

UNIVERSAL SERIES™

CURTAIN WALL VENT ADAPTER - TECHNICAL DATA

Cascadia's Fiberglass Curtain Wall Vent Adapter allows for the integration of high-performance fiberglass vent components into a traditional aluminum curtain wall assembly.

Compatible with most curtain wall systems, Cascadia's Fiberglass Curtain Wall Vent Adapter boasts 100%-250% improved thermal performance compared to traditional aluminum vents, improving the thermal performance of the entire curtain wall system.

- Compatible with most curtain wall systems (custom configurations available)
- Commercial-grade fiberglass frames
- Available with double & triple-glazed Low-E insulated glass units (IGUs)
- Living Building Challenge Red List Free
- Modelled lifespan of ≈80 years

NFRC THERMAL PERFORMANCE SUMMARY - VISION AREAS



WINDOWS & DOORS - DOUBLE GLAZED								
LOW-E OPTIONS	CENTER-OF-GLASS DATA			U _w (U-VALUE OF WINDOW) PER NFRC METHOD [BTU/HR*FT²*F]				
CARDINAL (90% ARGON FILL, UNO)	U _g	SHGC	VT	FIXED	CASEMENT	AWNING	SWING DOOR	SLIDING DOOR
STANDARD DOUBLE GLAZED (ONE LOW-E ON SURFACE #2 OR #3 / STAINLESS STEEL SPACER)								
180 (#3)	0.26	0.64	0.77	0.26	0.25	0.25	0.24	0.24
270 (#2)	0.25	0.36	0.67	0.25	0.24	0.24	0.23	0.23
366 (#2)	0.24	0.27	0.63	0.24	0.24	0.24	0.23	0.23
340 (#2)	0.24	0.18	0.38	0.25	0.24	0.24	0.23	0.23
STANDARD TRIPLE GLAZED (TWO LOW-E ON SURFACES #2 & #5 / STAINLESS STEEL SPACER)								
180/180	0.13	0.52	0.67	0.15	0.17	0.17	0.15	0.15
270/180	0.13	0.32	0.58	0.15	0.17	0.17	0.15	0.15
366/180	0.12	0.24	0.54	0.14	0.17	0.17	0.15	0.15
340/180	0.13	0.15	0.33	0.14	0.17	0.17	0.15	0.15
STANDARD TRIPLE GLAZED (TWO LOW-E ON SURFACES #2 & #5 / TRISEAL SUPER SPACER)								
180/180	0.13	0.52	0.67	0.14	0.17	0.17	0.15	0.15
270/180	0.13	0.32	0.58	0.14	0.16	0.16	0.14	0.15
366/180	0.12	0.24	0.54	0.14	0.16	0.16	0.14	0.15
340/180	0.13	0.15	0.33	0.14	0.16	0.16	0.14	0.15
PREMIUM TRIPLE GLAZED (THREE LOW-E ON SURFACES #2, #4 & #6 / STAINLESS STEEL SPACER)								
180/180/i89	0.11	0.49	0.65	0.13	0.16	0.16	0.14	0.14
270/180/i89	0.11	0.30	0.57	0.13	0.16	0.16	0.14	0.14
366/180/i89	0.11	0.23	0.53	0.13	0.16	0.16	0.14	0.13
340/180/i89	0.11	0.15	0.32	0.13	0.16	0.16	0.14	0.14
PREMIUM TRIPLE GLAZED (THREE LOW-E ON SURFACES #2, #4 & #6 / TRISEAL SUPER SPACER)								
180/180/i89	0.11	0.49	0.65	0.13	0.16	0.16	0.14	0.14
270/180/i89	0.11	0.30	0.57	0.13	0.15	0.16	0.13	0.14
366/180/i89	0.11	0.23	0.53	0.13	0.15	0.15	0.13	0.14
340/180/i89	0.11	0.15	0.32	0.13	0.15	0.16	0.13	0.14

Double-Glazed Glass: 6mm-13mm-6mm

Triple-Glazed Glass: 6mm-13mm-6mm-13mm-6mm

NOTE: Exact thermal performance of casement, awning, and tilt and turn windows in final curtain wall assembly subject to specific project configuration. Performance of specific project configuration should be independently verified.

