

WINDOWS & DOORS LISTING PROGRAM

Customer: A-1 Window Manufacturing Ltd.
Class: Fenestration Products – Energy Performance
Location: Burnaby, British Columbia
Website: www.a1windows.ca

Listing No. W453-3
Project No. W453-3 ED4
Effective Date: April 19, 2010
Last Revised Date: January 6, 2021
Expires: N/A

Standards: CSA A440.2-19 “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

| Model Code | U-Value (W/m²K) | Energy Rating |
|----------------------------------|-----------------|---------------|
| A1W-350PC-4,272(2)-4,CL-16AR95EN | 1.74 | 22 |
| A1W-350PC-5,272(2)-5,CL-15AR95EN | 1.73 | 22 |
| A1W-350PC-6,272(2)-6,CL-13AR95EN | 1.71 | 23 |
| A1W-350PC-6,272(2)-4,CL-15AR95EN | 1.73 | 22 |
| A1W-350PC-4,366(2)-4,CL-16AR95EN | 1.70 | 17 |
| A1W-350PC-5,366(2)-5,CL-15AR95EN | 1.69 | 17 |
| A1W-350PC-6,366(2)-6,CL-13AR95EN | 1.66 | 18 |

| Model Code | U-Value (W/m ² K) | Energy Rating |
|---|------------------------------|---------------|
| A1W-350PC-6,366(2)-4,CL-15AR95EN | 1.68 | 17 |
| A1W-350PC-4,366(2)-4,189(4)-16AR95EN | 1.45 | 22 |
| A1W-350PC-5,366(2)-5,189(4)-15AR95EN | 1.45 | 22 |
| A1W-350PC-6,366(2)-6,189(4)-13AR95EN | 1.43 | 22 |
| A1W-350PC-6,366(2)-4,189(4)-15AR95EN | 1.45 | 22 |
| A1W-350PC-4,272(2)-4,CL-4,180(5)-15AR95EN | 1.10 | 34 |
| A1W-350PC-5,272(2)-5,CL-5,180(5)-13AR95EN | 1.11 | 34 |
| A1W-350PC-4,CL-4,180(3)-16AR95EN | 1.79 | 34 |
| A1W-350PC-5,CL-5,180(3)-15AR95EN | 1.78 | 33 |
| A1W-350PC-6,CL-6,180(3)-13AR95EN | 1.76 | 33 |
| A1W-350PC-4,272(2)-4,CL-4,CL-15AR95EN | 1.39 | 29 |
| A1W-350PC-5,272(2)-5,CL-5,CL-13AR95EN | 1.39 | 28 |
| A1W-350PC-6,272(2)-6,CL-6,CL-12AR95EN | 1.39 | 28 |
| A1W-350PC-4,366(2)-4,CL-4,CL-15AR95EN | 1.37 | 23 |
| A1W-350PC-5,366(2)-5,CL-5,CL-13AR95EN | 1.36 | 23 |
| A1W-350PC-6,366(2)-6,CL-6,CL-12AR95EN | 1.36 | 23 |
| A1W-350PC-4,272(2)-4,180(4)-4,189(6)-15AR95EN | 1.02 | 36 |
| A1W-350PC-5,272(2)-5,180(4)-5,189(6)-13AR95EN | 1.03 | 35 |
| A1W-350PC-6,272(2)-6,180(4)-6,189(6)-12AR95EN | 1.06 | 34 |
| A1W-350PC-4,CL-4,180(3)-16AR90SS | 1.83 | 33 |
| A1W-350PC-5,CL-5,180(3)-14AR90SS | 1.82 | 33 |
| A1W-350PC-6,CL-6,180(3)-13AR90SS | 1.80 | 32 |
| A1W-350PC-4,270(2)-4,CL-16AR90SS | 1.77 | 20 |
| A1W-350PC-5,270(2)-5,CL-14AR90SS | 1.75 | 20 |
| A1W-350PC-6,270(2)-6,CL-13AR90SS | 1.74 | 20 |
| A1W-350PC-6,270(2)-4,CL-14AR90SS | 1.75 | 20 |
| A1W-350PC-4,366(2)-4,CL-16AR90SS | 1.74 | 16 |
| A1W-350PC-5,366(2)-5,CL-14AR90SS | 1.73 | 16 |
| A1W-350PC-6,366(2)-6,CL-13AR90SS | 1.71 | 16 |
| A1W-350PC-6,366(2)-4,CL-14AR90SS | 1.73 | 16 |
| A1W-350PC-4,366(2)-4,189(4)-16AR90SS | 1.53 | 20 |
| A1W-350PC-5,366(2)-5,189(4)-14AR90SS | 1.50 | 20 |
| A1W-350PC-6,366(2)-6,189(4)-13AR90SS | 1.49 | 21 |
| A1W-350PC-6,366(2)-4,189(4)-14AR90SS | 1.50 | 20 |
| A1W-350PC-4,270(2)-4,CL-4,CL-14AR90SS | 1.41 | 26 |
| A1W-350PC-5,270(2)-5,CL-5,CL-13AR90SS | 1.41 | 26 |
| A1W-350PC-6,270(2)-6,CL-6,CL-11AR90SS | 1.43 | 25 |
| A1W-350PC-4,366(2)-4,CL-4,CL-14AR90SS | 1.39 | 22 |
| A1W-350PC-5,366(2)-5,CL-5,CL-13AR90SS | 1.39 | 22 |
| A1W-350PC-6,366(2)-6,CL-6,CL-11AR90SS | 1.41 | 22 |
| A1W-350PC-4,270(2)-4,CL-4,180(5)-14AR90SS | 1.13 | 31 |

