



THERMAL PERFORMANCE DATA:

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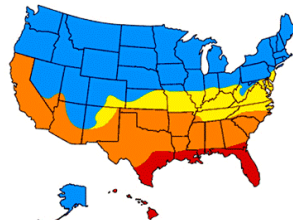
## VINYL WINDOWS

ENERGY STAR® Version 6.0 - Valid January 1, 2016

Product Line	Glazing Description	NO GRIDS Thermal Performance			NO GRIDS ENERGY STAR® Zone Compliance				WITH GRIDS Thermal Performance			WITH GRIDS ENERGY STAR® Zone Compliance			
		U	SHGc	VT					U	SHGc	VT				
Tribute Double Hung	Tribute HP TG 3x Low-E/Krypton/FOAM	0.17	0.24	0.44	N	NC	SC	S	0.18	0.21	0.39	N	NC	SC	S
	Tribute DG 2X Low-E/Argon	0.25	0.29	0.52	N	NC			0.25	0.26	0.46	N	NC		
	*High Solar Heat Gain ENERGY STAR® Package	0.29	0.48	0.58	N29				0.29	0.43	0.51	N29			
Classic Double Hung	Elite Dealer TG 3x Low-E/Krypton/FOAM	0.18	0.25	0.46	N	NC	SC	S	0.18	0.22	0.41	N	NC	SC	S
	2x Low-E / Argon ENERGY STAR® Package	0.25	0.30	0.54	N	NC			0.25	0.27	0.48	N	NC		
	*High Solar Heat Gain ENERGY STAR® Package	0.29	0.50	0.60	N29				0.29	0.45	0.54	N29			
	Low-E / Argon	0.29	0.31	0.55		NC			0.29	0.28	0.49		NC		
	Low-E	0.33	0.31	0.55					0.33	0.28	0.49				
	Clear	0.46	0.59	0.62					0.46	0.53	0.55				
Slimline Double Hung & Single Hung	2x Low-E / Argon ENERGY STAR® Package	0.27	0.30	0.54	N	NC			0.27	0.27	0.48	N	NC		
	*High Solar Heat Gain ENERGY STAR® Package	0.30	0.50	0.61	N30				0.30	0.45	0.54	N30			
	Low-E / Argon	0.30	0.31	0.56		NC			0.30	0.28	0.50		NC		
	Low-E	0.33	0.31	0.56					0.33	0.28	0.50				
	Clear	0.46	0.60	0.62					0.46	0.54	0.56				
Tribute Commercial Series Double Hung	Tribute HP TG 3x Low-E/Krypton	0.19	0.24	0.44	N	NC	SC	S	0.20	0.21	0.39	N	NC	SC	S
	2x Low-E / Argon ENERGY STAR® Package	0.27	0.29	0.52	N	NC			0.27	0.26	0.46	N	NC		
	*High Solar Heat Gain ENERGY STAR® Package	0.30	0.48	0.58	N30				0.30	0.43	0.51	N30			
	Low-E / Argon	0.30	0.30	0.53		NC			0.30	0.27	0.47		NC		
	Low-E	0.34	0.30	0.53					0.34	0.27	0.47				
	Clear	0.46	0.57	0.60					0.46	0.51	0.53				
Casement, Awning & Fixed Lite	Tribute HP TG & Elite Dealer TG 3x Low-E/Krypton	0.20	0.22	0.40	N	NC	SC	S	0.21	0.20	0.36	N	NC	SC	S
	2x Low-E / Argon ENERGY STAR® Package	0.26	0.27	0.47	N	NC			0.26	0.24	0.42	N	NC	SC	S
	*High Solar Heat Gain ENERGY STAR® Package	0.29	0.43	0.52	N29				0.29	0.39	0.47	N29	NC		
	Low-E / Argon	0.30	0.27	0.48		NC			0.30	0.25	0.43		NC	SC	S
	Low-E	0.33	0.27	0.48					0.33	0.25	0.43				S
	Clear	0.44	0.52	0.54					0.44	0.47	0.48				
Rolling Window	Tribute HP TG & Elite Dealer TG 3x Low-E/Krypton	0.19	0.24	0.45	N	NC	SC	S	0.19	0.22	0.40	N	NC	SC	S
	2x Low-E / Argon ENERGY STAR® Package	0.26	0.30	0.54	N	NC			0.26	0.27	0.48	N	NC		
	*High Solar Heat Gain ENERGY STAR® Package	0.29	0.49	0.60	N29				0.29	0.44	0.53	N29			
	Low-E / Argon	0.30	0.30	0.55		NC			0.30	0.27	0.48		NC		
	Clear	0.46	0.59	0.61					0.46	0.52	0.54				
Picture Window	Tribute HP TG & Elite Dealer TG 3x Low-E/Krypton	0.15	0.26	0.49	N	NC			0.16	0.24	0.43	N	NC	SC	S
	Low-E / Argon ENERGY STAR® Package	0.26	0.32	0.59	N	NC			0.26	0.29	0.52	N	NC		
	*High Solar Heat Gain ENERGY STAR® Package	0.27	0.53	0.64	N				0.27	0.47	0.57	N			
	Low-E	0.30	0.33	0.59		NC			0.30	0.30	0.52		NC		
	Clear	0.45	0.63	0.66					0.45	0.56	0.59				

