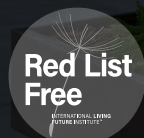


UNIVERSAL SERIES™ STOREFRONT GLAZING

Following up on the launch of the world's first fiberglass window wall in the Spring of 2019, Cascadia Windows & Doors has tackled another traditionally poor performing building envelope component—storefront glazing.

The company has formally unveiled a high-performance, factory-built storefront solution, utilizing Cascadia's award-winning Universal Series window frames. The Cascadia Storefront boasts significantly higher thermal and water penetration resistance ratings compared to traditional, site-built storefront assemblies. This novel solution allows architects and specifiers to improve a notoriously weak point in a building's assembly, while at the same time offering developers and construction firms a simpler, lower cost option.

- Factory-built, ready for quick on-site installation
- Custom sizes & configurations
- Commercial-grade fiberglass frames
- Fully compatible with various commercial doors (provided by others)
- Double (one Low-E), Triple (two Low-E) & Premium Triple (three Low-E)



WHY FIBERGLASS?

Fiberglass is an ideal structural material for window and door frames, which is why Cascadia has used a proprietary, high glass-fiber-to-resin formula for more than a decade.

Nearly 10-times stronger than traditional vinyl/uPVC and 500-times less conductive than aluminum, the Universal Series™ provides the best of both worlds—merging superior thermal and structural performance with durability and award-winning aesthetics.

Designed and manufactured in North America, the Universal Series™ high-performance design translates into lower heating and cooling costs, as well as a more comfortable and resilient building.

- Custom-sizes & configurations built-to-suit project requirements, including inswing & outswing options
- AW, CW, LC & R Performance Class options
- Highest recognized water resistance rating (15 PSF)
- Can withstand extreme temperatures (-40°F through 350°F, and higher) without becoming brittle or soft
- Modelled lifespan of ≈80 years



