



WINDOWS & DOORS LISTING PROGRAM

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

Listing No. W453-1
Project No. W453-1 ED10
Effective Date: April 19, 2010
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Expires: N/A

Standards: CSA A440.2-19 “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

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	A1W-ULTR-PC-3,CL-3,180(3)-13AR90SS	1.53	0.56	39
G02	A1W-ULTR-PC-4,CL-4,180(3)-11AR90SS	1.53	0.55	38
G03	A1W-ULTR-PC-5,CL-5,180(3)-10AR90SS	1.60	0.54	36
G04	A1W-ULTR-PC-6,CL-6,180(3)-8AR90SS	1.73	0.52	32
G05	A1W-ULTR-PC-3,270(2)-3,CL-13AR90SS	1.47	0.30	25



Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G06	A1W-ULTR-PC-4,270(2)-4,CL-11AR90SS	1.47	0.30	25
G07	A1W-ULTR-PC-5,270(2)-5,CL-10AR90SS	1.54	0.30	23
G08	A1W-ULTR-PC-6,270(2)-6,CL-8AR90SS	1.67	0.30	21
G09	A1W-ULTR-PC-3,366(2)-3,CL-13AR90SS	1.45	0.23	21
G10	A1W-ULTR-PC-4,366(2)-4,CL-11AR90SS	1.45	0.23	21
G11	A1W-ULTR-PC-5,366(2)-5,CL-10AR90SS	1.52	0.23	20
G12	A1W-ULTR-PC-6,366(2)-6,CL-8AR90SS	1.65	0.23	17
G13	A1W-ULTR-PC-3,366(2)-3,i89(4)-13AR90SS	1.21	0.22	26
G14	A1W-ULTR-PC-4,366(2)-4,i89(4)-11AR90SS	1.23	0.22	26
G15	A1W-ULTR-PC-5,366(2)-5,i89(4)-10AR90SS	1.29	0.22	24
G16	A1W-ULTR-PC-6,366(2)-6,i89(4)-8AR90SS	1.38	0.22	22
G17	A1W-ULTR-PC-3,CL-3,CL-3,180(5)-14AR90SS	1.14	0.50	44
G18	A1W-ULTR-PC-4,CL-4,CL-4,180(5)-13AR90SS	1.15	0.49	43
G19	A1W-ULTR-PC-5,CL-5,CL-5,180(5)-11AR90SS	1.18	0.48	42
G20	A1W-ULTR-PC-6,CL-6,CL-6,180(5)-10AR90SS	1.25	0.46	39
G21	A1W-ULTR-PC-3,270(2)-3,CL-3,CL-14AR90SS	1.15	0.28	31
G22	A1W-ULTR-PC-4,270(2)-4,CL-4,CL-13AR90SS	1.15	0.28	31
G23	A1W-ULTR-PC-5,270(2)-5,CL-5,CL-11AR90SS	1.17	0.27	30
G24	A1W-ULTR-PC-6,270(2)-6,CL-6,CL-10AR90SS	1.23	0.27	28
G25	A1W-ULTR-PC-3,366(2)-3,CL-3,CL-14AR90SS	1.14	0.21	27
G26	A1W-ULTR-PC-4,366(2)-4,CL-4,CL-13AR90SS	1.14	0.21	27
G27	A1W-ULTR-PC-5,366(2)-5,CL-5,CL-11AR90SS	1.16	0.21	27
G28	A1W-ULTR-PC-6,366(2)-6,CL-6,CL-10AR90SS	1.22	0.21	25
G29	A1W-ULTR-PC-3,270(2)-3,CL-3,180(5)-14AR90SS	0.88	0.27	36
G30	A1W-ULTR-PC-4,270(2)-4,CL-4,180(5)-13AR90SS	0.90	0.27	36
G31	A1W-ULTR-PC-5,270(2)-5,CL-5,180(5)-11AR90SS	0.94	0.27	35
G32	A1W-ULTR-PC-6,270(2)-6,CL-6,180(5)-10AR90SS	1.01	0.26	33
G33	A1W-ULTR-PC-4,366(2)-5,i89(4)-10AR90SS	1.29	0.22	24
G34	A1W-ULTR-PC-3,CL-3,CL-3,180(5)-14AR90SS-G1<1	1.15	0.45	41
G35	A1W-ULTR-PC-4,CL-4,CL-4,180(5)-13AR90SS-G1<1	1.17	0.44	40
G36	A1W-ULTR-PC-5,CL-5,CL-5,180(5)-11AR90SS-G1<1	1.25	0.43	37
G37	A1W-ULTR-PC-6,CL-6,CL-6,180(5)-10AR90SS-G1<1	1.26	0.41	36

Ultra Series Casement Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	A1W-ULTR-CA-3,CL-3,180(3)-13AR90SS	1.50	0.43	32
G02	A1W-ULTR-CA-4,CL-4,180(3)-11AR90SS	1.51	0.42	31
G03	A1W-ULTR-CA-3,270(2)-3,CL-13AR90SS	1.45	0.23	21
G04	A1W-ULTR-CA-4,270(2)-4,CL-11AR90SS	1.46	0.23	21
G05	A1W-ULTR-CA-3,366(2)-3,CL-13AR90SS	1.43	0.17	18
G06	A1W-ULTR-CA-4,366(2)-4,CL-11AR90SS	1.44	0.18	18
G07	A1W-ULTR-CA-3,366(2)-3,i89(4)-13AR90SS	1.26	0.17	22
G08	A1W-ULTR-CA-4,366(2)-4,i89(4)-11AR90SS	1.28	0.17	21
G09	A1W-ULTR-CA-3,CL-3,CL-3,180(5)-13AR90SS	1.17	0.39	37
G10	A1W-ULTR-CA-4,CL-4,CL-4,180(5)-11AR90SS	1.21	0.37	34
G11	A1W-ULTR-CA-3,270(2)-3,CL-3,CL-13AR90SS	1.18	0.22	26
G12	A1W-ULTR-CA-4,270(2)-4,CL-4,CL-11AR90SS	1.20	0.21	25
G13	A1W-ULTR-CA-3,366(2)-3,CL-3,CL-13AR90SS	1.17	0.16	23



Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G14	A1W-ULTR-CA-4,366(2)-4,CL-4,CL-11AR90SS	1.19	0.16	23
G15	A1W-ULTR-CA-3,270(2)-3,CL-3,180(5)-13AR90SS	0.98	0.21	30
G16	A1W-ULTR-CA-4,270(2)-4,CL-4,180(5)-11AR90SS	1.02	0.21	29
G17	A1W-ULTR-CA-4,366(2)-5,i89(4)-10AR90SS	1.33	0.17	20
G18	A1W-ULTR-CA-3,CL-3,CL-3,180(5)-13AR90SS-G1<1	1.19	0.35	34
G19	A1W-ULTR-CA-4,CL-4,CL-4,180(5)-11AR90SS-G1<1	1.25	0.34	32

Ultra Series Awning Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	A1W-ULTR-AW-3,CL-3,180(3)-13AR90SS	1.51	0.43	31
G02	A1W-ULTR-AW-4,CL-4,180(3)-11AR90SS	1.52	0.42	30
G03	A1W-ULTR-AW-3,270(2)-3,CL-13AR90SS	1.47	0.23	21
G04	A1W-ULTR-AW-4,270(2)-4,CL-11AR90SS	1.47	0.23	21
G05	A1W-ULTR-AW-3,366(2)-3,CL-13AR90SS	1.45	0.17	17
G06	A1W-ULTR-AW-4,366(2)-4,CL-11AR90SS	1.46	0.18	18
G07	A1W-ULTR-AW-3,366(2)-3,i89(4)-13AR90SS	1.30	0.17	21
G08	A1W-ULTR-AW-4,366(2)-4,i89(4)-11AR90SS	1.30	0.17	21
G09	A1W-ULTR-AW-3,CL-3,CL-3,180(5)-13AR90SS	1.18	0.39	36
G10	A1W-ULTR-AW-4,CL-4,CL-4,180(5)-11AR90SS	1.22	0.37	34
G11	A1W-ULTR-AW-3,270(2)-3,CL-3,CL-13AR90SS	1.18	0.22	26
G12	A1W-ULTR-AW-4,270(2)-4,CL-4,CL-11AR90SS	1.20	0.21	25
G13	A1W-ULTR-AW-3,366(2)-3,CL-3,CL-13AR90SS	1.17	0.16	23
G14	A1W-ULTR-AW-4,366(2)-4,CL-4,CL-11AR90SS	1.19	0.16	23
G15	A1W-ULTR-AW-3,270(2)-3,CL-3,180(5)-13AR90SS	0.99	0.21	30
G16	A1W-ULTR-AW-4,270(2)-4,CL-4,180(5)-11AR90SS	1.03	0.21	29
G17	A1W-ULTR-AW-4,366(2)-5,i89(4)-10AR90SS	1.36	0.17	19
G18	A1W-ULTR-AW-3,CL-3,CL-3,180(5)-13AR90SS-G1<1	1.19	0.35	34
G19	A1W-ULTR-AW-4,CL-4,CL-4,180(5)-11AR90SS-G1<1	1.25	0.34	32

Ultra Series Single Sliding Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	A1W-ULTR-SS-3,CL-3,180(3)-13AR90SS-R1	1.66	0.53	34
G02	A1W-ULTR-SS-4,CL-4,180(3)-11AR90SS-R1	1.67	0.52	33
G03	A1W-ULTR-SS-3,270(2)-3,CL-13AR90SS-R1	1.60	0.29	22
G04	A1W-ULTR-SS-4,270(2)-4,CL-11AR90SS-R1	1.61	0.29	21
G05	A1W-ULTR-SS-3,366(2)-3,CL-13AR90SS-R1	1.58	0.22	18
G06	A1W-ULTR-SS-4,366(2)-4,CL-11AR90SS-R1	1.58	0.22	18
G07	A1W-ULTR-SS-3,366(2)-3,i89(4)-13AR90SS-R1	1.36	0.21	22
G08	A1W-ULTR-SS-4,366(2)-4,i89(4)-11AR90SS-R1	1.38	0.21	22
G09	A1W-ULTR-SS-5,366(2)-5,i89(4)-10AR90SS-R1	1.44	0.21	20



Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G10	A1W-ULTR-SS-6,366(2)-6,i89(4)-8AR90SS-R1	1.55	0.21	18
G11	A1W-ULTR-SS-3,CL-3,CL-3,180(5)-13AR90SS-R1	1.24	0.47	40
G12	A1W-ULTR-SS-4,CL-4,CL-4,180(5)-11AR90SS-R1	1.27	0.46	39
G13	A1W-ULTR-SS-5,CL-5,CL-5,180(5)-10AR90SS-R1	1.35	0.44	36
G14	A1W-ULTR-SS-6,CL-6,CL-6,180(5)-8AR90SS-R1	1.44	0.43	33
G15	A1W-ULTR-SS-3,270(2)-3,CL-3,CL-13AR90SS-R1	1.24	0.27	28
G16	A1W-ULTR-SS-4,270(2)-4,CL-4,CL-11AR90SS-R1	1.26	0.26	27
G17	A1W-ULTR-SS-5,270(2)-5,CL-5,CL-10AR90SS-R1	1.33	0.26	26
G18	A1W-ULTR-SS-6,270(2)-6,CL-6,CL-8AR90SS-R1	1.43	0.26	24
G19	A1W-ULTR-SS-3,366(2)-3,CL-3,CL-13AR90SS-R1	1.23	0.20	24
G20	A1W-ULTR-SS-4,366(2)-4,CL-4,CL-11AR90SS-R1	1.24	0.20	24
G21	A1W-ULTR-SS-5,366(2)-5,CL-5,CL-10AR90SS-R1	1.31	0.20	23
G22	A1W-ULTR-SS-6,366(2)-6,CL-6,CL-8AR90SS-R1	1.41	0.20	20
G23	A1W-ULTR-SS-3,270(2)-3,CL-3,180(5)-13AR90SS-R1	0.99	0.26	33
G24	A1W-ULTR-SS-4,270(2)-4,CL-4,180(5)-11AR90SS-R1	1.03	0.26	32
G25	A1W-ULTR-SS-5,270(2)-5,CL-5,180(5)-10AR90SS-R1	1.11	0.25	30
G26	A1W-ULTR-SS-6,270(2)-6,CL-6,180(5)-8AR90SS-R1	1.21	0.25	28
G27	A1W-ULTR-SS-3,CL-3,CL-3,180(5)-13AR90SS-R1-G1<1	1.26	0.44	38
G28	A1W-ULTR-SS-4,CL-4,CL-4,180(5)-11AR90SS-R1-G1<1	1.34	0.42	35
G29	A1W-ULTR-SS-5,CL-5,CL-5,180(5)-10AR90SS-R1-G1<1	1.36	0.41	34
G30	A1W-ULTR-SS-6,CL-6,CL-6,180(5)-8AR90SS-R1-G1<1	1.46	0.40	31

Ultra Series Single Hung Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	A1W-ULTR-SH-3,CL-3,180(3)-13AR90SS-R1	1.66	0.53	34
G02	A1W-ULTR-SH-4,CL-4,180(3)-11AR90SS-R1	1.67	0.52	33
G03	A1W-ULTR-SH-3,270(2)-3,CL-13AR90SS-R1	1.61	0.29	21
G04	A1W-ULTR-SH-4,270(2)-4,CL-11AR90SS-R1	1.62	0.29	21
G05	A1W-ULTR-SH-3,366(2)-3,CL-13AR90SS-R1	1.58	0.22	18
G06	A1W-ULTR-SH-4,366(2)-4,CL-11AR90SS-R1	1.59	0.22	18
G07	A1W-ULTR-SH-3,366(2)-3,i89(4)-13AR90SS-R1	1.36	0.21	22
G08	A1W-ULTR-SH-4,366(2)-4,i89(4)-11AR90SS-R1	1.38	0.21	22
G09	A1W-ULTR-SH-3,CL-3,CL-3,180(5)-13AR90SS-R1	1.25	0.47	40
G10	A1W-ULTR-SH-4,CL-4,CL-4,180(5)-11AR90SS-R1	1.29	0.46	38
G11	A1W-ULTR-SH-3,270(2)-3,CL-3,CL-13AR90SS-R1	1.25	0.27	28
G12	A1W-ULTR-SH-4,270(2)-4,CL-4,CL-11AR90SS-R1	1.27	0.26	27
G13	A1W-ULTR-SH-3,366(2)-3,CL-3,CL-13AR90SS-R1	1.23	0.20	24
G14	A1W-ULTR-SH-4,366(2)-4,CL-4,CL-11AR90SS-R1	1.26	0.20	24
G15	A1W-ULTR-SH-3,270(2)-3,CL-3,180(5)-13AR90SS-R1	1.00	0.26	33
G16	A1W-ULTR-SH-4,270(2)-4,CL-4,180(5)-11AR90SS-R1	1.05	0.26	32
G17	A1W-ULTR-SH-3,CL-3,CL-3,180(5)-13AR90SS-R1-G1<1	1.27	0.44	37
G18	A1W-ULTR-SH-4,CL-4,CL-4,180(5)-11AR90SS-R1-G1<1	1.34	0.42	35



