

## WINDOWS & DOORS LISTING PROGRAM

**Customer:** A-1 Window Mfg. Ltd.  
**Class:** Fenestration Products – Energy Performance  
**Location:** Burnaby, British Columbia  
**Website:** <https://a1windows.ca/>

**Listing No.** W453-1  
**Report No.** W453-1 ED6  
**Project No.** W453-1 ED6  
**Effective Date:** May 19, 2009  
**Last Revised Date:** June 28, 2018  
**Expires:** N/A

**Standards:** CSA A440.2 “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: W453-1
- 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:** **Alpine Series Fixed Picture Window**

Model Code	U-Value (W/m <sup>2</sup> K)	Energy Rating
A1-O-S2-GNRDL	1.58	21
A1-O-H1-GNRDL	1.81	35
A1-O-S2-GNIDL	1.79	17
A1-O-H1-GNIDL	1.99	31
A1-O-H2-GNRDS	1.97	30
A1-O-H4H4-GNRDS	1.72	31
A1-O-H4H4(4)-G6RDS	1.59	32
A1-O-H4H4(4)-GNRDS	1.54	34
A1-O-S6-GNRDS	1.70	34

### 301 Series Casement Window

Model Code	U-Value (W/m <sup>2</sup> K)	Energy Rating
A1-C-S2-GNRDL	1.60	16
A1-C-H1-GNRDL	1.76	27
A1-C-H2-GNRDS	1.88	23
A1-C-H2-GYRDS	1.93	20
A1-C-H2-G6RDS	1.91	22
A1-C-H4H4-GNRDS	1.75	22
A1-C-H4H4(4)-G6RDS	1.63	23
A1-C-H4H4(4)-GNRDS	1.60	25
A1-C-S6-GNRDS	1.71	25

### 301 Series Awning Window

Model Code	U-Value (W/m <sup>2</sup> K)	Energy Rating
A1-A-S2-GNRDL	1.60	16
A1-A-H1-GNRDL	1.76	27
A1-A-H2-GNRDS	1.88	23
A1-A-H2-GYRDS	1.91	21
A1-A-H2-G6RDS	1.89	22
A1-A-H4H4-GNRDS	1.74	24
A1-A-H4H4(4)-G6RDS	1.62	25
A1-A-H4H4(4)-GNRDS	1.61	26
A1-A-S6-GNRDS	1.71	27

### 200 Series Horizontal Sliding Window

Model Code	U-Value (W/m <sup>2</sup> K)	Energy Rating
A1-XO-H2-GNRDS	1.96	28
A1-XO-H2-G6RDS	2.00	26
A1-XO-H4H4-GNRDS	1.77	28
A1-XO-H4H4(4)-G6RDS	1.71	27
A1-XO-H4H4(4)-GNRDS	1.59	31
A1-XO-S6-GNRDS	1.79	31

### 200 Series Vertical Sliding Window

Model Code	U-Value (W/m <sup>2</sup> K)	Energy Rating
A1-V-H2-GNRDS	1.96	28
A1-V-H2-G6RDS	2.00	25

A1-V-H4H4-GNRDS	1.77	28
A1-V-H4H4(4)-G6RDS	1.63	28
A1-V-H4H4(4)-GNRDS	1.58	31
A1-V-S6-GNRDS	1.73	31

### Vinyl Sliding Door

Model Code	U-Value (W/m <sup>2</sup> K)	Energy Rating
A1-D-H2-GNRDS	1.93	29
A1-D-H2-G6RDS	1.99	26
A1-D-S2-GNRTG	1.70	18
A1-D-S2-G6RTG	1.76	16
A1-D-S2-GYRTG	1.80	15
A1-D-H4H4-GNRDS	1.76	28
A1-D-H4H4(4)-GYRDS	1.65	28
A1-D-H4H4(4)-GNRDS	1.58	31
A1-D-S6-GNRDS	1.73	32