**ASK US ABOUT OUR
ENVIRONMENTAL PRODUCT
DECLARATIONS (EPDs)**

THERMOSET PULTRUDED
FIBERGLASS FRAME

FOAM INSULATION
THROUGHOUT FRAME

INTERIOR & EXTERIOR
GLASS STOPS AVAILABLE

INTERNALLY FASTENED
CORNER SHEER-BLOCK

EUROPEAN MULTI-POINT
LOCKING HARDWARE

COMMERCIAL-GRADE
DURABILITY

FIXED EXTERIOR GLAZED - ARGON 90% / 10% AIR

NFRC THERMAL PERFORMANCE SUMMARY

LOW-E	CPD	CENTER-OF-GLASS				FENESTRATION				
		U _g IMPERIAL	U _g METRIC	SHGC	VT	U _w IMPERIAL	U _w METRIC	SHGC	VT	CR
STANDARD DOUBLE GLAZED (ONE LOW-E ON SURFACE #2 OR #3 / STAINLESS STEEL SPACER)										
180 (#3)	CWL-K-25-00081-00001	0.26	1.47	0.64	0.77	0.26	1.48	0.54	0.64	61
270	CWL-K-25-00078-00001	0.25	1.40	0.36	0.67	0.25	1.42	0.30	0.56	62
366	CWL-K-25-00079-00001	0.24	1.36	0.27	0.63	0.24	1.36	0.23	0.52	63
340+	CWL-K-25-00080-00001	0.24	1.38	0.18	0.38	0.25	1.42	0.15	0.31	62
PREMIUM DOUBLE GLAZED (TWO LOW-E ON SURFACES #2 & #4 / STAINLESS STEEL SPACER)										
180/i89	CWL-K-25-00085-00001	0.21	1.18	0.58	0.75	0.21	1.19	0.49	0.63	49
270/i89	CWL-K-25-00082-00001	0.20	1.13	0.35	0.66	0.21	1.19	0.29	0.55	50
366/i89	CWL-K-25-00083-00001	0.19	1.11	0.26	0.61	0.20	1.14	0.22	0.51	50
340+/i89	CWL-K-25-00084-00001	0.20	1.12	0.17	0.37	0.21	1.19	0.15	0.31	50
STANDARD TRIPLE GLAZED (TWO LOW-E ON SURFACES #2 & #5 / STAINLESS STEEL SPACER)										
180/180	CWL-K-25-00093-00001	0.13	0.74	0.52	0.67	0.15	0.85	0.43	0.55	76
270/180	CWL-K-25-00090-00001	0.13	0.72	0.32	0.58	0.15	0.85	0.26	0.49	76
366/180	CWL-K-25-00091-00001	0.12	0.71	0.24	0.54	0.14	0.79	0.20	0.45	77
340+/180	CWL-K-25-00092-00001	0.13	0.71	0.15	0.33	0.14	0.79	0.13	0.27	77
PREMIUM TRIPLE GLAZED (THREE LOW-E ON SURFACES #2, #4 & #6 / STAINLESS STEEL SPACER)										
180/180/i89	CWL-K-25-00097-00001	0.11	0.65	0.49	0.65	0.13	0.74	0.41	0.54	63
270/180/i89	CWL-K-25-00094-00001	0.11	0.63	0.30	0.57	0.13	0.74	0.25	0.48	64
366/180/i89	CWL-K-25-00095-00001	0.11	0.62	0.23	0.53	0.13	0.74	0.19	0.44	64
340+/180/i89	CWL-K-25-00096-00001	0.11	0.63	0.15	0.32	0.13	0.74	0.12	0.27	64
STANDARD TRIPLE GLAZED (TWO LOW-E ON SURFACES #2 & #5 / TRISEAL SUPER SPACER)										
180/180	CWL-K-25-00118-00001	0.13	0.74	0.52	0.67	0.14	0.79	0.43	0.55	78
270/180	CWL-K-25-00115-00001	0.13	0.72	0.32	0.58	0.14	0.79	0.26	0.49	78
366/180	CWL-K-25-00116-00001	0.12	0.71	0.24	0.54	0.14	0.79	0.20	0.45	78
340+/180	CWL-K-25-00117-00001	0.13	0.71	0.15	0.33	0.14	0.79	0.13	0.27	78
PREMIUM TRIPLE GLAZED (THREE LOW-E ON SURFACES #2, #4 & #6 / TRISEAL SUPER SPACER)										
180/180/i89	CWL-K-25-00122-00001	0.11	0.65	0.49	0.65	0.13	0.74	0.41	0.54	65
270/180/i89	CWL-K-25-00119-00001	0.11	0.63	0.30	0.57	0.13	0.74	0.25	0.48	65
366/180/i89	CWL-K-25-00120-00001	0.11	0.62	0.23	0.53	0.13	0.74	0.19	0.44	65
340+/180/i89	CWL-K-25-00121-00001	0.11	0.63	0.15	0.32	0.13	0.74	0.12	0.27	65

U-Values calculations: Imperial - Btu/hr · ft² · F / Metric - W / m² · K | Fenestration = Frame, mullion, sash and vision glass
 Contact Cascadia for data on additional glass options

