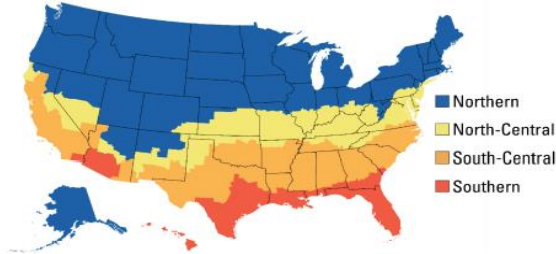



Thermal Performance Data

VUE Inswing Side Hinge French Door (4501)

WEATHER SHIELD.
WINDOWS & DOORS

US Qualification Criteria	Climate Zone	U-Value	SHGC
 <p>Energy Star Version 7.0 Starting October 2023</p>	Northern	<=0.26	<=0.40
	North-Central		
	South-Central	<=0.28	<=0.23
	Southern		

Canadian Qualification Criteria	U-Value	or	Energy Rating
 <p>Energy Star Version 5.0 starting January 2020</p>	<=1.22		>=34
	Air Leakage <= 1.5 L/s/m2		

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**.

^a 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.

ENERGY PERFORMANCE DATA														CANADIAN ENERGY PERFORMANCE DATA			
VUE Inswing Side Hinge French Door (4501)														ENERGY STAR			
Glitter Option	Glazing thickness	NFRC Total Unit Calculations Glazing Option	CPD #	U-Value	Solar Heat Gain Coefficient	Visible Light Transmittance	Condensation Resistance Rating	US ENERGY STAR V 7.0				U-Value (metric)	Maximum Air Leakage L/s/m ²	Air Infiltration/Exfiltration Average	Energy Rating	CANADA ENERGY STAR v 5.0	
								N	NC	SC	S						
No GIA or SDL	1"	Clear Insul	WEA-N-341-00049-00001	0.46	0.49	0.53	49					2.61	1.5	0.1	11		
	1"	Insul Low-E	WEA-N-341-00051-00001	0.35	0.27	0.46	57					1.99	1.5	0.1	12		
	1"	Insul Low E w/Argon	WEA-N-341-00067-00001	0.32	0.27	0.46	57					1.82	1.5	0.1	16		
	1"	Passive Solar	WEA-N-341-00057-00001	0.35	0.43	0.51	57					1.99	1.5	0.1	21		
	1"	Passive Solar w/Argon	WEA-N-341-00073-00001	0.32	0.43	0.51	57					1.82	1.5	0.1	25		
	1"	Passive Solar Extreme	WEA-N-341-00059-00001	0.30	0.39	0.50	45					1.70	1.5	0.1	25		
	1"	Passive Solar Extreme w/Argon	WEA-N-341-00075-00001	0.29	0.39	0.50	52					1.65	1.5	0.1	26		
	1"	Zo-e-shield 5	WEA-N-341-00053-00001	0.34	0.19	0.42	57					1.93	1.5	0.1	9		
	1"	Zo-e-shield 5 w/ Argon	WEA-N-341-00069-00001	0.31	0.19	0.42	57					1.76	1.5	0.1	12		
	1"	Zo-e-shield 5 Extreme	WEA-N-341-00055-00001	0.30	0.18	0.41	46					1.70	1.5	0.1	13		
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-341-00071-00001	0.28	0.18	0.41	50			Y	Y	1.59	1.5	0.1	15		
	1"	Zo-e-shield 6	WEA-N-341-00149-00001	0.34	0.19	0.42	59					1.93	1.5	0.1	9		
	1"	Zo-e-shield 6 w/ Argon	WEA-N-341-00165-00001	0.31	0.19	0.42	57					1.76	1.5	0.1	12		
	1"	Zo-e SafeGuard Certified	WEA-N-341-00159-00001	0.34	0.19	0.41	56					1.93	1.5	0.1	9		
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-341-00175-00001	0.31	0.18	0.41	61					1.76	1.5	0.1	12		
	1"	Insul Low-E 240	WEA-N-341-00061-00001	0.35	0.17	0.25	57					1.99	1.5	0.1	6		
