



WINDOWS & DOORS LISTING PROGRAM

Customer: A1 Window Manufacturing Ltd.
Class: Fenestration Products – Energy Performance
Location: Burnaby, British Columbia
Website: www.a1windows.ca

Listing No. W453-3
Project No. W453-3 ED5
Effective Date: April 19, 2010
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Expires: N/A

Standards: CSA A440.2 “Fenestration Energy Performance”

Product: Aluminum 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:

350 Series Picture Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	A1W-350PC-4,272(2)-4,CL-16AR95EN	1.74	0.35	22
G02	A1W-350PC-5,272(2)-5,CL-15AR95EN	1.73	0.35	22
G03	A1W-350PC-6,272(2)-6,CL-13AR95EN	1.71	0.35	23
G04	A1W-350PC-6,272(2)-4,CL-15AR95EN	1.73	0.35	22
G05	A1W-350PC-4,366(2)-4,CL-16AR95EN	1.70	0.24	17



Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G06	A1W-350PC-5,366(2)-5,CL-15AR95EN	1.69	0.24	17
G07	A1W-350PC-6,366(2)-6,CL-13AR95EN	1.66	0.24	18
G08	A1W-350PC-6,366(2)-4,CL-15AR95EN	1.68	0.24	17
G09	A1W-350PC-4,366(2)-4,i89(4)-16AR95EN	1.45	0.23	22
G10	A1W-350PC-5,366(2)-5,i89(4)-15AR95EN	1.45	0.23	22
G11	A1W-350PC-6,366(2)-6,i89(4)-13AR95EN	1.43	0.23	22
G12	A1W-350PC-6,366(2)-4,i89(4)-15AR95EN	1.45	0.23	22
G13	A1W-350PC-4,272(2)-4,CL-4,180(5)-15AR95EN	1.10	0.32	34
G14	A1W-350PC-5,272(2)-5,CL-5,180(5)-13AR95EN	1.11	0.31	34
G15	A1W-350PC-4,CL-4,180(3)-16AR95EN	1.79	0.57	34
G16	A1W-350PC-5,CL-5,180(3)-15AR95EN	1.78	0.56	33
G17	A1W-350PC-6,CL-6,180(3)-13AR95EN	1.76	0.55	33
G18	A1W-350PC-4,272(2)-4,CL-4,CL-15AR95EN	1.39	0.33	29
G19	A1W-350PC-5,272(2)-5,CL-5,CL-13AR95EN	1.39	0.32	28
G20	A1W-350PC-6,272(2)-6,CL-6,CL-12AR95EN	1.39	0.32	28
G21	A1W-350PC-4,366(2)-4,CL-4,CL-15AR95EN	1.37	0.22	23
