


Calculation based on ISO 15099

Product name: <b>Cascadia Universal Tilt Slide Door</b>			Center-of-glass properties		
ASHRAE/IECC/ DOE North American Climate Zone	South-facing	North, East, West -facing			
			Cardinal E180/ Arg/ Clear/ Arg/ E180 (6mm) 44,0mm No Grids		
Climate specific recommendations:			Whole-window installed U-value		
			W/m2K	BTU/hr.ft2.F	SHGC
8			0.88	0.16	0.514
7			0.87	0.15	0.514
6			0.87	0.15	0.514
5			0.87	0.15	0.514
4	✓		0.87	0.15	0.514
Marine North	✓		0.87	0.15	0.514
Marine South			0.87	0.15	0.514
3			0.87	0.15	0.514
2 West			0.88	0.15	0.514
2 East			0.88	0.15	0.514

Cascadia Universal Tilt Slide Door		FRAME		Psi-spacer	
Cardinal Endur		Frame height		U-frame	
Horizontal two lite left		mm	in	W/m2K	BTU/hr.ft2.F
left head		169	6.64	0.92	0.16
left sill		169	6.64	0.84	0.15
left jamb		146	5.74	0.87	0.15
right MR		93	3.67	0.84	0.15


  

Cascadia Universal Tilt Slide Door		FRAME		Psi-spacer		Psi-opaque
Cardinal Endur		Frame height		U-frame		Ψ
Horizontal two lite right		mm	in	W/m2K	BTU/hr.ft2.F	W/mK
right head		81	3.20	1.15	0.20	0.008
right sill		81	3.20	1.10	0.19	0.010
right jamb		58	2.27	1.09	0.19	0.016
left MR		93	3.66	1.43	0.25	0.021

For horizontal slider the right MR is the right jamb for the left segment and the left MR is the left jamb for the right segment

Valid through August 2021

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Product name: <b>Cascadia Universal Tilt Slide Door</b>		Center-of-glass properties			
ASHRAE/IECC/ DOE North American Climate Zone	South-facing North, East, West -facing			Cardinal E180/ Arg/ Clear/ Arg/ E180 (6mm) 44,0mm 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 BTU/hr.ft2.F
8		0.88	0.16	0.432	0.743 0.131
7		0.87	0.15	0.432	0.730 0.129
6		0.87	0.15	0.432	0.723 0.127
5		0.87	0.15	0.432	0.723 0.127
4		0.87	0.15	0.432	0.724 0.127
Marine North		0.87	0.15	0.432	0.725 0.128
Marine South	✓	0.87	0.15	0.432	0.729 0.128
3	✓	0.87	0.15	0.432	0.726 0.128
2 West		0.88	0.15	0.432	0.736 0.130
2 East		0.88	0.15	0.432	0.736 0.130

Cascadia Universal Tilt Slide Door		FRAME		Psi-spacer	
Cardinal Endur		Frame height		U-frame	
Horizontal two lite left		mm	in	W/m2K	BTU/hr.ft2.F
left head		169	6.64	0.92	0.16
left sill		169	6.64	0.84	0.15
left jamb		146	5.74	0.87	0.15
right MR		93	3.67	0.84	0.15
Cascadia Universal Tilt Slide Door		FRAME		Psi-spacer	
Cardinal Endur		Frame height		U-frame	
Horizontal two lite right		mm	in	W/m2K	BTU/hr.ft2.F
right head		81	3.20	1.15	0.20
right sill		81	3.20	1.10	0.19
right jamb		58	2.27	1.09	0.19
left MR		93	3.66	1.43	0.25

For horizontal slider the right MR is the right jamb for the left segment and the left MR is the left jamb for the right segment

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Climate specific recommendations:		Whole-window installed U-value		Ucog-Value	
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2 West		0.88	0.15	0.432	0.736 0.130
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Cascadia Universal Tilt Slide Door		FRAME		Psi-spacer	
Cardinal Endur		Frame height		U-frame	
Horizontal two lite left		mm	in	W/m2K	BTU/hr.ft2.F
left head		169	6.64	0.92	0.16
left sill		169	6.64	0.84	0.15
left jamb		146	5.74	0.87	0.15
right MR		93	3.67	0.84	0.15
Cascadia Universal Tilt Slide Door		FRAME		Psi-spacer	
Cardinal Endur		Frame height		U-frame	
Horizontal two lite right		mm	in	W/m2K	BTU/hr.ft2.F
right head		81	3.20	1.15	0.20
right sill		81	3.20	1.10	0.19
right jamb		58	2.27	1.09	0.19
left MR		93	3.66	1.43	0.25

