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700 DOUBLE HUNG WINDOW SYSTEM

TECHNICAL INFORMATION

PROFILE PRINT

NFRC Testing
DOUBLE HUNG

3mm Cl - Argon - 3mm E272

U-Factor - 0.29
SHGC - 0.28
VT - 0.48
Con. Res. - 0.57

3mm Cl - Argon - 3mm E366

U-Factor - 0.28
SHGC - 0.19
VT - 0.43
Con. Res. - 57

3mm E272 - Argon - 3mm Cl - Argon - 3mm 272

U-Factor - 0.21
SHGC - 0.24
VT - 0.42
Con. Res. - 69

3mm E366 - Argon - 3mm Cl - Argon - 3mm Cl

U-Factor - 0.26
SHGC - 0.18
VT - 0.39
Con. Res. - 65

6mm - Argon - 6mm

STC - 34
OITC - 29

Performance Double Hung

SPECIFICATION: AAMA/WDMA/CSA 101/I.S.2/A440-08, NAFS

Report Number : C3077.01-109-47

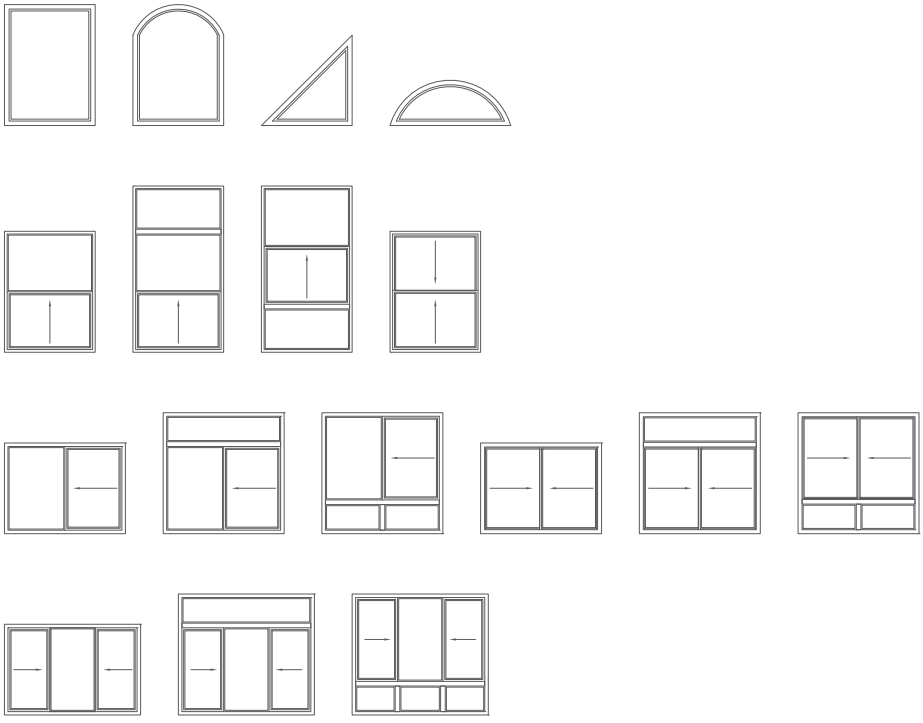
— Thermal Insulation - U-factor down up to 0.21
— SHGC - up to 0.18
— Acoustic Insulation - STC - 0.34, OITC - 0.29
— Primary Product Designator - Class R-PG60 1118 x 1600 (44 x 63)-H
— Design Pressure - +2880 Pa (+60.15 psf)
— Air Infiltration - 0.6 L/s/m2 (0.12 cfm/ft2)
— Canadian Air Filtration / Exfiltration Level - A2
— Water Penetration Resistance Test Pressure - 510 Pa (10.65 psf)

700 DOUBLE HUNG
WINDOW SYSTEM
SYSTEM DESCRIPTION

Description, Technical Data

Window Types	Fixed, Single-Hung, Single-Slider, Double-Hung, Double-Slider
Material	Ca/Zn and lead-free RAU-PVC
Sealing System	Weatherpile, roil-in glazing spline, flexible co-extrusions
System Depth	3 1/4 in (82.5 mm)
Maximum Glass Thickness	1 in (25.4 mm)
Glazing System	Tape-Glazed
Sightlines Frame / Sash	2.2 in to 3.4 in (56 mm to 86 mm)
U-values	Down to 0.14 (Btu/hr-ft²°F);
Structural Tests	Fixed: up to design pressures of 70 psf;
	Single-Hung: up to design pressures of 70 psf;
	Single-Slider: up to design pressures of 55 psf;
	Double-Hung: up to design pressures of 70 psf;
	Double-Slider: up to design pressures of 60 psf;
Sound Reduction	Up to STC 39

Examples of Opening Types



700 DOUBLE HUNG
SYSTEM DESCRIPTION

Features and Benefits for Double-Hung Windows

1 Large-scale capacity for steel reinforcements
Meet structural performance requirements for most applications

2 7/8 in (22 mm) and 1 in (25 mm) insulated glass
Provides excellent acoustical and energy performance properties to meet current standards

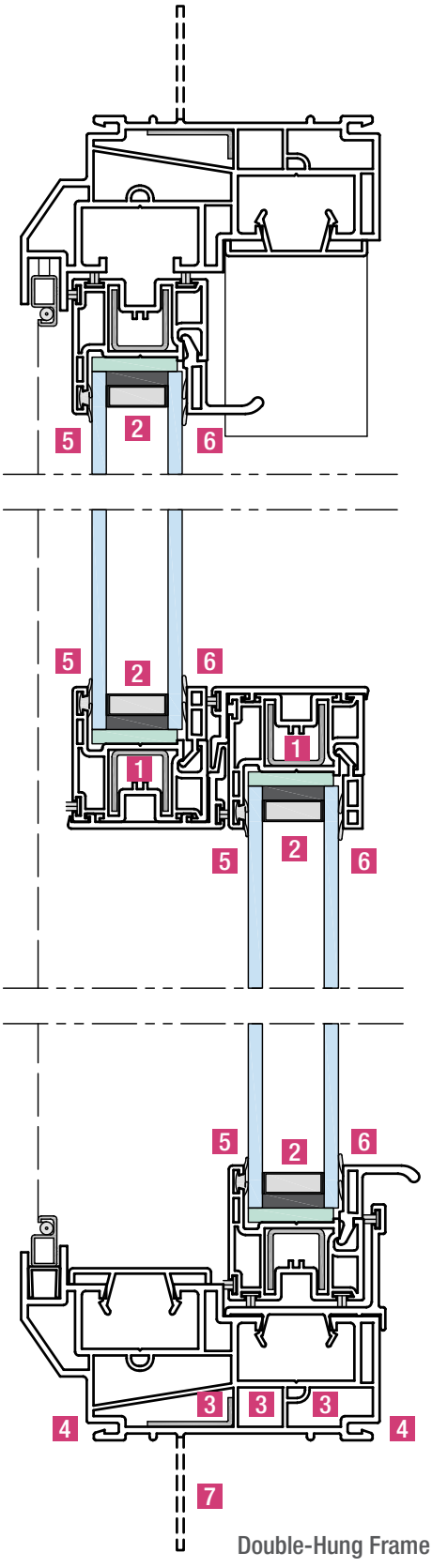
3 Main profiles engineered with multiple chambers
Increase strength, enhance energy performance and allow efficient water drainage

4 3 1/4 in (82.5 mm) frame depth with internal / external accessory grooves
Suits a wide range of installation applications by using supplementary profiles for trims, mulling options and unique wall construction

