


Double Glazed (Shown)

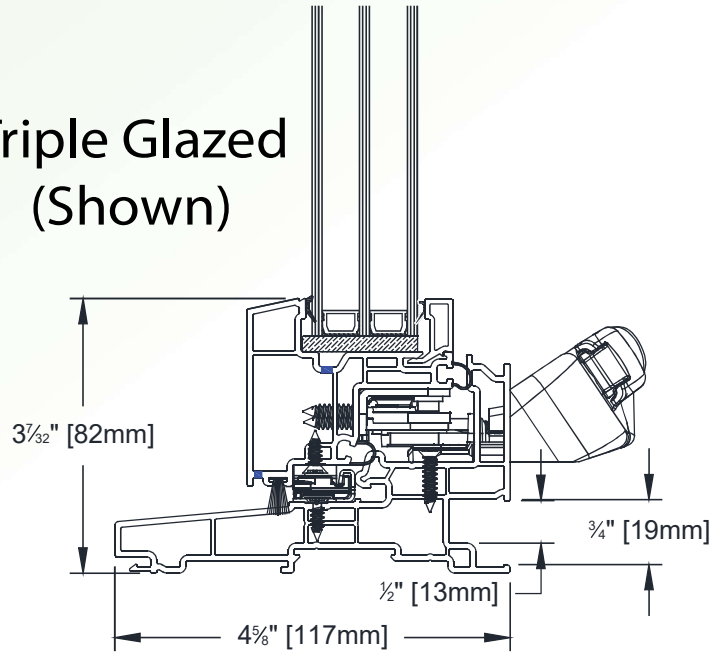


Brickmould Option

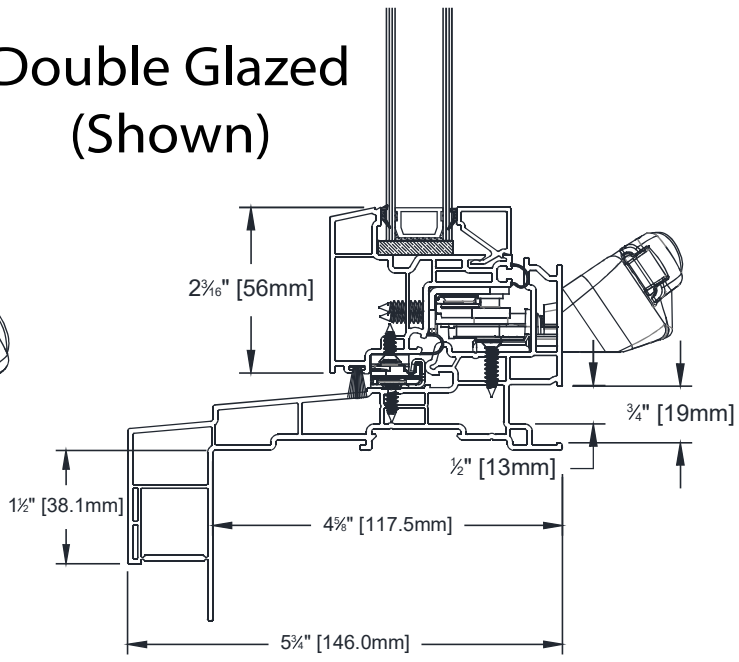
Awning 4-5/8" (3400)



Triple Glazed (Shown)

