

# Thermal Performance Data

Visions 3500 Sliding Patio Door Transom 1 Panel (9701)



US Qualification Criteria	Climate Zone	U-Value	SHGC
<p>As of January 2016</p>	Northern	<=0.30	<=0.40
	North-Central		<=0.25
	South-Central		
	Southern		

Canadian Qualification Criteria	Climate Zone	U-Value	or	Energy Rating
<p>As of February 2015</p>	Zone 1	<=1.60		>=25
	Zone 2	<=1.40		>=29
	Zone 3	<=1.20		>=34

Air Leakage <= 0.3 cfm/ft2

## U-Value

A measurement of how much energy a material conducts. The lower the U-Value, the greater the insulating effect.

## Solar Heat Gain Coefficient (SHGC)

Measures how well a window or door prevents heat from passing through it. The lower a window or door's SHGC, the less heat it allows to pass through it.

## Visible Light Transmittance

The amount of light in the visible portion of the spectrum that passes through a glazing material.

## Condensation Resistance Rating

Measures how well a window resists the formation of condensation on the inside surface. The higher the number the better resistance to condensation.

## Energy Rating

A value demonstrating the balance between U-Value, SHGC and air leakage. The higher the number, the more efficient the product.

## R-Value

A measurement of how much a material resists heat transfer.

A higher R-Value means a greater insulating effect and a lower rate of heat flow out of the home.

While **R-value** measures resistance to heat transfer, **U-value** measures the rate of heat transfer.

In simple terms, **U-value** is the mathematical reciprocal of **R-value**; that is, **U = 1/R and R = 1/U**.

<sup>a</sup> Total Unit calculations are derived from computer simulations that are then verified by 3rd party testing in accordance with NFRC 100, NFRC 200, and NFRC 500.

<sup>b</sup> Published values reflect 3mm/3mm glass lite thicknesses.