### Ultra Series Casement Window

Model Code	U-Value (W/m <sup>2</sup> K)	Energy Rating
A1-ULTRA-C-3-GNAEN	1.69	27
A1-ULTRA-C-3-GYAEN	1.69	24
A1-ULTRA-C-3-GNREN-3S3	1.28	27
A1-ULTRA-C-3-GNREN-5S6	1.27	33
A1-ULTRA-C-3-GYREN-5S6	1.31	30
A1-ULTRA-C-3-GNREN-3S3-5S6	1.09	31
A1-ULTRA-C-3- GNREN-3S6-5S6	1.10	36
A1-ULTRA-C-2-GNREN-3S6	1.54	29
A1-ULTRA-C-2-GYREN-3S6	1.58	27
A1-ULTRA-C-2-GNREN-2S6-4H6	1.35	31
A1-ULTRA-C-2-GYREN-2S6-4H6	1.38	30
A1WM-VULTR-CAS-G21-3,CL-3,068(3)-13,Ag-EN	1.51	32
A1WM-VULTR-CAS-G22-3,042(2)-3,CL-13,Ag-EN	1.48	22
A1WM-VULTR-CAS-G23-3,022(2)-3,CL-13,Ag-EN	1.45	18
A1WM-VULTR-CAS-G24-4,CL-4,068(3)-13,Ag-EN	1.52	31
A1WM-VULTR-CAS-G25-4,042(2)-4,CL-13,Ag-EN	1.49	22
A1WM-VULTR-CAS-G26-4,022(2)-4,CL-13,Ag-EN	1.46	18
A1WM-VULTR-CAS-G27-3,CL-3,CL-3,068(5)-13,Ag,Ag-EN	1.21	36
A1WM-VULTR-CAS-G28-3,042(2)-3,CL-3,CL-13,Ag,Ag-EN	1.22	27
A1WM-VULTR-CAS-G29-3,022(2)-3,CL-3,CL-13,Ag,Ag-EN	1.20	23

A1WM-VULTR-CAS-G30-4,CL-4,CL-4,068(5)-13,Ag,Ag-EN	1.20	35
A1WM-VULTR-CAS-G31-4,042(2)-4,CL-4,CL-13,Ag,Ag-EN	1.21	27
A1WM-VULTR-CAS-G32-4,022(2)-4,CL-4,CL-13,Ag,Ag-EN	1.19	23

### Ultra Series Awning Window

Model Code	U-Value (W/m <sup>2</sup> K)	Energy Rating
A1-ULTRA-A-3-GNAEN	1.67	27
A1-ULTRA-A-3-GYAEN	1.67	26
A1-ULTRA-A-3-GNREN-3S3	1.25	28
A1-ULTRA-A-3-GNREN-5S6	1.25	34
A1-ULTRA-A-3-GYREN-5S6	1.27	31
A1-ULTRA-A-3-GNREN-3S3-5S6	1.06	32
A1-ULTRA-A-3- GNREN-3S6-5S6	1.07	37
A1-ULTRA-A-2-GNREN-3S6	1.55	30
A1-ULTRA-A-2-GYREN-3S6	1.58	28
A1-ULTRA-A-2-GNREN-2S6-4H6	1.38	32
A1-ULTRA-A-2-GYREN-2S6-4H6	1.39	31
A1WM-VULTR-AWN-G21-3,CL-3,068(3)-13,Ag-EN	1.53	31
A1WM-VULTR-AWN-G22-3,042(2)-3,CL-13,Ag-EN	1.49	22
A1WM-VULTR-AWN-G23-3,022(2)-3,CL-13,Ag-EN	1.46	18
A1WM-VULTR-AWN-G24-4,CL-4,068(3)-13,Ag-EN	1.54	30
A1WM-VULTR-AWN-G25-4,042(2)-4,CL-13,Ag-EN	1.50	22
A1WM-VULTR-AWN-G26-4,022(2)-4,CL-13,Ag-EN	1.47	17
A1WM-VULTR-AWN-G27-3,CL-3,CL-3,068(5)-13,Ag,Ag-EN	1.21	36
A1WM-VULTR-AWN-G28-3,042(2)-3,CL-3,CL-13,Ag,Ag-EN	1.22	27
A1WM-VULTR-AWN-G29-3,022(2)-3,CL-3,CL-13,Ag,Ag-EN	1.21	23
A1WM-VULTR-AWN-G30-4,CL-4,CL-4,068(5)-13,Ag,Ag-EN	1.21	35
A1WM-VULTR-AWN-G31-4,042(2)-4,CL-4,CL-13,Ag,Ag-EN	1.21	27
A1WM-VULTR-AWN-G32-4,022(2)-4,CL-4,CL-13,Ag,Ag-EN	1.20	33

