

## WINDOWS & DOORS LISTING PROGRAM

**Customer:** A1 Window Manufacturing Ltd.  
**Class:** Fenestration Products – Energy Performance  
**Location:** Burnaby, British Columbia  
**Website:** [www.a1windows.ca](http://www.a1windows.ca)

**Listing No.** W453-1  
**Project No.** W453-1 ED8  
**Effective Date:** April 19, 2010  
**Last Revised Date:** April 12, 2022  
**Expires:** N/A

**Standards:** CSA A440.2-14 “Fenestration Energy Performance”

**Product:** Vinyl Windows

**Markings:** Products are marked with the following content in a permanent manner where it is readily visible after installation:

- a) Manufacturer’s name, Trademark or other recognized symbol or identification.
- b) QAI file Number: W453
- c) QAI logo shown here:



- d) “Evaluation for energy performance in accordance with CSA A440.2” / “Évalué pour la performance d’énergie en accord à la norme CSA A440.2”

### Models / Ratings:

#### Ultra Series Picture Window

GO #	Model Code	U-Value (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G01	A1W-ULTR-PC-3,CL-3,180(3)-13AR95EN	1.50	0.56	39
G02	A1W-ULTR-PC-3,272(2)-3,CL-13AR95EN	1.45	0.34	28
G03	A1W-ULTR-PC-3,366(2)-3,CL-13AR95EN	1.41	0.23	22
G04	A1W-ULTR-PC-4,CL-4,180(3)-13AR95EN	1.50	0.55	39
G05	A1W-ULTR-PC-4,272(2)-4,CL-13AR95EN	1.45	0.34	28
G06	A1W-ULTR-PC-4,366(2)-4,CL-13AR95EN	1.42	0.23	22