FIXED EXTERIOR GLAZED - 100% AIR

NFRC THERMAL PERFORMANCE SUMMARY

LOW-E	CPD	CENTER-OF-GLASS				FENESTRATION				
		U _w IMPERIAL	U _w METRIC	SHGC	VT	U _w IMPERIAL	U _w METRIC	SHGC	VT	CR
STANDARD DOUBLE GLAZED (ONE LOW-E ON SURFACE #3 / STAINLESS STEEL SPACER)										
270	CWL-K-25-00086-00001	0.29	1.66	0.36	0.67	0.29	1.65	0.30	0.56	58
366	CWL-K-25-00087-00001	0.29	1.63	0.28	0.63	0.28	1.59	0.23	0.52	59
PREMIUM DOUBLE GLAZED (TWO LOW-E ON SURFACES #2 & #4 / STAINLESS STEEL SPACER)										
270/i89	CWL-K-25-00088-00001	0.23	1.31	0.35	0.66	0.23	1.31	0.29	0.55	46
366/i89	CWL-K-25-00089-00001	0.23	1.29	0.27	0.61	0.23	1.31	0.23	0.51	46
STANDARD TRIPLE GLAZED (TWO LOW-E ON SURFACES #2 & #5 / STAINLESS STEEL SPACER)										
180/180	CWL-K-25-00102-00001	0.16	0.92	0.51	0.67	0.17	0.97	0.43	0.55	72
270/180	CWL-K-25-00098-00001	0.16	0.90	0.32	0.58	0.17	0.97	0.27	0.49	73
366/180	CWL-K-25-00099-00001	0.16	0.89	0.24	0.54	0.17	0.97	0.20	0.45	73
PREMIUM TRIPLE GLAZED (THREE LOW-E ON SURFACES #2, #4 & #6 / STAINLESS STEEL SPACER)										
180/180/i89	CWL-K-25-00147-00001	0.14	0.80	0.48	0.65	0.15	0.85	0.41	0.54	60
270/180/i89	CWL-K-25-00100-00001	0.14	0.78	0.30	0.57	0.15	0.85	0.25	0.48	60
366/180/i89	CWL-K-25-00101-00001	0.14	0.77	0.23	0.53	0.15	0.85	0.20	0.44	60
STANDARD TRIPLE GLAZED (TWO LOW-E ON SURFACES #2 & #5 / TRISEAL SUPER SPACER)										
180/180	CWL-K-25-00127-00001	0.16	0.92	0.51	0.67	0.17	0.97	0.43	0.55	74
270/180	CWL-K-25-00123-00001	0.16	0.90	0.32	0.58	0.17	0.97	0.27	0.49	74
366/180	CWL-K-25-00124-00001	0.16	0.89	0.24	0.54	0.17	0.97	0.20	0.45	74
PREMIUM TRIPLE GLAZED (THREE LOW-E ON SURFACES #2, #4 & #6 / TRISEAL SUPER SPACER)										
180/180/i89	CWL-K-25-00148-00001	0.14	0.80	0.48	0.65	0.15	0.85	0.41	0.54	61
270/180/i89	CWL-K-25-00125-00001	0.14	0.78	0.30	0.57	0.15	0.85	0.25	0.48	62
366/180/i89	CWL-K-25-00126-00001	0.14	0.77	0.23	0.53	0.15	0.85	0.20	0.44	62

U-Values calculations: Imperial - Btu/hr · ft² · F / Metric - W / m² · k | Fenestration = Frame, mullion, sash and vision glass
Contact Cascadia for data on additional glass options

