

CASCADIA
WINDOWS & DOORS

UNIVERSAL SERIES™

HIGH-PERFORMANCE FIBERGLASS WINDOWS

CASCADIAWINDOWS.COM

BETTER WINDOWS. BETTER BUILDINGS.

RESIDENTIAL | REHABILITATION | COMMERCIAL

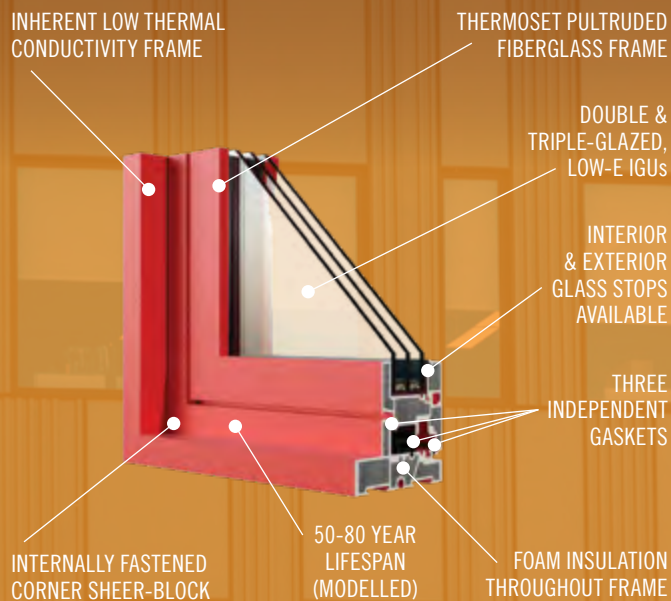
The Universal Series™ offers a patented, high-performance fiberglass solution for fixed and operable windows as well as doors and sliders.

Designed and manufactured in North America, the Universal Series™ features an innovative, commercial-grade fiberglass frame. Available with various double and triple-glazed Low-E IGUs, the Universal Series™ is nearly 10-times stiffer than traditional vinyl windows, allowing for larger windows without sacrificing thermal performance or longevity.

Custom configured and built-to-suit project requirements—and available in virtually any color—the Universal Series™' industry-leading thermal performance allows homes and commercial buildings to exceed emerging, stringent building code requirements, all while maintaining views and natural light.

Learn more at cascadiawindows.com





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. Beyond its high strength and thermal efficiency, Cascadia's pultruded, thermoset fiberglass frames contain no VOC's and represents less embodied energy compared to vinyl or aluminum.

Not susceptible to decay or insect attack, fiberglass possesses a low thermal expansion coefficient allowing it to move at roughly the same rate as the adjacent IGU. This extends the longevity of window seals and gaskets and reduces maintenance costs. Combined with a modelled lifespan of 50-80 years, fiberglass represents the future of high-performance windows and doors.



LARGE-SCALE WINDOWS

With structural strength comparable to commercial aluminum windows, the Universal Series™ can span large openings without concern of creeping or sagging. Large windows can also be quickly coupled together on-site for easier installation, with coupled connections offering identical sightlines as typical mullions.

- Commercial-grade frames offers longevity
- Available with double & triple-glazed Low-E IGUs
- Mix and match interior and exterior frame colors with AAMA 625, non-VOC paints



R-4.2

DOUBLE-GLAZED

R-7.1

TRIPLE-GLAZED

R-7.7

PASSIVE HOUSE

OPERABLE WINDOWS

Universal Series™ operable windows boast exceptional thermal and water resistance ratings, as well as a modelled lifespan of 50-80 years—more than three-times longer than traditional vinyl windows. Combined with European-engineered, multi-point locking hardware, the Universal Series™ operable windows integrate perfectly into a high-performance building envelope.

- Highest recognized water resistance rating (15 PSF)
- Passive House certified options available
- LBC Red-List Free and Energy-Star rated



R-6.7

AWNINGS

R-6.7

CASEMENTS

R-7.7

TILT-AND-TURN

DOORS & SLIDERS

Available in both inswing and outswing options, as well as sliding, the Universal Series™ doors come standard equipped with European-engineered hardware and locks—including keyed and electronic options—offering unparalleled thermal performance, durability and security.

- Inswing, outswing & sliding doors available
- Custom-sizes & configurations
- Manufacturer's warranty on frames (20-years) and hardware (10-years)



R-7.7

INSWING / OUTSWING

R-7.7

SLIDING DOORS

R-7.7

DOUBLE DOORS

UNIVERSAL SERIES™



NFRC THERMAL PERFORMANCE SUMMARY WINDOWS & DOORS

LOW-E OPTIONS - (90% ARGON FILL)	CENTER-OF-GLASS DATA			UW (U-VALUE OF WINDOW) PER NFRC METHOD [BTU/HR*FT²*F]				
	U-GLASS	SHGC	VT	FIXED GLASS	CASEMENT & AWNING	TILT & TURN	SWING DOOR	SLIDING DOOR
DOUBLE GLAZED (ONE LOW-E / STAINLESS STEEL SPACER)								
180 (#3)	0.26	0.68	0.79	0.26	0.25	0.25	0.23	0.24
270 (#2)	0.25	0.37	0.70	0.25	0.24	0.24	0.22	0.23
366 (#2)	0.24	0.27	0.65	0.24	0.24	0.23	0.22	0.23
340 (#2)	0.25	0.18	0.39	0.25	0.24	0.24	0.22	0.23
TRIPLE GLAZED (TWO LOW-E / STAINLESS STEEL SPACER)								
180/180 (#2/5)	0.13	0.56	0.70	0.15	0.17	0.15	0.15	0.15
270/180 (#2/5)	0.13	0.33	0.62	0.15	0.17	0.15	0.15	0.15
366/180 (#2/5)	0.13	0.25	0.57	0.14	0.17	0.15	0.15	0.15
340/180 (#2/5)	0.13	0.16	0.34	0.14	0.17	0.15	0.15	0.15
TRIPLE GLAZED (THREE LOW-E ON SURFACES #2, #4 & #6 / TRISEAL SUPER SPACER)								
180/180/i89	0.12	0.53	0.68	0.13	0.16	0.14	0.14	0.14
270/180/i89	0.11	0.32	0.60	0.13	0.15	0.14	0.13	0.13
366/180/i89	0.11	0.24	0.56	0.13	0.15	0.13	0.13	0.13
340/180/i89	0.11	0.15	0.33	0.13	0.15	0.13	0.13	0.13

FOR FULL TECHNICAL DETAILS, VISIT CASCADIAWINDOWS.COM

INTERNATIONAL PASSIVE HOUSE INSTITUTE [PHI] FRAME DATA



TYPE	FRAME WIDTH [MM]	FRAME U-VALUES [W/M²K]	PSI VALUES [W/MK]
FIXED GLAZING	58	0.81	0.020
INSWING WINDOW	105	0.88	0.021
COUPLED MULLION	99	0.81	0.021

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