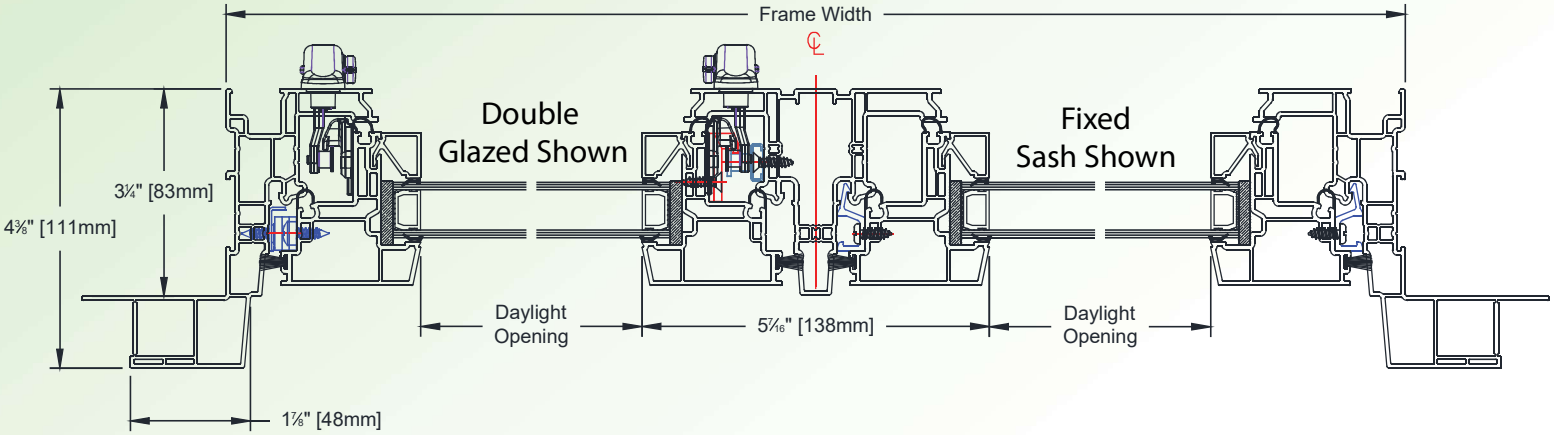


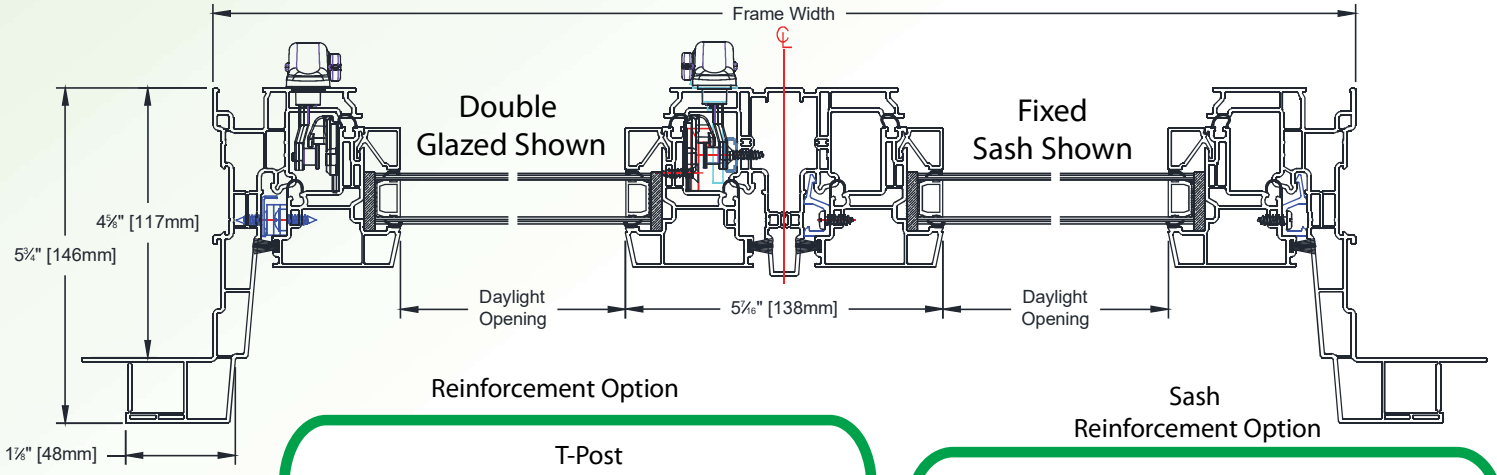
Double Glazed (Shown)



Brickmould Option

Awning



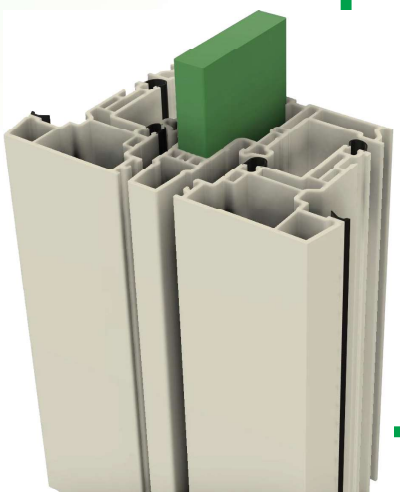


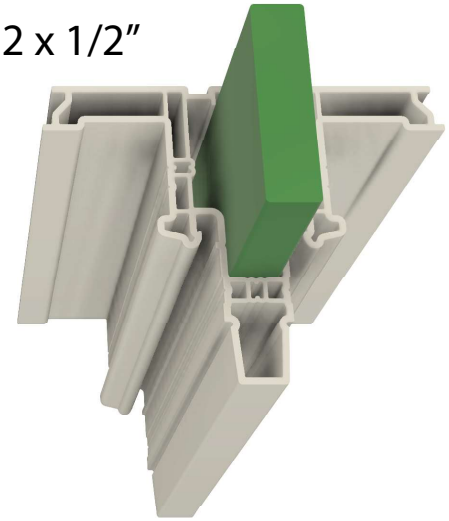
Reinforcement Option

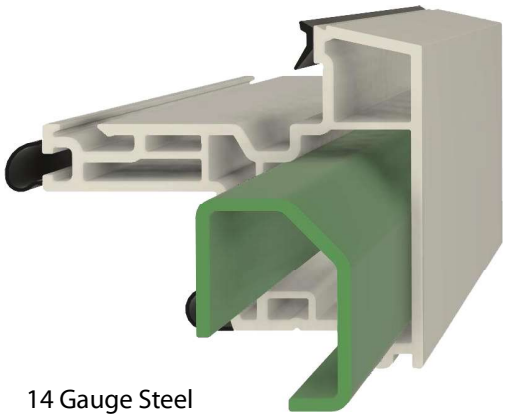
Sash Reinforcement Option

T-Post Reinforcement Option

2 x 1/2"