FIXED INTERIOR GLAZED - ARGON 90% / 10% AIR

NFRC THERMAL PERFORMANCE SUMMARY

LOW-E	CPD	CENTER-OF-GLASS				FENESTRATION				
		U _g IMPERIAL	U _g METRIC	SHGC	VT	U _w IMPERIAL	U _w METRIC	SHGC	VT	CR
STANDARD DOUBLE GLAZED (ONE LOW-E ON SURFACE #2 OR #3 / STAINLESS STEEL SPACER)										
180 (#3)	CWL-K-26-00048-00001	0.26	1.47	0.64	0.77	0.26	1.48	0.54	0.64	61
270	CWL-K-26-00045-00001	0.25	1.40	0.36	0.67	0.25	1.42	0.30	0.56	62
366	CWL-K-26-00046-00001	0.24	1.36	0.27	0.63	0.24	1.36	0.23	0.52	62
340+	CWL-K-26-00047-00001	0.24	1.38	0.18	0.38	0.25	1.42	0.15	0.31	62
PREMIUM DOUBLE GLAZED (TWO LOW-E ON SURFACES #2 & #4 / STAINLESS STEEL SPACER)										
180/i89	CWL-K-26-00052-00001	0.21	1.18	0.58	0.75	0.21	1.19	0.49	0.63	49
270/i89	CWL-K-26-00049-00001	0.20	1.13	0.35	0.66	0.21	1.19	0.29	0.55	50
366/i89	CWL-K-26-00050-00001	0.19	1.11	0.26	0.61	0.20	1.14	0.22	0.51	50
340+/i89	CWL-K-26-00051-00001	0.20	1.12	0.17	0.37	0.21	1.19	0.15	0.31	50
STANDARD TRIPLE GLAZED (TWO LOW-E ON SURFACES #2 & #5 / STAINLESS STEEL SPACER)										
180/180	CWL-K-26-00060-00001	0.13	0.74	0.52	0.67	0.15	0.85	0.43	0.55	77
270/180	CWL-K-26-00057-00001	0.13	0.72	0.32	0.58	0.15	0.85	0.26	0.49	78
366/180	CWL-K-26-00058-00001	0.12	0.71	0.24	0.54	0.14	0.79	0.20	0.45	78
340+/180	CWL-K-26-00059-00001	0.13	0.71	0.15	0.33	0.15	0.85	0.13	0.27	78
PREMIUM TRIPLE GLAZED (THREE LOW-E ON SURFACES #2, #4 & #6 / STAINLESS STEEL SPACER)										
180/180/i89	CWL-K-26-00064-00001	0.11	0.65	0.49	0.65	0.14	0.79	0.41	0.54	65
270/180/i89	CWL-K-26-00061-00001	0.11	0.63	0.30	0.57	0.13	0.74	0.25	0.48	65
366/180/i89	CWL-K-26-00062-00001	0.11	0.62	0.23	0.53	0.13	0.74	0.19	0.44	65
340+/180/i89	CWL-K-26-00063-00001	0.11	0.63	0.15	0.32	0.13	0.74	0.12	0.27	65
STANDARD TRIPLE GLAZED (TWO LOW-E ON SURFACES #2 & #5 / TRISEAL SUPER SPACER)										
180/180	CWL-K-26-00085-00001	0.13	0.74	0.52	0.67	0.15	0.85	0.43	0.55	79
270/180	CWL-K-26-00082-00001	0.13	0.72	0.32	0.58	0.14	0.79	0.26	0.49	79
366/180	CWL-K-26-00083-00001	0.12	0.71	0.24	0.54	0.14	0.79	0.20	0.45	79
340+/180	CWL-K-26-00084-00001	0.13	0.71	0.15	0.33	0.14	0.79	0.13	0.27	79
PREMIUM TRIPLE GLAZED (THREE LOW-E ON SURFACES #2, #4 & #6 / TRISEAL SUPER SPACER)										
180/180/i89	CWL-K-26-00089-00001	0.11	0.65	0.49	0.65	0.13	0.74	0.41	0.54	66
270/180/i89	CWL-K-26-00086-00001	0.11	0.63	0.30	0.57	0.13	0.74	0.25	0.48	66
366/180/i89	CWL-K-26-00087-00001	0.11	0.62	0.23	0.53	0.13	0.74	0.19	0.44	67
340+/180/i89	CWL-K-26-00088-00001	0.11	0.63	0.15	0.32	0.13	0.74	0.12	0.27	66

U-Values calculations: Imperial - Btu/hr · ft² · F / Metric - W / m² · k | Fenestration = Frame, mullion, sash and vision glass
 Contact Cascadia for data on additional glass options