5 Dry glazing
Reduces costs and eases glass replacement by not requiring tapes or sealants

6 Internally glazed on double-hung windows
Enables easy glass replacement from inside the structure

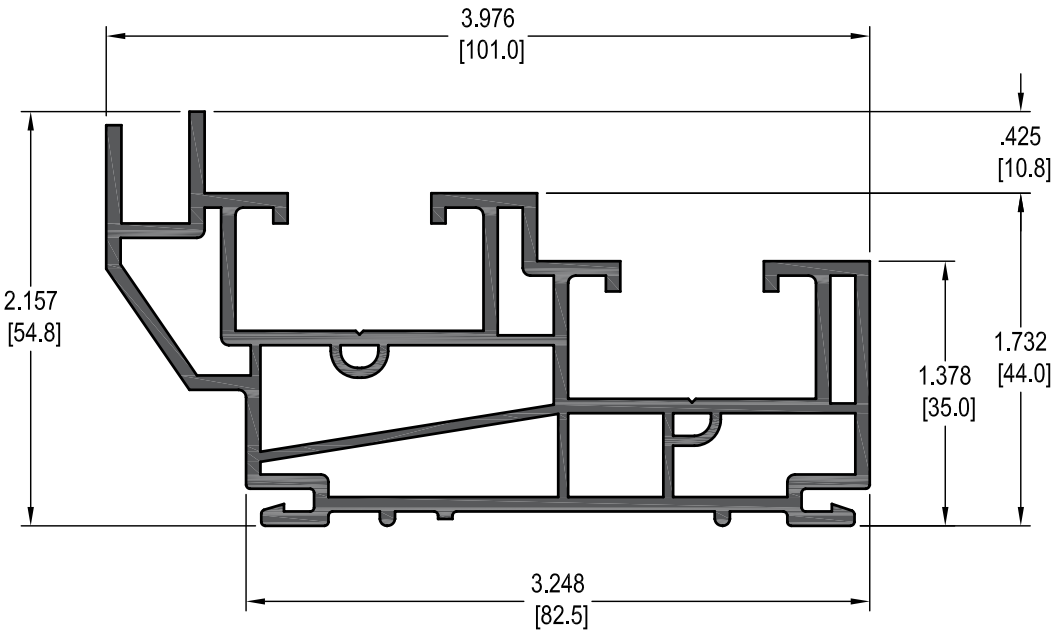
7 Integral nailing fin option
Enables easy installation in new construction



Double-Hung Frame

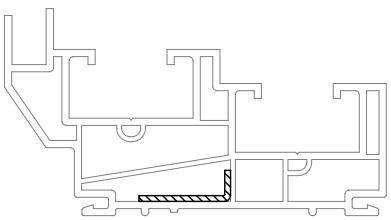
700 DOUBLE HUNG
PROFILE PRINT

Frames



Double-Hung Frame

	WHT	BG	CLAY
RACK		---	---
MOD*		---	---
PACK	PACK	PACK	PACK*

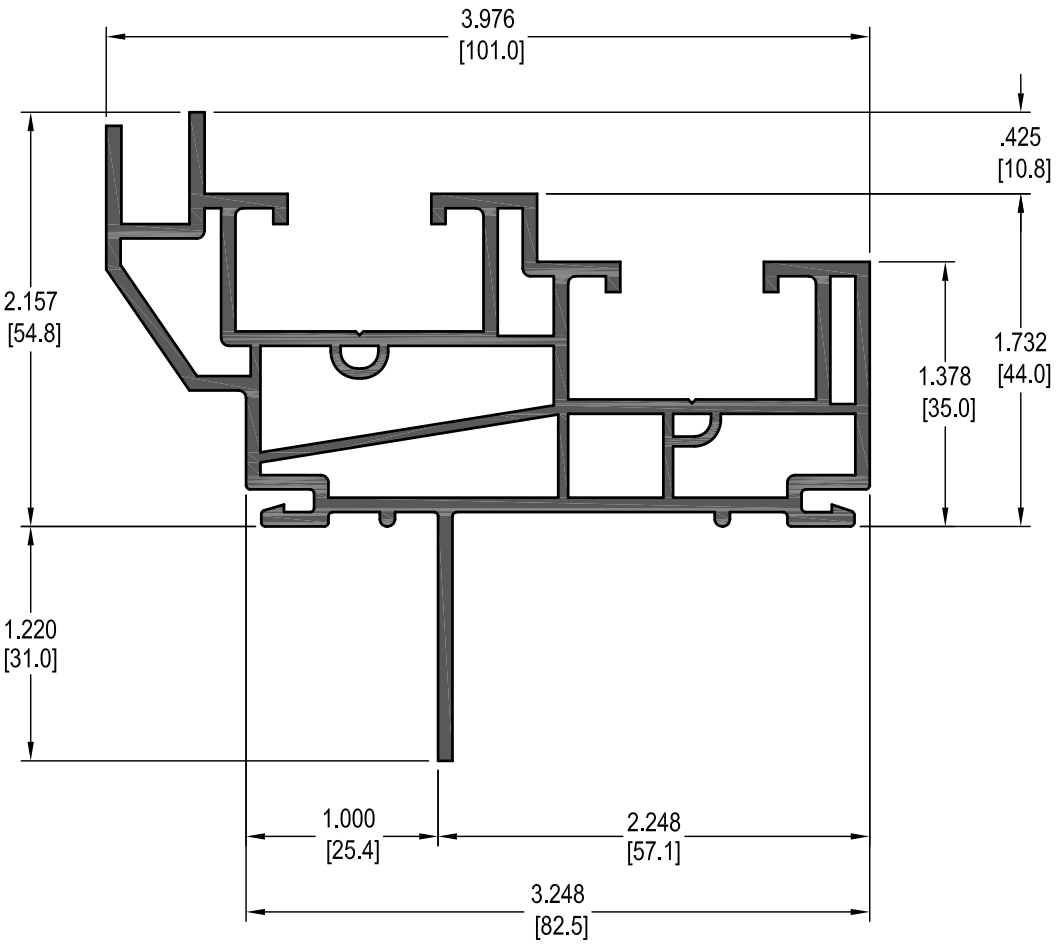


24.2 mm x 8.2 mm

	0.059 in (1.5 mm)
Ix	0.0067 in^4 (0.28 cm^4)
Iy	0.0002 in^4 (0.01 cm^4)
	PACK

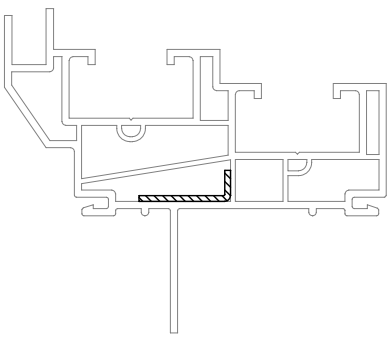
700 DOUBLE HUNG
PROFILE PRINT

Frames



Double-Hung Frame
(w/ Nail Fin)