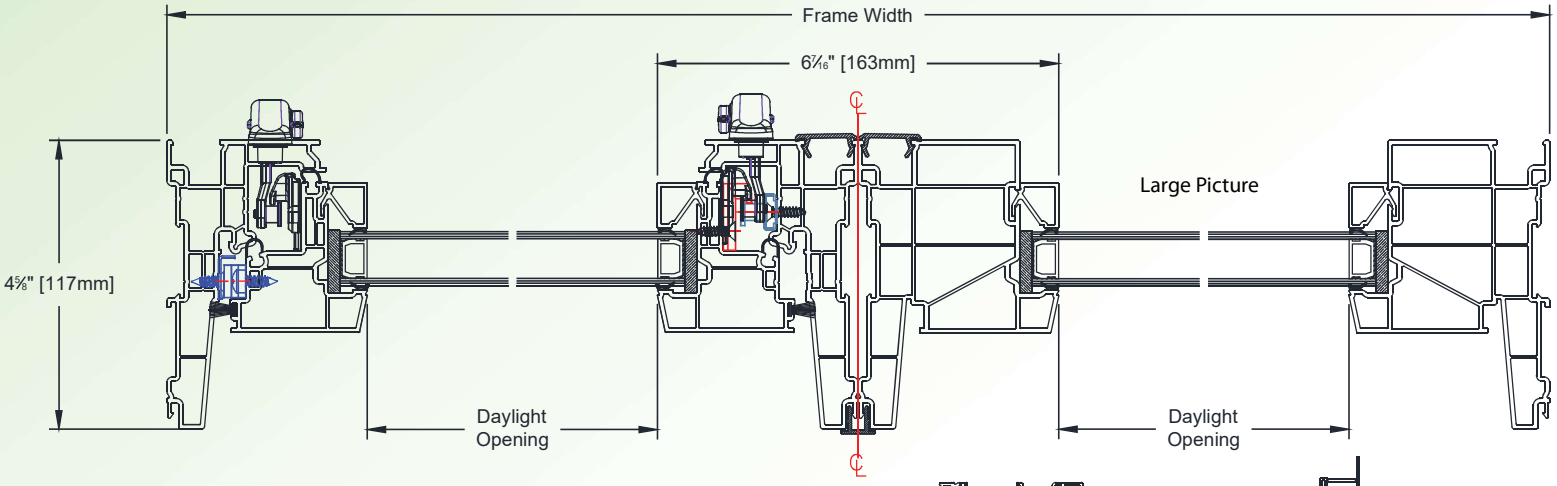


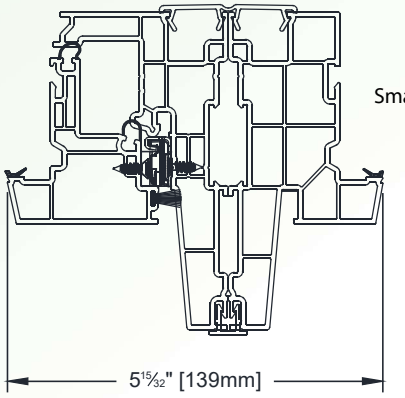


14 Gauge Steel

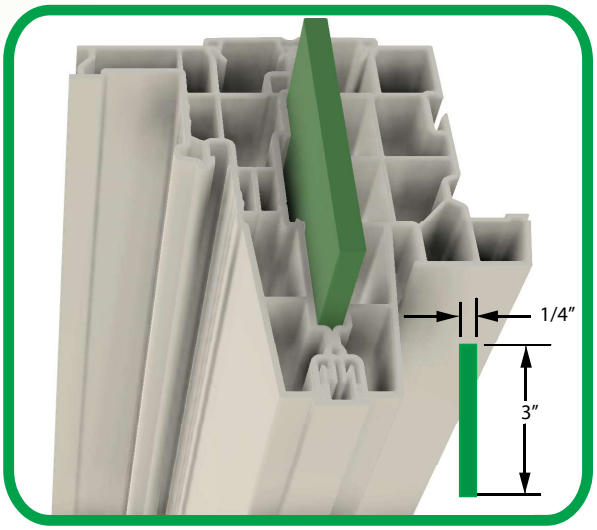
Awning

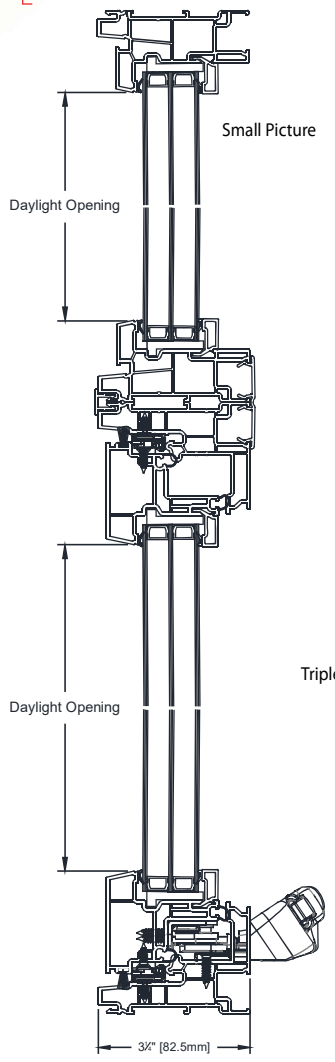
Mulled Combination

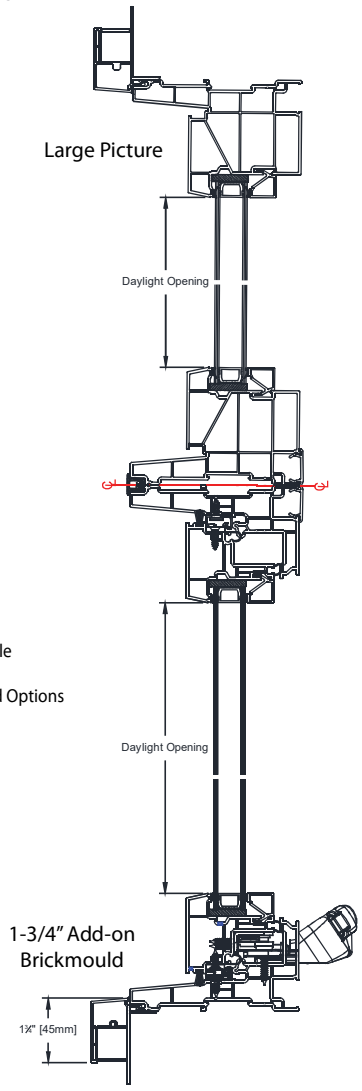




Reinforcement Option







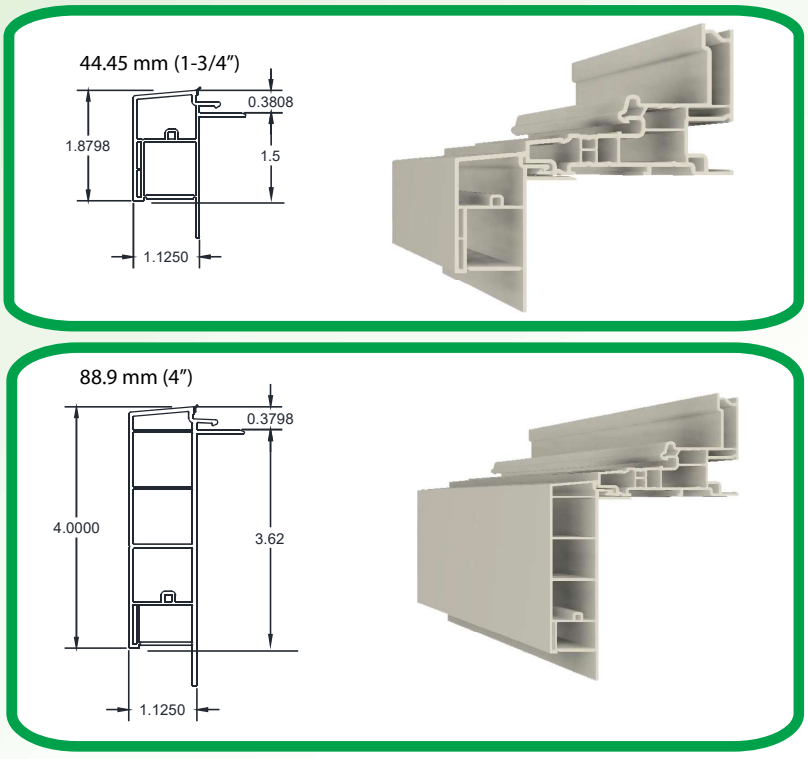
Double
and
Triple Glazed Options

1-3/4" Add-on
Brickmould

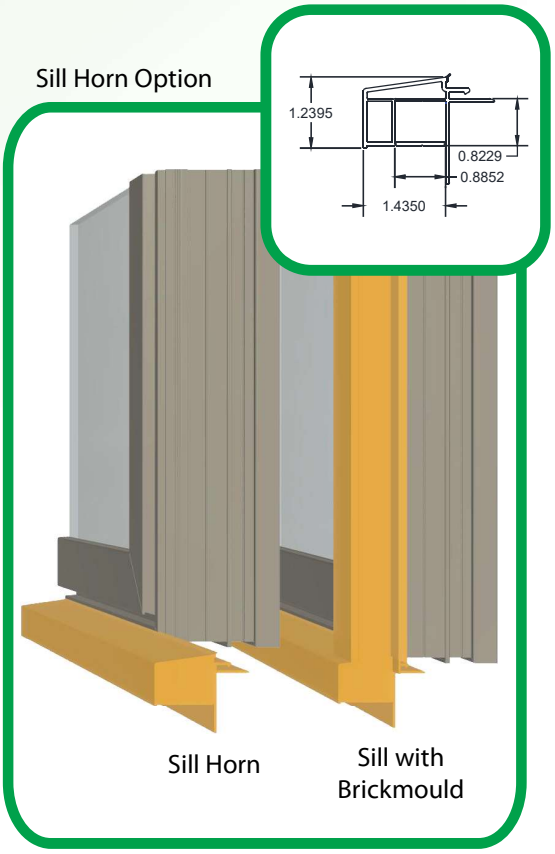
Awning

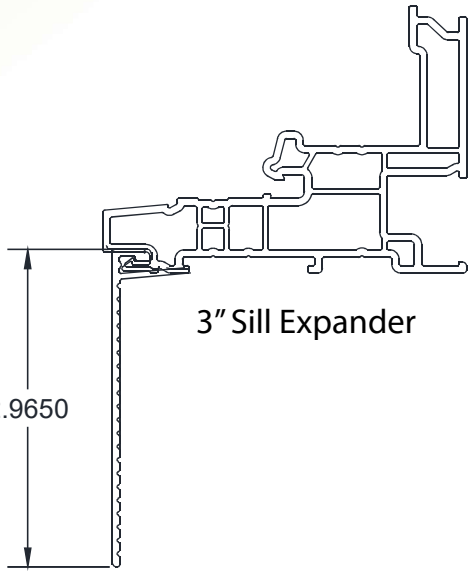
Brickmould Options

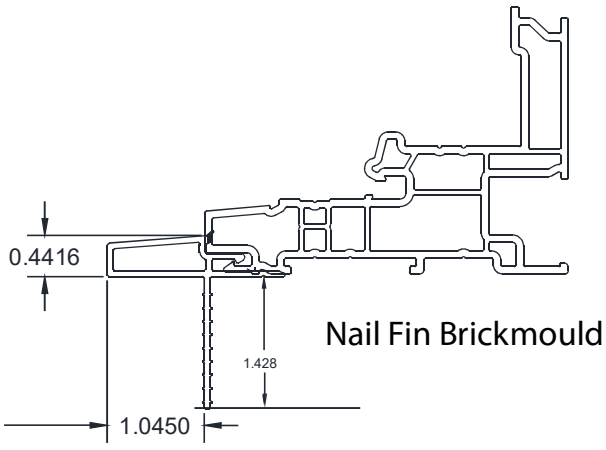
" 1-3/4" and 4" Options



Sill Horn Option







Awning

NAFS

Based on the results of the testing summarized in Table 1, Global Windows and Doors, "3300/3400 Series Awning" Window Unit, Exova Specimen No.: 13-06-M0432-2 met the following requirements as outlined in the NAFS - AAMA/WDMA/CSA 101/I.S.2/A440-08 and -11 "NAFS" with the Canadian Suppliment A440S1-09 Window Standard:

Sizes Tested

SERIE #	REPORT #	DESCRIPTIONS	REINF.		DIM	CSA		NAFS
			Y	N		AIR	WATER	CLASS
3000 (3¼'')								
3000	AI-04878-B1	Fixed window (architectural)		X	78 x 72	FIXED	720 Pa	CW-PG60-FW
3000 (4⅝'')								
3000	13-06-M0432-2	Awning window		X	48 X 32	A3	730 Pa	LC-PG70-AP
3000	AI-04196-F2	Awning window		X	60 x 24	A3	730 Pa	R-CP45-AP

Reference: Test Report 13-06-M0432-2
Primary product designator:
Optional Secondary designator:

(Non-reinforced)

Class LC-PG70-C size tested 1,200 x 802 mm (48 x 32")
Positive Design Pressure (DP) = 3,360 Pa (70.0 Psf)