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Curtain Wall Vent Adapter - Technical Data Sheet

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WINDOWS & DOORS

DOUBLE GLAZED - NFRC THERMAL PERFORMANCE SUMMARY VISION AREAS WITH AIR



WINDOWS & DOORS - DOUBLE GLAZED								
LOW-E OPTIONS	CENTER-OF-GLASS DATA			U _w (U-VALUE OF WINDOW) PER NFRC METHOD [BTU/HR*FT²*F]				
CARDINAL (AIR FILL)	U _g	SHGC	VT	FIXED	CASEMENT	AWNING	SWING DOOR	SLIDING DOOR
STANDARD DOUBLE GLAZED (ONE LOW-E ON SURFACE #2 OR #3 / STAINLESS STEEL SPACER)								
270 (#2)	0.29	0.36	0.67	0.29	0.27	0.27	0.26	0.26
366 (#2)	0.29	0.28	0.63	0.28	0.26	0.27	0.25	0.26
PREMIUM DOUBLE GLAZED (TWO LOW-E ON SURFACES #2 & #4 / STAINLESS STEEL SPACER)								
270/i89	0.23	0.35	0.66	0.23	0.23	0.24	0.22	0.22
366/i89	0.23	0.27	0.61	0.23	0.23	0.24	0.21	0.22

Note: Triple Glazed with Air information can be found on page 5

Glass: 6mm-13mm-6mm

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TRIPLE GLAZED - NFRC THERMAL PERFORMANCE SUMMARY VISION AREAS WITH AIR



WINDOWS & DOORS - TRIPLE GLAZED								
LOW-E OPTIONS	CENTER-OF-GLASS DATA			U _w (U-VALUE OF WINDOW) PER NFRC METHOD [BTU/HR*FT²*F]				
CARDINAL (AIR FILL)	U _g	SHGC	VT	FIXED	CASEMENT	AWNING	SWING DOOR	SLIDING DOOR
STANDARD TRIPLE GLAZED (TWO LOW-E ON SURFACES #2 & #5 / STAINLESS STEEL SPACER)								
180/180	0.16	0.51	0.67	0.17	0.19	0.19	0.17	0.17
270/180	0.16	0.32	0.58	0.17	0.19	0.19	0.17	0.17
366/180	0.16	0.24	0.54	0.17	0.18	0.19	0.17	0.17
STANDARD TRIPLE GLAZED (TWO LOW-E ON SURFACES #2 & #5 / TRISEAL SUPER SPACER)								
180/180	0.16	0.51	0.67	0.17	0.18	0.18	0.17	0.17
270/180	0.16	0.32	0.58	0.17	0.18	0.18	0.16	0.17
366/180	0.16	0.24	0.54	0.17	0.18	0.18	0.16	0.17
PREMIUM TRIPLE GLAZED (THREE LOW-E ON SURFACES #2, #4 & #6 / STAINLESS STEEL SPACER)								
180/180/i89	0.14	0.48	0.65	0.15	0.18	0.18	—	0.16
270/180/i89	0.14	0.30	0.57	0.15	0.17	0.18	0.15	0.15
366/180/i89	0.14	0.23	0.53	0.15	0.17	0.17	0.15	0.15
TRIPLE GLAZED (THREE LOW-E ON SURFACES #2, #4 & #6 / TRISEAL SUPER SPACER)								
180/180/i89	0.14	0.48	0.65	0.15	0.17	0.17	—	0.16
270/180/i89	0.14	0.30	0.57	0.15	0.17	0.17	0.15	0.16
366/180/i89	0.14	0.23	0.53	0.15	0.17	0.17	0.15	0.15

Note: Double Glazed Air information can be found on page 4

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

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CASCADIA
WINDOWS & DOORS



NAFS KEY PERFORMANCE DATA - WINDOWS & DOORS

TYPE		TESTED SIZE [INCHES]	DESIGN WIND PRESSURE PSF (PA)	WATER INFILTRATION PSF (PA)	NAFS DESIGNATORS	AIR INFILTRATION [L/s*M²]	AIR EXFILTRATION [L/s*M²]
OUTSWING	CASEMENT	36" x 60"	60 (2880)	15 (730)	AW-PG60-C	0.01	0.06
	CASEMENT	36" x 84"	45 (2160)	15 (730)	CW-PG45-C	0.06	0.02
	AWNING	60" X 36"	60 (2880)	15 (730)	AW-PG60-AP	0.05	0.29
	AWNING	84" x 36"	60 (2880)	15 (730)	CW-PG60-AP	0.00	0.00
	AWNING	48" x 84"	55 (2640)	15 (730)	CW-PG55-AP	0.01	0.01
	AWNING	76" x 60"	35 (1680)	15 (730)	CW-PG35-AP	0.00	0.00
INSWING	TILT & TURN	48" x 72"	80 (3840)	15 (730)	CW-PG80-DAW	0.00	0.01
	TILT & TURN	60" x 99"	45 (2160)	15 (730)	LC-PG45-AP	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

AVAILABLE WINDOW SIZES

	OUTSIDE-OF-FRAME				PERFORMANCE GRADE	MAX. WEIGHT (LBS)
	MIN. WIDTH (IN)	MIN. HEIGHT (IN)	MAX. WIDTH (IN)	MAX. HEIGHT (IN)		
OPERABLE WINDOWS						
Casement (outswing)	18.75	22.625	36	72	PG 60	220
Awning (outswing)	20	22.625	55	47	PG 55	176
Tilt & Turn (inswing)	24	30	60	99	PG 80 up to 48"x72" / PG 45 at larger sizes	286