	WHT	BG	CLAY
RACK	---	---	
MOD*	---	---	
PACK	PACK	PACK*	

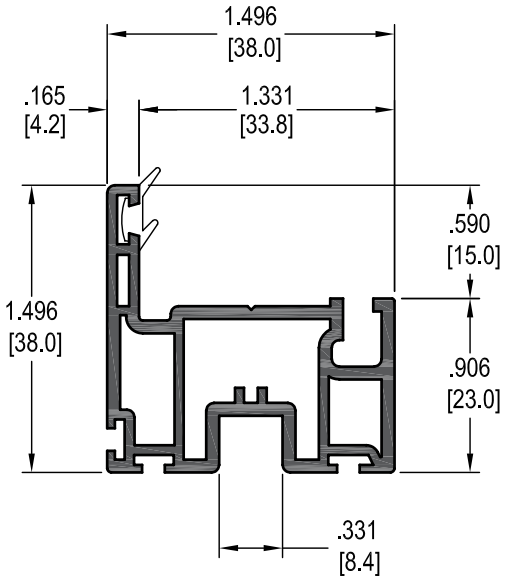


24.2 mm x 8.2 mm

	0.059 in (1.5 mm)
Ix	0.0067 in^4 (0.28 cm^4)
Iy	0.0002 in^4 (0.01 cm^4)
	PACK

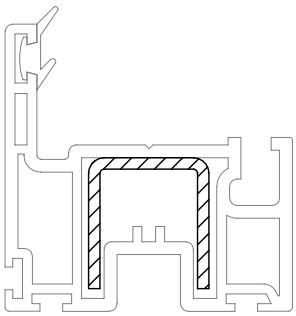
700 DOUBLE HUNG
PROFILE PRINT

Sashes



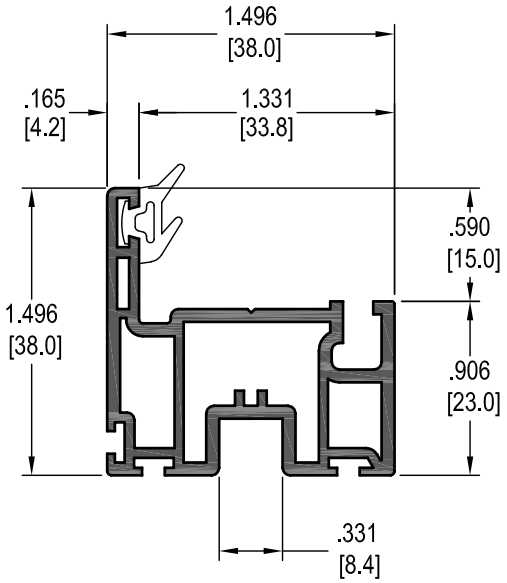
Sash for 1 in Glazing

	WHT	BG	CLAY
RACK	---	---	---
---	---	---	---
PACK	PACK	PACK	PACK*



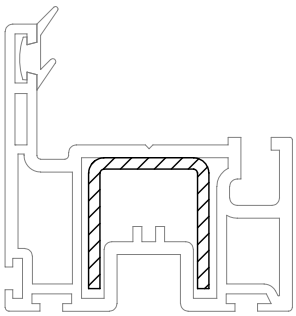
15.9 mm x 17.3 mm

	0.059 in (1.5 mm)
Ix	0.0070 in^4 (0.29 cm^4)
Iy	0.0050 in^4 (0.21 cm^4)
	PACK



Sash for 7/8 in Glazing

	WHT	BG	CLAY
RACK	---	---	---
---	---	---	---
PACK	PACK	PACK	PACK*

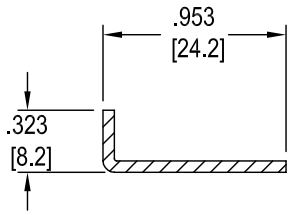
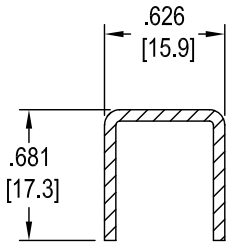
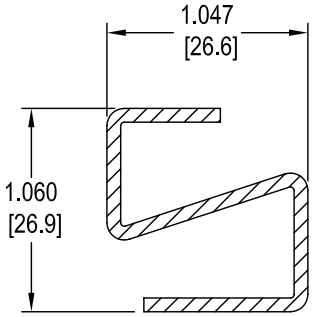
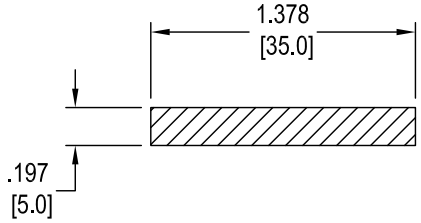
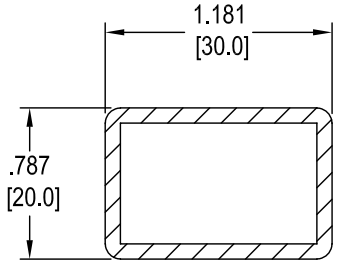


15.9 mm x 17.3 mm

	0.059 in (1.5 mm)
Ix	0.0070 in^4 (0.29 cm^4)
Iy	0.0050 in^4 (0.21 cm^4)
	PACK

700 DOUBLE HUNG
PROFILE PRINT

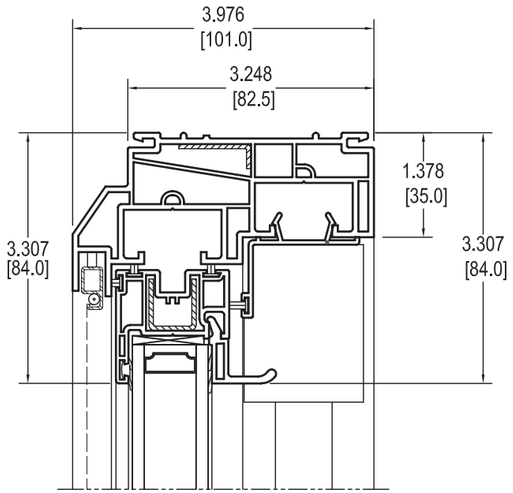
Reinforcements

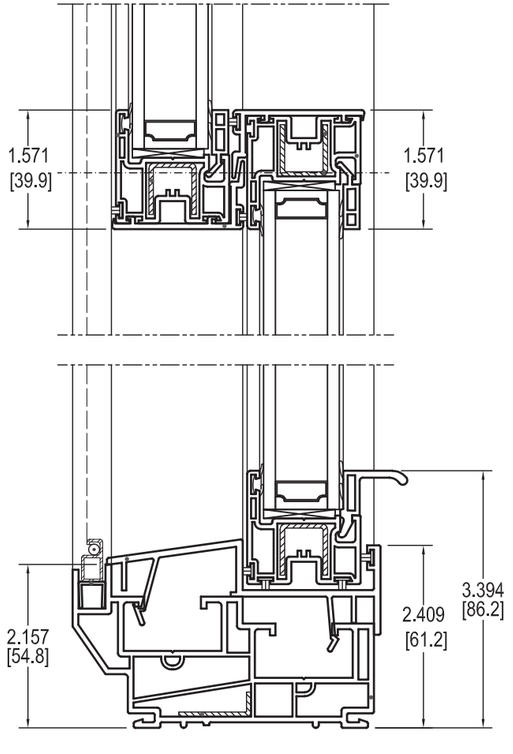
Reinforcement Diagram		Weight kg / m	⟷ in (mm)	Ix Ix in^4 (Ix cm^4)	Iy Iy in^4 (Iy cm^4)
		0.36	0.059 (1.5)	0.0067 (0.28)	0.0002 (0.01)
		0.55	0.059 (1.5)	0.0070 (0.29)	0.0050 (0.21)
		1.30	0.071 (1.8)	0.0430 (1.79)	0.0190 (0.79)
		1.37	0.197 (5.0)	0.0430 (1.79)	0.0010 (0.04)
		1.40	0.079 (2.0)	0.0500 (2.08)	0.0260 (1.08)