G22	A1W-350PC-5,366(2)-5,CL-5,CL-13AR95EN	1.36	0.22	23
G23	A1W-350PC-6,366(2)-6,CL-6,CL-12AR95EN	1.36	0.22	23
G24	A1W-350PC-4,272(2)-4,180(4)-4,i89(6)-15AR95EN	1.02	0.31	36
G25	A1W-350PC-5,272(2)-5,180(4)-5,i89(6)-13AR95EN	1.03	0.30	35
G26	A1W-350PC-6,272(2)-6,180(4)-6,i89(6)-12AR95EN	1.06	0.30	34
G27	A1W-350PC-4,CL-4,180(3)-16AR90SS	1.83	0.58	33
G28	A1W-350PC-5,CL-5,180(3)-14AR90SS	1.82	0.57	33
G29	A1W-350PC-6,CL-6,180(3)-13AR90SS	1.80	0.55	32
G30	A1W-350PC-4,270(2)-4,CL-16AR90SS	1.77	0.32	20
G31	A1W-350PC-5,270(2)-5,CL-14AR90SS	1.75	0.31	20
G32	A1W-350PC-6,270(2)-6,CL-13AR90SS	1.74	0.31	20
G33	A1W-350PC-6,270(2)-4,CL-14AR90SS	1.75	0.31	20
G34	A1W-350PC-4,366(2)-4,CL-16AR90SS	1.74	0.24	16
G35	A1W-350PC-5,366(2)-5,CL-14AR90SS	1.73	0.24	16
G36	A1W-350PC-6,366(2)-6,CL-13AR90SS	1.71	0.24	16
G37	A1W-350PC-6,366(2)-4,CL-14AR90SS	1.73	0.24	16
G38	A1W-350PC-4,366(2)-4,i89(4)-16AR90SS	1.53	0.23	20
G39	A1W-350PC-5,366(2)-5,i89(4)-14AR90SS	1.50	0.23	20
G40	A1W-350PC-6,366(2)-6,i89(4)-13AR90SS	1.49	0.23	21
G41	A1W-350PC-6,366(2)-4,i89(4)-14AR90SS	1.50	0.23	20
G42	A1W-350PC-4,270(2)-4,CL-4,CL-14AR90SS	1.41	0.29	26
G43	A1W-350PC-5,270(2)-5,CL-5,CL-13AR90SS	1.41	0.29	26
G44	A1W-350PC-6,270(2)-6,CL-6,CL-11AR90SS	1.43	0.29	25
G45	A1W-350PC-4,366(2)-4,CL-4,CL-14AR90SS	1.39	0.22	22
G46	A1W-350PC-5,366(2)-5,CL-5,CL-13AR90SS	1.39	0.22	22
G47	A1W-350PC-6,366(2)-6,CL-6,CL-11AR90SS	1.41	0.22	22
G48	A1W-350PC-4,270(2)-4,CL-4,180(5)-14AR90SS	1.13	0.28	31
G49	A1W-350PC-5,270(2)-5,CL-5,180(5)-13AR90SS	1.15	0.28	31
G50	A1W-350PC-4,270(2)-4,180(4)-4,i89(6)-14AR90SS	1.05	0.27	33
G51	A1W-350PC-5,270(2)-5,180(4)-5,i89(6)-13AR90SS	1.07	0.27	32
G52	A1W-350PC-6,270(2)-6,180(4)-6,i89(6)-11AR90SS	1.11	0.27	31