| Model Code | U-Value (W/m ² K) | Energy Rating |
|---|------------------------------|---------------|
| A1W-350PC-5,270(2)-5,CL-5,180(5)-13AR90SS | 1.15 | 31 |
| A1W-350PC-4,270(2)-4,180(4)-4,i89(6)-14AR90SS | 1.05 | 33 |
| A1W-350PC-5,270(2)-5,180(4)-5,i89(6)-13AR90SS | 1.07 | 32 |
| A1W-350PC-6,270(2)-6,180(4)-6,i89(6)-11AR90SS | 1.11 | 31 |

350 Series Casement Window

| Model Code | U-Value (W/m ² K) | Energy Rating |
|---|------------------------------|---------------|
| A1W-350CA-4,272(2)-4,CL-16AR95EN | 2.64 | -3 |
| A1W-350CA-5,272(2)-5,CL-15AR95EN | 2.64 | -3 |
| A1W-350CA-6,272(2)-6,CL-13AR95EN | 2.63 | -4 |
| A1W-350CA-6,272(2)-4,CL-15AR95EN | 2.63 | -4 |
| A1W-350CA-4,366(2)-4,CL-16AR95EN | 2.62 | -8 |
| A1W-350CA-5,366(2)-5,CL-15AR95EN | 2.61 | -7 |
| A1W-350CA-6,366(2)-6,CL-13AR95EN | 2.60 | -7 |
| A1W-350CA-6,366(2)-4,CL-15AR95EN | 2.61 | -7 |
| A1W-350CA-4,366(2)-4,i89(4)-16AR95EN | 2.46 | -4 |
| A1W-350CA-5,366(2)-5,i89(4)-15AR95EN | 2.45 | -4 |
| A1W-350CA-6,366(2)-6,i89(4)-13AR95EN | 2.45 | -4 |
| A1W-350CA-6,366(2)-4,i89(4)-15AR95EN | 2.45 | -4 |
| A1W-350CA-4,272(2)-4,CL-4,180(5)-15AR95EN | 2.18 | 5 |
| A1W-350CA-5,272(2)-5,CL-5,180(5)-13AR95EN | 2.19 | 5 |
| A1W-350CA-4,CL-4,180(3)-16AR95EN | 2.67 | 4 |
| A1W-350CA-5,CL-5,180(3)-15AR95EN | 2.67 | 3 |
| A1W-350CA-6,CL-6,180(3)-13AR95EN | 2.66 | 3 |
| A1W-350CA-4,272(2)-4,CL-4,CL-15AR95EN | 2.36 | 2 |
| A1W-350CA-5,272(2)-5,CL-5,CL-13AR95EN | 2.36 | 2 |
| A1W-350CA-6,272(2)-6,CL-6,CL-12AR95EN | 2.37 | 1 |
| A1W-350CA-4,366(2)-4,CL-4,CL-15AR95EN | 2.35 | -2 |
| A1W-350CA-5,366(2)-5,CL-5,CL-13AR95EN | 2.35 | -2 |
| A1W-350CA-6,366(2)-6,CL-6,CL-12AR95EN | 2.35 | -2 |
| A1W-350CA-4,272(2)-4,180(4)-4,i89(6)-15AR95EN | 2.11 | 6 |
| A1W-350CA-4,CL-4,180(3)-16AR90SS | 2.81 | 1 |
| A1W-350CA-5,CL-5,180(3)-14AR90SS | 2.80 | 1 |
| A1W-350CA-6,CL-6,180(3)-13AR90SS | 2.79 | 1 |
| A1W-350CA-4,270(2)-4,CL-16AR90SS | 2.78 | -8 |
| A1W-350CA-5,270(2)-5,CL-14AR90SS | 2.76 | -8 |
| A1W-350CA-6,270(2)-6,CL-13AR90SS | 2.75 | -8 |
| A1W-350CA-6,270(2)-4,CL-14AR90SS | 2.76 | -8 |
| A1W-350CA-4,366(2)-4,CL-16AR90SS | 2.76 | -11 |
| A1W-350CA-5,366(2)-5,CL-14AR90SS | 2.75 | -10 |

