

# 3141xpt Series

## Structural & Thermal Performances



### 3141xpt 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
Single Hung	AW-PG70-H	≤ .3 cfm/ft2	12.0 psf	70 psf	105 psf

### WHOLE WINDOW U-VALUE (BTU/HxFT<sup>2</sup>)

Center of Glass U-Value	Whole Window U-Value per NFRC 100*	
	Fixed	Single Hung
0.41	0.45	0.47
0.38	0.42	0.45
0.35	0.40	0.42
0.32	0.37	0.40
0.29	0.35	0.38
0.26	0.32	0.36
0.23	0.30	0.34
0.20	0.27	0.32

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	Single Hung
0.50	0.40	0.39
0.45	0.36	0.35
0.40	0.32	0.31
0.35	0.28	0.27
0.30	0.24	0.23
0.25	0.21	0.20
0.20	0.17	0.16
0.15	0.13	0.12

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 <sup>1</sup>	
	Fixed	Single Hung
0.80	0.60	0.58
0.70	0.52	0.51
0.60	0.45	0.44
0.50	0.37	0.36
0.40	0.30	0.29
0.30	0.23	0.22
0.20	0.15	0.15
0.10	0.07	0.07

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 airspace and standard sealants. Substitution of different airspace 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

### 3141xpt SERIES STANDARD & OPTIONAL HARDWARE

	Integral Continuous Lift Rail	Jamb Mounted Limit Stops	Spring Loaded Automatic Sill Locks	Single Cam Action Sweep Lock	Dual Cam Action Sweep Lock	Class 5 Balances	Heavy Duty Spiral Balances	Removable Operable Sash
<b>Single Hung</b>	S	O	S	O	O	**S	*O	S

S = Standard Hardware    O = Optional Hardware

\*Sash Weight Limitations Apply.    \*\*Standard on Sash Weight exceeding 45 lbs

### GLAZING INFILL OPTIONS

	1"	1 1/8"
<b>Glazing</b>	S	*O
S = Standard Infill    O = Optional		
**Hermetically sealed blind units are available		

### SIZING CAPABILITIES FOR 3141xpt WINDOW (Frame Size)

Configuration (with hardware)	Width		Height		Maximum Sq Ft. (2) 1/4" Lites	Maximum Sq Ft. (2) 3/16" Lites	Maximum Sq Ft. (2) 1/8" Lites
	Minimum	Maximum	Minimum	Maximum			
<b>Fixed</b> (2141xpt)	12"	84"	12"	80"	≤38	≤38	N/a
<b>Single Hung</b> (Spiral Balances)	20"	60"	26"	98"	≤14	≤18	≤21
<b>Single Hung</b> (Class 5 Balances)	20"	60"	26"	98"	≤40	≤42	≤42