**Notes:**

U-Factor in accordance with NFRC-100 and based on whole window values. Performance values shown are for "Single Strength" glass, unless otherwise noted. Performance with "Double Strength" glass, different reinforcement levels, may vary. Performance with 1" grids may vary. Select glass types shown - others are available subject to special inquiry. Tempered Low-E and Bronze Tint glass will affect U-Factor, SHGc and VT values. Obscured glass is treated as Clear glass and shares the same thermal data. All Patio Door Glazing Options are Tempered Glass only.



**ENERGY STAR® 6.0 Qualification Criteria for WINDOWS**

US Climate Zones	U-Factor	SHGc
<b>Northern</b>		
EEP 1	N28	<= 0.28 >= 0.32
EEP 2	N29	= 0.29 >= 0.37
EEP 3	N30	= 0.30 >= 0.42
North-Central	<= 0.30	<= 0.40
South-Central	<= 0.30	<= 0.25
Southern	<= 0.40	<= 0.25

## VINYL WINDOWS: Continued

ENERGY STAR® Version 6.0 - Valid January 1, 2016

Product Line	Glazing Description	NO GRIDS Thermal Performance			NO GRIDS ENERGY STAR® Zone Compliance				WITH GRIDS Thermal Performance			WITH GRIDS ENERGY STAR® Zone Compliance			
		U	SHGc	VT					U	SHGc	VT				
Hopper Window	Tribute HP TG & Elite Dealer TG 3x Low-E/Krypton	0.19	0.23	0.42	N	NC	SC	S	0.20	0.21	0.38	N	NC	SC	S
	Low-E / Argon ENERGY STAR® Package	0.27	0.28	0.50	N	NC			0.27	0.26	0.45	N	NC		
	*High Solar Heat Gain ENERGY STAR® Package	0.30	0.46	0.55	N30				0.30	0.42	0.50	N30			
	DSB - Low-E / Argon	0.30	0.28	0.50		NC			0.30	0.26	0.45		NC		
	Low-E	0.34	0.29	0.51					0.34	0.26	0.46				
	Clear	0.46	0.55	0.57					0.46	0.50	0.51				
Deadlite	Tribute HP TG & Elite Dealer TG 3x Low-E/Krypton	0.16	0.28	0.51	N	NC			0.20	0.25	0.46	N	NC	SC	S
	2x Low-E / Argon ENERGY STAR® Package	0.25	0.34	0.61	N	NC			0.25	0.31	0.55	N	NC		
	*High Solar Heat Gain ENERGY STAR® Package	0.30	0.56	0.68	N30				0.30	0.50	0.61	N30			
	Low-E / Argon	0.30	0.34	0.62		NC			0.30	0.31	0.56		NC		
	Low-E	0.34	0.35	0.62					0.34	0.31	0.56				
	Clear	0.48	0.67	0.70					0.48	0.60	0.62				
Designer Shapes	DSB - Low-E / Argon ENERGY STAR® Package	0.27	0.32	0.61	N	NC			0.27	0.29	0.55	N	NC		
	*High Solar Heat Gain ENERGY STAR® Package	0.28	0.56	0.69	N28				0.28	0.51	0.62	N28			
	DSB - Low-E	0.31	0.32	0.61					0.31	0.29	0.55				
	DSB -Clear	0.46	0.68	0.72					0.46	0.61	0.64				