5500 Series Picture Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	A1W-5500PC-4,270(2)-4,CL-16AR90SS-R1	1.48	0.29	24
G02	A1W-5500PC-5,270(2)-5,CL-14AR90SS-R1	1.47	0.28	24
G03	A1W-5500PC-6,270(2)-6,CL-13AR90SS-R1	1.46	0.28	24
G04	A1W-5500PC-4,270(2)-5,i89(4)-14AR90SS-R1	1.24	0.28	29
G05	A1W-5500PC-5,270(2)-5,i89(4)-14AR90SS-R1	1.24	0.28	29
G06	A1W-5500PC-6,270(2)-6,i89(4)-13AR90SS-R1	1.23	0.28	29
G07	A1W-5500PC-4,366(2)-4,CL-16AR90SS-R1	1.46	0.22	21
G08	A1W-5500PC-5,366(2)-5,CL-14AR90SS-R1	1.45	0.21	20
G09	A1W-5500PC-6,366(2)-6,CL-13AR90SS-R1	1.43	0.22	21
G10	A1W-5500PC-4,366(2)-5,i89(4)-14AR90SS-R1	1.22	0.21	25
G11	A1W-5500PC-5,366(2)-5,i89(4)-14AR90SS-R1	1.22	0.21	25
G12	A1W-5500PC-6,366(2)-6,i89(4)-13AR90SS-R1	1.21	0.21	25
G13	A1W-5500PC-4,270(2)-4,CL-4,CL-16AR90SS-R1	1.14	0.26	30
G14	A1W-5500PC-5,270(2)-5,CL-5,CL-14AR90SS-R1	1.14	0.26	30
G15	A1W-5500PC-6,270(2)-6,CL-6,CL-13AR90SS-R1	1.14	0.26	30
G16	A1W-5500PC-4,366(2)-4,CL-4,CL-16AR90SS-R1	1.13	0.20	27
G17	A1W-5500PC-5,366(2)-5,CL-5,CL-14AR90SS-R1	1.12	0.20	27
G18	A1W-5500PC-6,366(2)-6,CL-6,CL-13AR90SS-R1	1.12	0.20	27
G19	A1W-5500PC-4,270(2)-4,CL-4,270(5)-16AR90SS-R1	0.86	0.24	35
G20	A1W-5500PC-5,270(2)-5,CL-5,270(5)-14AR90SS-R1	0.86	0.24	35
G21	A1W-5500PC-6,270(2)-6,CL-6,270(5)-13AR90SS-R1	0.87	0.24	35
G22	A1W-5500PC-4,366(2)-4,CL-4,270(5)-16AR90SS-R1	0.85	0.19	32
G23	A1W-5500PC-5,366(2)-5,CL-5,270(5)-14AR90SS-R1	0.85	0.19	32
G24	A1W-5500PC-6,366(2)-6,CL-6,270(5)-13AR90SS-R1	0.87	0.19	32
G25	A1W-5500PC-3,270(2)-3,CL-18AR90SS-R1	1.50	0.29	24
G26	A1W-5500PC-3,270(2)-3,i89(4)-18AR90SS-R1	1.25	0.29	29
G27	A1W-5500PC-3,366(2)-3,CL-18AR90SS-R1	1.47	0.22	20
G28	A1W-5500PC-3,366(2)-3,i89(4)-18AR90SS-R1	1.24	0.21	25
G29	A1W-5500PC-3,270(2)-3,CL-3,CL-18AR90SS-R1	1.15	0.27	30
G30	A1W-5500PC-3,366(2)-3,CL-3,CL-18AR90SS-R1	1.13	0.20	27
G31	A1W-5500PC-3,270(2)-3,CL-3,270(5)-18AR90SS-R1	0.86	0.25	35
G32	A1W-5500PC-3,366(2)-3,CL-3,270(5)-18AR90SS-R1	0.85	0.19	32
G33	A1W-5500PC-4,270(2)-4,CL-16AR90SS-R1-G1<1	1.60	0.26	20
G34	A1W-5500PC-5,270(2)-5,CL-14AR90SS-R1-G1<1	1.64	0.26	19
G35	A1W-5500PC-6,270(2)-6,CL-13AR90SS-R1-G1<1	1.73	0.26	17
G36	A1W-5500PC-4,270(2)-5,i89(4)-14AR90SS-R1-G1<1	1.36	0.25	24
G37	A1W-5500PC-5,270(2)-5,i89(4)-14AR90SS-R1-G1<1	1.36	0.25	24
G38	A1W-5500PC-6,270(2)-6,i89(4)-13AR90SS-R1-G1<1	1.41	0.25	23
G39	A1W-5500PC-4,366(2)-4,CL-16AR90SS-R1-G1<1	1.58	0.19	16
G40	A1W-5500PC-5,366(2)-5,CL-14AR90SS-R1-G1<1	1.61	0.19	16
G41	A1W-5500PC-6,366(2)-6,CL-13AR90SS-R1-G1<1	1.70	0.20	14
G42	A1W-5500PC-4,366(2)-5,i89(4)-14AR90SS-R1-G1<1	1.34	0.19	21
G43	A1W-5500PC-5,366(2)-5,i89(4)-14AR90SS-R1-G1<1	1.34	0.19	21
G44	A1W-5500PC-6,366(2)-6,i89(4)-13AR90SS-R1-G1<1	1.40	0.19	20
G45	A1W-5500PC-4,270(2)-4,CL-4,CL-16AR90SS-R1-G1<1	1.20	0.24	27
G46	A1W-5500PC-5,270(2)-5,CL-5,CL-14AR90SS-R1-G1<1	1.22	0.24	27
G47	A1W-5500PC-6,270(2)-6,CL-6,CL-13AR90SS-R1-G1<1	1.27	0.23	25
G48	A1W-5500PC-4,366(2)-4,CL-4,CL-16AR90SS-R1-G1<1	1.18	0.18	24
G49	A1W-5500PC-5,366(2)-5,CL-5,CL-14AR90SS-R1-G1<1	1.20	0.18	24
G50	A1W-5500PC-6,366(2)-6,CL-6,CL-13AR90SS-R1-G1<1	1.25	0.18	23
G51	A1W-5500PC-4,270(2)-4,CL-4,270(5)-16AR90SS-R1-G1<1	0.88	0.22	33
G52	A1W-5500PC-5,270(2)-5,CL-5,270(5)-14AR90SS-R1-G1<1	0.89	0.22	33
G53	A1W-5500PC-6,270(2)-6,CL-6,270(5)-13AR90SS-R1-G1<1	0.93	0.21	32



Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G54	A1W-5500PC-4,366(2)-4,CL-4,270(5)-16AR90SS-R1-G1<1	0.88	0.17	30
G55	A1W-5500PC-5,366(2)-5,CL-5,270(5)-14AR90SS-R1-G1<1	0.88	0.17	30
G56	A1W-5500PC-6,366(2)-6,CL-6,270(5)-13AR90SS-R1-G1<1	0.92	0.17	29
G57	A1W-5500PC-3,270(2)-3,CL-18AR90SS-R1-G1<1	1.50	0.26	22
G58	A1W-5500PC-3,270(2)-3,i89(4)-18AR90SS-R1-G1<1	1.25	0.26	27
G59	A1W-5500PC-3,366(2)-3,CL-18AR90SS-R1-G1<1	1.47	0.20	19
G60	A1W-5500PC-3,366(2)-3,i89(4)-18AR90SS-R1-G1<1	1.24	0.19	24
G61	A1W-5500PC-3,270(2)-3,CL-3,CL-18AR90SS-R1-G1<1	1.15	0.24	28
G62	A1W-5500PC-3,366(2)-3,CL-3,CL-18AR90SS-R1-G1<1	1.13	0.18	25
G63	A1W-5500PC-3,270(2)-3,CL-3,270(5)-18AR90SS-R1-G1<1	0.86	0.22	34
G64	A1W-5500PC-3,366(2)-3,CL-3,270(5)-18AR90SS-R1-G1<1	0.85	0.17	31
G65	A1W-5500PC-4,270(2)-4,CL-4,270(5)-16AR90ST-F1	0.81	0.24	36
G66	A1W-5500PC-5,270(2)-5,CL-5,270(5)-14AR90ST-F1	0.81	0.24	36
G67	A1W-5500PC-6,270(2)-6,CL-6,270(5)-13AR90ST-F1	0.83	0.24	35
G68	A1W-5500PC-4,180(2)-4,CL-4,180(5)-16AR90ST-F1	0.85	0.43	46
G69	A1W-5500PC-5,180(2)-5,CL-5,180(5)-14AR90ST-F1	0.85	0.42	45
G70	A1W-5500PC-6,180(2)-6,CL-6,180(5)-13AR90ST-F1	0.87	0.40	44
G71	A1W-5500PC-4,366(2)-4,CL-4,270(5)-16AR90ST-F1	0.80	0.19	33
G72	A1W-5500PC-5,366(2)-5,CL-5,270(5)-14AR90ST-F1	0.80	0.19	33
G73	A1W-5500PC-6,366(2)-6,CL-6,270(5)-13AR90ST-F1	0.82	0.19	33
G74	A1W-5500PC-3,270(2)-3,CL-3,270(5)-18AR90ST-F1	0.81	0.25	37
G75	A1W-5500PC-3,180(2)-3,CL-3,180(5)-18AR90ST-F1	0.86	0.44	46
G76	A1W-5500PC-3,366(2)-3,CL-3,270(5)-18AR90ST-F1	0.80	0.19	33
G77	A1W-5500PC-4,270(2)-4,CL-4,270(5)-16AR90ST-F2	0.77	0.24	37
G78	A1W-5500PC-5,270(2)-5,CL-5,270(5)-14AR90ST-F2	0.77	0.24	37
G79	A1W-5500PC-6,270(2)-6,CL-6,270(5)-13AR90ST-F2	0.79	0.24	36
G80	A1W-5500PC-4,180(2)-4,CL-4,180(5)-16AR90ST-F2	0.82	0.43	47
G81	A1W-5500PC-5,180(2)-5,CL-5,180(5)-14AR90ST-F2	0.82	0.42	46
G82	A1W-5500PC-6,180(2)-6,CL-6,180(5)-13AR90ST-F2	0.83	0.40	45
G83	A1W-5500PC-4,366(2)-4,CL-4,270(5)-16AR90ST-F2	0.77	0.19	34
G84	A1W-5500PC-5,366(2)-5,CL-5,270(5)-14AR90ST-F2	0.77	0.19	34
G85	A1W-5500PC-6,366(2)-6,CL-6,270(5)-13AR90ST-F2	0.78	0.19	34
G86	A1W-5500PC-3,270(2)-3,CL-3,270(5)-18AR90ST-F2	0.78	0.25	37
G87	A1W-5500PC-3,180(2)-3,CL-3,180(5)-18AR90ST-F2	0.82	0.44	47
G88	A1W-5500PC-3,366(2)-3,CL-3,270(5)-18AR90ST-F2	0.77	0.19	34

5500 Series Tilt & Turn Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	A1W-5500TT-4,270(2)-4,CL-16AR90SS-R1	1.46	0.25	22
G02	A1W-5500TT-4,270(2)-5,i89(4)-14AR90SS-R1	1.25	0.25	27
G03	A1W-5500TT-4,366(2)-4,CL-16AR90SS-R1	1.44	0.19	19
G04	A1W-5500TT-4,366(2)-5,i89(4)-14AR90SS-R1	1.24	0.19	23
G05	A1W-5500TT-4,270(2)-4,CL-4,CL-16AR90SS-R1	1.17	0.23	27
G06	A1W-5500TT-4,366(2)-4,CL-4,CL-16AR90SS-R1	1.16	0.17	24
G07	A1W-5500TT-4,270(2)-4,CL-4,270(5)-16AR90SS-R1	0.93	0.21	31
G08	A1W-5500TT-4,366(2)-4,CL-4,270(5)-16AR90SS-R1	0.92	0.17	29
G09	A1W-5500TT-4,270(2)-4,CL-16AR90SS-R1-G1<1	1.57	0.25	20
G10	A1W-5500TT-4,270(2)-5,i89(4)-14AR90SS-R1-G1<1	1.36	0.25	24



Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G11	A1W-5500TT-4,366(2)-4,CL-16AR90SS-R1-G1<1	1.55	0.19	17
G12	A1W-5500TT-4,366(2)-5,i89(4)-14AR90SS-R1-G1<1	1.34	0.19	21
G13	A1W-5500TT-4,270(2)-4,CL-4,CL-16AR90SS-R1-G1<1	1.22	0.23	26
G14	A1W-5500TT-4,366(2)-4,CL-4,CL-16AR90SS-R1-G1<1	1.21	0.17	23
G15	A1W-5500TT-4,270(2)-4,CL-4,270(5)-16AR90SS-R1-G1<1	0.95	0.21	31
G16	A1W-5500TT-4,366(2)-4,CL-4,270(5)-16AR90SS-R1-G1<1	0.95	0.17	29
G17	A1W-5500TT-4,270(2)-4,CL-4,270(5)-16AR90ST-F1	0.84	0.21	33
G18	A1W-5500TT-4,180(2)-4,CL-4,180(5)-16AR90ST-F1	0.87	0.37	42
G19	A1W-5500TT-4,366(2)-4,CL-4,270(5)-16AR90ST-F1	0.83	0.17	31
G20	A1W-5500TT-4,270(2)-4,CL-4,270(5)-16AR90ST-F2	0.81	0.21	34
G21	A1W-5500TT-4,180(2)-4,CL-4,180(5)-16AR90ST-F2	0.85	0.37	42
G22	A1W-5500TT-4,366(2)-4,CL-4,270(5)-16AR90ST-F2	0.80	0.17	32

5500 Series Tilt Only (Hopper) Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	A1W-5500HP-4,270(2)-4,CL-16AR90SS-R1	1.46	0.25	22
G02	A1W-5500HP-4,270(2)-5,i89(4)-14AR90SS-R1	1.25	0.25	27
G03	A1W-5500HP-4,366(2)-4,CL-16AR90SS-R1	1.44	0.19	19
G04	A1W-5500HP-4,366(2)-5,i89(4)-14AR90SS-R1	1.24	0.19	23
G05	A1W-5500HP-4,270(2)-4,CL-4,CL-16AR90SS-R1	1.17	0.23	27
G06	A1W-5500HP-4,366(2)-4,CL-4,CL-16AR90SS-R1	1.16	0.17	24
G07	A1W-5500HP-4,270(2)-4,CL-4,270(5)-16AR90SS-R1	0.93	0.21	31
G08	A1W-5500HP-4,366(2)-4,CL-4,270(5)-16AR90SS-R1	0.92	0.17	29
G09	A1W-5500HP-4,270(2)-4,CL-16AR90SS-R1-G1<1	1.57	0.25	20
G10	A1W-5500HP-4,270(2)-5,i89(4)-14AR90SS-R1-G1<1	1.36	0.25	24
G11	A1W-5500HP-4,366(2)-4,CL-16AR90SS-R1-G1<1	1.55	0.19	17
G12	A1W-5500HP-4,366(2)-5,i89(4)-14AR90SS-R1-G1<1	1.34	0.19	21
G13	A1W-5500HP-4,270(2)-4,CL-4,CL-16AR90SS-R1-G1<1	1.22	0.23	26
G14	A1W-5500HP-4,366(2)-4,CL-4,CL-16AR90SS-R1-G1<1	1.21	0.17	23
G15	A1W-5500HP-4,270(2)-4,CL-4,270(5)-16AR90SS-R1-G1<1	0.95	0.21	31
G16	A1W-5500HP-4,366(2)-4,CL-4,270(5)-16AR90SS-R1-G1<1	0.95	0.17	29
G17	A1W-5500HP-4,270(2)-4,CL-4,270(5)-16AR90ST-F1	0.84	0.21	33
G18	A1W-5500HP-4,180(2)-4,CL-4,180(5)-16AR90ST-F1	0.87	0.37	42
G19	A1W-5500HP-4,366(2)-4,CL-4,270(5)-16AR90ST-F1	0.83	0.17	31
G20	A1W-5500HP-4,270(2)-4,CL-4,270(5)-16AR90ST-F2	0.81	0.21	34
G21	A1W-5500HP-4,180(2)-4,CL-4,180(5)-16AR90ST-F2	0.85	0.37	42
G22	A1W-5500HP-4,366(2)-4,CL-4,270(5)-16AR90ST-F2	0.80	0.17	32