350 Series Casement Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	A1W-350CA-4,272(2)-4,CL-16AR95EN	2.64	0.25	-3
G02	A1W-350CA-5,272(2)-5,CL-15AR95EN	2.64	0.25	-3
G03	A1W-350CA-6,272(2)-6,CL-13AR95EN	2.63	0.24	-4
G04	A1W-350CA-6,272(2)-4,CL-15AR95EN	2.63	0.24	-4
G05	A1W-350CA-4,366(2)-4,CL-16AR95EN	2.62	0.17	-8
G06	A1W-350CA-5,366(2)-5,CL-15AR95EN	2.61	0.17	-7
G07	A1W-350CA-6,366(2)-6,CL-13AR95EN	2.60	0.17	-7
G08	A1W-350CA-6,366(2)-4,CL-15AR95EN	2.61	0.17	-7
G09	A1W-350CA-4,366(2)-4,i89(4)-16AR95EN	2.46	0.17	-4
G10	A1W-350CA-5,366(2)-5,i89(4)-15AR95EN	2.45	0.17	-4
G11	A1W-350CA-6,366(2)-6,i89(4)-13AR95EN	2.45	0.17	-4
G12	A1W-350CA-6,366(2)-4,i89(4)-15AR95EN	2.45	0.17	-4
G13	A1W-350CA-4,272(2)-4,CL-4,180(5)-15AR95EN	2.18	0.22	5
G14	A1W-350CA-5,272(2)-5,CL-5,180(5)-13AR95EN	2.19	0.22	5
G15	A1W-350CA-4,CL-4,180(3)-16AR95EN	2.67	0.39	4
G16	A1W-350CA-5,CL-5,180(3)-15AR95EN	2.67	0.38	3
G17	A1W-350CA-6,CL-6,180(3)-13AR95EN	2.66	0.37	3
G18	A1W-350CA-4,272(2)-4,CL-4,CL-15AR95EN	2.36	0.23	2
G19	A1W-350CA-5,272(2)-5,CL-5,CL-13AR95EN	2.36	0.23	2
G20	A1W-350CA-6,272(2)-6,CL-6,CL-12AR95EN	2.37	0.22	1
G21	A1W-350CA-4,366(2)-4,CL-4,CL-15AR95EN	2.35	0.16	-2
G22	A1W-350CA-5,366(2)-5,CL-5,CL-13AR95EN	2.35	0.16	-2
G23	A1W-350CA-6,366(2)-6,CL-6,CL-12AR95EN	2.35	0.16	-2
G24	A1W-350CA-4,272(2)-4,180(4)-4,i89(6)-15AR95EN	2.11	0.22	6
G25	A1W-350CA-4,CL-4,180(3)-16AR90SS	2.81	0.39	1
G26	A1W-350CA-5,CL-5,180(3)-14AR90SS	2.80	0.39	1
G27	A1W-350CA-6,CL-6,180(3)-13AR90SS	2.79	0.38	1
G28	A1W-350CA-4,270(2)-4,CL-16AR90SS	2.78	0.22	-8
G29	A1W-350CA-5,270(2)-5,CL-14AR90SS	2.76	0.22	-8
G30	A1W-350CA-6,270(2)-6,CL-13AR90SS	2.75	0.22	-8
G31	A1W-350CA-6,270(2)-4,CL-14AR90SS	2.76	0.22	-8
G32	A1W-350CA-4,366(2)-4,CL-16AR90SS	2.76	0.17	-11
G33	A1W-350CA-5,366(2)-5,CL-14AR90SS	2.75	0.17	-10
G34	A1W-350CA-6,366(2)-6,CL-13AR90SS	2.74	0.17	-10
G35	A1W-350CA-6,366(2)-4,CL-14AR90SS	2.75	0.17	-10
G36	A1W-350CA-4,366(2)-4,i89(4)-16AR90SS	2.66	0.17	-8
G37	A1W-350CA-5,366(2)-5,i89(4)-14AR90SS	2.65	0.17	-8
G38	A1W-350CA-6,366(2)-6,i89(4)-13AR90SS	2.64	0.17	-8
G39	A1W-350CA-6,366(2)-4,i89(4)-14AR90SS	2.65	0.17	-8
G40	A1W-350CA-4,270(2)-4,CL-4,CL-14AR90SS	2.46	0.21	-2
G41	A1W-350CA-5,270(2)-5,CL-5,CL-13AR90SS	2.46	0.21	-2
G42	A1W-350CA-6,270(2)-6,CL-6,CL-11AR90SS	2.49	0.20	-3
G43	A1W-350CA-4,366(2)-4,CL-4,CL-14AR90SS	2.45	0.16	-4
G44	A1W-350CA-5,366(2)-5,CL-5,CL-13AR90SS	2.46	0.16	-5
G45	A1W-350CA-6,366(2)-6,CL-6,CL-11AR90SS	2.48	0.16	-5
G46	A1W-350CA-4,270(2)-4,CL-4,180(5)-14AR90SS	2.28	0.20	2
G47	A1W-350CA-5,270(2)-5,CL-5,180(5)-13AR90SS	2.29	0.20	1
G48	A1W-350CA-4,270(2)-4,180(4)-4,i89(6)-14AR90SS	2.25	0.19	2