## MAJESTY ALUMINUM CLAD WOOD WINDOWS

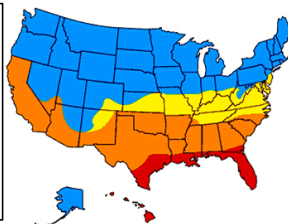
ENERGY STAR® Version 6.0 - Valid January 1, 2016

Product Line	Glazing Description	NO GRIDS Thermal Performance			NO GRIDS ENERGY STAR® Zone Compliance				WITH GRIDS Thermal Performance			WITH GRIDS ENERGY STAR® Zone Compliance			
		U	SHGc	VT					U	SHGc	VT				
Majesty DH	2x Low-E / Argon ENERGY STAR® Package	0.27	0.26	0.49	N	NC			0.27	0.24	0.43	N	NC	SC	S
	2x Low-E / Argon	0.30	0.24	0.43		NC	SC	S	0.30	0.22	0.38		NC	SC	S
Majesty PW	2x Low-E / Argon ENERGY STAR® Package	0.25	0.27	0.51	N	NC			0.25	0.25	0.46	N	NC	SC	S
	2x Low-E / Argon	0.28	0.25	0.45		NC	SC	S	0.28	0.23	0.40		NC	SC	S
Majesty Casement	2x Low-E / Krypton TG ENERGY STAR® Package	0.26	0.22	0.38	N	NC	SC	S	0.26	0.21	0.35	N	NC	SC	S
Majesty Awning	2x Low-E / Krypton TG ENERGY STAR® Package	0.26	0.22	0.38	N	NC	SC	S	0.26	0.21	0.35	N	NC	SC	S
	2x Low-E / Argon TG	0.30	0.22	0.38		NC	SC	S	0.30	0.21	0.35		NC	SC	S
Majesty Fixed Lite	2x Low-E / Argon TG ENERGY STAR® Package	0.26	0.26	0.44	N	NC			0.27	0.23	0.39	N	NC	SC	S
	2x Low-E / Argon	0.30	0.28	0.48		NC			0.30	0.25	0.43		NC	SC	S
Majesty Gliding Window	*High Solar Heat Gain ENERGY STAR® Package	0.28	0.45	0.55	N28				0.28	0.4	0.48	N28	NC		

\*High Solar Heat Gain (SHGc) glazing is designed for use in the Northern ENERGY STAR® climate zone only. Windows glazed with High SHGc glass are ideal for passive solar applications where a reduction in thermal performance (U-Factor) is allowed for a gain in solar heat performance. The Northern ENERGY STAR® climate zone is the BLUE region shown on the map.

High SHGc glazing can qualify for the Northern ENERGY STAR® climate zone by meeting either of the three Equivalent Energy Performance (EEP) criteria shown below.

**Notes:**  
U-Factor in accordance with NFRC-100 and based on whole window values. Performance values shown are for "Single Strength" glass, unless otherwise noted. Performance with "Double Strength" glass, different reinforcement levels, may vary. Performance with 1" grids may vary.  
Select glass types shown - others are available subject to special inquiry. Tempered Low-E and Bronze Tint glass will affect U-Factor, SHGc and VT values. Obscured glass is treated as Clear glass and shares the same thermal data. All Patio Door Glazing Options are Tempered Glass only.



### ENERGY STAR® 6.0 Qualification Criteria for WINDOWS

US Climate Zones	U-Factor	SHGc
<b>Northern</b>	≤ 0.27	ANY
EEP <sup>1</sup>	N28 = 0.28	≥ 0.32
EEP <sup>2</sup>	N29 = 0.29	≥ 0.37
EEP <sup>3</sup>	N30 = 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