	1"	Insul Low-E 240 w/Argon	WEA-N-341-00077-00001	0.32	0.17	0.25	57					1.82	1.5	0.1	10		
	1"	Insul Low-E 340	WEA-N-341-00063-00001	0.34	0.13	0.25	57					1.93	1.5	0.1	5		
	1"	Insul Low-E 340 w/Argon	WEA-N-341-00079-00001	0.31	0.13	0.25	57					1.76	1.5	0.1	9		
	1"	Bronze Low E	WEA-N-341-00051-00003	0.35	0.23	0.28	57					1.99	1.5	0.1	10		
	1"	Bronze Low E w/Argon	WEA-N-341-00067-00003	0.32	0.22	0.28	57					1.82	1.5	0.1	13		
	1"	Triple Insul LE272/CL/CL	WEA-N-341-00081-00001	0.32	0.26	0.44	58					1.82	1.5	0.01	15		
	1"	Triple Insul LE272/CL/CL w/ Argon	WEA-N-341-00093-00001	0.29	0.26	0.44	58					1.65	1.5	0.01	19		
	1"	Triple Insul LE272/CL/LEi89	WEA-N-341-00083-00001	0.29	0.26	0.43	49					1.65	1.5	0.01	19		
	1"	Triple Insul LE272/CL/LEi89 w/ Argon	WEA-N-341-00095-00001	0.27	0.26	0.43	53					1.53	1.5	0.01	21		
	1"	Zo-e-shield 7	WEA-N-341-00087-00001	0.29	0.17	0.34	58					1.65	1.5	0.1	13		
	1"	Zo-e-shield 7 w/ Argon	WEA-N-341-00099-00001	0.26	0.17	0.34	58	Y	Y	Y	Y	1.48	1.5	0.1	17		
	1-9/16"	ES Zo-e-shield 7	WEA-N-341-00232-00001	0.25	0.17	0.33	58	Y	Y	Y	Y	1.42	1.5	0.01	19		
	1-9/16"	ES Zo-e-shield 7 w/ Argon	WEA-N-341-00240-00001	0.23	0.17	0.33	59	Y	Y	Y	Y	1.31	1.5	0.01	21		
	1-9/16"	ES Triple Insul LE272/CL/CL	WEA-N-341-00225-00001	0.30	0.26	0.42	59					1.70	1.5	0.01	17		
	1-9/16"	ES Triple Insul LE272/CL/CL w/ Argon	WEA-N-341-00233-00001	0.28	0.25	0.42	58					1.59	1.5	0.01	20		
	1-9/16"	ES Triple Insul LE272/CL/LE272	WEA-N-341-00226-00001	0.26	0.24	0.37	59	Y	Y			1.48	1.5	0.01	21		
	1-9/16"	ES Triple Insul LE272/CL/LE272 w/ Argon	WEA-N-341-00234-00001	0.24	0.23	0.37	58	Y	Y	Y	Y	1.36	1.5	0.01	24		
	1-9/16"	ES Triple Insul LE272/CL/LEi89	WEA-N-341-00228-00001	0.27	0.25	0.41	53					1.53	1.5	0.01	21		
	1-9/16"	ES Triple Insul LE272/CL/LEi89 w/ Argon	WEA-N-341-00236-00001	0.25	0.25	0.41	56	Y	Y			1.42	1.5	0.01	23		
	1-9/16"	ES Triple Insul LE272/CL/LE180	WEA-N-341-00227-00001	0.26	0.25	0.41	59	Y	Y			1.48	1.5	0.01	22		
	1-9/16"	ES Triple Insul LE272/CL/LE180 w/ Argon	WEA-N-341-00235-00001	0.24	0.25	0.41	58	Y	Y			1.36	1.5	0.01	24		
	1-9/16"	ES Triple Insul LE366/CL/LEi89	WEA-N-341-00231-00001	0.27	0.17	0.37	52			Y	Y	1.53	1.5	0.01	16		
	1-9/16"	ES Triple Insul LE366/CL/LEi89 w/ Argon	WEA-N-341-00239-00001	0.25	0.17	0.37	55	Y	Y	Y	Y	1.42	1.5	0.01	19		
	1-9/16"	ES Triple Insul LE366/CL/LE180	WEA-N-341-00230-00001	0.26	0.17	0.37	58	Y	Y	Y	Y	1.48	1.5	0.01	17		
1-9/16"	ES Triple Insul LE366/CL/LE180 w/ Argon	WEA-N-341-00238-00001	0.24	0.17	0.37	59	Y	Y	Y	Y	1.36	1.5	0.01	20			