350 Series Awning Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	A1W-350AW-4,272(2)-4,CL-16AR95EN	2.66	0.24	-5
G02	A1W-350AW-5,272(2)-5,CL-15AR95EN	2.65	0.24	-4
G03	A1W-350AW-6,272(2)-6,CL-13AR95EN	2.64	0.24	-4
G04	A1W-350AW-6,272(2)-4,CL-15AR95EN	2.65	0.23	-5
G05	A1W-350AW-4,366(2)-4,CL-16AR95EN	2.63	0.17	-8
G06	A1W-350AW-5,366(2)-5,CL-15AR95EN	2.62	0.17	-8
G07	A1W-350AW-6,366(2)-6,CL-13AR95EN	2.62	0.17	-8
G08	A1W-350AW-6,366(2)-4,CL-15AR95EN	2.62	0.17	-8
G09	A1W-350AW-4,366(2)-4,i89(4)-16AR95EN	2.49	0.16	-5
G10	A1W-350AW-5,366(2)-5,i89(4)-15AR95EN	2.49	0.16	-5
G11	A1W-350AW-6,366(2)-6,i89(4)-13AR95EN	2.48	0.16	-5
G12	A1W-350AW-6,366(2)-4,i89(4)-15AR95EN	2.49	0.16	-5
G13	A1W-350AW-4,272(2)-4,CL-4,180(5)-15AR95EN	2.20	0.22	4
G14	A1W-350AW-5,272(2)-5,CL-5,180(5)-13AR95EN	2.21	0.21	4
G15	A1W-350AW-4,CL-4,180(3)-16AR95EN	2.69	0.38	3
G16	A1W-350AW-5,CL-5,180(3)-15AR95EN	2.68	0.37	2
G17	A1W-350AW-6,CL-6,180(3)-13AR95EN	2.67	0.36	2
G18	A1W-350AW-4,272(2)-4,CL-4,CL-15AR95EN	2.38	0.22	0
G19	A1W-350AW-5,272(2)-5,CL-5,CL-13AR95EN	2.39	0.22	0
G20	A1W-350AW-6,272(2)-6,CL-6,CL-12AR95EN	2.39	0.22	0
G21	A1W-350AW-4,366(2)-4,CL-4,CL-15AR95EN	2.37	0.15	-3
G22	A1W-350AW-5,366(2)-5,CL-5,CL-13AR95EN	2.37	0.15	-3
G23	A1W-350AW-6,366(2)-6,CL-6,CL-12AR95EN	2.37	0.15	-3
G24	A1W-350AW-4,272(2)-4,180(4)-4,i89(6)-15AR95EN	2.14	0.21	5
G25	A1W-350AW-4,CL-4,180(3)-16AR90SS	2.83	0.38	0
G26	A1W-350CAW-5,CL-5,180(3)-14AR90SS	2.82	0.38	0
G27	A1W-350AW-6,CL-6,180(3)-13AR90SS	2.81	0.36	-1
G28	A1W-350AW-4,270(2)-4,CL-16AR90SS	2.80	0.21	-9
G29	A1W-350AW-5,270(2)-5,CL-14AR90SS	2.79	0.21	-9
G30	A1W-350AW-6,270(2)-6,CL-13AR90SS	2.78	0.21	-9
G31	A1W-350AW-6,270(2)-4,CL-14AR90SS	2.78	0.21	-9
G32	A1W-350AW-4,366(2)-4,CL-16AR90SS	2.78	0.17	-11
G33	A1W-350AW-5,366(2)-5,CL-14AR90SS	2.77	0.17	-11
G34	A1W-350AW-6,366(2)-6,CL-13AR90SS	2.76	0.17	-11
G35	A1W-350AW-6,366(2)-4,CL-14AR90SS	2.77	0.17	-11
G36	A1W-350AW-4,366(2)-4,i89(4)-16AR90SS	2.70	0.16	-10
G37	A1W-350AW-5,366(2)-5,i89(4)-14AR90SS	2.69	0.16	-10
G38	A1W-350AW-6,366(2)-6,i89(4)-13AR90SS	2.68	0.16	-10
G39	A1W-350AW-6,366(2)-4,i89(4)-14AR90SS	2.69	0.16	-10
G40	A1W-350AW-4,270(2)-4,CL-4,CL-14AR90SS	2.49	0.20	-3
G41	A1W-350AW-5,270(2)-5,CL-5,CL-13AR90SS	2.49	0.20	-3
G42	A1W-350AW-6,270(2)-6,CL-6,CL-11AR90SS	2.51	0.20	-4
G43	A1W-350AW-4,366(2)-4,CL-4,CL-14AR90SS	2.48	0.16	-5
G44	A1W-350AW-5,366(2)-5,CL-5,CL-13AR90SS	2.48	0.16	-5
G45	A1W-350AW-6,366(2)-6,CL-6,CL-11AR90SS	2.50	0.16	-6
G46	A1W-350AW-4,270(2)-4,CL-4,180(5)-14AR90SS	2.32	0.19	0
G47	A1W-350AW-5,270(2)-5,CL-5,180(5)-13AR90SS	2.32	0.19	0
G48	A1W-350AW-4,270(2)-4,180(4)-4,i89(6)-14AR90SS	2.29	0.19	1