GO #	Model Code	U-Value (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G07	A1W-ULTR-PC-3,CL-3,CL-3,180(5)-13AR95EN	1.12	0.51	45
G08	A1W-ULTR-PC-3,272(2)-3,CL-3,CL-13AR95EN	1.13	0.31	33
G09	A1W-ULTR-PC-3,366(2)-3,CL-3,CL-13AR95EN	1.11	0.21	28
G10	A1W-ULTR-PC-4,CL-4,CL-4,180(5)-13AR95EN	1.12	0.49	44
G11	A1W-ULTR-PC-4,272(2)-4,CL-4,CL-13AR95EN	1.13	0.31	33
G12	A1W-ULTR-PC-4,366(2)-4,CL-4,CL-13AR95EN	1.11	0.21	28
G13	A1W-ULTR-PC-5,CL-5,CL-5,180(5)-13AR95EN	1.12	0.48	43
G14	A1W-ULTR-PC-5,272(2)-5,CL-5,CL-13AR95EN	1.13	0.31	33
G15	A1W-ULTR-PC-5,366(2)-5,CL-5,CL-13AR95EN	1.11	0.21	28
G16	A1W-ULTR-PC-5,CL-5,180(3)-13AR95EN	1.50	0.54	38
G17	A1W-ULTR-PC-5,272(2)-5,CL-13AR95EN	1.45	0.33	27
G18	A1W-ULTR-PC-5,366(2)-5,CL-13AR95EN	1.42	0.23	22
G19	A1W-ULTR-PC-6,CL-6,180(3)-13AR95EN	1.50	0.53	38
G20	A1W-ULTR-PC-6,272(2)-6,CL-13AR95EN	1.45	0.33	27
G21	A1W-ULTR-PC-6,366(2)-6,CL-13AR95EN	1.42	0.22	22
G22	A1W-ULTR-PC-3,CL-3,180(3)-13AR90SS	1.53	0.56	39
G23	A1W-ULTR-PC-4,CL-4,180(3)-11AR90SS	1.53	0.55	38
G24	A1W-ULTR-PC-5,CL-5,180(3)-10AR90SS	1.60	0.54	36
G25	A1W-ULTR-PC-6,CL-6,180(3)-8AR90SS	1.73	0.52	32
G26	A1W-ULTR-PC-3,270(2)-3,CL-13AR90SS	1.47	0.30	25
G27	A1W-ULTR-PC-4,270(2)-4,CL-11AR90SS	1.47	0.30	25
G28	A1W-ULTR-PC-5,270(2)-5,CL-10AR90SS	1.54	0.30	23
G29	A1W-ULTR-PC-6,270(2)-6,CL-8AR90SS	1.67	0.30	21
G30	A1W-ULTR-PC-3,366(2)-3,CL-13AR90SS	1.45	0.23	21
G31	A1W-ULTR-PC-4,366(2)-4,CL-11AR90SS	1.45	0.23	21
G32	A1W-ULTR-PC-5,366(2)-5,CL-10AR90SS	1.52	0.23	20
G33	A1W-ULTR-PC-6,366(2)-6,CL-8AR90SS	1.65	0.23	17
G34	A1W-ULTR-PC-3,366(2)-3,i89(4)-13AR90SS	1.21	0.22	26
G35	A1W-ULTR-PC-4,366(2)-4,i89(4)-11AR90SS	1.23	0.22	26
G36	A1W-ULTR-PC-5,366(2)-5,i89(4)-10AR90SS	1.29	0.22	24
G37	A1W-ULTR-PC-6,366(2)-6,i89(4)-8AR90SS	1.38	0.22	22
G38	A1W-ULTR-PC-3,CL-3,CL-3,180(5)-14AR90SS	1.14	0.50	44
G39	A1W-ULTR-PC-4,CL-4,CL-4,180(5)-13AR90SS	1.15	0.49	43
G40	A1W-ULTR-PC-5,CL-5,CL-5,180(5)-11AR90SS	1.18	0.48	42
G41	A1W-ULTR-PC-6,CL-6,CL-6,180(5)-10AR90SS	1.25	0.46	39
G42	A1W-ULTR-PC-3,270(2)-3,CL-3,CL-14AR90SS	1.15	0.28	31
G43	A1W-ULTR-PC-4,270(2)-4,CL-4,CL-13AR90SS	1.15	0.28	31
G44	A1W-ULTR-PC-5,270(2)-5,CL-5,CL-11AR90SS	1.17	0.27	30
G45	A1W-ULTR-PC-6,270(2)-6,CL-6,CL-10AR90SS	1.23	0.27	28
G46	A1W-ULTR-PC-3,366(2)-3,CL-3,CL-14AR90SS	1.14	0.21	27
G47	A1W-ULTR-PC-4,366(2)-4,CL-4,CL-13AR90SS	1.14	0.21	27
G48	A1W-ULTR-PC-5,366(2)-5,CL-5,CL-11AR90SS	1.16	0.21	27
G49	A1W-ULTR-PC-6,366(2)-6,CL-6,CL-10AR90SS	1.22	0.21	25
G50	A1W-ULTR-PC-3,270(2)-3,CL-3,180(5)-14AR90SS	0.88	0.27	36
G51	A1W-ULTR-PC-4,270(2)-4,CL-4,180(5)-13AR90SS	0.90	0.27	36

GO #	Model Code	U-Value (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G52	A1W-ULTR-PC-5,270(2)-5,CL-5,180(5)-11AR90SS	0.94	0.27	35
G53	A1W-ULTR-PC-6,270(2)-6,CL-6,180(5)-10AR90SS	1.01	0.26	33
G54	A1W-ULTR-PC-4,366(2)-5,i89(4)-10AR90SS	1.29	0.22	24
G55	A1W-ULTR-PC-3,CL-3,CL-3,180(5)-14AR90SS-G1<1	1.15	0.45	41
G56	A1W-ULTR-PC-4,CL-4,CL-4,180(5)-13AR90SS-G1<1	1.17	0.44	40
G57	A1W-ULTR-PC-5,CL-5,CL-5,180(5)-11AR90SS-G1<1	1.25	0.43	37
G58	A1W-ULTR-PC-6,CL-6,CL-6,180(5)-10AR90SS-G1<1	1.26	0.41	36