ENERGY PERFORMANCE DATA											CANADIAN ENERGY PERFORMANCE DATA					
VUE Inswing Side Hinge French Door (4501)											ENERGY STAR					
Grille Option	Glazing thickness	NFRC Total Unit Calculations Glazing Option	CPD #	U-Value	Solar Heat Gain Coefficient	Visible Light Transmittance	Condensation Resistance Rating	US ENERGY STAR V 7.0				U-Value (metric)	Maximum Air Leakage L/s/m ²	Air Infiltration/Exfiltration Average	Energy Rating	CANADA ENERGY STAR v 5.0
								N	NC	SC	S					
Less Than 1" GIA or SDL with GIA	1"	Clear Insul	WEA-N-341-00050-00001	0.47	0.42	0.46	48					2.67	1.5	0.1	6	
	1"	Insul Low-E	WEA-N-341-00052-00001	0.36	0.24	0.40	48					2.04	1.5	0.1	9	
	1"	Insul Low E w/Argon	WEA-N-341-00068-00001	0.33	0.24	0.40	57					1.87	1.5	0.1	13	
	1"	Passive Solar	WEA-N-341-00058-00001	0.37	0.38	0.44	57					2.10	1.5	0.1	16	
	1"	Passive Solar w/Argon	WEA-N-341-00074-00001	0.34	0.38	0.44	57					1.93	1.5	0.1	19	
	1"	Passive Solar Extreme	WEA-N-341-00060-00001	0.32	0.34	0.43	45					1.82	1.5	0.1	20	
	1"	Passive Solar Extreme w/Argon	WEA-N-341-00076-00001	0.30	0.34	0.43	48					1.70	1.5	0.1	22	
	1"	Zo-e-shield 5	WEA-N-341-00054-00001	0.36	0.17	0.36	57					2.04	1.5	0.1	5	
	1"	Zo-e-shield 5 w/ Argon	WEA-N-341-00070-00001	0.33	0.17	0.36	57					1.87	1.5	0.1	9	
	1"	Zo-e-shield 5 Extreme	WEA-N-341-00056-00001	0.31	0.16	0.35	46					1.76	1.5	0.1	11	
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-341-00072-00001	0.29	0.16	0.35	50					1.65	1.5	0.1	13	
	1"	Zo-e-shield 6	WEA-N-341-00150-00001	0.36	0.17	0.36	58					2.04	1.5	0.1	5	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-341-00166-00001	0.32	0.16	0.36	57					1.82	1.5	0.1	9	
	1"	Zo-e SafeGuard Certified	WEA-N-341-00160-00001	0.35	0.17	0.35	56					1.99	1.5	0.1	6	
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-341-00176-00001	0.32	0.16	0.35	61					1.82	1.5	0.1	9	
	1"	Insul Low-E 240	WEA-N-341-00062-00001	0.37	0.15	0.21	57					2.10	1.5	0.1	2	
	1"	Insul Low-E 240 w/Argon	WEA-N-341-00078-00001	0.34	0.15	0.21	57					1.93	1.5	0.1	6	
	1"	Insul Low-E 340	WEA-N-341-00064-00001	0.36	0.12	0.22	51					2.04	1.5	0.1	2	
	1"	Insul Low-E 340 w/Argon	WEA-N-341-00080-00001	0.33	0.11	0.22	57					1.87	1.5	0.1	5	