Negative Design Pressure (DP) = -3,360 Pa (-70.0 Psf)
Water Penetration Resistance = 730Pa (15.0 Psf)
Air Leakage Resistance = A3 Level Canadian

Reference: Test Report AI-04196-F2
Primary product designator:
Optional Secondary designator:

(Non-reinforced)

Class R-PG45-AP size tested 1525 x 610 mm (60 x 24")
Positive Design Pressure (DP) = 2,160 Pa (45.0 Psf)
Negative Design Pressure (DP) = -2,160 Pa (-45.0 Psf)
Water Penetration Resistance = 730Pa (15.0 Psf)
Air Leakage Resistance = A3 Level Canadian

Fixed (Sash) Casement

Reference: Test Report AI-04878-B1
Primary product designator:
Optional Secondary designator:

(Non-Reinforced)

Class CW-PG60-FW size tested 1,981 x 1,828 mm (78 x 72")
Positive Design Pressure (DP) = 2,880 Pa (60.15 Psf)
Negative Design Pressure (DP) = -2,880 Pa (-60.15 Psf)
Water Penetration Resistance = 720 Pa (15.0 Psf)
Air Leakage Resistance = FIXED

Awning

NFRC SIMULATION IN ACCORDANCE WITH
ANSI/NFRC 100, ANSI/NFRC 200 AND NFRC 500

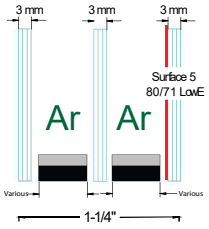
Our IG's are Hermetically sealed, using Guardian Float Clear and ClimaGuard 80/71, 70/36 and IS 20 LowE insulating glass with minimum 90% plus Argon and/or Krypton gas fill. Combined with a primary seal made of pressure sensitive acrylic adhesive Super Spacer® Premium warm edge high performance silicone with integrally incorporated desiccant. Our perimeter Secondary seal is made of Butyl Hotmelt all tested and IGMAC Certified (cert. No. 021141G) in accordance with CAN/CGSB 12.8 Standard.