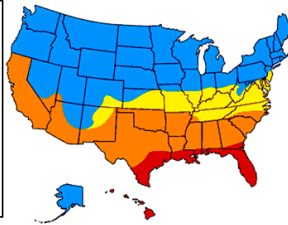
## VINYL IMPACT RATED WINDOWS

ENERGY STAR® Version 6.0 - Valid January 1, 2016

Product Line	Glazing Description	NO GRIDS Thermal Performance			NO GRIDS ENERGY STAR® Zone Compliance				WITH GRIDS Thermal Performance			WITH GRIDS ENERGY STAR® Zone Compliance			
		U	SHGc	VT					U	SHGc	VT				
Vigilance DH	Low-E / Krypton ENERGY STAR® Package	0.27	0.20	0.45	N	NC	SC	S	0.27	0.18	0.40	N	NC	SC	S
	Low-E / Argon	0.30	0.27	0.49		NC			0.30	0.24	0.44		NC	SC	S
Vigilance Casement	Low-E / Krypton ENERGY STAR® Package	0.27	0.18	0.41	N	NC	SC	S	0.27	0.17	0.37	N	NC	SC	S
	Low-E / Argon	0.29	0.25	0.45		NC	SC	S	0.29	0.23	0.40		NC	SC	S
Vigilance Awning	Low-E / Krypton ENERGY STAR® Package	0.27	0.18	0.41	N	NC	SC	S	0.27	0.17	0.37	N	NC	SC	S
	Low-E / Argon	0.29	0.25	0.45		NC	SC	S	0.29	0.23	0.40		NC	SC	S
Vigilance Picture Window	Low-E / Argon ENERGY STAR® Package	0.26	0.30	0.50	N	NC			0.28	0.27	0.45		NC		
	Low-E / Argon	0.27	0.35	0.54	N	NC			0.28	0.31	0.49		NC		

**Notes:**

U-Factor in accordance with NFRC-100 and based on whole window values.  
Performance values shown are for "Single Strength" glass, unless otherwise noted.  
Performance with "Double Strength" glass, different reinforcement levels, may vary.  
Performance with 1" grids may vary.  
Select glass types shown - others are available subject to special inquiry.  
Tempered Low-E and Bronze Tint glass will affect U-Factor, SHGc and VT values.  
Obscured glass is treated as Clear glass and shares the same thermal data.  
All Patio Door Glazing Options are Tempered Glass only.



ENERGY STAR® 6.0 Qualification Criteria for WINDOWS

US Climate Zones	U-Factor	SHGc
<b>Northern</b>	<b>≤ 0.27</b>	<b>ANY</b>
EEP <sup>1</sup>	N28	≥ 0.32
EEP <sup>2</sup>	N29	≥ 0.37
EEP <sup>3</sup>	N30	≥ 0.42
<b>North-Central</b>	<b>≤ 0.30</b>	<b>≤ 0.40</b>
<b>South-Central</b>	<b>≤ 0.30</b>	<b>≤ 0.25</b>
<b>Southern</b>	<b>≤ 0.40</b>	<b>≤ 0.25</b>

## VINYL PATIO DOORS:

ENERGY STAR® Version 6.0 - Valid January 1, 2016

Product Line	Glazing Description	NO GRIDS Thermal Performance			NO GRIDS ENERGY STAR® Zone Compliance				WITH GRIDS Thermal Performance			WITH GRIDS ENERGY STAR® Zone Compliance			
		U	SHGc	VT					U	SHGc	VT				
Vinyl Patio Door	Tribute HP TG 2x Low-E/Krypton	0.20	0.23	0.40	N	NC	SC	S	0.21	0.21	0.35	N	NC	SC	S
	2x Low-E / Argon	0.29	0.25	0.44	N	NC	SC	S	0.29	0.22	0.38	N	NC	SC	S
	Low-E / Argon ENERGY STAR® Package	0.29	0.27	0.51	N	NC			0.29	0.24	0.45	N	NC	SC	S
	** Blinds Between Glass 2x Low-E	0.29	0.25	0.47	N	NC	SC	S	--	--	--				
	Low-E	0.33	0.27	0.51					0.33	0.24	0.45				
	Clear	0.45	0.57	0.60					0.45	0.50	0.52				
Non-Impact DP50	Low-E / Argon ENERGY STAR® Package	0.29	0.23	0.43	N	NC	SC	S	0.29	0.20	0.37	N	NC	SC	S
Vigilance Patio Door	Low-E / Argon ENERGY STAR® Package	0.28	0.18	0.39	N	NC	SC	S	0.28	0.15	0.34	N	NC	SC	S

\*\* Note: Blinds Between Glass are available on Standard Size 2, 3 & 4 Lite doors that use a 3' panel width (6068, 9068 & 12068 door sizes). Custom sizes are available as special order only.