	1"	Bronze Low E	WEA-N-341-00052-00009	0.36	0.20	0.24	48					2.04	1.5	0.1	7	
	1"	Bronze Low E w/Argon	WEA-N-341-00068-00009	0.33	0.20	0.24	57					1.87	1.5	0.1	10	
	1"	Triple Insul LE272/CL/CL	WEA-N-341-00082-00001	0.33	0.23	0.38	58					1.87	1.5	0.01	12	
	1"	Triple Insul LE272/CL/CL w/ Argon	WEA-N-341-00094-00001	0.30	0.23	0.38	58					1.70	1.5	0.01	16	
	1"	Triple Insul LE272/CL/LEi89	WEA-N-341-00084-00001	0.30	0.22	0.37	49					1.70	1.5	0.01	16	
	1"	Triple Insul LE272/CL/LEi89 w/ Argon	WEA-N-341-00096-00001	0.28	0.22	0.37	53			Y	Y	1.59	1.5	0.01	18	
	1"	Zo-e-shield 7	WEA-N-341-00088-00001	0.29	0.15	0.30	58					1.65	1.5	0.1	12	
	1"	Zo-e-shield 7 w/ Argon	WEA-N-341-00100-00001	0.26	0.15	0.30	58	Y	Y	Y	Y	1.48	1.5	0.1	16	
	1-9/16"	ES Zo-e-shield 7	WEA-N-341-00232-00002	0.25	0.15	0.29	58	Y	Y	Y	Y	1.42	1.5	0.01	18	
	1-9/16"	ES Zo-e-shield 7 w/ Argon	WEA-N-341-00240-00002	0.23	0.15	0.29	59	Y	Y	Y	Y	1.31	1.5	0.01	20	
	1-9/16"	ES Triple Insul LE272/CL/CL	WEA-N-341-00225-00002	0.30	0.22	0.37	59					1.70	1.5	0.01	16	
	1-9/16"	ES Triple Insul LE272/CL/CL w/ Argon	WEA-N-341-00233-00002	0.28	0.22	0.37	58			Y	Y	1.59	1.5	0.01	18	
	1-9/16"	ES Triple Insul LE272/CL/LE272	WEA-N-341-00226-00002	0.26	0.21	0.32	59	Y	Y	Y	Y	1.48	1.5	0.01	20	
	1-9/16"	ES Triple Insul LE272/CL/LE272 w/ Argon	WEA-N-341-00234-00002	0.24	0.21	0.32	58	Y	Y	Y	Y	1.36	1.5	0.01	22	
	1-9/16"	ES Triple Insul LE272/CL/LEi89	WEA-N-341-00228-00002	0.27	0.22	0.36	53			Y	Y	1.53	1.5	0.01	19	
	1-9/16"	ES Triple Insul LE272/CL/LEi89 w/ Argon	WEA-N-341-00236-00002	0.25	0.22	0.36	56	Y	Y	Y	Y	1.42	1.5	0.01	21	
	1-9/16"	ES Triple Insul LE272/CL/LE180	WEA-N-341-00227-00002	0.26	0.22	0.35	59	Y	Y	Y	Y	1.48	1.5	0.01	20	
	1-9/16"	ES Triple Insul LE272/CL/LE180 w/ Argon	WEA-N-341-00235-00002	0.24	0.22	0.35	58	Y	Y	Y	Y	1.36	1.5	0.01	23	
	1-9/16"	ES Triple Insul LE366/CL/LEi89	WEA-N-341-00231-00002	0.27	0.15	0.32	52			Y	Y	1.53	1.5	0.01	15	
	1-9/16"	ES Triple Insul LE366/CL/LEi89 w/ Argon	WEA-N-341-00239-00002	0.25	0.15	0.32	55	Y	Y	Y	Y	1.42	1.5	0.01	18	
	1-9/16"	ES Triple Insul LE366/CL/LE180	WEA-N-341-00230-00002	0.26	0.15	0.32	58	Y	Y	Y	Y	1.48	1.5	0.01	16	
	1-9/16"	ES Triple Insul LE366/CL/LE180 w/ Argon	WEA-N-341-00238-00002	0.24	0.15	0.32	59	Y	Y	Y	Y	1.36	1.5	0.01	19	