Glazing Options

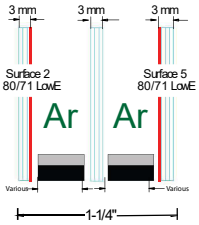
Ar = Argon 39.95 Kr = Krypton 84.80

Surface 1 2 3 4 5 6

Triple Glazed Configurations



GWS-M-55-



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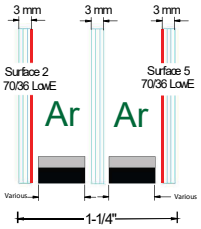
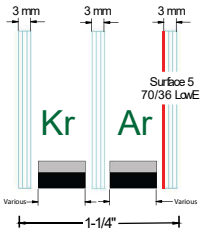
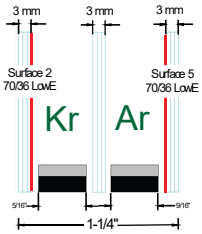


GWS-M-55-



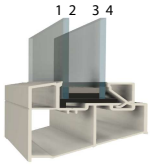
GWS-M-55-



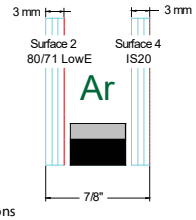
GWS-M-55-

NRCan Searchable Product List	Option Name	Insulating Glass Unit		Overall Product					
		Glazing Layers	Grid	U Factor W/m2-K	U Factor Btu/hr-ft2-F	SHGC	VT	CR	Energy Rating
GWS-M-54-	SP_3mm_8070#2-Arg90-ClrGuard-Arg90-8070#5	3	N	1.08	0.19	0.38	0.48		37
GWS-M-54-	SP_3mm_8070#2-Arg90-ClrGuard-Arg90-8070#5_Georgian8x18_Cover	3	G	1.1	0.19	0.35	0.43		35
GWS-M-54-	SP_3mm_7036#2-Arg90-ClrGuard-Arg90-7036#5	3	N	1.02	0.18	0.22	0.36		29
GWS-M-54-	SP_3mm_7036#2-Arg90-ClrGuard-Arg90-7036#5_Georgian8x18_Cover	3	G	1.04	0.18	0.20	0.32		28
				NRCan Most Efficient					
				Meets NRCan Certification					

Surface 1 2 3 4



Double Glazed Configurations



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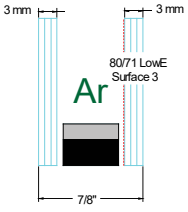

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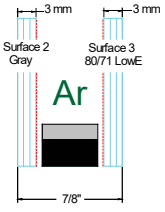


GWS-M-55-

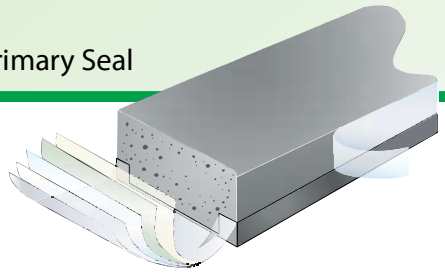
ENERGY STAR® Certified in Canada
Certifié ENERGY STAR au Canada

ENERGY STAR Canada
energystar.gc.ca

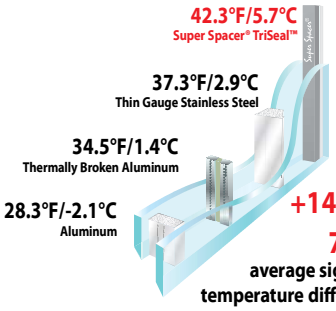
NRCan Searchable Product List	Option Name	Insulating Glass Unit		Overall Product					
		Glazing Layers	Grid	U Factor W/m2-K	U Factor Btu/hr-ft2-F	SHGC	VT	CR	Energy Rating
GWS-M-54-	SP_3mm_ClrGuard-Arg90-8070#3	2	N	1.58	0.28	0.46	0.53		32
GWS-M-54-	SP_3mm_ClrGuard-Arg90-8070#3_Georgian8x18_Cover	2	G	1.58	0.28	0.42	0.48		30
GWS-M-54-	SP_3mm_ClrGuard-Arg90-8070#3_Rectangular	2	G	1.58	0.28	0.42	0.48		30

Awning

Primary Seal



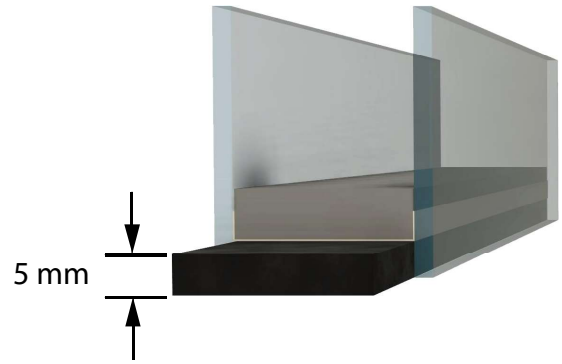
Quanex Super Spacer



Improves Glass Surface Temperature

Secondary Seal

H.B. Fuller HL5130-149 Hotmelt butyl provides excellent adhesion to glass and resistance to moisture vapor for long term IG performance.



Code Compliant Child Safety Window Restrictor

Maximum Opening

4" (101.6 mm)

Screens:

Rigid aluminum overlap bar frame assembled with PVC corners. Screen removable from interior. 16 x 18 Mesh Fibreglass screen cloth.

Paint:

This High Performance Paint system is designed for rigid uPVC and and Aluminum and is offered in a wide variety of colors that can be formulated to meet customers specifications. This paint features superior abrasion and chalking resistance as well as excellent protection from salt exposure, industrial pollutants and acts as an efficient heat barrier that prevents substrates from warping.