700 DOUBLE HUNG

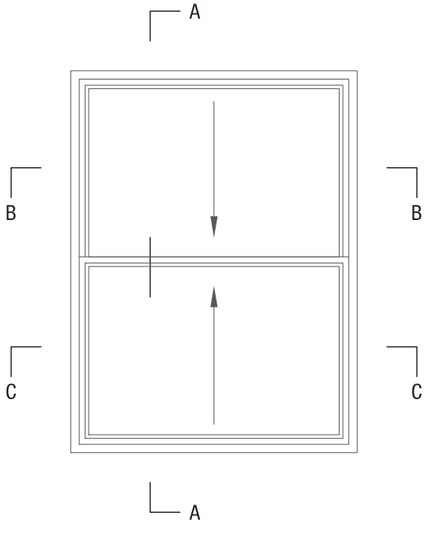
SYSTEM DRAWINGS

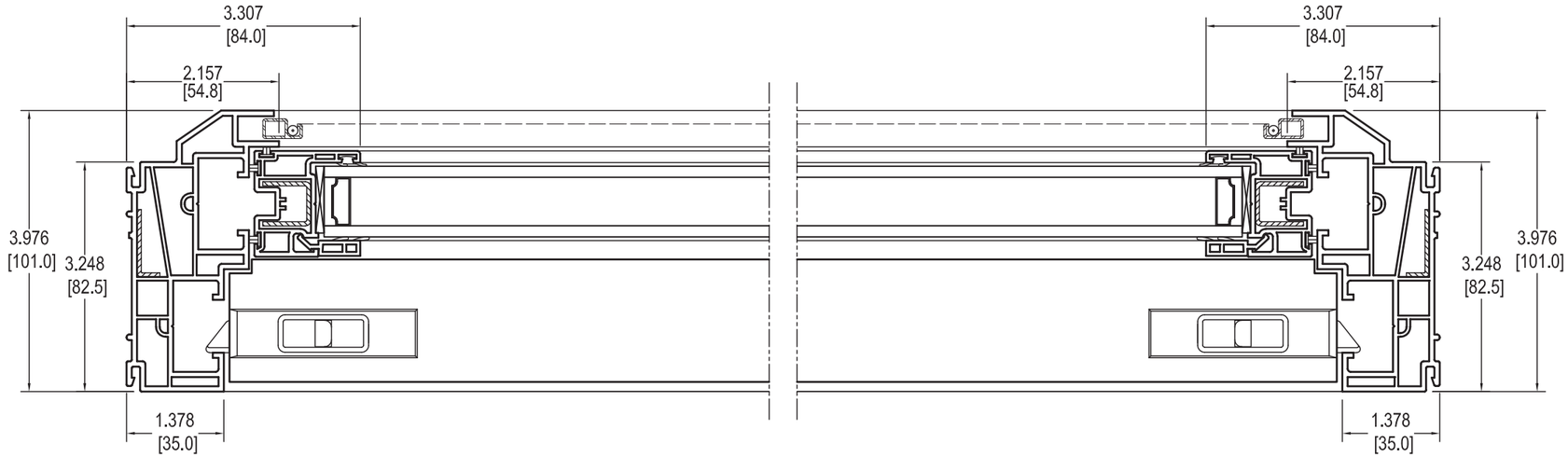
Double-Hung Windows - Double-Hung Frame / Snap-in Sloped Sill