For horizontal slider the right MR is the right jamb for the left segment and the left MR is the left jamb for the right segment

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Product name: Cascadia Universal Tilt Slide Door		Center-of-glass properties				
ASHRAE/IECC/ DOE North American Climate Zone	<div>South-facing</div> <div>North, East, West -facing</div>	<div></div>		Cardinal E180/ Arg/ Clear/ Arg/ E180 (6mm) 44,0mm Internal grids And SDL with Internal grids < 25.4mm		
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	0.432	0.743	0.131
7		0.93	0.16	0.432	0.730	0.129
6		0.93	0.16	0.432	0.723	0.127
5		0.92	0.16	0.432	0.723	0.127
4		0.93	0.16	0.432	0.724	0.127
Marine North		0.93	0.16	0.432	0.725	0.128
Marine South	<div>☑</div>	0.93	0.16	0.432	0.729	0.128
3	<div>☑</div>	0.93	0.16	0.432	0.726	0.128
2 West		0.94	0.16	0.432	0.736	0.130
2 East		0.94	0.16	0.432	0.736	0.130

Cascadia Universal Tilt Slide Door Cardinal Endur Horizontal two lite left	FRAME				Psi-spacer		
	Frame height		U-frame		Ψ		
	mm	in	W/m2K	BTU/hr.ft2.F	W/mK	BTU/hr.ft.F	
left head	169	6.64	0.92	0.16	0.015	0.009	
left sill	169	6.64	0.84	0.15	0.015	0.009	
left jamb	146	5.74	0.87	0.15	0.016	0.009	
right MR	93	3.67	0.84	0.15	0.016	0.009	
Cascadia Universal Tilt Slide Door Cardinal Endur Horizontal two lite right	FRAME				Psi-spacer		Psi-opaque
	Frame height		U-frame		Ψ		
	mm	in	W/m2K	BTU/hr.ft2.F	W/mK	BTU/hr.ft.F	
right head	81	3.20	1.15	0.20	0.008	0.005	0.129
right sill	81	3.20	1.10	0.19	0.010	0.006	BTU/hr.ft.F
right jamb	58	2.27	1.09	0.19	0.016	0.009	0.074
left MR	93	3.66	1.43	0.25	0.021	0.012	Grade B

For horizontal slider the right MR is the right jamb for the left segment and the left MR is the left jamb for the right segment

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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
8		0.88	0.16	0.353	0.743 0.131
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Marine North	✓	0.87	0.15	0.353	0.725 0.128
Marine South	✓	0.87	0.15	0.353	0.729 0.128
3	✓	0.87	0.15	0.353	0.726 0.128
2 West		0.88	0.15	0.353	0.736 0.130
2 East		0.88	0.15	0.353	0.736 0.130
<b>Cascadia Universal Tilt Slide Door</b>		FRAME		Psi-spacer	
<b>Cardinal Endur</b>		Frame height		U-frame	
Horizontal two lite left		mm	in	W/m2K	BTU/hr.ft2.F
left head		169	6.64	0.92	0.16
left sill		169	6.64	0.84	0.15
left jamb		146	5.74	0.87	0.15
right MR		93	3.67	0.84	0.15
<b>Cascadia Universal Tilt Slide Door</b>		FRAME		Psi-spacer	
<b>Cardinal Endur</b>		Frame height		U-frame	
Horizontal two lite right		mm	in	W/m2K	BTU/hr.ft2.F
right head		81	3.20	1.15	0.20
right sill		81	3.20	1.10	0.19
right jamb		58	2.27	1.09	0.19
left MR		93	3.66	1.43	0.25
				Psi-opaque	
				W/mK	BTU/hr.ft.F
				0.129	0.074
				Grade B	

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left MR		93	3.66	1.43	0.25
					Psi-opaque
					W/mK
					BTU/hr.ft.F
					Grade B

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