UltraPRO Series Picture Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	A1W-UPRPC-3,270(2)-3,CL-16AR90SS	1.44	0.29	25
G02	A1W-UPRPC-4,270(2)-4,CL-14AR90SS	1.43	0.28	25
G03	A1W-UPRPC-5,270(2)-5,CL-13AR90SS	1.41	0.28	25
G04	A1W-UPRPC-6,270(2)-6,CL-11AR90SS	1.42	0.28	25
G05	A1W-UPRPC-3,270(2)-3,i89(4)-16AR90SS	1.21	0.28	30
G06	A1W-UPRPC-4,270(2)-4,i89(4)-14AR90SS	1.20	0.28	30
G07	A1W-UPRPC-5,270(2)-5,i89(4)-13AR90SS	1.20	0.28	30
G08	A1W-UPRPC-6,270(2)-6,i89(4)-11AR90SS	1.21	0.27	29
G09	A1W-UPRPC-3,366(2)-3,CL-16AR90SS	1.41	0.21	21
G10	A1W-UPRPC-4,366(2)-4,CL-14AR90SS	1.40	0.21	21
G11	A1W-UPRPC-5,366(2)-5,CL-13AR90SS	1.39	0.21	22
G12	A1W-UPRPC-6,366(2)-6,CL-11AR90SS	1.39	0.21	22
G13	A1W-UPRPC-3,366(2)-3,i89(4)-16AR90SS	1.19	0.21	26
G14	A1W-UPRPC-4,366(2)-4,i89(4)-14AR90SS	1.18	0.21	26
G15	A1W-UPRPC-5,366(2)-5,i89(4)-13AR90SS	1.18	0.21	26
G16	A1W-UPRPC-6,366(2)-6,i89(4)-11AR90SS	1.19	0.21	26
G17	A1W-UPRPC-3,270(2)-3,CL-3,CL-16AR90SS	1.11	0.26	31
G18	A1W-UPRPC-4,270(2)-4,CL-4,CL-14AR90SS	1.11	0.26	31
G19	A1W-UPRPC-5,270(2)-5,CL-5,CL-13AR90SS	1.11	0.26	31
G20	A1W-UPRPC-6,270(2)-6,CL-6,CL-11AR90SS	1.13	0.26	30
G21	A1W-UPRPC-3,270(2)-3,CL-3,180(5)-16AR90SS	0.85	0.26	36
G22	A1W-UPRPC-4,270(2)-4,CL-4,180(5)-14AR90SS	0.85	0.25	36
G23	A1W-UPRPC-5,270(2)-5,CL-5,180(5)-13AR90SS	0.86	0.25	36
G24	A1W-UPRPC-6,270(2)-6,CL-6,180(5)-11AR90SS	0.90	0.25	35
G25	A1W-UPRPC-3,366(2)-3,CL-3,CL-16AR90SS	1.09	0.20	28
G26	A1W-UPRPC-4,366(2)-4,CL-4,CL-14AR90SS	1.09	0.20	28
G27	A1W-UPRPC-5,366(2)-5,CL-5,CL-13AR90SS	1.09	0.20	28
G28	A1W-UPRPC-6,366(2)-6,CL-6,CL-11AR90SS	1.11	0.20	27
G29	A1W-UPRPC-3,270(2)-3,CL-16AR90SS-R1	1.46	0.29	25
G30	A1W-UPRPC-4,270(2)-4,CL-14AR90SS-R1	1.45	0.28	24
G31	A1W-UPRPC-5,270(2)-5,CL-13AR90SS-R1	1.44	0.28	25
G32	A1W-UPRPC-6,270(2)-6,CL-11AR90SS-R1	1.44	0.28	25
G33	A1W-UPRPC-3,270(2)-3,i89(4)-16AR90SS-R1	1.23	0.28	29
G34	A1W-UPRPC-4,270(2)-4,i89(4)-14AR90SS-R1	1.23	0.28	29
G35	A1W-UPRPC-5,270(2)-5,i89(4)-13AR90SS-R1	1.22	0.28	29
G36	A1W-UPRPC-6,270(2)-6,i89(4)-11AR90SS-R1	1.24	0.27	28
G37	A1W-UPRPC-3,366(2)-3,CL-16AR90SS-R1	1.44	0.21	21
G38	A1W-UPRPC-4,366(2)-4,CL-14AR90SS-R1	1.42	0.21	21
G39	A1W-UPRPC-5,366(2)-5,CL-13AR90SS-R1	1.41	0.21	21
G40	A1W-UPRPC-6,366(2)-6,CL-11AR90SS-R1	1.41	0.21	21
G41	A1W-UPRPC-3,366(2)-3,i89(4)-16AR90SS-R1	1.22	0.21	25
G42	A1W-UPRPC-4,366(2)-4,i89(4)-14AR90SS-R1	1.21	0.21	26
G43	A1W-UPRPC-5,366(2)-5,i89(4)-13AR90SS-R1	1.20	0.21	26
G44	A1W-UPRPC-6,366(2)-6,i89(4)-11AR90SS-R1	1.22	0.21	25
G45	A1W-UPRPC-3,270(2)-3,CL-3,CL-16AR90SS-R1	1.13	0.26	30
G46	A1W-UPRPC-4,270(2)-4,CL-4,CL-14AR90SS-R1	1.13	0.26	30
G47	A1W-UPRPC-5,270(2)-5,CL-5,CL-13AR90SS-R1	1.13	0.26	30
G48	A1W-UPRPC-6,270(2)-6,CL-6,CL-11AR90SS-R1	1.15	0.26	30
G49	A1W-UPRPC-3,270(2)-3,CL-3,180(5)-16AR90SS-R1	0.87	0.26	36
G50	A1W-UPRPC-4,270(2)-4,CL-4,180(5)-14AR90SS-R1	0.87	0.25	35
G51	A1W-UPRPC-5,270(2)-5,CL-5,180(5)-13AR90SS-R1	0.89	0.25	35
G52	A1W-UPRPC-6,270(2)-6,CL-6,180(5)-11AR90SS-R1	0.93	0.25	34
G53	A1W-UPRPC-3,366(2)-3,CL-3,CL-16AR90SS-R1	1.12	0.20	27



Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G54	A1W-UPRPC-4,366(2)-4,CL-4,CL-14AR90SS-R1	1.11	0.20	27
G55	A1W-UPRPC-5,366(2)-5,CL-5,CL-13AR90SS-R1	1.11	0.20	27
G56	A1W-UPRPC-6,366(2)-6,CL-6,CL-11AR90SS-R1	1.13	0.20	27