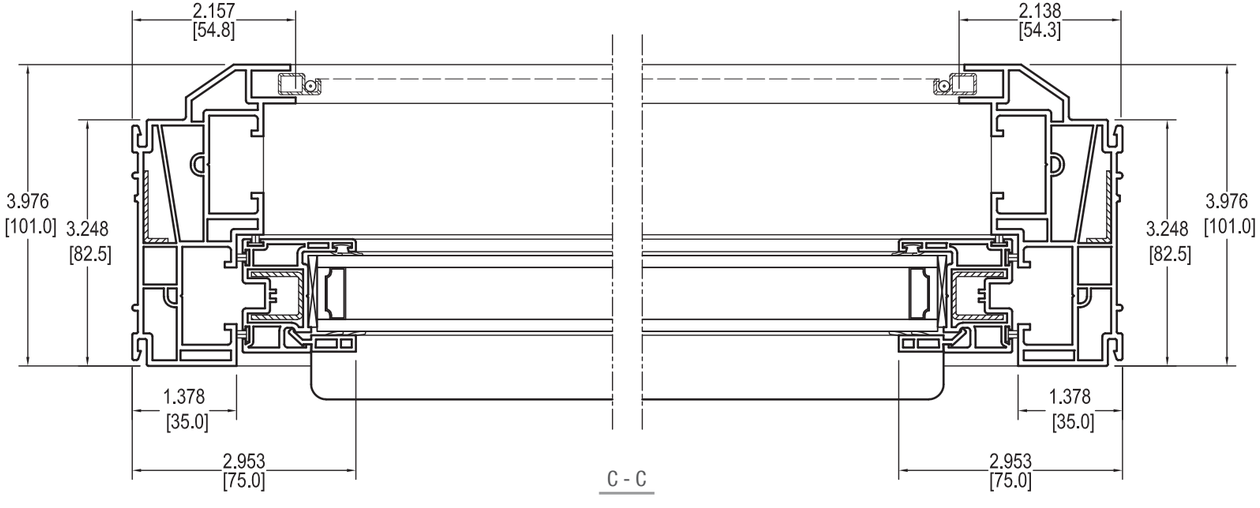


A - A





B - B

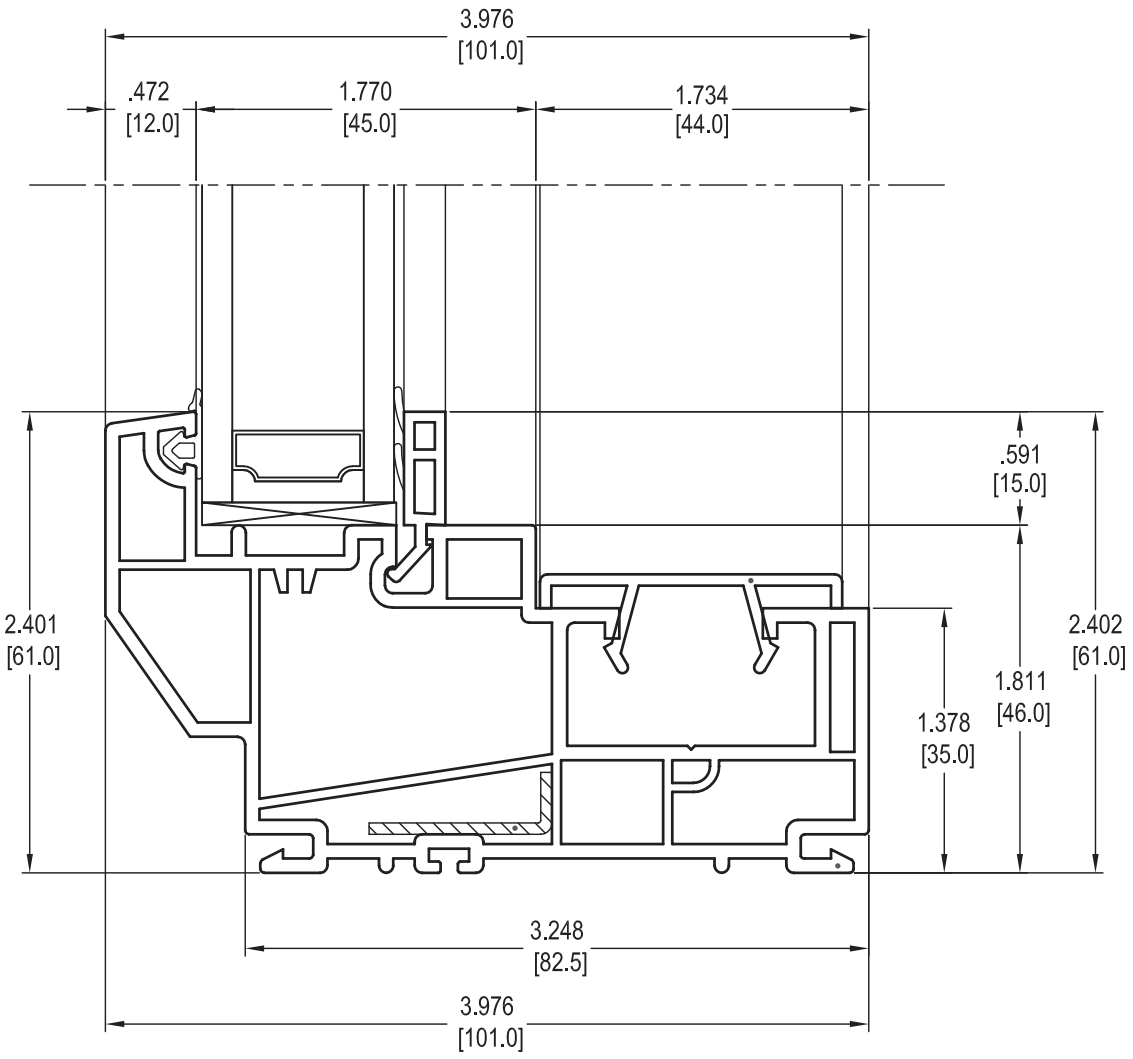


C - C

700 DOUBLE HUNG

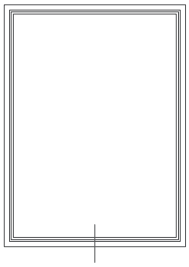
DETAIL DRAWINGS

Fixed Windows - Sill Detail

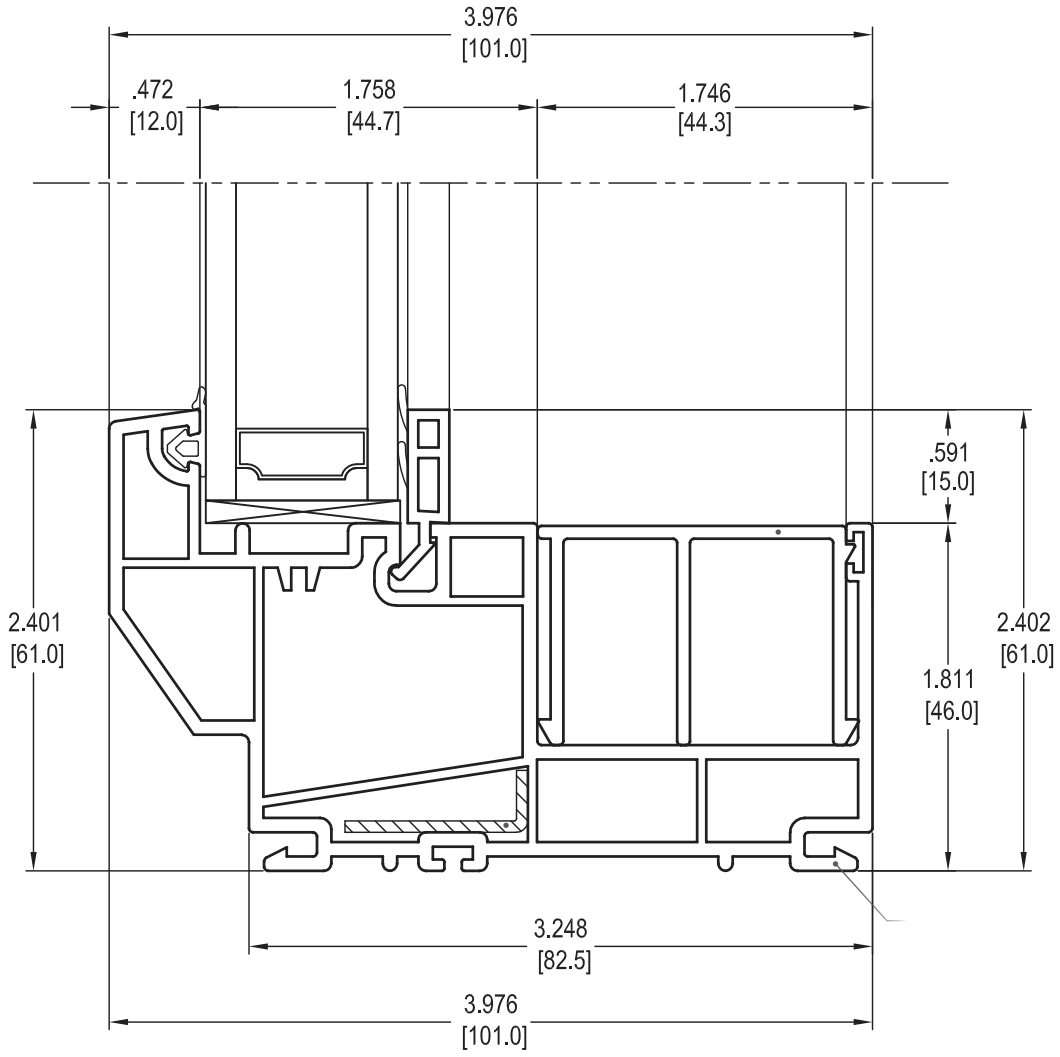