### Ultra Series Picture Window

Model Code	U-Value (W/m <sup>2</sup> K)	Energy Rating
A1-ULTRA-O-3-GNAEN	1.73	34
A1-ULTRA-O-3-GYAEN	1.74	31
A1-ULTRA-O-3-GNREN-3S3	1.16	36
A1-ULTRA-O-3-GNREN-5S6	1.15	43
A1-ULTRA-O-3-GYREN-5S6	1.20	39
A1-ULTRA-O-3-GNREN-3S3-5S6	0.90	40
A1-ULTRA-O-3-GNREN-3S6-5S6	0.92	47
A1-ULTRA-O-2-GNREN-3S6	1.50	39
A1-ULTRA-O-2-GYREN-3S6	1.55	37
A1-ULTRA-O-2-GNREN-2S6-4H6	1.24	42
A1-ULTRA-O-2-GYREN-2S6-4H6	1.29	39
A1WM-VULTR-PIC-G21-3,CL-3,068(3)-13,Ag-EN	1.50	39
A1WM-VULTR-PIC-G22-3,042(2)-3,CL-13,Ag-EN	1.45	28
A1WM-VULTR-PIC-G23-3,022(2)-3,CL-13,Ag-EN	1.41	22
A1WM-VULTR-PIC-G24-4,CL-4,068(3)-13,Ag-EN	1.50	39
A1WM-VULTR-PIC-G25-4,042(2)-4,CL-13,Ag-EN	1.45	28
A1WM-VULTR-PIC-G26-4,022(2)-4,CL-13,Ag-EN	1.42	22
A1WM-VULTR-PIC-G27-3,CL-3,CL-3,068(5)-13,Ag,Ag-EN	1.12	45
A1WM-VULTR-PIC-G28-3,042(2)-3,CL-3,CL-13,Ag,Ag-EN	1.13	33
A1WM-VULTR-PIC-G29-3,022(2)-3,CL-3,CL-13,Ag,Ag-EN	1.11	28
A1WM-VULTR-PIC-G30-4,CL-4,CL-4,068(5)-13,Ag,Ag-EN	1.12	44
A1WM-VULTR-PIC-G31-4,042(2)-4,CL-4,CL-13,Ag,Ag-EN	1.13	33
A1WM-VULTR-PIC-G32-4,022(2)-4,CL-4,CL-13,Ag,Ag-EN	1.11	28
A1WM-VULTR-PIC-G33-5,CL-5,CL-5,068(5)-13,Ag,Ag-EN	1.12	43
A1WM-VULTR-PIC-G34-5,042(2)-5,CL-5,CL-13,Ag,Ag-EN	1.13	33
A1WM-VULTR-PIC-G35-5,022(2)-5,CL-5,CL-13,Ag,Ag-EN	1.11	28
A1WM-VULTR-PIC-G36-5,CL-5,068(3)-13,Ag-EN	1.50	38
A1WM-VULTR-PIC-G37-5,042(2)-5,CL-13,Ag-EN	1.45	27
A1WM-VULTR-PIC-G38-5,022(2)-5,CL-13,Ag-EN	1.42	22
A1WM-VULTR-PIC-G39-6,CL-6,068(3)-13,Ag-EN	1.50	38
A1WM-VULTR-PIC-G40-6,042(2)-6,CL-13,Ag-EN	1.46	27
A1WM-VULTR-PIC-G41-6,022(2)-6,CL-13,Ag-EN	1.42	22

