

LISTING PROGRAM

Customer: Total Façade Solutions Inc.
 Class: Fenestration
 Location: North Vancouver, BC
 Website: <http://totalfacades.ca/>
 Listing No. W569
 Effective Date: September 26, 2018
 Last Revised Date: February 28, 2019
 Expires: <N/A>

Standards: CSA A440.2-14

Product: Aluminum, Vinyl and Aluminum Clad Wood Fenestration Products

Markings: Products are marked in a permanent manner where it is readily visible after installation with the following:

- a) Manufacturer's name or trademark
- b) QAI file Number: W569-1
- c) The wording "CSA A440.2"
- d) QAI logo shown here:



Models /
 Ratings: Vinyl Picture Window

| Model Code | U-Value (W/m ² K) |
|--|------------------------------|
| TFS-PVCPC-6,6234(2)-14AR90CU-6,CL | 1.46 |
| TFS-PVCPC-6,6234(2)-14KR90CU-6,CL | 1.38 |
| TFS-PVCPC-6,6234(2)-14AR90CU-4,CL-14AR90CU-6,CL | 1.14 |
| TFS-PVCPC-6,6234(2)-14AR90CU-4,CL-14AR90CU-6,CP2T(5) | 0.86 |
| TFS-PVCPC-6,6234(2)-14KR90CU-4,CL-14KR90CU-6,CP2T(5) | 0.81 |
| TFS-PVCPC-6,270(2)-13AR90CU-6,i89(4) | 1.23 |



Vinyl Tilt and Turn Window

| Model Code | U-Value (W/m ² K) |
|--|------------------------------|
| TFS-PVCTT-6,6234(2)-14AR90CU-6,CL | 1.48 |
| TFS-PVCTT-6,6234(2)-14KR90CU-6,CL | 1.41 |
| TFS-PVCTT-6,6234(2)-14AR90CU-4,CL-14AR90CU-6,CL | 1.21 |
| TFS-PVCTT-6,6234(2)-14AR90CU-4,CL-14AR90CU-6,CP2T(5) | 0.98 |
| TFS-PVCTT-6,6234(2)-14KR90CU-4,CL-14KR90CU-6,CP2T(5) | 0.93 |
| TFS-PVCTT-6,270(2)-13AR90CU-6,i89(4) | 1.28 |

Vinyl Patio Door (Folding Door)

| Model Code | U-Value (W/m ² K) |
|--|------------------------------|
| TFS-PVCPD-6,6234(2)-14AR90CU-6,CL | 1.46 |
| TFS-PVCPD-6,6234(2)-14KR90CU-6,CL | 1.40 |
| TFS-PVCPD-6,6234(2)-14AR90CU-4,CL-14AR90CU-6,CL | 1.21 |
| TFS-PVCPD-6,6234(2)-14AR90CU-4,CL-14AR90CU-6,CP2T(5) | 0.99 |
| TFS-PVCPD-6,6234(2)-14KR90CU-4,CL-14KR90CU-6,CP2T(5) | 0.94 |
| TFS-PVCPD-6,270(2)-13AR90CU-6,i89(4) | 1.27 |

Vinyl Lift and Slide Door

| Model Code | U-Value (W/m ² K) |
|--|------------------------------|
| TFS-PVCLS-6,6234(2)-14AR90CU-6,CL | 1.47 |
| TFS-PVCLS-6,6234(2)-14KR90CU-6,CL | 1.41 |
| TFS-PVCLS-6,6234(2)-14AR90CU-4,CL-14AR90CU-6,CL | 1.22 |
| TFS-PVCLS-6,6234(2)-14AR90CU-4,CL-14AR90CU-6,CP2T(5) | 1.01 |
| TFS-PVCLS-6,6234(2)-14KR90CU-4,CL-14KR90CU-6,CP2T(5) | 0.97 |
| TFS-PVCLS-6,270(2)-13AR90CU-6,i89(4) | 1.29 |

Aluminum Picture Window

| Model Code | U-Value (W/m ² K) |
|---|------------------------------|
| TFS-ALPC-6,6234(2)-14AR90CU-4,CL-16AR90CU-6,CL | 1.22 |
| TFS-ALPC-6,6234(2)-14AR90CU-4,CL-16AR90CU-6,CP2T(5) | 0.92 |
| TFS-ALPC-6,CP2T(2)-14AR90CU-4,CL-16AR90CU-6,CP2T(5) | 0.93 |
| TFS-ALPC-6,270(2)-14AR90CU-6,i89(4) | 1.34 |