| Model Code | U-Value (W/m ² K) | Energy Rating |
|---|------------------------------|---------------|
| A1W-350CA-6,366(2)-6,CL-13AR90SS | 2.74 | -10 |
| A1W-350CA-6,366(2)-4,CL-14AR90SS | 2.75 | -10 |
| A1W-350CA-4,366(2)-4,i89(4)-16AR90SS | 2.66 | -8 |
| A1W-350CA-5,366(2)-5,i89(4)-14AR90SS | 2.65 | -8 |
| A1W-350CA-6,366(2)-6,i89(4)-13AR90SS | 2.64 | -8 |
| A1W-350CA-6,366(2)-4,i89(4)-14AR90SS | 2.65 | -8 |
| A1W-350CA-4,270(2)-4,CL-4,CL-14AR90SS | 2.46 | -2 |
| A1W-350CA-5,270(2)-5,CL-5,CL-13AR90SS | 2.46 | -2 |
| A1W-350CA-6,270(2)-6,CL-6,CL-11AR90SS | 2.49 | -3 |
| A1W-350CA-4,366(2)-4,CL-4,CL-14AR90SS | 2.45 | -4 |
| A1W-350CA-5,366(2)-5,CL-5,CL-13AR90SS | 2.46 | -5 |
| A1W-350CA-6,366(2)-6,CL-6,CL-11AR90SS | 2.48 | -5 |
| A1W-350CA-4,270(2)-4,CL-4,180(5)-14AR90SS | 2.28 | 2 |
| A1W-350CA-5,270(2)-5,CL-5,180(5)-13AR90SS | 2.29 | 1 |
| A1W-350CA-4,270(2)-4,180(4)-4,i89(6)-14AR90SS | 2.25 | 2 |