### Ultra Series Horizontal Sliding Window

Model Code	U-Value (W/m <sup>2</sup> K)	Energy Rating
A1-ULTRA-XO-3-GNAEN	1.83	31
A1-ULTRA-XO-3-GYAEN	1.84	28
A1-ULTRA-XO-3-GNREN-3S3	1.29	32
A1-ULTRA-XO-3-GNREN-5S6	1.29	39
A1-ULTRA-XO-3-GYREN-5S6	1.33	36
A1-ULTRA-XO-3-GNREN-3S3-5S6	1.04	36
A1-ULTRA-XO-3-GNREN-3S6-5S6	1.05	43
A1-ULTRA-XO-2-GNREN-3S6	1.66	35
A1-ULTRA-XO-2-GYREN-3S6	1.71	32
A1-ULTRA-XO-2-GNREN-2S6-4H6	1.42	37
A1-ULTRA-XO-2-GYREN-2S6-4H6	1.46	34
A1WM-VULTR-HS-G21-3,CL-3,068(3)-13,Ag-EN	1.64	36
A1WM-VULTR-HS-G22-3,042(2)-3,CL-13,Ag-EN	1.59	24
A1WM-VULTR-HS-G23-3,022(2)-3,CL-13,Ag-EN	1.55	19
A1WM-VULTR-HS-G24-4,CL-4,068(3)-13,Ag-EN	1.65	34
A1WM-VULTR-HS-G25-4,042(2)-4,CL-13,Ag-EN	1.60	24
A1WM-VULTR-HS-G26-4,022(2)-4,CL-13,Ag-EN	1.57	18
A1WM-VULTR-HS-G27-3,CL-3,CL-3,068(5)-13,Ag,Ag-EN	1.24	41
A1WM-VULTR-HS-G28-3,042(2)-3,CL-3,CL-13,Ag,Ag-EN	1.25	31
A1WM-VULTR-HS-G29-3,022(2)-3,CL-3,CL-13,Ag,Ag-EN	1.22	25
A1WM-VULTR-HS-G30-4,CL-4,CL-4,068(5)-13,Ag,Ag-EN	1.25	40
A1WM-VULTR-HS-G31-4,042(2)-4,CL-4,CL-13,Ag,Ag-EN	1.25	30
A1WM-VULTR-HS-G32-4,022(2)-4,CL-4,CL-13,Ag,Ag-EN	1.23	24

### Ultra Series Vertical Sliding Window

Model Code	U-Value (W/m <sup>2</sup> K)	Energy Rating
A1-ULTRA-VS-3-GNAEN	1.83	30
A1-ULTRA-VS-3-GYAEN	1.84	27
A1-ULTRA-VS-3-GNREN-3S3	1.29	32
A1-ULTRA-VS-3-GNREN-5S6	1.29	38
A1-ULTRA-VS-3-GYREN-5S6	1.33	35
A1-ULTRA-VS-3-GNREN-3S3-5S6	1.04	36
A1-ULTRA-VS-3-GNREN-3S6-5S6	1.06	42
A1-ULTRA-VS-2-GNREN-3S6	1.66	33

A1-ULTRA-VS-2-GYREN-3S6	1.71	31
A1-ULTRA-VS-2-GNREN-2S6-4H6	1.42	36
A1-ULTRA-VS-2-GYREN-2S6-4H6	1.46	34
A1WM-VULTR-VS-G21-3,CL-3,068(3)-13,Ag-EN	1.65	34
A1WM-VULTR-VS-G22-3,042(2)-3,CL-13,Ag-EN	1.60	23
A1WM-VULTR-VS-G23-3,022(2)-3,CL-13,Ag-EN	1.57	18
A1WM-VULTR-VS-G24-4,CL-4,068(3)-13,Ag-EN	1.66	34
A1WM-VULTR-VS-G25-4,042(2)-4,CL-13,Ag-EN	1.61	23
A1WM-VULTR-VS-G26-4,022(2)-4,CL-13,Ag-EN	1.58	17
A1WM-VULTR-VS-G27-3,CL-3,CL-3,068(5)-13,Ag,Ag-EN	1.25	40
A1WM-VULTR-VS-G28-3,042(2)-3,CL-3,CL-13,Ag,Ag-EN	1.26	29
A1WM-VULTR-VS-G29-3,022(2)-3,CL-3,CL-13,Ag,Ag-EN	1.24	24
A1WM-VULTR-VS-G30-4,CL-4,CL-4,068(5)-13,Ag,Ag-EN	1.26	39
A1WM-VULTR-VS-G31-4,042(2)-4,CL-4,CL-13,Ag,Ag-EN	1.26	29
A1WM-VULTR-VS-G32-4,022(2)-4,CL-4,CL-13,Ag,Ag-EN	1.24	24

**Notes:** Windows 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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