## MAJESTY DOORS:

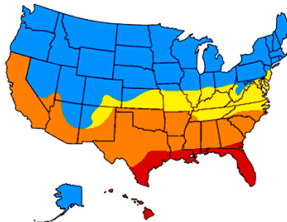
ENERGY STAR® Version 6.0 - Valid January 1, 2016

Product Line	Glazing Description	NO GRIDS Thermal Performance			NO GRIDS ENERGY STAR® Zone Compliance				WITH GRIDS Thermal Performance			WITH GRIDS ENERGY STAR® Zone Compliance			
		U	SHGc	VT					U	SHGc	VT				
Majesty Sliding Door	Low-E / Argon ENERGY STAR® Package	0.29	0.32	0.54	N	NC			0.29	0.28	0.47	N	NC		
Majesty Out-swing Door	2x Low-E / Argon ENERGY STAR® Package	0.29	0.36	0.43	N	NC			0.29	0.31	0.37	N	NC		
Majesty In-swing Door	2x Low-E / Argon ENERGY STAR® Package	0.28	0.35	0.43	N	NC			0.28	0.3	0.36	N	NC		

Indicates Tempered Glass

### Notes:

U-Factor in accordance with NFRC-100 and based on whole window values. Performance values shown are for "Single Strength" glass, unless otherwise noted. Performance with "Double Strength" glass, different reinforcement levels, may vary. Performance with 1" grids may vary. Select glass types shown - others are available subject to special inquiry. Tempered Low-E and Bronze Tint glass will affect U-Factor, SHGc and VT values. Obscured glass is treated as Clear glass and shares the same thermal data. All Patio Door Glazing Options are Tempered Glass only.



### ENERGY STAR® 6.0 Qualification Criteria for PATIO DOORS

Glazing Level	U-Factor	SHGc
Opaque (no glass)	≤ 0.17	No Rating
≤ 1/2 Lite of glass	≤ 0.25	≤ 0.25
≥ 1/2 Lite of glass	Northern	≤ 0.40
	North-Central	≤ 0.30
	South-Central	≤ 0.25
Southern		≤ 0.25

Patio doors fall under the ≥ 1/2 Lite of glazing level category.