**350PRO Series Picture Window**

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	A1W-350PPC-4,270(2)-4,CL-16AR90SS	1.87	0.30	16
G02	A1W-350PPC-5,270(2)-5,CL-14AR90SS	1.86	0.30	17
G03	A1W-350PPC-6,270(2)-6,CL-13AR90SS	1.84	0.30	17
G04	A1W-350PPC-6,270(2)-4,CL-14AR90SS	1.85	0.30	17
G05	A1W-350PPC-4,270(2)-4,i89(4)-16AR90SS	1.62	0.30	22
G06	A1W-350PPC-5,270(2)-5,i89(4)-14AR90SS	1.62	0.30	22
G07	A1W-350PPC-6,270(2)-6,i89(4)-13AR90SS	1.62	0.29	21
G08	A1W-350PPC-6,270(2)-4,i89(4)-14AR90SS	1.61	0.29	21
G09	A1W-350PPC-4,270(2)-4,CL-4,CL-16AR90SS	1.40	0.28	26
G10	A1W-350PPC-5,270(2)-5,CL-5,CL-14AR90SS	1.41	0.28	25
G11	A1W-350PPC-6,270(2)-6,CL-6,CL-13AR90SS	1.40	0.27	25
G12	A1W-350PPC-4,270(2)-4,CL-4,180(5)-16AR90SS	1.12	0.27	31
G13	A1W-350PPC-5,270(2)-5,CL-5,180(5)-14AR90SS	1.13	0.27	31
G14	A1W-350PPC-6,270(2)-6,CL-6,180(5)-13AR90SS	1.14	0.26	30
G15	A1W-350PPC-4,270(2)-4,180(4)-4,i89(6)-16AR90SS	1.03	0.26	32
G16	A1W-350PPC-5,270(2)-5,180(4)-5,i89(6)-14AR90SS	1.04	0.26	32
G17	A1W-350PPC-6,270(2)-6,180(4)-6,i89(6)-13AR90SS	1.06	0.26	32

350PRO Series Casement Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	A1W-350PCA-4,270(2)-4,CL-16AR90SS	2.33	0.20	0
G02	A1W-350PCA-5,270(2)-5,CL-14AR90SS	2.33	0.20	0
G03	A1W-350PCA-6,270(2)-4,CL-14AR90SS	2.31	0.19	0
G04	A1W-350PCA-4,270(2)-4,i89(4)-16AR90SS	2.19	0.19	2
G05	A1W-350PCA-5,270(2)-5,i89(4)-14AR90SS	2.20	0.19	2
G06	A1W-350PCA-6,270(2)-6,i89(4)-13AR90SS	2.19	0.19	2
G07	A1W-350PCA-6,270(2)-4,i89(4)-14AR90SS	2.18	0.19	2
G08	A1W-350PCA-4,270(2)-4,CL-4,CL-16AR90SS	1.91	0.18	8
G09	A1W-350PCA-5,270(2)-5,CL-5,CL-14AR90SS	1.91	0.18	8
G10	A1W-350PCA-4,270(2)-4,CL-4,180(5)-16AR90SS	1.74	0.18	12
G11	A1W-350PCA-5,270(2)-5,CL-5,180(5)-14AR90SS	1.74	0.18	12
G12	A1W-350PCA-4,270(2)-4,180(4)-4,i89(6)-16AR90SS	1.69	0.17	12

