



Calculation based on ISO 15099

Product name: Universal Inswing Tilt & Turn Window				Center-of-glass properties				
ASHRAE/IECC /DOE North American Climate Zone	South-facing	North, East, West - facing	<div> Passive House Institute US</div>			Cardinal E366/ Arg/ Clear/ Arg/ E180 (6mm) 44,0mm 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	0.92	0.16	0.239	0.710	0.125	
		7	0.91	0.16	0.239	0.693	0.122	
		6	0.90	0.16	0.239	0.681	0.120	
		5	0.90	0.16	0.239	0.680	0.120	
		4	0.90	0.16	0.239	0.679	0.120	
		Marine North	0.90	0.16	0.239	0.679	0.120	
		Marine South	0.90	0.16	0.239	0.681	0.120	
		3	0.90	0.16	0.239	0.680	0.120	
2 West	0.91	0.16	0.239	0.686	0.121			
2 East	0.91	0.16	0.239	0.686	0.121			
Universal Inswing Tilt & Turn		FRAME			Psi-spacer		Psi-opaque	
Cardinal Endur		Frame height		U-frame		Ψ		W/mK
		mm	in	W/m2K	BTU/hr.ft2.F	W/mK	BTU/hr.ft.F	
Head		105	4.12	1.02	0.18	0.017	0.010	0.135
Sill		105	4.12	1.02	0.18	0.017	0.010	BTU/hr.ft.F
left jamb		105	4.12	1.03	0.18	0.018	0.010	0.078
right jamb		105	4.12	1.03	0.18	0.018	0.010	Grade B


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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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