### Ultra Series Casement Window

GO #	Model Code	U-Value (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G01	A1W-ULTR-CA-3,CL-3,180(3)-13AR95EN	1.51	0.43	32
G02	A1W-ULTR-CA-3,272(2)-3,CL-13AR95EN	1.48	0.26	22
G03	A1W-ULTR-CA-3,366(2)-3,CL-13AR95EN	1.45	0.17	18
G04	A1W-ULTR-CA-4,CL-4,180(3)-13AR95EN	1.52	0.42	31
G05	A1W-ULTR-CA-4,272(2)-4,CL-13AR95EN	1.49	0.26	22
G06	A1W-ULTR-CA-4,366(2)-4,CL-13AR95EN	1.46	0.17	18
G07	A1W-ULTR-CA-3,CL-3,CL-3,180(5)-13AR95EN	1.21	0.39	36
G08	A1W-ULTR-CA-3,272(2)-3,CL-3,CL-13AR95EN	1.22	0.24	27
G09	A1W-ULTR-CA-3,366(2)-3,CL-3,CL-13AR95EN	1.20	0.16	23
G10	A1W-ULTR-CA-4,CL-4,CL-4,180(5)-13AR95EN	1.20	0.37	35
G11	A1W-ULTR-CA-4,272(2)-4,CL-4,CL-13AR95EN	1.21	0.24	27
G12	A1W-ULTR-CA-4,366(2)-4,CL-4,CL-13AR95EN	1.19	0.16	23
G13	A1W-ULTR-CA-3,CL-3,180(3)-13AR90SS	1.50	0.43	32
G14	A1W-ULTR-CA-4,CL-4,180(3)-11AR90SS	1.51	0.42	31
G15	A1W-ULTR-CA-3,270(2)-3,CL-13AR90SS	1.45	0.23	21
G16	A1W-ULTR-CA-4,270(2)-4,CL-11AR90SS	1.46	0.23	21
G17	A1W-ULTR-CA-3,366(2)-3,CL-13AR90SS	1.43	0.17	18
G18	A1W-ULTR-CA-4,366(2)-4,CL-11AR90SS	1.44	0.18	18
G19	A1W-ULTR-CA-3,366(2)-3,i89(4)-13AR90SS	1.26	0.17	22
G20	A1W-ULTR-CA-4,366(2)-4,i89(4)-11AR90SS	1.28	0.17	21
G21	A1W-ULTR-CA-3,CL-3,CL-3,180(5)-13AR90SS	1.17	0.39	37
G22	A1W-ULTR-CA-4,CL-4,CL-4,180(5)-11AR90SS	1.21	0.37	34
G23	A1W-ULTR-CA-3,270(2)-3,CL-3,CL-13AR90SS	1.18	0.22	26
G24	A1W-ULTR-CA-4,270(2)-4,CL-4,CL-11AR90SS	1.20	0.21	25
G25	A1W-ULTR-CA-3,366(2)-3,CL-3,CL-13AR90SS	1.17	0.16	23
G26	A1W-ULTR-CA-4,366(2)-4,CL-4,CL-11AR90SS	1.19	0.16	23
G27	A1W-ULTR-CA-3,270(2)-3,CL-3,180(5)-13AR90SS	0.98	0.21	30
G28	A1W-ULTR-CA-4,270(2)-4,CL-4,180(5)-11AR90SS	1.02	0.21	29
G29	A1W-ULTR-CA-4,366(2)-5,i89(4)-10AR90SS	1.33	0.17	20
G30	A1W-ULTR-CA-3,CL-3,CL-3,180(5)-13AR90SS-G1<1	1.19	0.35	34
G31	A1W-ULTR-CA-4,CL-4,CL-4,180(5)-11AR90SS-G1<1	1.25	0.34	32