350PRO Series Awning Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	A1W-350PAW-4,270(2)-4,CL-16AR90SS	2.39	0.20	0
G02	A1W-350PAW-5,270(2)-5,CL-14AR90SS	2.39	0.20	0



Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G03	A1W-350PAW-6,270(2)-4,CL-14AR90SS	2.37	0.19	0
G04	A1W-350PAW-4,270(2)-4,i89(4)-16AR90SS	2.27	0.19	1
G05	A1W-350PAW-5,270(2)-5,i89(4)-14AR90SS	2.27	0.19	1
G06	A1W-350PAW-6,270(2)-6,i89(4)-13AR90SS	2.27	0.19	1
G07	A1W-350PAW-6,270(2)-4,i89(4)-14AR90SS	2.26	0.19	1
G08	A1W-350PAW-4,270(2)-4,CL-4,CL-16AR90SS	1.97	0.18	7
G09	A1W-350PAW-5,270(2)-5,CL-5,CL-14AR90SS	1.97	0.18	7
G10	A1W-350PAW-4,270(2)-4,CL-4,180(5)-16AR90SS	1.79	0.18	11
G11	A1W-350PAW-5,270(2)-5,CL-5,180(5)-14AR90SS	1.80	0.18	11
G12	A1W-350PAW-4,270(2)-4,180(4)-4,i89(6)-16AR90SS	1.75	0.17	11

350PRO Series Window Wall

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	A1W-350PWW-4,270(2)-4,CL-16AR90SS	1.83	0.32	N/A
G02	A1W-350PWW-5,270(2)-5,CL-14AR90SS	1.81	0.32	N/A
G03	A1W-350PWW-6,270(2)-6,CL-13AR90SS	1.80	0.31	N/A
G04	A1W-350PWW-6,270(2)-4,CL-14AR90SS	1.81	0.31	N/A
G05	A1W-350PWW-4,270(2)-4,i89(4)-16AR90SS	1.56	0.31	N/A
G06	A1W-350PWW-5,270(2)-5,i89(4)-14AR90SS	1.55	0.31	N/A
G07	A1W-350PWW-6,270(2)-6,i89(4)-13AR90SS	1.56	0.31	N/A
G08	A1W-350PWW-6,270(2)-4,i89(4)-14AR90SS	1.55	0.31	N/A
G09	A1W-350PWW-4,270(2)-4,CL-4,CL-16AR90SS	1.36	0.29	N/A
G10	A1W-350PWW-5,270(2)-5,CL-5,CL-14AR90SS	1.35	0.29	N/A
G11	A1W-350PWW-6,270(2)-6,CL-6,CL-13AR90SS	1.35	0.29	N/A
G12	A1W-350PWW-4,270(2)-4,CL-4,180(5)-16AR90SS	1.07	0.28	N/A
G13	A1W-350PWW-5,270(2)-5,CL-5,180(5)-14AR90SS	1.07	0.28	N/A
G14	A1W-350PWW-6,270(2)-6,CL-6,180(5)-13AR90SS	1.08	0.28	N/A
G15	A1W-350PWW-4,270(2)-4,180(4)-4,i89(6)-16AR90SS	0.97	0.28	N/A
G16	A1W-350PWW-5,270(2)-5,180(4)-5,i89(6)-14AR90SS	0.98	0.27	N/A
G17	A1W-350PWW-6,270(2)-6,180(4)-6,i89(6)-13AR90SS	0.99	0.27	N/A

Notes:

- Products 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.
- The materials, products or systems listed herein have been qualified to bear the QAI Listing Mark under the conditions stated with each Listing. Only those products bearing the QAI Listing Mark are considered to be listed by QAI.



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