

## WINDOWS & DOORS LISTING PROGRAM

**Customer:** Top Windows & Glass Ltd.  
**Class:** Fenestration Products – Energy Performance  
**Location:** Richmond, British Columbia  
**Website:** [www.ventanas.ca](http://www.ventanas.ca)

**Listing No.** W580-1  
**Project No.** W580-1 ED1  
**Effective Date:** January 14, 2020  
**Last Revised Date:** January 14, 2020  
**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: W580
- 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:

#### Aluminum Picture Window

Model Code	U-Value (W/m²K)	Energy Rating
TWD-AL-PC-5,Y168(2)-5,Y168(4)-5,CL-12AR90TG	1.18	N/A
TWD-AL-PC-5,Y168(2)-5,Y168(4)-5,CL-12AR90TG-F	1.18	N/A
TWD-AL-PC-6,Y175(2)-6,Y175(4)-6,CL-12AR90TG	1.20	N/A
TWD-AL-PC-6,Y175(2)-6,Y175(4)-6,CL-12AR90TG-F	1.20	N/A
TWD-AL-PC-8,Y148(2)-8,Y148(4)-8,CL-12AR90TG	1.15	N/A

Model Code	U-Value (W/m <sup>2</sup> K)	Energy Rating
TWD-AL-PC-8,Y148(2)-8,Y148(4)-8,CL-12AR90TG-F	1.15	N/A
TWD-AL-PC-5,Y168(2)-5,CL-20AR90TG	1.81	N/A
TWD-AL-PC-5,Y168(2)-5,CL-20AR90TG-F	1.81	N/A
TWD-AL-PC-6,Y175(2)-6,CL-18AR90TG	1.83	N/A
TWD-AL-PC-6,Y175(2)-6,CL-18AR90TG-F	1.83	N/A
TWD-AL-PC-8,Y148(2)-8,CL-15AR90TG	1.73	N/A
TWD-AL-PC-8,Y148(2)-8,CL-15AR90TG-F	1.73	N/A

### Aluminum Tilt & Turn Window

Model Code	U-Value (W/m <sup>2</sup> K)	Energy Rating
TWD-AL-TT-5,Y168(2)-5,Y168(4)-5,CL-12AR90TG	1.42	N/A
TWD-AL-TT-5,Y168(2)-5,Y168(4)-5,CL-12AR90TG-F	1.42	N/A
TWD-AL-TT-6,Y175(2)-6,Y175(4)-6,CL-12AR90TG	1.43	N/A
TWD-AL-TT-6,Y175(2)-6,Y175(4)-6,CL-12AR90TG-F	1.43	N/A
TWD-AL-TT-5,Y168(2)-5,CL-20AR90TG	1.91	N/A
TWD-AL-TT-5,Y168(2)-5,CL-20AR90TG-F	1.91	N/A
TWD-AL-TT-6,Y175(2)-6,CL-18AR90TG	1.92	N/A
TWD-AL-TT-6,Y175(2)-6,CL-18AR90TG-F	1.92	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.

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