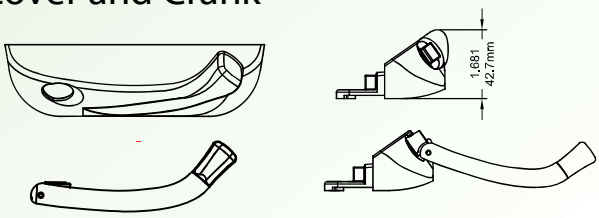
Awning

ACME Window Hardware

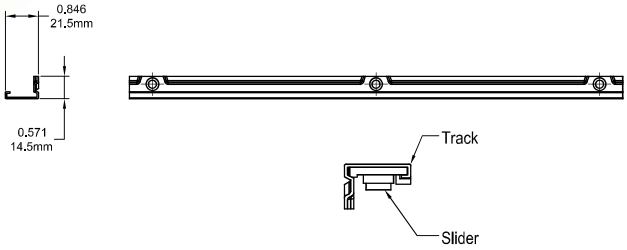
Option: A, pg. 1

Dual Arm Awning Operator

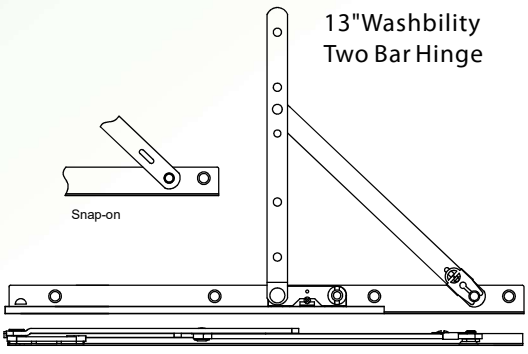
Cover and Crank

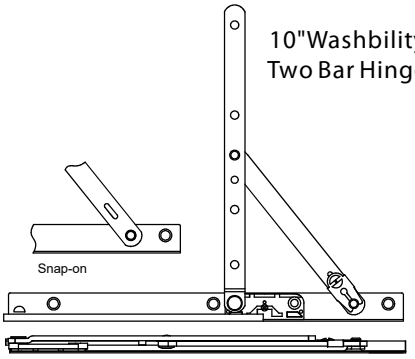


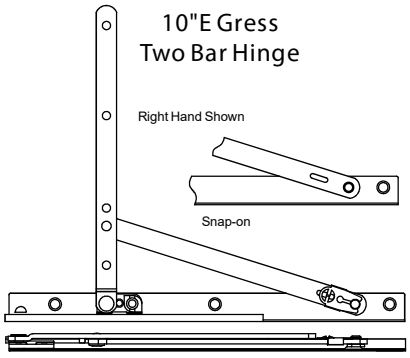
Track



Standard Options SST



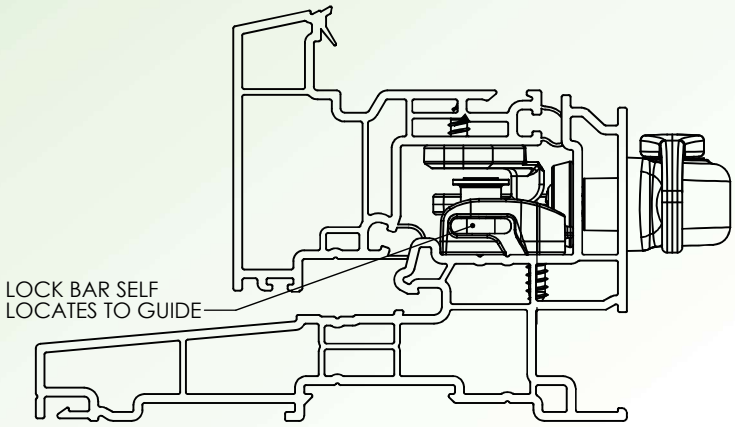




Full Complies with the performance requirements outlined in AAMA 904-09 with a rating of:
- C Commercial
- 56.0 kg (130 lbs) Weight Rating

Awning

Option: A, pg. 2



OPERATOR MODEL		AAMA 901	AAMA 907
Operators	(132635R1)	PASS	PASS

The specimens were evaluated in accordance with the following:

AAMA 901-16, *Voluntary Specifications for Rotary & Linear Operators in Window Applications*

AAMA 907-15, *Voluntary Specifications for Corrosion Resistant Coating on Carbon Steel Components*

ASTM E405-04 (Reapproved 2018), *Standard Test Methods for Wear Testing of Rotary Operators for Windows*

Awning Option: B Heavy Duty, pg. 1

NOVA® Awning Family

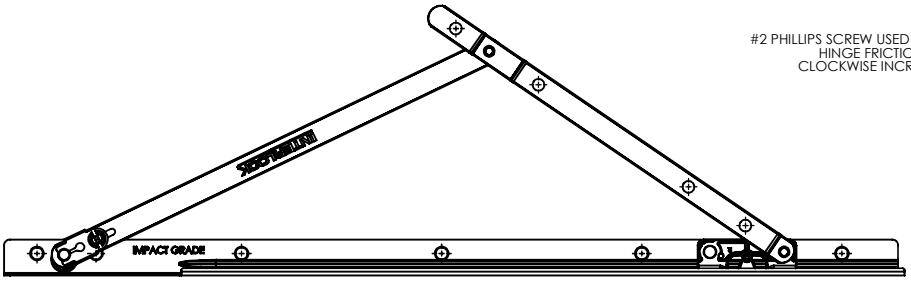
INTERLOCK ASSA ABLOY

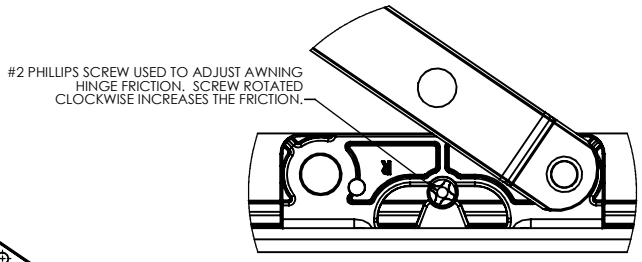
NOVA® Awning Operator

- All NOVA® operators pass cycle testing for **Architectural Grade 40** with a minimum factor of safety of 2 (16K+ cycles)
  - highest industry rating
- All powder coated parts are pretreated with zinc chromate and UV resistant powder coating surpassing 750 hours Neutral Salt Spray resistance
- External connecting points are 304 stainless steel for maximum Neutral Salt Spray resistance
- Ability to achieve 5 lbs operational force on sash weights of up to 125 lbs