700 DOUBLE HUNG

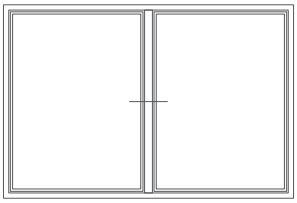
DETAIL DRAWINGS



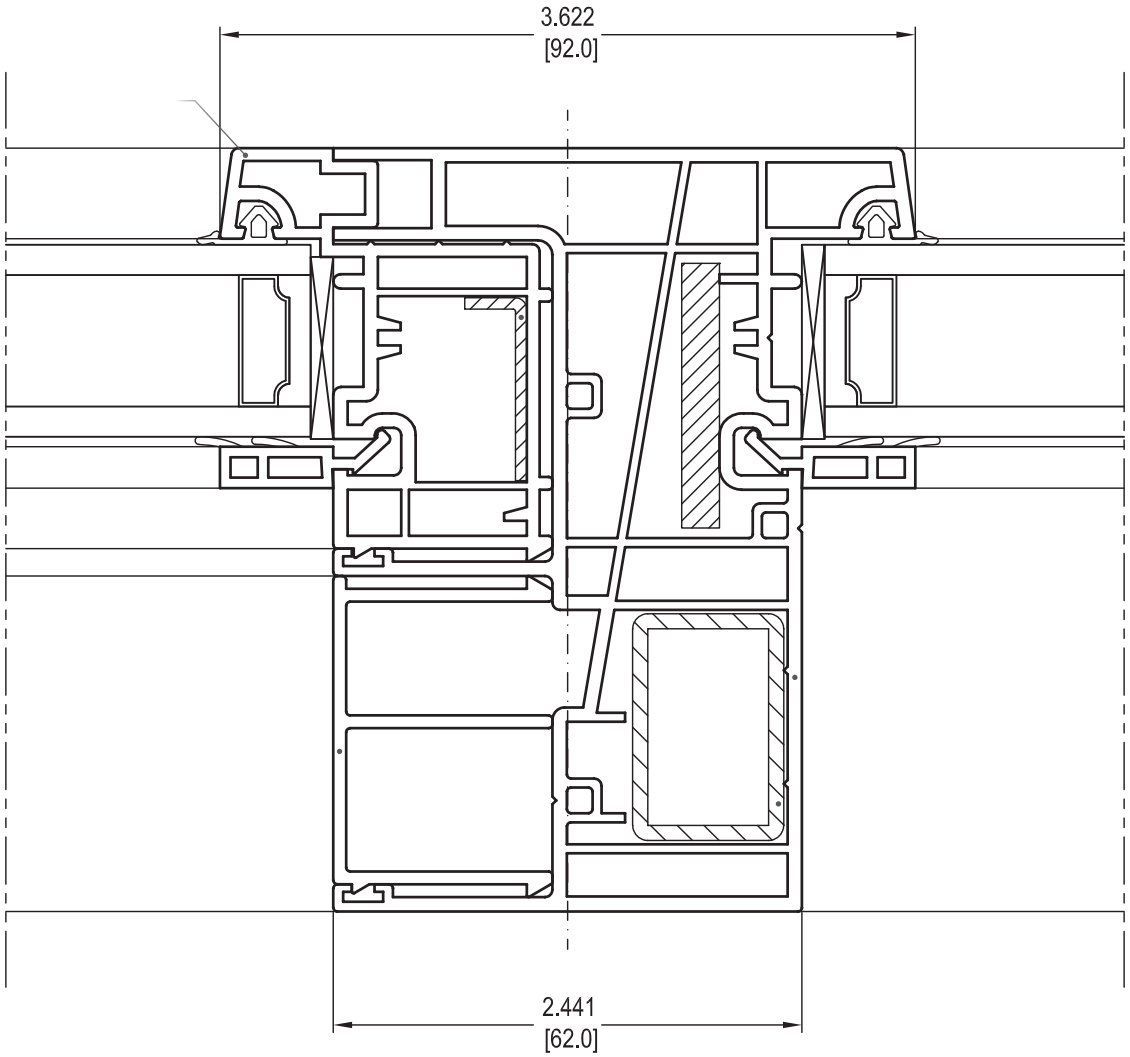
Fixed Windows - Sill Detail



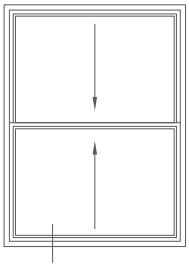
700 DOUBLE HUNG
DETAIL DRAWINGS



