

ENERGY RATINGS

Direct Glazed Smooth Doors & Sidelites



Updated 10-10-2024
ENERGY STAR v7.0

DIRECT GLAZED SMOOTH FIBERGLASS: DOORS and SIDELITES

Does not meet ENERGY STAR v7.0 criteria for All Zones
Does not meet ENERGY STAR v7.0 criteria for Northern Zone
Does not meet 2023 Florida Energy Code Criteria for SHGC

DOORS, TGI-M-11 NOTE: CPD # would equal the TGI-M-X + Number below the U-Factor-SHGC. Example: TGI-M-11-00192-00001

Product Description
Optilite S1 16 Air Lami (3mm/9mm) 1" IG
Optilite S1 16 Air Clear (3mm/3mm) 1" IG
Optilite S1 16 Air Lami (3mm/9mm) 1" IG
Optilite S1 16 Air Clear (3mm/3mm) 1" IG

SWING	Frame (Jamb)	GLAZING	1/4-LITE			1/2-LITE			3/4-LITE			FULL LITE		
			U-factor	SHGC	VT	U-factor	SHGC	VT	U-factor	SHGC	VT	U-factor	SHGC	VT
IS/OS	Wood	Dual Pane - Low E Laminated PDLC	0.20	0.08	0.10	0.22	0.15	0.19	0.24	0.19	0.24	0.26	0.25	0.33
			00031-00001	00063-00001	00095-00001	00127-00001								
IS/OS	Wood	Dual Pane - Low E (Clear/Internal Grill) Air	0.20	0.08	0.10	0.23	0.15	0.19	0.26	0.20	0.26	0.28	0.26	0.34
			00023-00001	00055-00001	00087-00001	00119-00001								
IS/OS	PVC	Dual Pane - Low E Laminated PDLC	0.19	0.08	0.10	0.21	0.15	0.19	0.23	0.19	0.25	0.25	0.25	0.33
			00160-00001	00192-00001	00224-00001	00256-00001								
IS/OS	PVC	Dual Pane - Low E (Clear/Internal Grill) Air	0.20	0.08	0.10	0.23	0.15	0.19	0.25	0.20	0.26	0.28	0.26	0.34
			00152-00001	00184-00001	00216-00001	00248-00001								

SIDELITES, TGI-M-12 NOTE: CPD # would equal the TGI-M-X + Number below the U-Factor-SHGC. Example: TGI-M-12-00252-00001

Product Description
Optilite S1 16 Air Lami (3mm/9mm) 1" IG
Optilite S1 16 Air Clear (3mm/3mm) 1" IG
Optilite S1 16 Air Lami (3mm/9mm) 1" IG
Optilite S1 16 Air Clear (3mm/3mm) 1" IG

SWING	Frame (Jamb)	GLAZING	1/4-LITE			1/2-LITE			3/4-LITE			FULL LITE		
			U-factor	SHGC	VT	U-factor	SHGC	VT	U-factor	SHGC	VT	U-factor	SHGC	VT
IS/OS	Wood	Dual Pane - Low E Laminated PDLC	0.19	0.08	0.10	0.22	0.14	0.19	0.23	0.19	0.25	0.26	0.25	0.33
			00031-00001	00063-00001	00095-00001	00127-00001								
IS/OS	Wood	Dual Pane - Low E (Clear/Internal Grill) Air	0.20	0.08	0.10	0.23	0.14	0.19	0.25	0.19	0.26	0.28	0.26	0.34
			00023-00001	00055-00001	00087-00001	00119-00001								
IS/OS	PVC	Dual Pane - Low E Laminated PDLC	0.19	0.08	0.10	0.21	0.14	0.19	0.23	0.19	0.25	0.25	0.25	0.33
			00157-00001	00188-00001	00220-00001	00252-00001								
IS/OS	PVC	Dual Pane - Low E (Clear/Internal Grill) Air	0.20	0.08	0.10	0.23	0.14	0.19	0.25	0.19	0.26	0.27	0.26	0.34
			00149-00001	00180-00001	00212-00001	00244-00001								

Door	Glass Size	Door or Glass size
1/4 lite	≤410	325/425 Craftsman Rectangle
1/2 lite	≤900	330/430 Half Lite
3/4 lite	≤1100	440 3/4 Lite
Full lite	>1100	360/460 Full Lite
Opaque		

Sidelite	Glass Size	Sidelite or Glass size
1/4 lite	≤65	
1/2 lite	≤281	230 Half Lite
3/4 lite	≤391	240 3/4 Lite; 160 Full Lite
Full lite	>391	
Opaque		