**ENERGY PERFORMANCE DATA**

**Visions 3500 Sliding Patio Door Transom 1 Panel (9701)**



US  
ENERGY STAR V  
6.0

CANADIAN ENERGY  
PERFORMANCE DATA



CANADA  
ENERGY  
STAR v 4.1

Grille Option	Glazing thickness	³NFRC Total Unit Calculations ⁴Glazing Option	CPD #	U-Value	Solar Heat Gain Coefficient	Visible Light Transmittance	Condensation Resistance Rating	US ENERGY STAR V 6.0				U-Value (metric)	Maximum Air Leakage Ls/m²	Air Infiltration/Exfiltration Average	Energy Rating	CANADA ENERGY STAR v 4.1		
								N	NC	SC	S					1	2	3
No GIA or SDL	3/4"	Clear Insul	WEA-N-316-00469-00001	0.44	0.58	0.61	45					2.50	0.6	0.05	19			
	3/4"	Insul Low-E	WEA-N-316-00474-00001	0.31	0.31	0.53	57					1.76	0.6	0.41	19			
	3/4"	Insul Low E w/Argon	WEA-N-316-00481-00001	0.28	0.31	0.53	61	Y	Y			1.59	0.6	0.41	22	Y		
	3/4"	Passive Solar	WEA-N-316-00470-00001	0.32	0.51	0.59	57					1.82	0.6	0.05	30	Y	Y	
	3/4"	Passive Solar w/Argon	WEA-N-316-00477-00001	0.29	0.51	0.59	61					1.65	0.6	0.05	33	Y	Y	
	3/4"	Passive Solar Extreme	WEA-N-316-00471-00001	0.27	0.46	0.57	43					1.53	0.6	0.05	33	Y	Y	
	3/4"	Passive Solar Extreme w/Argon	WEA-N-316-00478-00001	0.24	0.47	0.57	47					1.36	0.6	0.05	37	Y	Y	Y
	3/4"	Zo-e-shield 5	WEA-N-316-00475-00001	0.31	0.21	0.48	58					1.76	0.6	0.05	13			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-316-00482-00001	0.27	0.21	0.48	62	Y	Y	Y	Y	1.53	0.6	0.05	19	Y		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-316-00476-00001	0.26	0.20	0.47	44	Y	Y	Y	Y	1.48	0.6	0.05	19	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-316-00483-00001	0.24	0.20	0.47	48	Y	Y	Y	Y	1.36	0.6	0.05	22	Y	Y	
	3/4"	Zo-e-shield 6	WEA-N-316-00593-00001	0.32	0.21	0.47	56					1.82	0.6	0.05	12			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-316-00599-00001	0.28	0.21	0.47	60	Y	Y	Y	Y	1.59	0.6	0.05	17	Y		
	3/4"	Zo-e SafeGuard Certified	WEA-N-316-00595-00001	0.32	0.21	0.47	56					1.82	0.6	0.05	12			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-316-00601-00001	0.28	0.21	0.47	60	Y	Y	Y	Y	1.59	0.6	0.05	17	Y		
	1"	Zo-e-shield 7	WEA-N-316-00693-00001	0.25	0.19	0.38	68	Y	Y	Y	Y	1.42	0.6	0.05	20	Y		
	1"	Zo-e-shield 7 w/ Argon	WEA-N-316-00694-00001	0.21	0.19	0.38	71	Y	Y	Y	Y	1.19	0.6	0.05	25	Y	Y	Y
	3/4"	Insul Low-E 240	WEA-N-316-00472-00001	0.32	0.20	0.30	57					1.82	0.6	0.05	12			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-316-00479-00001	0.28	0.19	0.30	61	Y	Y	Y	Y	1.59	0.6	0.05	16	Y		
	3/4"	Insul Low-E 340	WEA-N-316-00473-00001	0.31	0.14	0.29	58					1.76	0.6	0.05	9			
3/4"	Insul Low-E 340 w/Argon	WEA-N-316-00480-00001	0.28	0.14	0.29	61	Y	Y	Y	Y	1.59	0.6	0.05	13				
3/4"	Bronze Low E	WEA-N-316-00474-00004	0.31	0.30	0.39	57					1.76	0.6	0.05	19				
3/4"	Bronze Low E w/Argon	WEA-N-316-00481-00004	0.28	0.30	0.39	61	Y	Y			1.59	0.6	0.05	22	Y			
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-316-00484-00001	0.44	0.52	0.54	45					2.50	0.6	0.05	15			
	3/4"	Insul Low-E	WEA-N-316-00474-00002	0.31	0.28	0.48	57					1.76	0.6	0.41	17			
	3/4"	Insul Low E w/Argon	WEA-N-316-00481-00002	0.28	0.28	0.48	61	Y	Y			1.59	0.6	0.41	21	Y		
	3/4"	Passive Solar	WEA-N-316-00485-00001	0.32	0.46	0.52	57					1.82	0.6	0.05	27	Y		
	3/4"	Passive Solar w/Argon	WEA-N-316-00492-00001	0.29	0.46	0.52	61					1.65	0.6	0.05	30	Y	Y	
	3/4"	Passive Solar Extreme	WEA-N-316-00486-00001	0.27	0.42	0.51	43					1.53	0.6	0.05	31	Y	Y	
	3/4"	Passive Solar Extreme w/Argon	WEA-N-316-00493-00001	0.24	0.42	0.51	47					1.36	0.6	0.05	34	Y	Y	Y