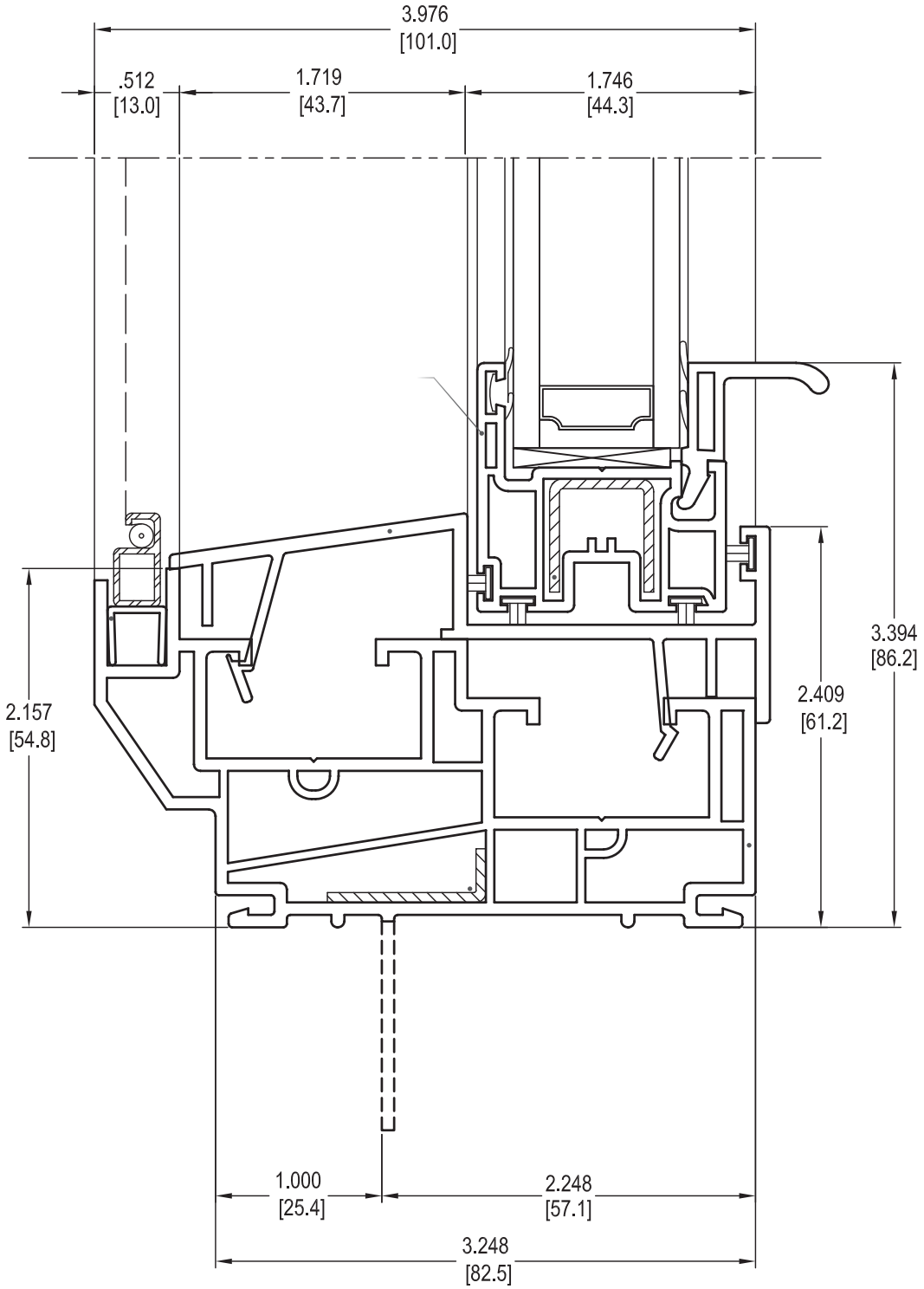
Fixed Windows - T-Mullion Detail



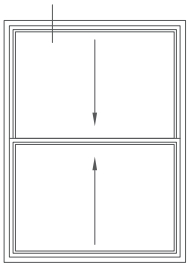
DETAIL DRAWINGS



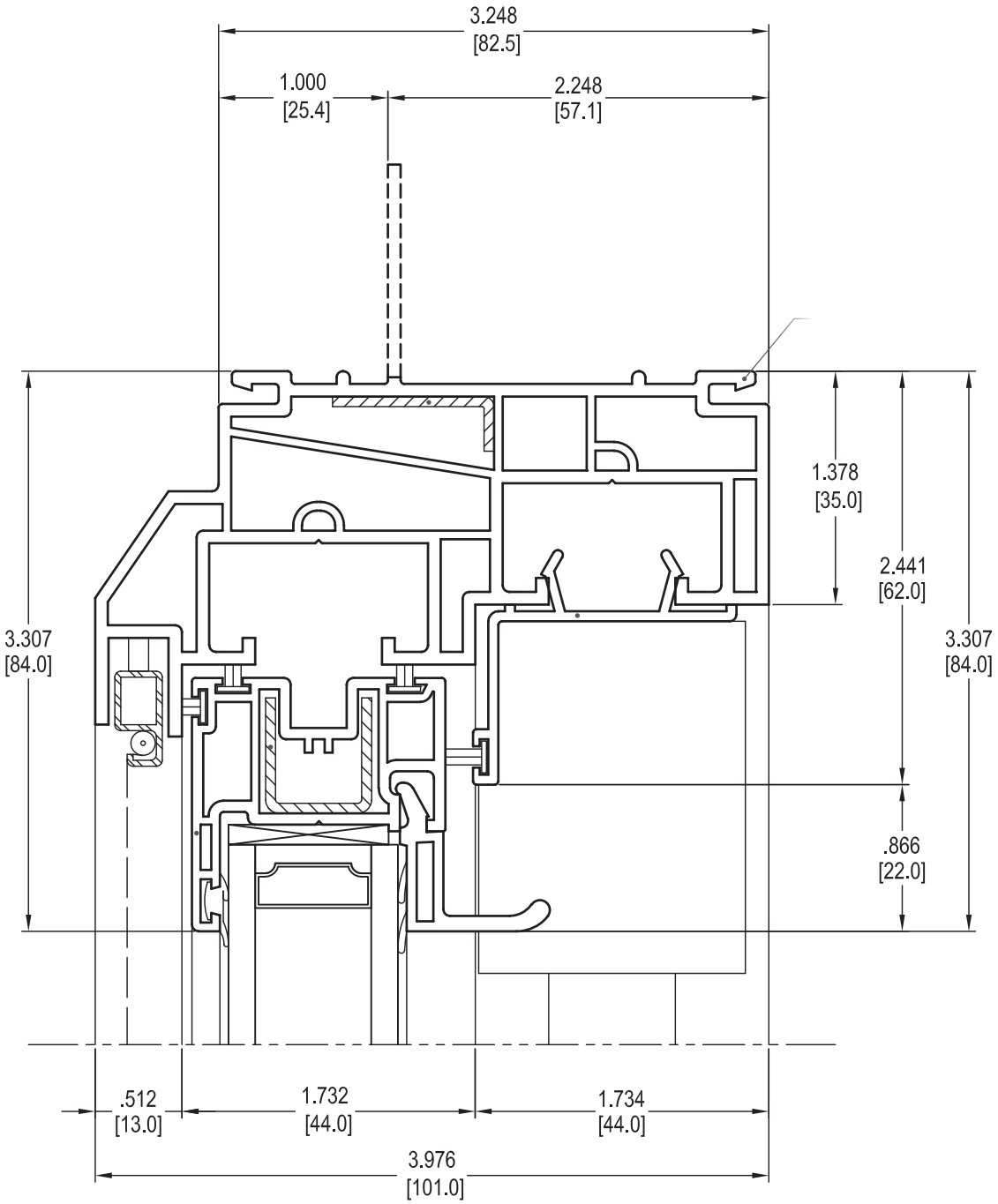
Double-Hung Window - Sloped Sill (Snap-in) Detail