ENERGY STAR® Version 7.0

Certification Criteria for Residential Doors



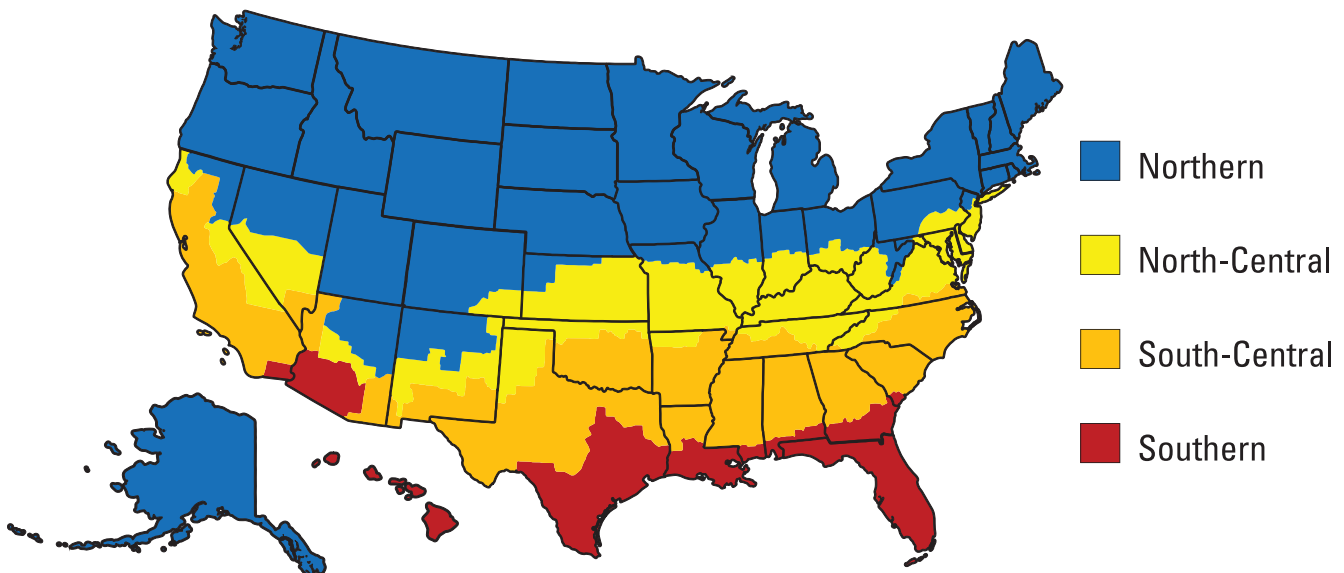
ENERGY STAR® Certification Criteria for Residential Doors

DOORS			
Glazing Level	Climate Zone	U-Factor ¹	SHGC ²
Opaque	All Zones	≤ 0.17	No Rating
≤ ½-Lite	All Zones	≤ 0.23	≤ 0.23
> ½-Lite	Northern	≤ 0.26	≤ 0.40
	North-Central		
	South-Central	≤ 0.28	≤ 0.23
	Southern		



Criteria Effective
Oct. 23, 2023

Air Leakage for Sliding Doors ≤ 0.3 cfm/ft²
 Air Leakage for Swinging Doors ≤ 0.5 cfm/ft²
¹ Btu/h-ft²·°F
² Solar Heat Gain Coefficient



Note: A complete list of ENERGY STAR Climate Zones by states and country or, where applicable, zip code is available at www.energystar.gov/products/building_products/residential_windows_doors_and_skylights/climate_zone/search

ENERGY RATINGS

Feather River NFRC Labels





National Fenestration Rating Council®
CERTIFIED



TRINITY GLASS
INTERNATIONAL

Direct Glazed Fiberglass Door
In-swing (IS) and Out-swing (OS)
TGI-M-11*

ENERGY PERFORMANCE RATINGS

Product Description**	U-Factor ¹ / Solar Heat Gain Coefficient (SHGC)			
	Individual Option Number			
Default Frame*** PVC	1/4 Lite ≤410†	1/2 Lite ≤900†	3/4 Lite ≤1100†	Full Lite >1100†
Optilite/Air/Lami (3mm/9mm) 1" IG	0.19 / 0.08	0.21 / 0.15	0.23 / 0.19	0.25 / 0.25
	00160-00001	00192-00001	00224-00001	00256-00001

Air Leakage ≤0.3 cfm/ft²

Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend any product and does not warrant the suitability of any product for any specific use. Consult manufacturer's literature for other product performance information.

* Numbers below the performance ratings are referenced in the NFRC Certified Products Directory (e.g., ABC-X-1-00001-00001 or 123-X-1-00001-00001)

** #glazing layers / spacer type / low-e emissivity (surface) / gap fill / gap width (na=not applicable)

*** per NFRC 100 † square inches ¹ btu/hr*ft²*F

www.nfrc.org



ENERGY STAR® Certified in All 50 States

Certificado por ENERGY STAR en los 50 estados

08/2024 LBETSXXX