UltraPRO Series Casement Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	A1W-UPRCA-3,270(2)-3,CL-16AR90SS	1.36	0.16	19
G02	A1W-UPRCA-4,270(2)-4,CL-14AR90SS	1.36	0.16	19
G03	A1W-UPRCA-3,270(2)-3,i89(4)-16AR90SS	1.24	0.16	22
G04	A1W-UPRCA-4,270(2)-4,i89(4)-14AR90SS	1.24	0.16	22
G05	A1W-UPRCA-3,366(2)-3,CL-16AR90SS	1.34	0.12	17
G06	A1W-UPRCA-4,366(2)-4,CL-14AR90SS	1.35	0.12	17
G07	A1W-UPRCA-3,366(2)-3,i89(4)-16AR90SS	1.23	0.12	20
G08	A1W-UPRCA-4,366(2)-4,i89(4)-14AR90SS	1.23	0.12	20
G09	A1W-UPRCA-3,270(2)-3,CL-3,CL-16AR90SS	1.13	0.15	24
G10	A1W-UPRCA-4,270(2)-4,CL-4,CL-14AR90SS	1.14	0.15	24
G11	A1W-UPRCA-3,270(2)-3,CL-3,180(5)-16AR90SS	0.99	0.15	27
G12	A1W-UPRCA-4,270(2)-4,CL-4,180(5)-14AR90SS	0.99	0.14	26
G13	A1W-UPRCA-3,366(2)-3,CL-3,CL-16AR90SS	1.12	0.11	22
G14	A1W-UPRCA-4,366(2)-4,CL-4,CL-14AR90SS	1.13	0.11	21
G15	A1W-UPRCA-3,270(2)-3,CL-16AR90SS-R1	1.42	0.16	18
G16	A1W-UPRCA-4,270(2)-4,CL-14AR90SS-R1	1.42	0.16	18
G17	A1W-UPRCA-3,270(2)-3,i89(4)-16AR90SS-R1	1.31	0.16	20
G18	A1W-UPRCA-4,270(2)-4,i89(4)-14AR90SS-R1	1.31	0.16	20
G19	A1W-UPRCA-3,366(2)-3,CL-16AR90SS-R1	1.41	0.12	16
G20	A1W-UPRCA-4,366(2)-4,CL-14AR90SS-R1	1.41	0.12	16
G21	A1W-UPRCA-3,366(2)-3,i89(4)-16AR90SS-R1	1.29	0.12	18
G22	A1W-UPRCA-4,366(2)-4,i89(4)-14AR90SS-R1	1.30	0.12	18
G23	A1W-UPRCA-3,270(2)-3,CL-3,CL-16AR90SS-R1	1.20	0.15	22
G24	A1W-UPRCA-4,270(2)-4,CL-4,CL-14AR90SS-R1	1.20	0.15	22
G25	A1W-UPRCA-3,270(2)-3,CL-3,180(5)-16AR90SS-R1	1.05	0.15	25
G26	A1W-UPRCA-4,270(2)-4,CL-4,180(5)-14AR90SS-R1	1.05	0.14	25
G27	A1W-UPRCA-3,366(2)-3,CL-3,CL-16AR90SS-R1	1.19	0.11	20
G28	A1W-UPRCA-4,366(2)-4,CL-4,CL-14AR90SS-R1	1.19	0.11	20

UltraPRO Series Awning Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	A1W-UPRAW-3,270(2)-3,CL-16AR90SS	1.37	0.16	19
G02	A1W-UPRAW-4,270(2)-4,CL-14AR90SS	1.37	0.16	19
G03	A1W-UPRAW-3,270(2)-3,i89(4)-16AR90SS	1.26	0.16	21



Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G04	A1W-UPRAW-4,270(2)-4,i89(4)-14AR90SS	1.26	0.16	21
G05	A1W-UPRAW-3,366(2)-3,CL-16AR90SS	1.35	0.12	17
G06	A1W-UPRAW-4,366(2)-4,CL-14AR90SS	1.35	0.12	17
G07	A1W-UPRAW-3,366(2)-3,i89(4)-16AR90SS	1.25	0.12	19
G08	A1W-UPRAW-4,366(2)-4,i89(4)-14AR90SS	1.25	0.12	19
G09	A1W-UPRAW-3,270(2)-3,CL-3,CL-16AR90SS	1.14	0.15	23
G10	A1W-UPRAW-4,270(2)-4,CL-4,CL-14AR90SS	1.14	0.15	23
G11	A1W-UPRAW-3,270(2)-3,CL-3,180(5)-16AR90SS	0.99	0.15	27
G12	A1W-UPRAW-4,270(2)-4,CL-4,180(5)-14AR90SS	1.00	0.14	26
G13	A1W-UPRAW-3,366(2)-3,CL-3,CL-16AR90SS	1.13	0.11	21
G14	A1W-UPRAW-4,366(2)-4,CL-4,CL-14AR90SS	1.13	0.11	21
G15	A1W-UPRAW-3,270(2)-3,CL-16AR90SS-R1	1.43	0.16	18
G16	A1W-UPRAW-4,270(2)-4,CL-14AR90SS-R1	1.43	0.16	18
G17	A1W-UPRAW-3,270(2)-3,i89(4)-16AR90SS-R1	1.32	0.16	20
G18	A1W-UPRAW-4,270(2)-4,i89(4)-14AR90SS-R1	1.32	0.16	20
G19	A1W-UPRAW-3,366(2)-3,CL-16AR90SS-R1	1.41	0.12	16
G20	A1W-UPRAW-4,366(2)-4,CL-14AR90SS-R1	1.41	0.12	16
G21	A1W-UPRAW-3,366(2)-3,i89(4)-16AR90SS-R1	1.31	0.12	18
G22	A1W-UPRAW-4,366(2)-4,i89(4)-14AR90SS-R1	1.31	0.12	18
G23	A1W-UPRAW-3,270(2)-3,CL-3,CL-16AR90SS-R1	1.20	0.15	22
G24	A1W-UPRAW-4,270(2)-4,CL-4,CL-14AR90SS-R1	1.20	0.15	22
G25	A1W-UPRAW-3,270(2)-3,CL-3,180(5)-16AR90SS-R1	1.05	0.15	25
G26	A1W-UPRAW-4,270(2)-4,CL-4,180(5)-14AR90SS-R1	1.05	0.14	25
G27	A1W-UPRAW-3,366(2)-3,CL-3,CL-16AR90SS-R1	1.19	0.11	20
G28	A1W-UPRAW-4,366(2)-4,CL-4,CL-14AR90SS-R1	1.19	0.11	20

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.
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