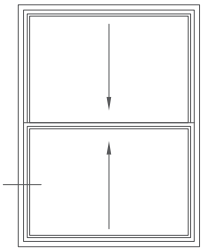
DETAIL DRAWINGS



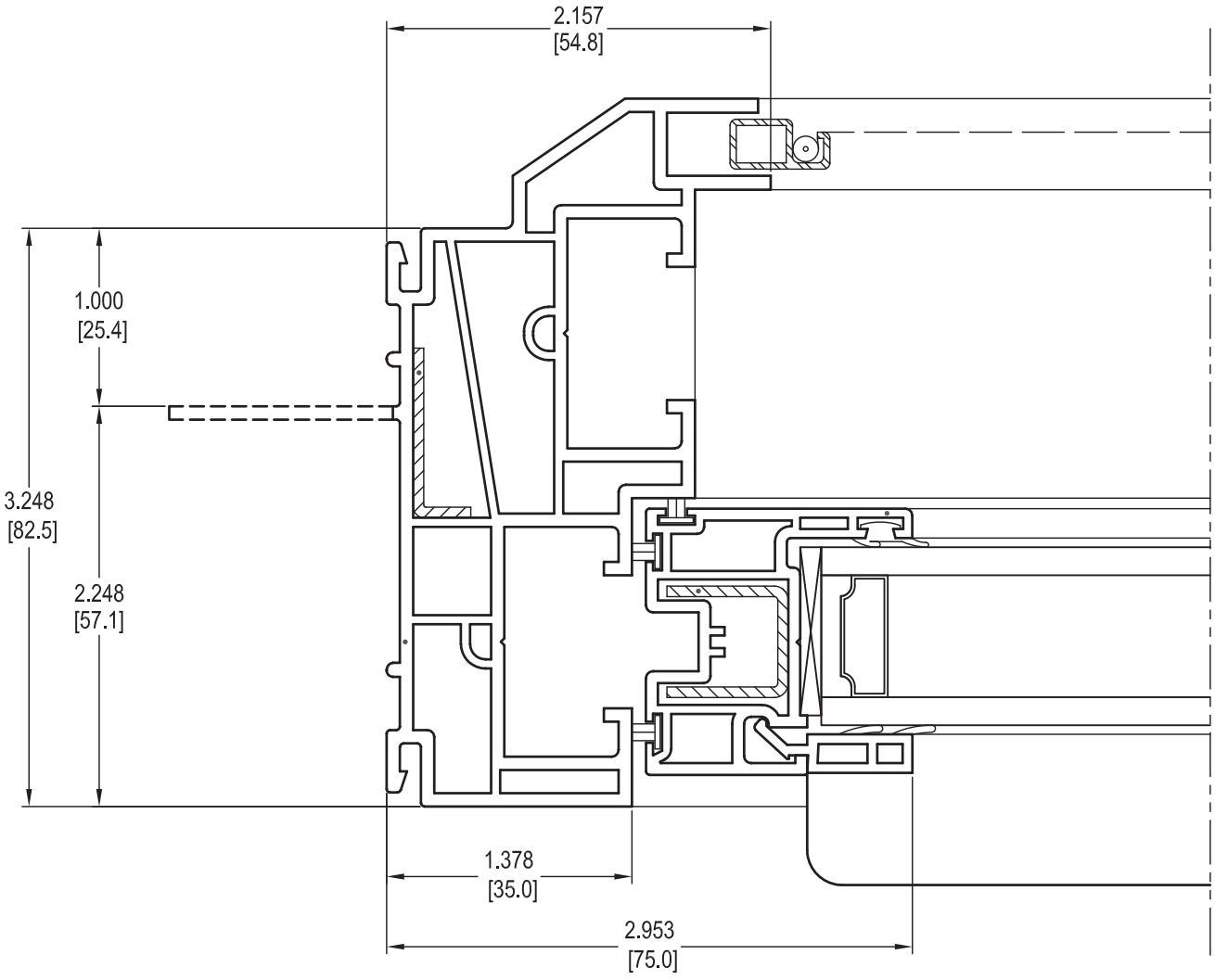
Double-Hung Window - Head Detail



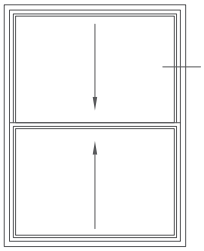
DETAIL DRAWINGS



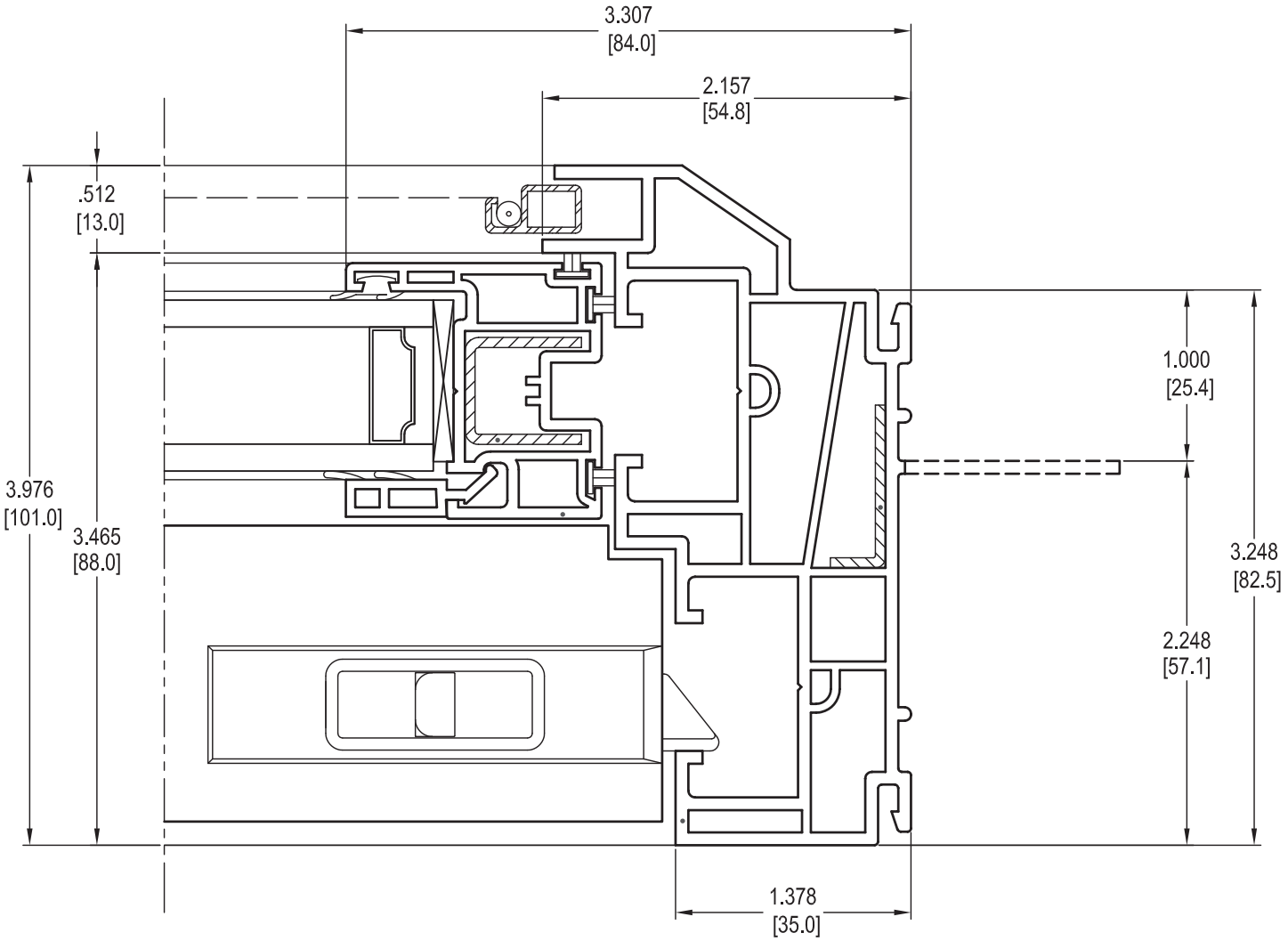
Double-Hung Window - Jamb (Lower Sash) Detail



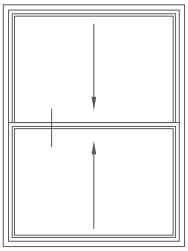
DETAIL DRAWINGS



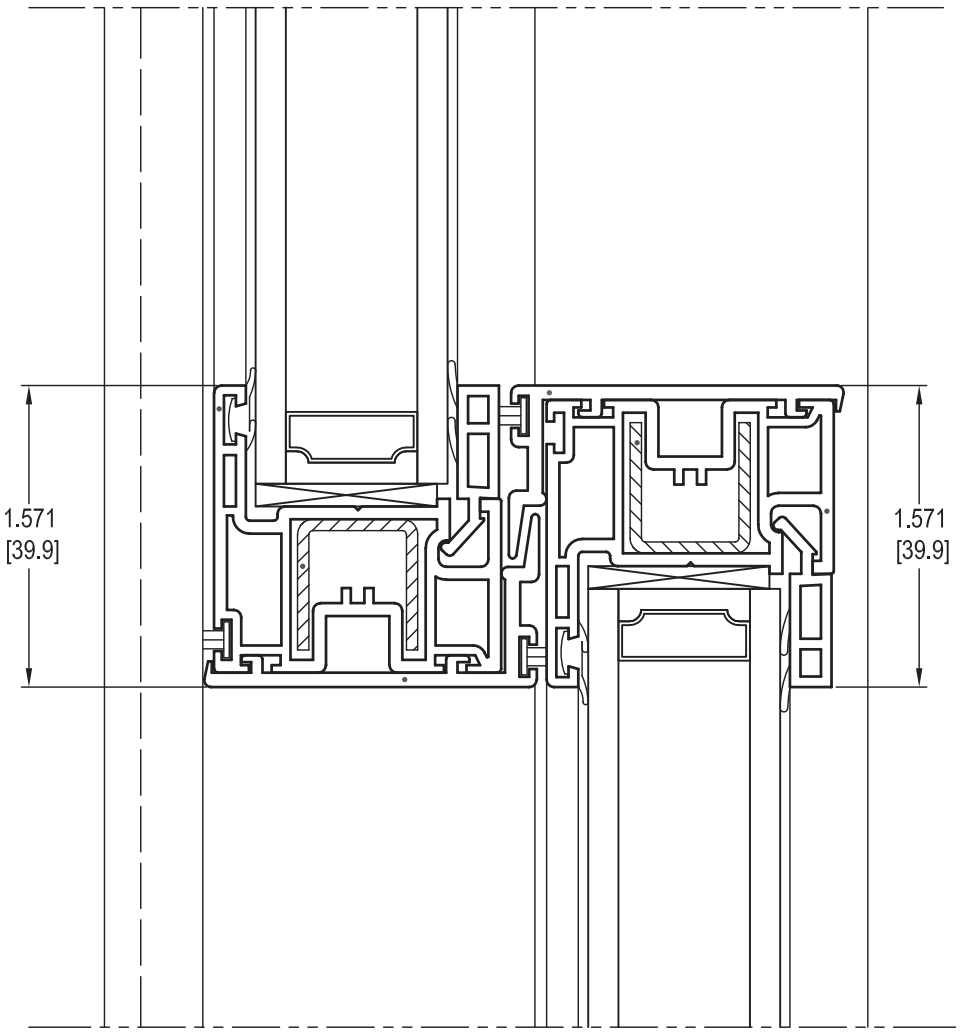
Double-Hung Window - Jamb (Upper Sash) Detail



DETAIL DRAWINGS

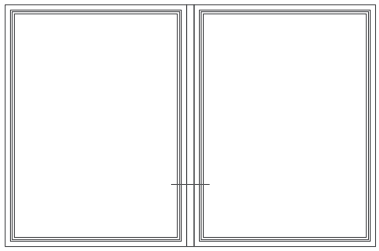


Double-Hung Window - Meeting Rail Detail



700 DOUBLE HUNG

DETAIL DRAWINGS



Mulled Window Detail - Flush Frame Connector