### Ultra Series Awning Window

GO #	Model Code	U-Value (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G01	A1W-ULTR-AW-3,CL-3,180(3)-13AR95EN	1.53	0.43	31
G02	A1W-ULTR-AW-3,272(2)-3,CL-13AR95EN	1.49	0.26	22
G03	A1W-ULTR-AW-3,366(2)-3,CL-13AR95EN	1.46	0.17	18
G04	A1W-ULTR-AW-4,CL-4,180(3)-13AR95EN	1.54	0.42	30
G05	A1W-ULTR-AW-4,272(2)-4,CL-13AR95EN	1.50	0.26	22
G06	A1W-ULTR-AW-4,366(2)-4,CL-13AR95EN	1.47	0.17	17
G07	A1W-ULTR-AW-3,CL-3,CL-3,180(5)-13AR95EN	1.21	0.39	36
G08	A1W-ULTR-AW-3,272(2)-3,CL-3,CL-13AR95EN	1.22	0.24	27
G09	A1W-ULTR-AW-3,366(2)-3,CL-3,CL-13AR95EN	1.21	0.16	23
G10	A1W-ULTR-AW-4,CL-4,CL-4,180(5)-13AR95EN	1.21	0.37	35
G11	A1W-ULTR-AW-4,272(2)-4,CL-4,CL-13AR95EN	1.21	0.24	27
G12	A1W-ULTR-AW-4,366(2)-4,CL-4,CL-13AR95EN	1.20	0.16	23
G13	A1W-ULTR-AW-3,CL-3,180(3)-13AR90SS	1.51	0.43	31
G14	A1W-ULTR-AW-4,CL-4,180(3)-11AR90SS	1.52	0.42	30
G15	A1W-ULTR-AW-3,270(2)-3,CL-13AR90SS	1.47	0.23	21
G16	A1W-ULTR-AW-4,270(2)-4,CL-11AR90SS	1.47	0.23	21
G17	A1W-ULTR-AW-3,366(2)-3,CL-13AR90SS	1.45	0.17	17
G18	A1W-ULTR-AW-4,366(2)-4,CL-11AR90SS	1.46	0.18	18
G19	A1W-ULTR-AW-3,366(2)-3,i89(4)-13AR90SS	1.30	0.17	21
G20	A1W-ULTR-AW-4,366(2)-4,i89(4)-11AR90SS	1.30	0.17	21
G21	A1W-ULTR-AW-3,CL-3,CL-3,180(5)-13AR90SS	1.18	0.39	36
G22	A1W-ULTR-AW-4,CL-4,CL-4,180(5)-11AR90SS	1.22	0.37	34
G23	A1W-ULTR-AW-3,270(2)-3,CL-3,CL-13AR90SS	1.18	0.22	26
G24	A1W-ULTR-AW-4,270(2)-4,CL-4,CL-11AR90SS	1.20	0.21	25
G25	A1W-ULTR-AW-3,366(2)-3,CL-3,CL-13AR90SS	1.17	0.16	23
G26	A1W-ULTR-AW-4,366(2)-4,CL-4,CL-11AR90SS	1.19	0.16	23
G27	A1W-ULTR-AW-3,270(2)-3,CL-3,180(5)-13AR90SS	0.99	0.21	30
G28	A1W-ULTR-AW-4,270(2)-4,CL-4,180(5)-11AR90SS	1.03	0.21	29
G29	A1W-ULTR-AW-4,366(2)-5,i89(4)-10AR90SS	1.36	0.17	19
G30	A1W-ULTR-AW-3,CL-3,CL-3,180(5)-13AR90SS-G1<1	1.19	0.35	34
G31	A1W-ULTR-AW-4,CL-4,CL-4,180(5)-11AR90SS-G1<1	1.25	0.34	32

### Ultra Series Single Sliding Window

GO #	Model Code	U-Value (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G01	A1W-ULTR-SS-3,CL-3,180(3)-13AR95EN	1.64	0.55	36
G02	A1W-ULTR-SS-3,272(2)-3,CL-13AR95EN	1.59	0.33	24
G03	A1W-ULTR-SS-3,366(2)-3,CL-13AR95EN	1.55	0.22	19
G04	A1W-ULTR-SS-4,CL-4,180(3)-13AR95EN	1.65	0.53	34
G05	A1W-ULTR-SS-4,272(2)-4,CL-13AR95EN	1.60	0.33	24
G06	A1W-ULTR-SS-4,366(2)-4,CL-13AR95EN	1.57	0.22	18