NOVA® Awning Hinge

- 18" NOVA® Awning Hinges for Awnings above 24". 10" Hinges for Awnings between 12 and 24"
- Awning hinge features friction adjustment to eliminate sash chatter
- Unique slide shoe positioning detent allows for faster sash to frame assembly time reducing manufacturing costs
- Simple snap-on spring clip design for quick and easy window assembly
- All pivot points use a non-corrosive material for superior corrosion resistance
- Arm assemblies are available in a 304 stainless steel option





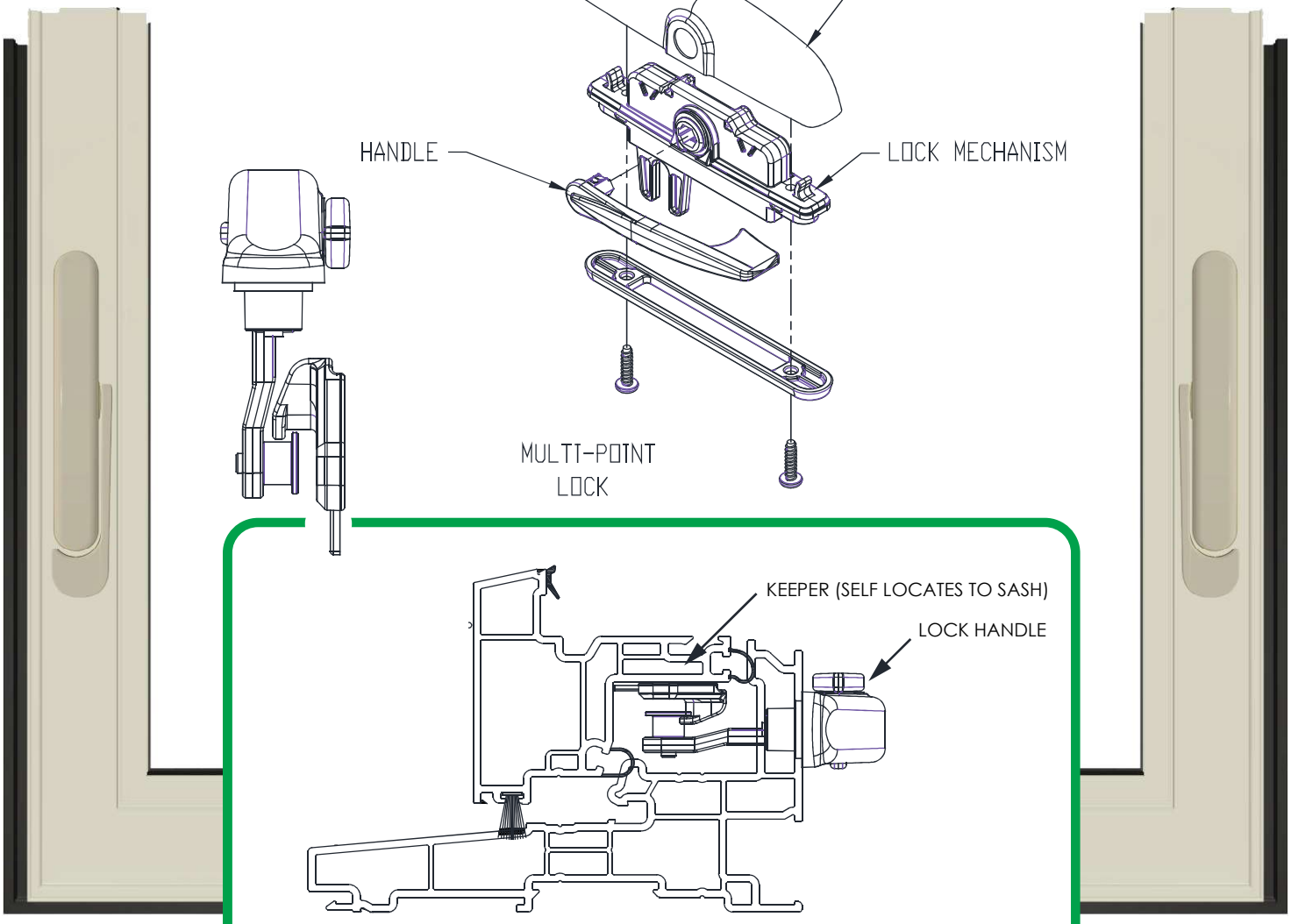
Awning

Option: B Heavy Duty, pg. 2

NOVA® LOCKING Handle

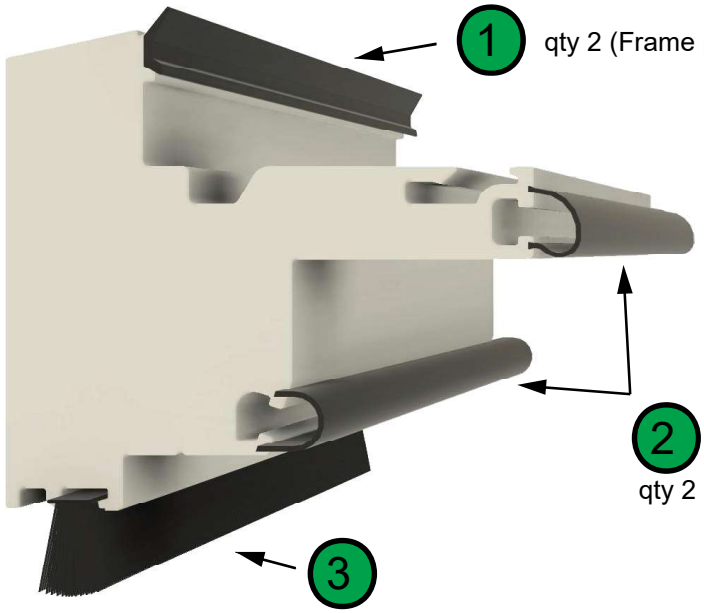
- Super low profile with only 8 mm projection
- Handle retainer features brush gasket to provide insect barrier
- Available in powder coat and architectural finishes

