



Calculation based on ISO 15099

Product name: Quaker V300 & VuPoint Casement		Center-of-glass properties					
ASHRAE/IECC /DOE North American Climate Zone	North, East, West - facing			Cardinal DS 366 / ARG90 / DS 180 / ARG90 / DS i89 - 1-1/4" IG No Grids			
Climate specific recommendations:		Whole-window installed U-value		Ucog-Value			
		W/m2K	BTU/hr.ft2.F	SHGC	W/m2K	BTU/hr.ft2.F	
8		0.94	0.17	0.236	0.657	0.116	
7		0.94	0.17	0.236	0.652	0.115	
6		0.94	0.16	0.236	0.649	0.114	
5		0.94	0.16	0.236	0.648	0.114	
4		0.94	0.16	0.236	0.647	0.114	
Marine North		0.93	0.16	0.236	0.646	0.114	
Marine South	✓	0.93	0.16	0.236	0.642	0.113	
3	✓	0.93	0.16	0.236	0.645	0.114	
2 West	✓	0.90	0.16	0.236	0.599	0.105	
2 East	✓	0.90	0.16	0.236	0.599	0.105	
Quaker V300 & VuPoint Case Cardinal Endur	FRAME		Psi-spacer		Psi-opaque		
	Frame height		U-frame		Ψ		
	mm	in	W/m2K	BTU/hr.ft2.F			
	Head	87	3.41	1.44	0.25	0.009	0.005
Sill	87	3.41	1.50	0.26	0.009	0.005	BTU/hr.ft.F
left jamb	87	3.41	1.36	0.24	0.008	0.005	0.082
right jamb	87	3.41	1.40	0.25	0.010	0.006	Grade B


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ASHRAE/IECC /DOE North American Climate Zone	North, East, West - facing South-facing		Cardinal DS 366 / ARG90 / DS 180 / ARG90 / DS i89 - 1-1/4" IG SDL/no Internal grids < 25.4mm		
Climate specific recommendations:		Whole-window installed U-value		Ucog-Value	
		W/m2K	BTU/hr.ft2.F	SHGC	W/m2K
8		0.94	0.17	0.207	0.657 0.116
7		0.94	0.17	0.207	0.652 0.115
6		0.94	0.16	0.207	0.649 0.114
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Climate specific recommendations:		Whole-window installed U-value		Ucog-Value				
		W/m2K	BTU/hr.ft2.F	SHGC	W/m2K	BTU/hr.ft2.F		
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	Frame height		U-frame		Ψ		W/mK	
	mm	in	W/m2K	BTU/hr.ft2.F	W/mK	BTU/hr.ft.F		
	Head	87	3.41	1.44	0.25	0.009	0.005	0.141
	Sill	87	3.41	1.50	0.26	0.009	0.005	BTU/hr.ft.F
left jamb	87	3.41	1.36	0.24	0.008	0.005	0.082	
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