## ACOUSTICAL INSULATING WINDOWS:

ENERGY STAR® Version 6.0 - Valid January 1, 2016

Product Line	Glazing Description	NO GRIDS Thermal Performance			NO GRIDS ENERGY STAR® Zone Compliance			WITH GRIDS Thermal Performance			WITH GRIDS ENERGY STAR® Zone Compliance				
		U	SHGc	VT				U	SHGc	VT					
ACOUSTICAL INSULATING VINYL - Classic DH STC35	2x Low-E / Argon ENERGY STAR® Package	0.25	0.27	0.51	N	NC		0.25	0.24	0.45	N	NC	SC	S	
	Low-E / Argon	0.29	0.34	0.52		NC		0.29	0.31	0.46		NC			
	Low-E	0.32	0.34	0.52				0.32	0.31	0.46					
	Clear	0.46	0.56	0.61				0.46	0.50	0.54					
ACOUSTICAL INSULATING VINYL - Slimline DH STC35	2x Low-E / Argon ENERGY STAR® Package	0.26	0.27	0.51	N	NC		0.26	0.24	0.45	N	NC	SC	S	
	Low-E / Argon	0.30	0.34	0.52		NC		0.30	0.31	0.47		NC			
	Low-E	0.33	0.34	0.52				0.33	0.31	0.47					
	Clear	0.46	0.56	0.62				0.46	0.50	0.55					
ACOUSTICAL DOUBLE HUNG STC40	Low-E / Argon+ Clear Storm	0.24	0.26	0.46	N	NC		0.24	0.24	0.41	N	NC	SC	S	
	Low-E + Clear Storm	0.26	0.27	0.46	N	NC		0.26	0.24	0.41	N	NC	SC	S	
	Clear + Clear Storm	0.33	0.50	0.54				0.33	0.45	0.48					
ACOUSTICAL DOUBLE HUNG STC44	Low-E / Argon+ Clear Storm	0.24	0.31	0.45	N	NC		0.24	0.28	0.40	N	NC			
	Low-E + Clear Storm	0.26	0.31	0.45	N	NC		0.26	0.28	0.40	N	NC			
	Clear + Clear Storm	0.33	0.48	0.53				0.33	0.43	0.47					
ACOUSTICAL CASEMENT STC35	2x Low-E / Argon ENERGY STAR® Package	0.26	0.24	0.44	N	NC	SC	S	0.26	0.21	0.39	N	NC	SC	S
	Low-E / Argon	0.29	0.30	0.45		NC		0.29	0.27	0.41		NC			
	Low-E	0.32	0.30	0.45				0.32	0.27	0.41					
	Clear	0.43	0.48	0.53				0.43	0.44	0.48					
ACOUSTICAL CASEMENT STC40	Low-E / Argon+ Clear Storm	0.23	0.25	0.37	N	NC	SC	S	0.23	0.23	0.33	N	NC	SC	S
	Low-E + Clear Storm	0.25	0.24	0.37	N	NC	SC	S	0.25	0.22	0.33	N	NC	SC	S
	Clear + Clear Storm	0.31	0.40	0.44				0.31	0.36	0.39					
ACOUSTICAL AWNING STC35	2x Low-E / Argon ENERGY STAR® Package	0.26	0.24	0.44	N	NC	SC	S	0.26	0.21	0.39	N	NC	SC	S
	Low-E / Argon	0.29	0.30	0.45		NC		0.29	0.27	0.41		NC			
	Low-E	0.32	0.30	0.45				0.32	0.27	0.41					
	Clear	0.44	0.48	0.53				0.44	0.44	0.48					
ACOUSTICAL AWNING STC40	Low-E / Argon+ Clear Storm	0.23	0.25	0.37	N	NC	SC	S	0.23	0.23	0.33	N	NC	SC	S
	Low-E + Clear Storm	0.25	0.24	0.37	N	NC	SC	S	0.25	0.22	0.33	N	NC	SC	S
	Clear + Clear Storm	0.31	0.40	0.44				0.31	0.36	0.39					
ACOUSTICAL C/A FIXED STC35	Low-E / Argon	0.27	0.35	0.53	N	NC		0.27	0.31	0.47	N	NC			
	Low-E	0.31	0.35	0.53				0.31	0.31	0.47					
	Clear	0.44	0.57	0.63				0.44	0.51	0.56					
ACOUSTICAL C/A FIXED STC40	Low-E / Argon	0.21	0.30	0.46	N	NC		0.21	0.27	0.41	N	NC			
	Low-E	0.24	0.30	0.46	N	NC		0.24	0.27	0.41	N	NC			
	Clear	0.31	0.48	0.54				0.31	0.43	0.48					
ACOUSTICAL ROLLING WINDOW STC34	2x Low-E / Argon ENERGY STAR® Package	0.27	0.28	0.52	N	NC		0.27	0.25	0.47	N	NC	SC	S	
	2x Low-E / Argon	0.30	0.26	0.46		NC		0.30	0.24	0.41		NC	SC	S	
	Low-E / Argon	0.31	0.35	0.54				0.31	0.32	0.48					
	Low-E	0.34	0.35	0.54				0.34	0.31	0.48					
	Clear	0.48	0.57	0.63				0.48	0.52	0.56					
ACOUSTICAL ROLLING WINDOW STC40	Low-E / Argon+ Clear Storm	0.24	0.27	0.47	N	NC		0.24	0.24	0.42	N	NC	SC	S	
	Low-E + Clear Storm	0.26	0.27	0.47	N	NC		0.26	0.25	0.42	N	NC	SC	S	
	Clear + Clear Storm	0.33	0.51	0.55				0.33	0.46	0.49					
ACOUSTICAL ROLLING WINDOW STC44	Low-E / Argon+ Clear Storm	0.24	0.31	0.46	N	NC		0.24	0.28	0.41	N	NC			
	Low-E + Clear Storm	0.26	0.32	0.46	N	NC		0.26	0.28	0.41	N	NC			
	Clear + Clear Storm	0.34	0.48	0.54				0.34	0.43	0.48					
ACOUSTICAL PICTURE WINDOW STC32	Low-E / Argon	0.26	0.36	0.55	N	NC		0.26	0.32	0.49	N	NC			
	Low-E	0.29	0.36	0.55		NC		0.29	0.32	0.49		NC			
	Clear	0.44	0.59	0.65				0.44	0.53	0.58					

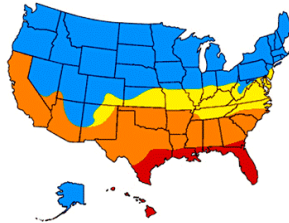
## ACOUSTICAL INSULATING WINDOWS: Continued