FIXED INTERIOR GLAZED - 100% AIR
NFRC THERMAL PERFORMANCE SUMMARY

LOW-E	CPD	CENTER-OF-GLASS				FENESTRATION				
		U _w IMPERIAL	U _w METRIC	SHGC	VT	U _w IMPERIAL	U _w METRIC	SHGC	VT	CR
STANDARD DOUBLE GLAZED (ONE LOW-E ON SURFACE #3 / STAINLESS STEEL SPACER)										
270	CWL-K-26-00053-00001	0.29	1.66	0.36	0.67	0.29	1.65	0.30	0.56	58
366	CWL-K-26-00054-00001	0.29	1.63	0.28	0.63	0.28	1.59	0.23	0.52	58
PREMIUM DOUBLE GLAZED (TWO LOW-E ON SURFACES #2 & #4 / STAINLESS STEEL SPACER)										
270/i89	CWL-K-26-00055-00001	0.23	1.31	0.35	0.66	0.23	1.31	0.29	0.55	46
366/i89	CWL-K-26-00056-00001	0.23	1.29	0.27	0.61	0.23	1.31	0.22	0.51	46
STANDARD TRIPLE GLAZED (TWO LOW-E ON SURFACES #2 & #5 / STAINLESS STEEL SPACER)										
180/180	CWL-K-26-00069-00001	0.16	0.92	0.51	0.67	0.18	1.02	0.43	0.55	73
270/180	CWL-K-26-00065-00001	0.16	0.90	0.32	0.58	0.17	0.97	0.27	0.49	74
366/180	CWL-K-26-00066-00001	0.16	0.89	0.24	0.54	0.17	0.97	0.20	0.45	74
PREMIUM TRIPLE GLAZED (THREE LOW-E ON SURFACES #2, #4 & #6 / STAINLESS STEEL SPACER)										
180/180/i89	CWL-K-26-00114-00001	0.14	0.80	0.48	0.65	0.16	0.91	0.41	0.54	61
270/180/i89	CWL-K-26-00067-00001	0.14	0.78	0.30	0.57	0.15	0.85	0.25	0.48	62
366/180/i89	CWL-K-26-00068-00001	0.14	0.77	0.23	0.53	0.15	0.85	0.20	0.44	62
STANDARD TRIPLE GLAZED (TWO LOW-E ON SURFACES #2 & #5 / TRISEAL SUPER SPACER)										
180/180	CWL-K-26-00094-00001	0.16	0.92	0.51	0.67	0.17	0.97	0.43	0.55	75
270/180	CWL-K-26-00090-00001	0.16	0.90	0.32	0.58	0.17	0.97	0.27	0.49	75
366/180	CWL-K-26-00091-00001	0.16	0.89	0.24	0.54	0.17	0.97	0.20	0.45	75
PREMIUM TRIPLE GLAZED (THREE LOW-E ON SURFACES #2, #4 & #6 / TRISEAL SUPER SPACER)										
180/180/i89	CWL-K-26-00115-00001	0.14	0.80	0.48	0.65	0.15	0.85	0.41	0.54	62
270/180/i89	CWL-K-26-00092-00001	0.14	0.78	0.30	0.57	0.15	0.85	0.25	0.48	63
366/180/i89	CWL-K-26-00093-00001	0.14	0.77	0.23	0.53	0.15	0.85	0.20	0.44	63

U-Values calculations: Imperial - Btu/hr · ft² · F / Metric - W / m² · k | Fenestration = Frame, mullion, sash and vision glass
Contact Cascadia for data on additional glass options

INTERNATIONAL PASSIVE HOUSE INSTITUTE (PHI)

THERMAL PERFORMANCE SUMMARY



LOW-E OPTIONS	CENTER-OF-GLASS DATA PER EN 673			U _w (U-VALUE OF WINDOW) PER EN ISO 10077 [W / m²K]
	U _g	G-VALUE	VT	FIXED WINDOW
Calibration Panel	0.700			0.773
180/180	0.646	0.557	0.690	0.728
270/180	0.610	0.353	0.606	0.699
366/180	0.591	0.271	0.564	0.684
340+/180	0.601	0.171	0.339	0.691
180/180/i89	0.604	0.531	0.675	0.693
270/180/i89	0.572	0.341	0.592	0.667
366/180/i89	0.556	0.262	0.551	0.654

Modeled Size: Windows 1230W x 1480H | Swing Door 1100W x 2200H | Sliding Door 2400W x 2500H

Spacer: SuperSpacer® TriSeal™ by Edgetech

Glass: 4mm-16mm-4mm-16mm-4mm

INTERNATIONAL PASSIVE HOUSE INSTITUTE (PHI)

FRAME DATA



	WIDTH [MM]	U-VALUES [W / m²K]	PSI VALUES [W / mK]
FIXED WINDOW	58	0.81	0.020

Modeled Size: Windows 1230W x 1480H | Swing Door 1100W x 2200H | Sliding Door 2400W x 2500H

Spacer: SuperSpacer® TriSeal™ by Edgetech

INTERNATIONAL PASSIVE HOUSE INSTITUTE (PHI)

ADDITIONAL CENTER-OF-GLASS DATA - 5/14.5/5/14.5/5mm



LOW-E OPTIONS	CENTER-OF-GLASS DATA PER EN 673		
	U _g	G-VALUE	VT
Calibration Panel	0.700		
180/180	0.689	0.547	0.680
270/180	0.653	0.349	0.598
366/180	0.635	0.269	0.556
340+/180	0.645	0.171	0.335
180/180/i89	0.641	0.521	0.664
270/180/i89	0.611	0.337	0.583
366/180/i89	0.595	0.260	0.542
340+/180/i89	0.604	0.164	0.326