GO #	Model Code	U-Value (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G07	A1W-ULTR-SS-3,CL-3,CL-3,180(5)-13AR95EN	1.24	0.49	41
G08	A1W-ULTR-SS-3,272(2)-3,CL-3,CL-13AR95EN	1.24	0.31	31
G09	A1W-ULTR-SS-3,366(2)-3,CL-3,CL-13AR95EN	1.22	0.20	25
G10	A1W-ULTR-SS-4,CL-4,CL-4,180(5)-13AR95EN	1.25	0.47	40
G11	A1W-ULTR-SS-4,272(2)-4,CL-4,CL-13AR95EN	1.25	0.30	30
G12	A1W-ULTR-SS-4,366(2)-4,CL-4,CL-13AR95EN	1.23	0.20	24
G13	A1W-ULTR-SS-3,CL-3,180(3)-13AR90SS	1.66	0.53	34
G14	A1W-ULTR-SS-4,CL-4,180(3)-11AR90SS	1.67	0.52	33
G15	A1W-ULTR-SS-3,270(2)-3,CL-13AR90SS	1.60	0.29	22
G16	A1W-ULTR-SS-4,270(2)-4,CL-11AR90SS	1.61	0.29	21
G17	A1W-ULTR-SS-3,366(2)-3,CL-13AR90SS	1.58	0.22	18
G18	A1W-ULTR-SS-4,366(2)-4,CL-11AR90SS	1.58	0.22	18
G19	A1W-ULTR-SS-3,366(2)-3,i89(4)-13AR90SS	1.36	0.21	22
G20	A1W-ULTR-SS-4,366(2)-4,i89(4)-11AR90SS	1.38	0.21	22
G21	A1W-ULTR-SS-5,366(2)-5,i89(4)-10AR90SS	1.44	0.21	20
G22	A1W-ULTR-SS-6,366(2)-6,i89(4)-8AR90SS	1.55	0.21	18
G23	A1W-ULTR-SS-3,CL-3,CL-3,180(5)-13AR90SS	1.24	0.47	40
G24	A1W-ULTR-SS-4,CL-4,CL-4,180(5)-11AR90SS	1.27	0.46	39
G25	A1W-ULTR-SS-5,CL-5,CL-5,180(5)-10AR90SS	1.35	0.44	36
G26	A1W-ULTR-SS-6,CL-6,CL-6,180(5)-8AR90SS	1.44	0.43	33
G27	A1W-ULTR-SS-3,270(2)-3,CL-3,CL-13AR90SS	1.24	0.27	28
G28	A1W-ULTR-SS-4,270(2)-4,CL-4,CL-11AR90SS	1.26	0.26	27
G29	A1W-ULTR-SS-5,270(2)-5,CL-5,CL-10AR90SS	1.33	0.26	26
G30	A1W-ULTR-SS-6,270(2)-6,CL-6,CL-8AR90SS	1.43	0.26	24
G31	A1W-ULTR-SS-3,366(2)-3,CL-3,CL-13AR90SS	1.23	0.20	24
G32	A1W-ULTR-SS-4,366(2)-4,CL-4,CL-11AR90SS	1.24	0.20	24
G33	A1W-ULTR-SS-5,366(2)-5,CL-5,CL-10AR90SS	1.31	0.20	23
G34	A1W-ULTR-SS-6,366(2)-6,CL-6,CL-8AR90SS	1.41	0.20	20
G35	A1W-ULTR-SS-3,270(2)-3,CL-3,180(5)-13AR90SS	0.99	0.26	33
G36	A1W-ULTR-SS-4,270(2)-4,CL-4,180(5)-11AR90SS	1.03	0.26	32
G37	A1W-ULTR-SS-5,270(2)-5,CL-5,180(5)-10AR90SS	1.11	0.25	30
G38	A1W-ULTR-SS-6,270(2)-6,CL-6,180(5)-8AR90SS	1.21	0.25	28
G39	A1W-ULTR-SS-3,CL-3,CL-3,180(5)-13AR90SS-G1<1	1.26	0.44	38
G40	A1W-ULTR-SS-4,CL-4,CL-4,180(5)-11AR90SS-G1<1	1.34	0.42	35
G41	A1W-ULTR-SS-5,CL-5,CL-5,180(5)-10AR90SS-G1<1	1.36	0.41	34
G42	A1W-ULTR-SS-6,CL-6,CL-6,180(5)-8AR90SS-G1<1	1.46	0.40	31