350 Series Awning Window

| Model Code | U-Value (W/m ² K) | Energy Rating |
|---|------------------------------|---------------|
| A1W-350AW-4,272(2)-4,CL-16AR95EN | 2.66 | -5 |
| A1W-350AW-5,272(2)-5,CL-15AR95EN | 2.65 | -4 |
| A1W-350AW-6,272(2)-6,CL-13AR95EN | 2.64 | -4 |
| A1W-350AW-6,272(2)-4,CL-15AR95EN | 2.65 | -5 |
| A1W-350AW-4,366(2)-4,CL-16AR95EN | 2.63 | -8 |
| A1W-350AW-5,366(2)-5,CL-15AR95EN | 2.62 | -8 |
| A1W-350AW-6,366(2)-6,CL-13AR95EN | 2.62 | -8 |
| A1W-350AW-6,366(2)-4,CL-15AR95EN | 2.62 | -8 |
| A1W-350AW-4,366(2)-4,i89(4)-16AR95EN | 2.49 | -5 |
| A1W-350AW-5,366(2)-5,i89(4)-15AR95EN | 2.49 | -5 |
| A1W-350AW-6,366(2)-6,i89(4)-13AR95EN | 2.48 | -5 |
| A1W-350AW-6,366(2)-4,i89(4)-15AR95EN | 2.49 | -5 |
| A1W-350AW-4,272(2)-4,CL-4,180(5)-15AR95EN | 2.20 | 4 |
| A1W-350AW-5,272(2)-5,CL-5,180(5)-13AR95EN | 2.21 | 4 |
| A1W-350AW-4,CL-4,180(3)-16AR95EN | 2.69 | 3 |
| A1W-350AW-5,CL-5,180(3)-15AR95EN | 2.68 | 2 |
| A1W-350AW-6,CL-6,180(3)-13AR95EN | 2.67 | 2 |
| A1W-350AW-4,272(2)-4,CL-4,CL-15AR95EN | 2.38 | 0 |
| A1W-350AW-5,272(2)-5,CL-5,CL-13AR95EN | 2.39 | 0 |
| A1W-350AW-6,272(2)-6,CL-6,CL-12AR95EN | 2.39 | 0 |
| A1W-350AW-4,366(2)-4,CL-4,CL-15AR95EN | 2.37 | -3 |
| A1W-350AW-5,366(2)-5,CL-5,CL-13AR95EN | 2.37 | -3 |

| Model Code | U-Value (W/m ² K) | Energy Rating |
|---|------------------------------|---------------|
| A1W-350AW-6,366(2)-6,CL-6,CL-12AR95EN | 2.37 | -3 |
| A1W-350AW-4,272(2)-4,180(4)-4,i89(6)-15AR95EN | 2.14 | 5 |
| A1W-350AW-4,CL-4,180(3)-16AR90SS | 2.83 | 0 |
| A1W-350CAW-5,CL-5,180(3)-14AR90SS | 2.82 | 0 |
| A1W-350AW-6,CL-6,180(3)-13AR90SS | 2.81 | -1 |
| A1W-350AW-4,270(2)-4,CL-16AR90SS | 2.80 | -9 |
| A1W-350AW-5,270(2)-5,CL-14AR90SS | 2.79 | -9 |
| A1W-350AW-6,270(2)-6,CL-13AR90SS | 2.78 | -9 |
| A1W-350AW-6,270(2)-4,CL-14AR90SS | 2.78 | -9 |
| A1W-350AW-4,366(2)-4,CL-16AR90SS | 2.78 | -11 |
| A1W-350AW-5,366(2)-5,CL-14AR90SS | 2.77 | -11 |
| A1W-350AW-6,366(2)-6,CL-13AR90SS | 2.76 | -11 |
| A1W-350AW-6,366(2)-4,CL-14AR90SS | 2.77 | -11 |
| A1W-350AW-4,366(2)-4,i89(4)-16AR90SS | 2.70 | -10 |
| A1W-350AW-5,366(2)-5,i89(4)-14AR90SS | 2.69 | -10 |
| A1W-350AW-6,366(2)-6,i89(4)-13AR90SS | 2.68 | -10 |
| A1W-350AW-6,366(2)-4,i89(4)-14AR90SS | 2.69 | -10 |
| A1W-350AW-4,270(2)-4,CL-4,CL-14AR90SS | 2.49 | -3 |
| A1W-350AW-5,270(2)-5,CL-5,CL-13AR90SS | 2.49 | -3 |
| A1W-350AW-6,270(2)-6,CL-6,CL-11AR90SS | 2.51 | -4 |
| A1W-350AW-4,366(2)-4,CL-4,CL-14AR90SS | 2.48 | -5 |
| A1W-350AW-5,366(2)-5,CL-5,CL-13AR90SS | 2.48 | -5 |
| A1W-350AW-6,366(2)-6,CL-6,CL-11AR90SS | 2.50 | -6 |
| A1W-350AW-4,270(2)-4,CL-4,180(5)-14AR90SS | 2.32 | 0 |
| A1W-350AW-5,270(2)-5,CL-5,180(5)-13AR90SS | 2.32 | 0 |
| A1W-350AW-4,270(2)-4,180(4)-4,i89(6)-14AR90SS | 2.29 | 1 |

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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