	3/4"	Zo-e-shield 5	WEA-N-316-00490-00001	0.31	0.19	0.43	58					1.76	0.6	0.05	12			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-316-00497-00001	0.27	0.19	0.43	62	Y	Y	Y	Y	1.53	0.6	0.05	17	Y		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-316-00491-00001	0.26	0.18	0.42	44	Y	Y	Y	Y	1.48	0.6	0.05	18	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-316-00498-00001	0.24	0.18	0.42	48	Y	Y	Y	Y	1.36	0.6	0.05	21	Y	Y	
	3/4"	Zo-e-shield 6	WEA-N-316-00606-00001	0.34	0.19	0.42	56					1.93	0.6	0.05	9			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-316-00612-00001	0.30	0.19	0.42	60	Y	Y	Y	Y	1.70	0.6	0.05	14			
	3/4"	Zo-e SafeGuard Certified	WEA-N-316-00608-00001	0.34	0.19	0.42	56					1.93	0.6	0.05	9			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-316-00614-00001	0.30	0.19	0.42	60	Y	Y	Y	Y	1.70	0.6	0.05	14			
	1"	Zo-e-shield 7	WEA-N-316-00695-00001	0.26	0.17	0.34	68	Y	Y	Y	Y	1.48	0.6	0.05	17	Y		
	1"	Zo-e-shield 7 w/ Argon	WEA-N-316-00696-00001	0.22	0.17	0.34	71	Y	Y	Y	Y	1.25	0.6	0.05	22	Y	Y	
	3/4"	Insul Low-E 240	WEA-N-316-00487-00001	0.32	0.18	0.26	57					1.82	0.6	0.05	10			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-316-00494-00001	0.28	0.17	0.26	61	Y	Y	Y	Y	1.59	0.6	0.05	15			
	3/4"	Insul Low-E 340	WEA-N-316-00488-00001	0.31	0.13	0.26	58					1.76	0.6	0.05	9			
3/4"	Insul Low-E 340 w/Argon	WEA-N-316-00495-00001	0.28	0.12	0.26	61	Y	Y	Y	Y	1.59	0.6	0.05	12				
3/4"	Bronze Low E	WEA-N-316-00489-00002	0.31	0.27	0.35	57					1.76	0.6	0.05	17				
3/4"	Bronze Low E w/Argon	WEA-N-316-00496-00002	0.28	0.27	0.35	61	Y	Y			1.59	0.6	0.05	21	Y			
1" Or Over GIA or SDL	3/4"	Clear Insul	WEA-N-316-00469-00003	0.44	0.46	0.48	45					2.50	0.6	0.05	12			
	3/4"	Insul Low-E	WEA-N-316-00474-00003	0.31	0.25	0.42	57					1.76	0.6	0.41	15			
	3/4"	Insul Low E w/Argon	WEA-N-316-00481-00003	0.28	0.25	0.42	61	Y	Y	Y	Y	1.59	0.6	0.41	19	Y		
	3/4"	Passive Solar	WEA-N-316-00470-00003	0.32	0.41	0.46	57					1.82	0.6	0.05	24			
	3/4"	Passive Solar w/Argon	WEA-N-316-00477-00003	0.29	0.41	0.46	61					1.65	0.6	0.05	27	Y		
	3/4"	Passive Solar Extreme	WEA-N-316-00471-00003	0.27	0.37	0.45	43	Y	Y			1.53	0.6	0.05	28	Y		
	3/4"	Passive Solar Extreme w/Argon	WEA-N-316-00478-00003	0.24	0.37	0.45	47	Y	Y			1.36	0.6	0.05	31	Y	Y	
	3/4"	Zo-e-shield 5	WEA-N-316-00475-00003	0.31	0.17	0.38	58					1.76	0.6	0.05	11			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-316-00482-00003	0.27	0.17	0.38	62	Y	Y	Y	Y	1.53	0.6	0.05	16	Y		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-316-00476-00003	0.26	0.17	0.37	44	Y	Y	Y	Y	1.48	0.6	0.05	17	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-316-00483-00003	0.24	0.16	0.37	48	Y	Y	Y	Y	1.36	0.6	0.05	19	Y		
	3/4"	Zo-e-shield 6	WEA-N-316-00593-00003	0.32	0.17	0.37	56					1.82	0.6	0.05	10			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-316-00599-00003	0.28	0.17	0.37	60	Y	Y	Y	Y	1.59	0.6	0.05	15			
	3/4"	Zo-e SafeGuard Certified	WEA-N-316-00595-00003	0.32	0.17	0.37	56					1.82	0.6	0.05	10			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-316-00601-00003	0.28	0.17	0.37	60	Y	Y	Y	Y	1.59	0.6	0.05	15			
	1"	Zo-e-shield 7	WEA-N-316-00693-00003	0.25	0.16	0.30	68	Y	Y	Y	Y	1.42	0.6	0.05	18	Y		
	1"	Zo-e-shield 7 w/ Argon	WEA-N-316-00694-00003	0.21	0.15	0.30	71	Y	Y	Y	Y	1.19	0.6	0.05	23	Y	Y	
	3/4"	Insul Low-E 240	WEA-N-316-00472-00003	0.32	0.16	0.23	57					1.82	0.6	0.05	9			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-316-00479-00003	0.28	0.16	0.23	61	Y	Y	Y	Y	1.59	0.6	0.05	14			
	3/4"	Insul Low-E 340	WEA-N-316-00473-00003	0.31	0.12	0.23	58					1.76	0.6	0.05	8			
3/4"	Insul Low-E 340 w/Argon	WEA-N-316-00480-00003	0.28	0.11	0.23	61	Y	Y	Y	Y	1.59	0.6	0.05	11				
3/4"	Bronze Low E	WEA-N-316-00474-00006	0.31	0.24	0.31	57					1.76	0.6	0.05	15				
3/4"	Bronze Low E w/Argon	WEA-N-316-00481-00006	0.28	0.24	0.31	61	Y	Y	Y	Y	1.59	0.6						