**Ultra Series Single Hung Window**

GO #	Model Code	U-Value (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G01	A1W-ULTR-SH-3,CL-3,180(3)-13AR95EN	1.65	0.55	35
G02	A1W-ULTR-SH-3,272(2)-3,CL-13AR95EN	1.60	0.33	23
G03	A1W-ULTR-SH-3,366(2)-3,CL-13AR95EN	1.57	0.22	18

GO #	Model Code	U-Value (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G04	A1W-ULTR-SH-4,CL-4,180(3)-13AR95EN	1.66	0.53	33
G05	A1W-ULTR-SH-4,272(2)-4,CL-13AR95EN	1.61	0.33	23
G06	A1W-ULTR-SH-4,366(2)-4,CL-13AR95EN	1.58	0.22	17
G07	A1W-ULTR-SH-3,CL-3,CL-3,180(5)-13AR95EN	1.25	0.49	40
G08	A1W-ULTR-SH-3,272(2)-3,CL-3,CL-13AR95EN	1.26	0.30	29
G09	A1W-ULTR-SH-3,366(2)-3,CL-3,CL-13AR95EN	1.24	0.20	24
G10	A1W-ULTR-SH-4,CL-4,CL-4,180(5)-13AR95EN	1.26	0.47	39
G11	A1W-ULTR-SH-4,272(2)-4,CL-4,CL-13AR95EN	1.26	0.30	29
G12	A1W-ULTR-SH-4,366(2)-4,CL-4,CL-13AR95EN	1.24	0.20	24
G13	A1W-ULTR-SH-3,CL-3,180(3)-13AR90SS	1.66	0.53	34
G14	A1W-ULTR-SH-4,CL-4,180(3)-11AR90SS	1.67	0.52	33
G15	A1W-ULTR-SH-3,270(2)-3,CL-13AR90SS	1.61	0.29	21
G16	A1W-ULTR-SH-4,270(2)-4,CL-11AR90SS	1.62	0.29	21
G17	A1W-ULTR-SH-3,366(2)-3,CL-13AR90SS	1.58	0.22	18
G18	A1W-ULTR-SH-4,366(2)-4,CL-11AR90SS	1.59	0.22	18
G19	A1W-ULTR-SH-3,366(2)-3,i89(4)-13AR90SS	1.36	0.21	22
G20	A1W-ULTR-SH-4,366(2)-4,i89(4)-11AR90SS	1.38	0.21	22
G21	A1W-ULTR-SH-3,CL-3,CL-3,180(5)-13AR90SS	1.25	0.47	40
G22	A1W-ULTR-SH-4,CL-4,CL-4,180(5)-11AR90SS	1.29	0.46	38
G23	A1W-ULTR-SH-3,270(2)-3,CL-3,CL-13AR90SS	1.25	0.27	28
G24	A1W-ULTR-SH-4,270(2)-4,CL-4,CL-11AR90SS	1.27	0.26	27
G25	A1W-ULTR-SH-3,366(2)-3,CL-3,CL-13AR90SS	1.23	0.20	24
G26	A1W-ULTR-SH-4,366(2)-4,CL-4,CL-11AR90SS	1.26	0.20	24
G27	A1W-ULTR-SH-3,270(2)-3,CL-3,180(5)-13AR90SS	1.00	0.26	33
G28	A1W-ULTR-SH-4,270(2)-4,CL-4,180(5)-11AR90SS	1.05	0.26	32
G29	A1W-ULTR-SH-3,CL-3,CL-3,180(5)-13AR90SS-G1<1	1.27	0.44	37
G30	A1W-ULTR-SH-4,CL-4,CL-4,180(5)-11AR90SS-G1<1	1.34	0.42	35

**Notes:** Windows and doors are not intended for installation in storefronts, non-operable portions of curtain wall, fixed glazing cast into precast concrete panels, greenhouses, skylights or sloped glazing. Test procedures are designed to test the performance of the test specimen only and are not necessarily used to test the performance of the installation, particularly the perimeter sealant joint and anchoring of the assembly.

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