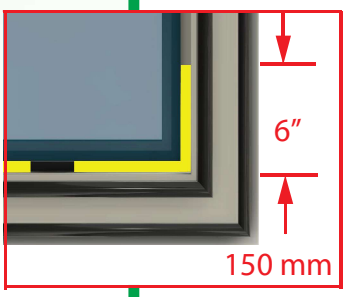
NOVA® Awning Locking Handles



Awning

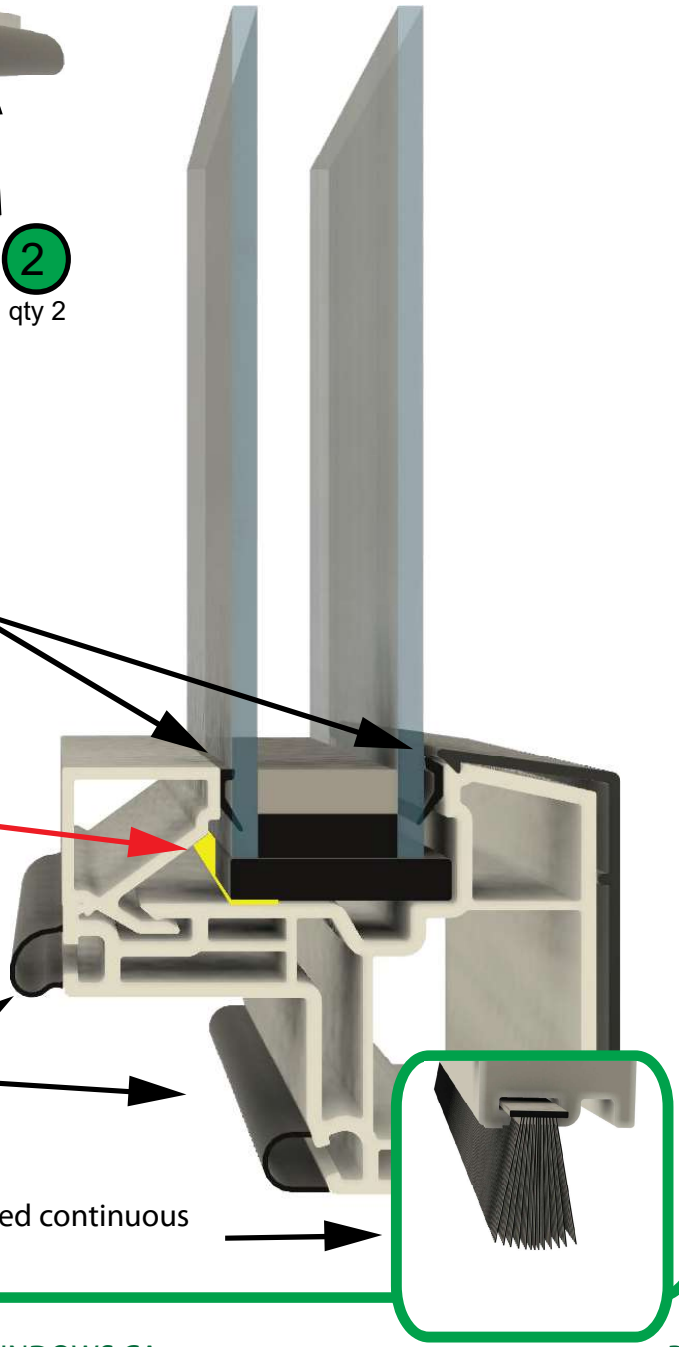
Weatherstrip - Sealing





1 Primary non-apparent coextruded tension linear seal on both sides of glazing.

Tertiary high quality ASTM C 1184 compliant Structural Silicone Sealant Back-bead across the bottom and at least 150 mm up each side.



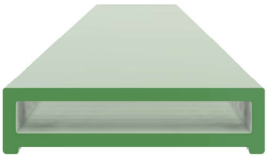
2 Double Interior coextruded compression bulb seals.

3 T-Slot mount extruded continuous at corners fibre pile.

Awning

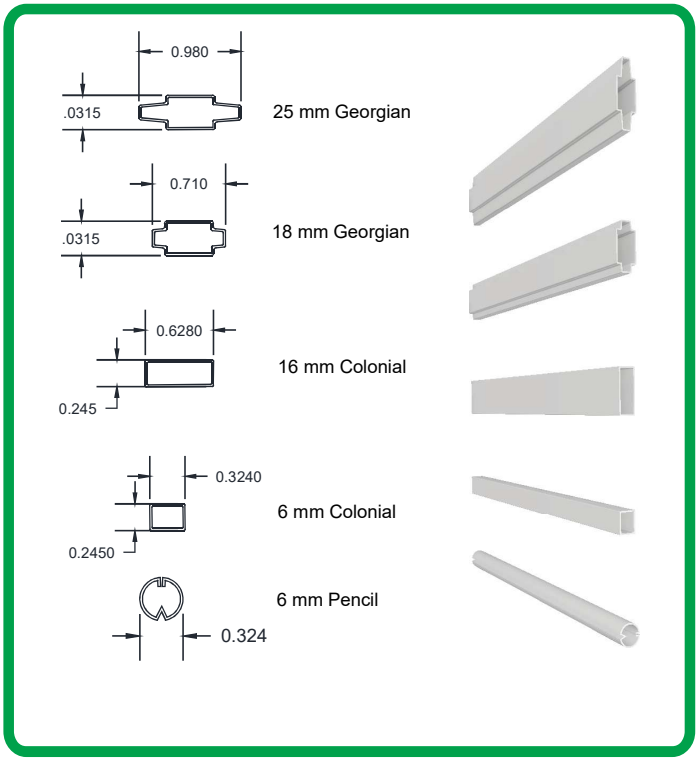
SDL Options

Interior

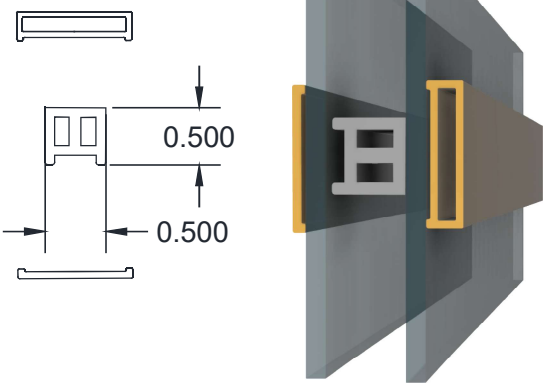


Exterior

Grill Options



Heritage (internal)



Awning

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 A440S1-09 - 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 Transmissionat Normal Incidence.

.3 NFRC 500 – Procedure for Determining Fenestration Product Condensation Resistance Values.