Aluminum Tilt and Turn Window

| Model Code | U-Value (W/m ² K) |
|---|------------------------------|
| TFS-ALTT-6,6234(2)-14AR90CU-4,CL-16AR90CU-6,CL | 1.41 |
| TFS-ALTT-6,6234(2)-14AR90CU-4,CL-16AR90CU-6,CP2T(5) | 1.15 |
| TFS-ALTT-6,CP2T(2)-14AR90CU-4,CL-16AR90CU-6,CP2T(5) | 1.16 |
| TFS-ALTT-6,270(2)-14AR90CU-6,i89(4) | 1.54 |



I70 Aluminum Smart Line Picture Window

| Model Code | U-Value (W/m ² K) |
|---|------------------------------|
| TFS-I70-PC-6,6234(2)-16AR90CU-6,CL | 1.60 |
| TFS-I70-PC-6,270(2)-16AR90CU-6,i89(4) | 1.38 |
| TFS-I70-PC-6,6234(2)-14AR90CU-4,CL-14AR90CU-6,CL | 1.29 |
| TFS-I70-PC-6,6234(2)-14AR90CU-4,CL-14AR90CU-6,CP2T(5) | 1.00 |

I70 Aluminum Smart Line Tilt and Turn Window

| Model Code | U-Value (W/m ² K) |
|---|------------------------------|
| TFS-I70-TT-6,6234(2)-16AR90CU-6,CL | 1.41 |
| TFS-I70-TT-6,270(2)-16AR90CU-6,i89(4) | 1.15 |
| TFS-I70-TT-6,6234(2)-14AR90CU-4,CL-14AR90CU-6,CL | 1.16 |
| TFS-I70-TT-6,6234(2)-14AR90CU-4,CL-14AR90CU-6,CP2T(5) | 1.54 |

I70 Aluminum Smart Line Side Hinged Door

| Model Code | U-Value (W/m ² K) |
|--|------------------------------|
| TFS-I70-SHD-6,6234(2)-16AR90CU-6,CL | 1.85 |
| TFS-I70-SHD-6,270(2)-16AR90CU-6,i89(4) | 1.66 |
| TFS-I70-SHD-6,6234(2)-14AR90CU-4,CL-14AR90CU-6,CL | 1.60 |
| TFS-I70-SHD-6,6234(2)-14AR90CU-4,CL-14AR90CU-6,CP2T(5) | 1.38 |

US78 Exclusive Series Picture Window

| Model Code | U-Value (W/m ² K) |
|--|------------------------------|
| TFS-US78-PC-6,6234(2)-16AR90CU-6,CL | 1.46 |
| TFS-US78-PC-6,270(2)-16AR90CU-6,i89(4) | 1.24 |
| TFS-US78-PC-6,6234(2)-16AR90CU-6,CL-16AR90CU-6,CL | 1.12 |
| TFS-US78-PC-6,6234(2)-16AR90CU-6,CL-16AR90CU-6,CP2T(5) | 0.85 |

US78 Exclusive Series Tilt and Turn Window

| Model Code | U-Value (W/m ² K) |
|--|------------------------------|
| TFS-US78-TT-6,6234(2)-16AR90CU-6,CL | 1.42 |
| TFS-US78-TT-6,270(2)-16AR90CU-6,i89(4) | 1.23 |
| TFS-US78-TT-6,6234(2)-16AR90CU-6,CL-16AR90CU-6,CL | 1.16 |
| TFS-US78-TT-6,6234(2)-16AR90CU-6,CL-16AR90CU-6,CP2T(5) | 0.91 |



US78 Exclusive Series Side Hinged Door

| Model Code | U-Value (W/m ² K) |
|--|------------------------------|
| TFS-US78-PC-6,6234(2)-16AR90CU-6,CL | 1.41 |
| TFS-US78-PC-6,270(2)-16AR90CU-6,i89(4) | 1.22 |
| TFS-US78-PC-6,6234(2)-16AR90CU-6,CL-16AR90CU-6,CL | 1.18 |
| TFS-US78-PC-6,6234(2)-16AR90CU-6,CL-16AR90CU-6,CP2T(5) | 0.95 |

US78 Exclusive Series Lift and Slide Door

| Model Code | U-Value (W/m ² K) |
|--|------------------------------|
| TFS-HS185-LSD-6,6234(2)-20AR90CU-6,CL | 1.60 |
| TFS-HS185-LSD-6,270(2)-20AR90CU-6,i89(4) | 1.37 |
| TFS-HS185-LSD-6,6234(2)-18AR90CU-4,CL-18AR90CU-6,CL | 1.22 |
| TFS-HS185-LSD-6,6234(2)-18AR90CU-4,CL-18AR90CU-6,CP2T(5) | 0.95 |

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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