ENERGY STAR® Version 6.0 - Valid January 1, 2016

Product Line	Glazing Description	NO GRIDS Thermal Performance			NO GRIDS ENERGY STAR® Zone Compliance			WITH GRIDS Thermal Performance			WITH GRIDS ENERGY STAR® Zone Compliance				
		U	SHGc	VT				U	SHGc	VT					
ACOUSTICAL PICTURE WINDOW Level 1 STC40	Low-E / Argon+ Clear Storm	0.20	0.30	0.51	N	NC		0.20	0.27	0.46	N	NC			
	Low-E + Clear Storm	0.22	0.30	0.51	N	NC		0.22	0.27	0.46	N	NC			
	Clear + Clear Storm	0.30	0.56	0.60	N30			0.30	0.51	0.54	N30				
ACOUSTICAL PICTURE WINDOW Level 2 STC44	Low-E / Argon+ Clear Storm	0.21	0.29	0.51	N	NC		0.21	0.26	0.45	N	NC			
	Low-E + Clear Storm	0.23	0.30	0.51	N	NC		0.23	0.27	0.45	N	NC			
	Clear + Clear Storm	0.31	0.55	0.60				0.31	0.49	0.53					
ACOUSTICAL HOPPER WINDOW STC33	2x Low-E / Argon ENERGY STAR® Package	0.26	0.25	0.46	N	NC	SC	S	0.26	0.23	0.42	N	NC	SC	S
	Low-E / Argon	0.29	0.31	0.48		NC			0.29	0.29	0.43		NC		
	Low-E	0.32	0.31	0.48					0.32	0.29	0.43				
	Clear	0.45	0.51	0.56					0.45	0.47	0.51				
ACOUSTICAL WELDED ROLLING WINDOW STC33	2x Low-E / Argon ENERGY STAR® Package	0.26	0.27	0.50	N	NC			0.26	0.24	0.45	N	NC	SC	S
	Low-E / Argon	0.29	0.27	0.51		NC			0.29	0.24	0.46		NC	SC	S
	Low-E	0.33	0.28	0.51					0.33	0.25	0.46				S
	Clear	0.46	0.55	0.60					0.46	0.49	0.54				

**Notes:**

U-Factor in accordance with NFRC-100 and based on whole window values.  
Performance values shown are for "Single Strength" glass, unless otherwise noted.  
Performance with "Double Strength" glass, different reinforcement levels, may vary.  
Performance with 1" grids may vary.  
Select glass types shown - others are available subject to special inquiry.  
Tempered Low-E and Bronze Tint glass will affect U-Factor, SHGc and VT values.  
Obscured glass is treated as Clear glass and shares the same thermal data.  
All Patio Door Glazing Options are Tempered Glass only.



ENERGY STAR® 6.0 Qualification Criteria for WINDOWS

US Climate Zones		U-Factor	SHGc
Northern		≤ 0.27	ANY
EEP 1	N28	= 0.28	≥ 0.32
EEP 2	N29	= 0.29	≥ 0.37
EEP 3	N30	= 0.30	≥ 0.42
North-Central		≤ 0.30	≤ 0.40
South-Central		≤ 0.30	≤ 0.25
Southern		≤ 0.40	≤ 0.25

Zone compliance based on ENERGY STAR® Version 6.0 - Valid January 1, 2016

For more information on ENERGY STAR® visit [www.energystar.gov](http://www.energystar.gov) for details

2015 ENERGY STAR Qualification Criteria for Windows  
Version 6.0 - Effective January 1, 2016 \*

US Climate Zones		U-Factor	SHGc
Northern		$\leq 0.27$	ANY
EEP <sup>1</sup>	N28	$= 0.28$	$\geq 0.32$
EEP <sup>2</sup>	N29	$= 0.29$	$\geq 0.37$
EEP <sup>3</sup>	N30	$= 0.30$	$\geq 0.42$
North-Central		$\leq 0.30$	$\leq 0.40$
South-Central		$\leq 0.30$	$\leq 0.25$
Southern		$\leq 0.40$	$\leq 0.25$

2015 Energy Efficiency Requirements for Doors

Glazing Level	U-Factor	SHGc	
Opaque (no glass)	$\leq 0.17$	No Rating	
$\leq 1/2$ Lite of glass	$\leq 0.25$	$\leq 0.25$	
$\geq 1/2$ Lite of glass	Northern	$\leq 0.30$	
	North-Central		$\leq 0.40$
	South-Central		$\leq 0.25$
	Southern		



ENERGY STAR® for Windows, Doors, and Skylights

## CLIMATE ZONE MAP

CHANGE FOR THE BETTER WITH ENERGY STAR