Spacer: SuperSpacer® TriSeal™ by Edgetech

Glass: 5mm-14.5mm-5mm-14.5mm-5mm

INTERNATIONAL PASSIVE HOUSE INSTITUTE (PHI) - WINDOWS

ADDITIONAL CENTER-OF-GLASS DATA - 6/13/6/13/6mm



LOW-E OPTIONS	CENTER-OF-GLASS DATA PER EN 673		
	U _g	G-VALUE	VT
Calibration Panel	0.700		
180/180	0.740	0.529	0.666
270/180	0.706	0.343	0.585
366/180	0.688	0.267	0.544
340+/180	0.698	0.170	0.327
180/180/i89	0.686	0.503	0.651
270/180/i89	0.656	0.330	0.572
366/180/i89	0.641	0.258	0.532
340+/180/i89	0.650	0.164	0.320

Spacer: SuperSpacer® TriSeal™ by Edgetech

Glass: 6mm-13mm-6mm-13mm-6mm

PASSIVE HOUSE INSTITUTE US [PHIUS - ISO 15099] - WINDOWS

PASSIVE HOUSE INSTITUTE US (PHIUS)

PHIUS ISO 15099



LOW-E OPTIONS	CENTER-OF-GLASS DATA			U _w (U-VALUE OF WINDOW) [BTU / hr ft ² °F]			
	U _g	G-VALUE	VT	FIXED EXT GLAZED		FIXED INT GLAZED	
				U _w	U _f	U _w	U _f
180/180	0.13	0.51	0.67	0.15	0.18	0.15	0.19
270/180	0.12	0.32	0.58	0.14	0.18	0.14	0.20
366/180	0.12	0.24	0.54	0.14	0.17	0.14	0.19
180/180/i89	0.11	0.49	0.65	0.13	0.20	0.13	0.22
270/180/i89	0.11	0.30	0.57	0.13	0.21	0.13	0.22
366/180/i89	0.11	0.23	0.53	0.13	0.20	0.13	0.22

Spacer: Stainless Steel Endur Spacer by Cardinal**Zones:** Values for climate zones 4A, 4B, 4C, and 5C. Request full PHIUS certificates for PSI values, additional performance data, and climate zone recommendations.**Glass:** 6mm-13mm-6mm-13mm-6mm

NAFS KEY PERFORMANCE DATA



TYPE		TESTED SIZE	DESIGN WIND PRESSURE PSF (PA)	WATER INFILTRATION PSF (PA)	NAFS DESIGNATORS	AIR INFILTRATION [L/s*M²]	AIR EXFILTRATION [L/s*M²]
FIXED	FIXED	76" x 120"	60 (2880)	15 (730)	AW-PG60-FW	0.01	0.01
	FIXED	144" x 60"	100 (4800)	15 (730)	CW-PG100-FW	0.00	0.00
	FIXED	102" x 84"	95 (4320)	15 (730)	CW-PG95-FW	0.00	0.00

NOTE: Dimensions above indicate NAFS performance tested sizes which may exceed common size limits available. For minimum/maximum sizes available, please consult Cascadia's Vent Size Charts.

Air Infiltration and Exfiltration tests the overall assembly at 75 Pa. All windows meet and surpass the US and Canadian air leakage performance requirements for A3/Fixed

ACOUSTIC PERFORMANCE - FENESTRATION

ASTM E90

TEST NO.	GLAZING	STC	OITC
FIXED WINDOW - DOUBLE GLAZED			
H4963.01-303 11-RO	6mm Ann. / 14.5mm Air / 4mm Ann.	34	28
TL9781	6mm Ann. / 19.5mm Air / 6mm Ann.	33	26
TL9782	6mm Ann. / 18mm Air / 6Lam. (0.8mm PVB)	37	30
TL9783	6mm Ann. / 13mm Air / 10Lam. (2.3mm Acoustic PVB)	40	33

