



Energy and structural Performance

Ancestral Window - Aluminum-Cladding- Exterior

INFORMATION

SDL : Simulated Divided Light is composed of small bars glued directly on both sides of the glass surface to simulate the appearance of true divided lites.

U Factor: (Btu/h-ft2-F) The lower the U-factor, the better the ability to resist to heat transfer.

SHGC: Solar Heat Gain Coefficient, the higher the SHGC, the more the solar heat is transmitted inside.

ER: The Energy Rating is the result of a formula taking into account the U-value, the SHGC and the airtightness of the product. The ER value measures the overall performance of a window. The higher the value, the better the product efficiency in terms of energy.

NFRC : National Fenestration Rating Council

VT Visible transmittance (expressed as a number from 0 to 1) also known as Visible light transmission (VLT - expressed as a percentage %) is a measurement of the amount of light in the visible portion of the spectrum that passes through glass

NFRC CODE	THERMOS	CODE	U Factor/ (Btu/h-ft2-F)	Solar Heat Gain Coefficient (SHGC)	Visible transmittance (VT)	Energy Rating (ER)
MPE-M-27-00037	8071 Double 1 LowE	HYB, 3mm_7/8_PCl-arg95-8071#3, su	0,30	0,44	0,48	27
MPE-M-27-00038	8071 Double 1 LowE	HYB, 3mm_7/8_PCl-arg95-8071#3, su, Grids<1"	0,30	0,39	0,43	24
MPE-M-27-00039	8071 Double 1 LowE	HYB, 3mm_7/8_PCl-arg95-8071#3, su, SDLwSB<1"	0,30	0,39	0,43	24
MPE-M-27-00040	8071 Double 1 LowE	HYB, 3mm_7/8_PCl-arg95-8071#3, su, SDLwSB>=1"	0,30	0,35	0,38	22
MPE-M-27-00041	8071 Double 1 LowE	HYB, 3mm_7/8_PCl-arg95-8071#3, su, SDL<1"	0,30	0,39	0,43	24
MPE-M-27-00042	8071 Double 1 LowE	HYB, 3mm_7/8_PCl-arg95-8071#3, su, SDL>=1"	0,30	0,35	0,38	22
MPE-M-27-00025	SB-60 double	HYB, 3mm_7/8_PCl-arg95-SB60#3, su	0,29	0,30	0,44	20
MPE-M-27-00026	SB-60 double	HYB, 3mm_7/8_PCl-arg95-SB60#3, su, Grids<1"	0,29	0,27	0,39	18
MPE-M-27-00027	SB-60 double	HYB, 3mm_7/8_PCl-arg95-SB60#3, su, SDL<1"	0,29	0,27	0,39	18
MPE-M-27-00028	SB-60 double	HYB, 3mm_7/8_PCl-arg95-SB60#3, su, SDL>1"	0,29	0,25	0,35	17
MPE-M-27-00029	SB-60 double	HYB, 3mm_7/8_PCl-arg95-SB60#3, su, SDL-SB<1"	0,29	0,27	0,39	18
MPE-M-27-00030	SB-60 double	HYB, 3mm_7/8_PCl-arg95-SB60#3, su, SDL-SB>1"	0,29	0,25	0,35	17

Structural Performance

PERFORMANCE TESTING IN ACCORDANCE WITH AAMA/WDMA/CSA 101/I.S.2/A440-08

Performance Grade (PG)	Airtightness	Water tightness	Wind load resistance	Screen resistance	Resistance to forced entry	Usability	Structural test
R-CP45-C	A3	B6	C3	S1	F20	Successful	PES 45(2 160 Pa)

PG: Performance Grade from the NAFS-08 harmonized standard (North American Fenestration Standard) for a given size on a scale from PG15 to PG100. The higher the value is, the better the product efficiency.

Airtightness: Resistance to air exfiltration/infiltration on a scale ranging from A1 to A3. The higher the value, the greater the sealing.

Water tightness: Resistance to water infiltration on a scale ranging from B1 to B7. The higher the value, the greater the sealing.

Wind load resistance: Resistance to wind pressures on a scale ranging from C1 to C5 without breakage or permanent deformation. The higher the value, the greater the resistance.

Screen resistance: Resistance rating without damage or permanent deformation while remaining firmly attached to the window under a force of 60 Newtons outwards.

Resistance to forced entry: Capacity when locked to withstand a forced entry under specified load and conditions for a rating of F10 or F20. The higher the value, the greater the resistance.

Usability: Test for measuring the force required to initiate and maintain the opening movement of the window or the door.

Structural test: Structural test pressure (STP) [greater than values specified in pounds per square foot (psf) or in pascals (Pa)] supported before permanent deformation measured on the jamb of the sash. Maximum values indicated.