

## THERMAL PERFORMANCE

Product	NFRC CPD #	U-Factor	SHGC	VT	ENERGY STAR
<b>100 Wood Direct Set</b>					
71/38 LowE IG	BNB-N-1-00054-00001	0.27	0.35	0.63	N, NC
366 LowE IG	BNB-N-1-00058-00006	0.27	0.24	0.58	N, NC, SC, S
<b>300 Aluminum Clad Wood Direct Set</b>					
71/38 LowE IG	BNB-N-3-00092-00001	0.29	0.35	0.63	N, NC
366 LowE IG	BNB-N-3-00096-00006	0.29	0.25	0.58	N, NC, SC, S
<b>400 Aluminum Clad Wood Casement Picture</b>					
71/38 LowE IG	BNB-N-4-00004-00011	0.29	0.31	0.56	N, NC
366 LowE IG	BNB-N-4-00010-00001	0.28	0.22	0.51	N, NC, SC, S
<b>500 Aluminum Clad Wood Outswing Door-Full Lite</b>					
71/38 LowE IG	BNB-N-5-00023-00011	0.33	0.20	0.35	-
366 LowE IG	BNB-N-5-00030-00001	0.31	0.15	0.32	-

Conditions:

- 71/38 LowE = Guardian RLE 71-38 w/ Argon
- 366 LowE = Cardinal 366 w/ Argon
- 1/8" Glass
- 1/2" Aluminum Glass Spacer for 71-38 LowE and 1/2" Stainless Steel for 366 LowE
- 3/4" Jamb for Direct Sets
- No Grilles

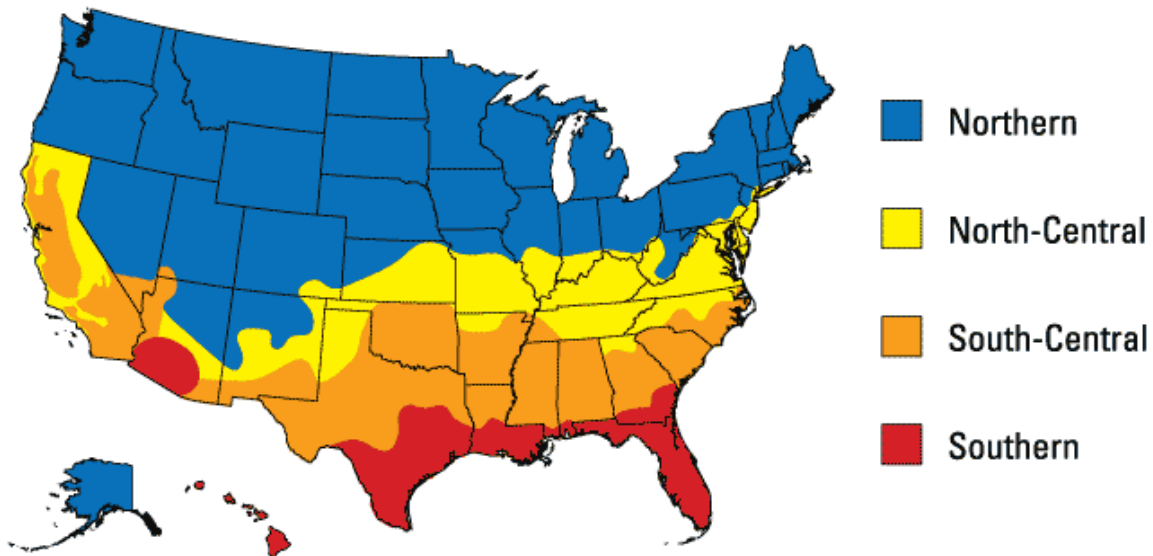
Abbreviations:

- SHGC = Solar Heat Gain Coefficient
- VT = Visual Light Transmittance
- ENERGY STAR Zones: N=Northern, NC=North Central, SC=South Central, S=Southern.

Thermal performance values for all options are in NFRC's Certified Products Directory,  
<http://search.nfrc.org/Search/SearchDefault.aspx>

ENERGY STAR Version 6.0, Version 5.0 for Northern Zone

## ENERGY STAR VERSION 6.0



### Windows

Climate Zone	U-Factor <sup>1</sup>	SHGC <sup>2</sup>	
<b>Northern*</b>	≤ 0.27	Any	Prescriptive
	= 0.28	≥ 0.32	Equivalent Energy Performance
	= 0.29	≥ 0.37	
	= 0.30	≥ 0.42	
<b>North-Central</b>	≤ 0.30	≤ 0.40	
<b>South-Central</b>	≤ 0.30	≤ 0.25	
<b>Southern</b>	≤ 0.40	≤ 0.25	

Air Leakage ≤ 0.3 cfm/ft<sup>2</sup>

<sup>1</sup> Btu/h ft<sup>2</sup>·°F

<sup>2</sup> Solar Heat Gain Coefficient

\* The effective date for the Northern Zone prescriptive and equivalent energy performance criteria for windows is January 1, 2016.

### Doors

Glazing Level	U-Factor <sup>1</sup>	SHGC <sup>2</sup>	
Opaque	≤ 0.17	No Rating	
≤ ½-Lite	≤ 0.25	≤ 0.25	
> ½-Lite	≤ 0.30	Northern North-Central	≤ 0.40
		Southern South-Central	≤ 0.25

Air Leakage for Sliding Doors ≤ 0.3 cfm/ft<sup>2</sup>

Air Leakage for Swinging Doors ≤ 0.5 cfm/ft<sup>2</sup>