FIXED WINDOW - TRIPLE GLAZED			
TL9784	6mm Temp. / 14.5mm Air / 4mm Temp. / 14mm Air / 6mm Temp.	35	26
TL9785	6mm Temp. / 14.5mm Air / 4mm Temp. / 12mm Air / 6Lam (0.8mm PVB)	39	31
TL9786	6mm Temp. / 12mm Air / 4mm Temp. / 11mm Air / 10Lam (2.3mm Acoustic PVB)	42	34

OPERABLE WINDOW - DOUBLE GLAZED			
H4964.01-303-11-R0	6mm Ann. / 16mm Air / 4mm Ann.	35	28
TL9775A	6mm Ann. / 19.5mm Air / 6mm Ann.	33	26
TL9776	6mm Ann. / 17.5mm Air / 6Lam. (0.8mm PVB)	38	29
TL9777	6mm Ann. / 13.5mm Air / 10Lam. (2.3mm Acoustic PVB)	41	33

OPERABLE WINDOW - TRIPLE GLAZED			
TL9778	6mm Temp. / 14.5mm Air / 4mm Temp. / 14.5mm Air / 6mm Temp.	37	29
TL9779	6mm Temp. / 14.5mm Air / 4mm Temp. / 12mm Air / 6Lam (0.8mm PVB)	40	32
TL9780	6mm Temp. / 12mm Air / 4mm Temp. / 11mm Air / 10Lam (2.3mm Acoustic PVB)	42	35

DOOR - DOUBLE GLAZED			
TL9787	6mm Ann. / 20.5mm Air / 6mm Ann.	34	27
TL9788	6mm Ann. / 17.5mm Air / 6Lam. (0.8mm PVB)	38	31
TL9789	6mm Ann. / 12.5mm Air / 10Lam. (2.3mm Acoustic PVB)	40	34

DOOR - TRIPLE GLAZED			
TL9790	6mm Temp. / 14mm Air / 4mm Temp. / 15mm Air / 6mm Temp.	37	29
TL9791	6mm Temp. / 13.5mm Air / 4mm Temp. / 12.5mm Air / 6Lam (0.8mm PVB)	40	31
TL9792	6mm Temp. / 12mm Air / 4mm Temp. / 11mm Air / 10Lam (2.3mm Acoustic PVB)	42	34

TESTED CONFIGURATIONS

Fixed Window = Picture Window (47.75" x 59.75"), Operable Window = Tilt & Turn (47.75" x 59.75"), Door = XO Tilt & Slide Door (71.75" x 77.75")

Contact Cascadia for data on additional glass details.

ACOUSTIC PERFORMANCE - CENTER-OF-GLASS

ASTM E90

	GLAZING	SAMPLE SIZE	STC	OITC
GLASS-ONLY (CALCULATED VALUES) 1" IGU NOMINAL	Double 6/6	Center-of-glass	35	28
GLASS-ONLY (CALCULATED VALUES) 1" IGU NOMINAL	Double 6Lami/6	Center-of-glass	38	31
GLASS-ONLY (CALCULATED VALUES) 1" IGU NOMINAL	Double 6Lami/6Lami	Center-of-glass	40	34
GLASS-ONLY (CALCULATED VALUES) 1.25" IGU NOMINAL	Double 6/6	Center-of-glass	38	31
GLASS-ONLY (CALCULATED VALUES) 1.25" IGU NOMINAL	Double 6Lami/6	Center-of-glass	39	32
GLASS-ONLY (CALCULATED VALUES) 1.25" IGU NOMINAL	Double 6Lami/6Lami	Center-of-glass	41	35
GLASS-ONLY (CALCULATED VALUES) 1.70" IGU NOMINAL	Triple 6/4/6	Center-of-glass	39	31
GLASS-ONLY (CALCULATED VALUES) 1.70" IGU NOMINAL	Triple 6Lami/4/6	Center-of-glass	41	34
GLASS-ONLY (CALCULATED VALUES) 1.70" IGU NOMINAL	Triple 4/4/4	Center-of-glass	36	28

NOTE:

Glass-only calculated values for STC and OITC represent approximate values.

Contact Cascadia for data on additional glass details.