3527i Series

Structural & Thermal Performances

3527i SERIES – AAMA PERFORMANCE RESULTS

	AAMA Performance Rating	Air Infiltration @ 6.24 psf	Water (psf)	Design Pressure	Structural Overload Pressure
Fixed	AW-PG100-F	≤ .1 cfm/ft2	12.0 psf	100 psf	150 psf
Projected	AW-PG80-AP	≤ .1 cfm/ft2	12.0 psf	80 psf	120 psf
Casement	AW-PG80-AP	≤ .1 cfm/ft2	12.0 psf	80 psf	120 psf

WHOLE WINDOW U-VALUE (BTU/HxFT^2)

Center of Glass U-Value	Whole Window U-Value per NFRC 100*		
	Fixed	Projected	Casement
0.41	0.46	0.53	0.53
0.38	0.44	0.52	0.51
0.35	0.41	0.50	0.49
0.32	0.39	0.48	0.47
0.29	0.37	0.46	0.46
0.26	0.34	0.45	0.44
0.23	0.33	0.42	0.43
0.20	0.29	0.41	0.40

All values shown are calculated with Manko standard warm edge insulated glass units

WHOLE WINDOW SOLAR HEAT GAIN COEFFICIENT

Center of Glass SHGC	Whole Window SHGC per NFRC 200*		
	Fixed	Projected	Casement
0.50	0.43	0.33	0.33
0.45	0.39	0.30	0.30
0.40	0.35	0.27	0.27
0.35	0.30	0.23	0.23
0.30	0.26	0.20	0.20
0.25	0.22	0.17	0.17
0.20	0.18	0.14	0.14
0.15	0.14	0.11	0.11

All values shown are calculated with Manko standard warm edge insulated glass units

WHOLE WINDOW VISIBLE LIGHT TRANSMITTANCE

Center of Glass VLT	Whole Window VLT per NFRC 200[1]		
	Fixed	Projected	Casement
0.80	0.67	0.49	0.49
0.70	0.59	0.43	0.43
0.60	0.50	0.37	0.37
0.50	0.42	0.31	0.31
0.40	0.34	0.25	0.25
0.30	0.25	0.18	0.18
0.20	0.17	0.12	0.12
0.10	0.08	0.06	0.06

All values shown are calculated with Manko standard warm edge insulated glass units

*U-Values and SHGC have been calculated using Manko standard insulated glass unit construction with Tri-Seal airspacer and standard sealants. Substitution of different airspacers and/or sealants will effect values.
All values listed have been calculated using standard NFRC 100 and NFRC 200 procedures. Some values listed have been extrapolated for clarity and ease of presentation.
All values listed have been calculated at standard NFRC Gateway Sizes.

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Hardware Options and Sizing Capabilities

3527i SERIES STANDARD & OPTIONAL HARDWARE

	4 Bar Hinge w/ Friction Shoe	Butt Hinges	Auxiliary Friction Device	Limit Device	Single Arm Roto Operator	Dual Arm Roto Operator	Cam Handle	Pole Ring Cam Handle	Access Control Custodial Lock	Lift Lock
Project In	S	---	O	O	---	---	S	O	O	---
Project Out	S	---	O	O	---	*O	*S	O	O	*O
Casement	O	S	O	O	S	---	O	---	---	S

S = Standard Hardware O = Optional Hardware

*Lift locks are standard with roto operators, and whenever vents exceed 42" tall when using cam handles.

SIZING CAPABILITIES FOR 3527i WINDOW (Frame Size)

Configuration (with hardware)	Width		Height		Maximum Sq Ft.
	Minimum	Maximum	Minimum	Maximum	
Fixed	12″	100″	12″	100″	≤36
Projected (cam handle)	15″	60″	15″	41″	≤16
Projected (cam handle w/ auxiliary jamb locks)	15″	60″	42″	60″	≤20
Projected (roto operator w/ auxiliary jamb locks)	22″	60″	16″	60″	≤20
Casement (roto operator w/ lift lock)	18″	36″	18″	60″	≤12

GLAZING INFILL OPTIONS

		1/4″	7/8″	1″	1 1/4″	1 1/2″	1 3/4″	2″
Insulated		--	--	S	O**	O	O	O
GO (Grid Option)		O	--	S	--	O	--	--
***Dual Glazing**	Ext. Lite	S	O	--	--	--	--	--
	Int. Lite	S	--	--	--	--	--	--

*Between the glass 5/8″ aluminum blinds available with dual glazing

**Hermetically sealed blind units are available