

## WINDOWS LISTING PROGRAM

Customer: Window-Pro Designs Ltd.  
 Class: Windows – Energy Performance  
 Location: Mississauga, ON  
 Website: www.windowprocanada.com

Listing No. W510  
 Project No. W510-1 Edition 4

Effective Date: March 14, 2014  
 Last Revised Date: May 25, 2018

Standards: CSA A440.2 Energy Performance of Windows and other Fenestration Systems

Product: Vinyl Windows

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 logo with ‘c’ identifier
- c) QAI file Number: W510-1
- d) The wording “Evaluated for energy performance in accordance with CSA A440.2”
- e) The wording “Évalué pour la performance d’énergie en accord à la norme CSA A440.2”

Models / Ratings:

Casement Window:

Model Code	Window U-Value (W/m2-K)	Energy Rating (ER)
CAS_IS_3mm_Card272#2-Arg90-ClrCard	1.50	22
CAS_IS_4mm_Card272#2-Arg90-ClrCard	1.50	22
CAS_IS_3mm_ClrCard-Arg90-Card180#3	1.54	31
CAS_IS_4mm_ClrCard-Arg90-Card180#3	1.54	31
CAS_IS_3mm_Card272#2-Arg90-ClrCard_Penc	1.50	20
CAS_IS_3mm_Card272#2-Arg90-ClrCard_Rect3/8	1.50	20
CAS_IS_3mm_Card272#2-Arg90-ClrCard_Rect5/8	1.50	20
CAS_IS_3mm_ClrCard-Arg90-Card180#3_Penc	1.54	29
CAS_IS_3mm_ClrCard-Arg90-Card180#3_Rect3/8	1.54	29
CAS_IS_3mm_ClrCard-Arg90-Card180#3_Rect5/8	1.54	29
CAS_IS_3mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard	1.24	27
CAS_IS_4mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard	1.24	27
CAS_IS_3mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard	1.26	34
CAS_IS_4mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard	1.26	34
CAS_IS_4mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard_Penc	1.26	25
CAS_IS_4mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard_Rect3/8	1.26	25
CAS_IS_4mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard_Rect5/8	1.26	25
CAS_IS_4mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard_Penc	1.28	32
CAS_IS_4mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard_Rect3/8	1.28	32
CAS_IS_4mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard_Rect5/8	1.28	32



Casement Window (Continued):

Model Code	Window U-Value (W/m2·K)	Energy Rating (ER)
CAS_IS_3mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard	1.24	36
CAS_IS_3mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard_Grids<1"	1.24	34
CAS_IS_3mm_Card180#2-Arg90-ClrCard-Arg90-Card180#5	1.02	38
CAS_IS_3mm_Card180#2-Arg90-ClrCard-Arg90-Card180#5_Grids<1"	1.02	36
CAS_IS_4mm_Card180#2-Arg90-ClrCard-Arg90-Card180#5	1.07	36
CAS_IS_4mm_Card180#2-Arg90-ClrCard-Arg90-Card180#5_Penc	1.07	35
CAS_IS_4mm_Card180#2-Arg90-ClrCard-Arg90-Card180#5_Rect3/8	1.08	34
CAS_IS_4mm_Card180#2-Arg90-ClrCard-Arg90-Card180#5_Rect5/8	1.08	34
CAS_IS_3mm_Card180#2-Arg90-Card180#4-Arg90-i89#6	0.95	39
CAS_IS_3mm_Card180#2-Arg90-Card180#4-Arg90-i89#6_Grids<1"	0.95	39
CAS_IS_4mm_Card180#2-Arg90-Card180#4-Arg90-i89#6	0.99	37
CAS_IS_4mm_Card180#2-Arg90-Card180#4-Arg90-i89#6_Penc	0.99	35
CAS_IS_4mm_Card180#2-Arg90-Card180#4-Arg90-i89#6_Rect3/8	1.00	35
CAS_IS_4mm_Card180#2-Arg90-Card180#4-Arg90-i89#6_Rect5/8	1.00	35

Awning Window:

Model Code	Window U-Value (W/m2·K)	Energy Rating (ER)
AWN_IS_3mm_Card272#2-Arg90-ClrCard	1.52	21
AWN_IS_4mm_Card272#2-Arg90-ClrCard	1.52	21
AWN_IS_3mm_ClrCard-Arg90-Card180#3	1.55	30
AWN_IS_4mm_ClrCard-Arg90-Card180#3	1.55	30
AWN_IS_3mm_Card272#2-Arg90-ClrCard_Penc	1.52	20
AWN_IS_3mm_Card272#2-Arg90-ClrCard_Rect3/8	1.52	20
AWN_IS_3mm_Card272#2-Arg90-ClrCard_Rect5/8	1.52	20
AWN_IS_3mm_ClrCard-Arg90-Card180#3_Penc	1.55	28
AWN_IS_3mm_ClrCard-Arg90-Card180#3_Rect3/8	1.55	28
AWN_IS_3mm_ClrCard-Arg90-Card180#3_Rect5/8	1.55	28
AWN_IS_3mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard	1.25	28
AWN_IS_4mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard	1.25	28
AWN_IS_3mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard	1.26	34
AWN_IS_4mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard	1.27	34
AWN_IS_4mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard_Penc	1.26	24
AWN_IS_4mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard_Rect3/8	1.26	24
AWN_IS_4mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard_Rect5/8	1.26	24
AWN_IS_4mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard_Penc	1.28	32
AWN_IS_4mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard_Rect3/8	1.28	32
AWN_IS_4mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard_Rect5/8	1.28	32
AWN_ED_3mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard	1.23	36
AWN_ED_3mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard_Grids<1"	1.23	33
AWN_ED_3mm_Card180#2-Arg90-ClrCard-Arg90-Card180#5	1.01	38
AWN_ED_3mm_Card180#2-Arg90-ClrCard-Arg90-Card180#5_Grids<1"	1.01	36
AWN_ED_4mm_Card180#2-Arg90-ClrCard-Arg90-Card180#5	1.04	36
AWN_ED_4mm_Card180#2-Arg90-ClrCard-Arg90-Card180#5_Penc	1.04	35
AWN_ED_4mm_Card180#2-Arg90-ClrCard-Arg90-Card180#5_Rect3/8	1.05	35
AWN_ED_4mm_Card180#2-Arg90-ClrCard-Arg90-Card180#5_Rect5/8	1.05	35



Low Fixed Window:

Model Code	Window U-Value (W/m <sup>2</sup> ·K)	Energy Rating (ER)
LF_IS_3mm_Card272#2-Arg90-ClrCard	1.53	27
LF_IS_4mm_Card272#2-Arg90-ClrCard	1.53	27
LF_IS_3mm_ClrCard-Arg90-Card180#3	1.58	39
LF_IS_4mm_ClrCard-Arg90-Card180#3	1.58	39
LF_IS_3mm_Card272#2-Arg90-ClrCard_Penc	1.53	25
LF_IS_3mm_Card272#2-Arg90-ClrCard_Rect3/8	1.53	25
LF_IS_3mm_Card272#2-Arg90-ClrCard_Rect5/8	1.53	25
LF_IS_3mm_ClrCard-Arg90-Card180#3_Penc	1.58	36
LF_IS_3mm_ClrCard-Arg90-Card180#3_Rect3/8	1.58	36
LF_IS_3mm_ClrCard-Arg90-Card180#3_Rect5/8	1.58	36
LF_ED_3MM_CLRCARD-ARG90-CARD180#3	1.56	40
LF_IS_3mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard	1.20	32
LF_IS_4mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard	1.20	32
LF_IS_3mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard	1.23	43
LF_IS_4mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard	1.23	43
LF_IS_4mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard_Penc	1.23	30
LF_IS_4mm_Card272#2-Arg90-ClrCard-Arg90ClrCard_Rect3/8	1.23	30
LF_IS_4mm_Card272#2- Arg90-ClrCard-Arg90ClrCard_Rect5/8	1.23	30
LF_IS_4mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard_Penc	1.26	40
LF_IS_4mm_ClrCard-Arg90-Card180#3-Arg90ClrCard_Rect3/8	1.26	40
LF_IS_4mm_ClrCard-Arg90-Card180#3 Arg90-ClrCard Rect5/8	1.26	40
LF_ED_3MM_CLRCARD-ARG90-CARD180#3-ARG90-CLRCARD	1.20	45
LF_ED_3MM_CLRCARD-ARG90-CARD180#3-ARG90-CLRCARD_GRIDS<1	1.20	42
LF_ED_3MM_180#2-ARG90-CLRCARD-ARG90-CARD180#5	0.91	48
LF_ED_3MM_180#2-ARG90-CLRCARD-ARG90-CARD180#5_GRIDS<1	0.91	45
LF_ED_4MM_180#2-ARG90-CLRCARD-ARG90-CARD180#5	0.95	46
LF_ED_4MM_180#2-ARG90-CLRCARD-ARG90-CARD180#5_PENC	0.95	43
LF_ED_4MM_180#2-ARG90-CLRCARD-ARG90-CARD180#5_RECT3/8	0.96	43
LF_ED_4MM_180#2-ARG90-CLRCARD-ARG90-CARD180#5_RECT5/8	0.96	43

High Fixed Window:

Model Code	Window U-Value (W/m <sup>2</sup> ·K)	Energy Rating (ER)
HF_IS_3mm_Card272#2-Arg90-ClrCard	1.48	26
HF_IS_4mm_Card272#2-Arg90-ClrCard	1.48	26
HF_IS_3mm_ClrCard-Arg90-Card180#3	1.52	37
HF_IS_4mm_ClrCard-Arg90-Card180#3	1.52	37
HF_IS_3mm_Card272#2-Arg90-ClrCard_Penc	1.48	24
HF_IS_3mm_Card272#2-Arg90-ClrCard_Rect3/8	1.48	24
HF_IS_3mm_Card272#2-Arg90-ClrCard_Rect5/8	1.48	24
HF_IS_3mm_ClrCard-Arg90-Card180#3_Penc	1.52	34
HF_IS_3mm_ClrCard-Arg90-Card180#3_Rect3/8	1.52	34
HF_IS_3mm_ClrCard-Arg90-Card180#3_Rect5/8	1.52	34
HF_IS_3mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard	1.20	30
HF_IS_4mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard	1.20	30
HF_IS_3mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard	1.22	40
HF_IS_4mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard	1.22	40
HF_IS_4mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard_Penc	1.23	28
HF_IS_4mm_Card272#2-Arg90-ClrCard-Arg90ClrCard_Rect3/8	1.23	28
HF_IS_4mm_Card272#2- Arg90-ClrCard-Arg90ClrCard_Rect5/8	1.23	28
HF_IS_4mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard_Penc	1.25	37
HF_IS_4mm_ClrCard-Arg90-Card180#3-Arg90ClrCard_Rect3/8	1.25	37
HF_IS_4mm_ClrCard-Arg90-Card180#3 Arg90-ClrCard Rect5/8	1.25	37



High Fixed Window (Continued):

Model Code	Window U-Value (W/m2.K)	Energy Rating (ER)
HF_ED_3MM_CLRCARD-ARG90-CARD180#3-ARG90-CLRCARD	1.20	41
HF_ED_3MM_CLRCARD-ARG90-CARD180#3-ARG90-CLRCARD_GRIDS<1	1.20	39
HF_ED_3MM_180#2-ARG90-CLRCARD-ARG90-CARD180#5	0.94	44
HF_ED_3MM_180#2-ARG90-CLRCARD-ARG90-CARD180#5_GRIDS<1	0.94	42
HF_ED_4MM_180#2-ARG90-CLRCARD-ARG90-CARD180#5	0.97	43
HF_ED_4MM_180#2-ARG90-CLRCARD-ARG90-CARD180#5_PENC	0.97	40
HF_ED_4MM_180#2-ARG90-CLRCARD-ARG90-CARD180#5_RECT3/8	0.99	40
HF_ED_4MM_180#2-ARG90-CLRCARD-ARG90-CARD180#5_RECT5/8	0.99	40

Single Slider Lift Out Window:

Model Code	Window U-Value (W/m2.K)	Energy Rating (ER)
SSLO_IS_3mm_Card272#2-Arg90-ClrCard	1.66	21
SSLO_IS_3mm_ClrCard-Arg90-Card180#3	1.70	32
SSLO_IS_3mm_Card272#2-Arg90-ClrCard_Penc	1.66	18
SSLO_IS_3mm_Card272#2-Arg90-ClrCard_Rect3/8	1.66	18
SSLO_IS_3mm_Card272#2-Arg90-ClrCard_Rect5/8	1.66	18
SSLO_IS_3mm_ClrCard-Arg90-Card180#3_Penc	1.70	29
SSLO_IS_3mm_ClrCard-Arg90-Card180#3_Rect3/8	1.70	29
SSLO_IS_3mm_ClrCard-Arg90-Card180#3_Rect5/8	1.70	29
SSLO_ED_3MM_CARD180#2-ARG90-i89#4	1.42	35
SSLO_ED_3MM_CARD180#2-ARG90-i89#4_GRIDS<1	1.42	32
SSLO_ED_4MM_CARD180#2-ARG90-i89#4	1.41	34
SSLO_ED_4MM_CARD180#2-ARG90-i89#4_GRIDS<1	1.41	31
SSLO_IS_3mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard	1.63	20
SSLO_IS_3mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard	1.65	30

Single Slider Tilt Window:

Model Code	Window U-Value (W/m2.K)	Energy Rating (ER)
SST_IS_3mm_Card272#2-Arg90-ClrCard	1.67	21
SST_IS_3mm_ClrCard-Arg90-Card180#3	1.71	32
SST_IS_3mm_Card272#2-Arg90-ClrCard_Penc	1.67	19
SST_IS_3mm_Card272#2-Arg90-ClrCard_Rect3/8	1.67	19
SST_IS_3mm_Card272#2-Arg90-ClrCard_Rect5/8	1.67	19
SST_IS_3mm_ClrCard-Arg90-Card180#3_Penc	1.71	29
SST_IS_3mm_ClrCard-Arg90-Card180#3_Rect3/8	1.71	29
SST_IS_3mm_ClrCard-Arg90-Card180#3_Rect5/8	1.71	29
SST_ED_3MM_CARD180#2-ARG90-i89#4	1.43	35
SST_ED_3MM_CARD180#2-ARG90-i89#4_GRIDS<1	1.43	32
SST_ED_4MM_CARD180#2-ARG90-i89#4	1.41	35
SST_ED_4MM_CARD180#2-ARG90-i89#4_GRIDS<1	1.41	32
SST_IS_3mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard	1.63	20
SST_IS_3mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard	1.65	31



### Single Hung Tilt Window:

Model Code	Window U-Value (W/m2-K)	Energy Rating (ER)
SHT_IS_3mm_Card272#2-Arg90-ClrCard	1.66	22
SHT_IS_3mm_ClrCard-Arg90-Card180#3	1.70	33
SHT_IS_3mm_Card272#2-Arg90-ClrCard_Penc	1.66	19
SHT_IS_3mm_Card272#2-Arg90-ClrCard_Rect3/8	1.66	19
SHT_IS_3mm_Card272#2-Arg90-ClrCard_Rect5/8	1.66	19
SHT_IS_3mm_ClrCard-Arg90-Card180#3_Penc	1.70	30
SHT_IS_3mm_ClrCard-Arg90-Card180#3_Rect3/8	1.70	30
SHT_IS_3mm_ClrCard-Arg90-Card180#3_Rect5/8	1.70	30
SHT_ED_3MM_CARD180#2-ARG90-i89#4	1.41	36
SHT_ED_3MM_CARD180#2-ARG90-i89#4_GRIDS<1	1.41	33
SHT_ED_4MM_CARD180#2-ARG90-i89#4	1.40	36
SHT_ED_4MM_CARD180#2-ARG90-i89#4_GRIDS<1	1.40	33
SHT_IS_3mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard	1.63	21
SHT_IS_3mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard	1.65	31

### Double Hung Tilt Window:

Model Code	Window U-Value (W/m2-K)	Energy Rating (ER)
DHT_IS_3mm_Card272#2-Arg90-ClrCard	1.65	21
DHT_IS_3mm_ClrCard-Arg90-Card180#3	1.69	32
DHT_IS_3mm_Card272#2-Arg90-ClrCard_Penc	1.65	19
DHT_IS_3mm_Card272#2-Arg90-ClrCard_Rect3/8	1.65	19
DHT_IS_3mm_Card272#2-Arg90-ClrCard_Rect5/8	1.65	19
DHT_IS_3mm_ClrCard-Arg90-Card180#3_Penc	1.70	28
DHT_IS_3mm_ClrCard-Arg90-Card180#3_Rect3/8	1.70	28
DHT_IS_3mm_ClrCard-Arg90-Card180#3_Rect5/8	1.70	28
DHT_ED_3MM_CARD180#2-ARG90-i89#4	1.42	35
DHT_ED_3MM_CARD180#2-ARG90-i89#4_GRIDS<1	1.42	32
DHT_ED_4MM_CARD180#2-ARG90-i89#4	1.41	35
DHT_ED_4MM_CARD180#2-ARG90-i89#4_GRIDS<1	1.41	32
DHT_IS_3mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard	1.63	20
DHT_IS_3mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard	1.65	30

### Double Slider Tilt Window:

Model Code	Window U-Value (W/m2-K)	Energy Rating (ER)
DST_IS_3mm_Card272#2-Arg90-ClrCard	1.65	19
DST_IS_3mm_ClrCard-Arg90-Card180#3	1.69	30
DST_IS_3mm_Card272#2-Arg90-ClrCard_Penc	1.65	17
DST_IS_3mm_Card272#2-Arg90-ClrCard_Rect3/8	1.65	17
DST_IS_3mm_Card272#2-Arg90-ClrCard_Rect5/8	1.65	17
DST_IS_3mm_ClrCard-Arg90-Card180#3_Penc	1.69	27
DST_IS_3mm_ClrCard-Arg90-Card180#3_Rect3/8	1.69	27
DST_IS_3mm_ClrCard-Arg90-Card180#3_Rect5/8	1.69	27
DST_ED_3MM_CARD180#2-ARG90-i89#4	1.42	33
DST_ED_3MM_CARD180#2-ARG90-i89#4_GRIDS<1	1.42	30
DST_ED_4MM_CARD180#2-ARG90-i89#4	1.40	33
DST_ED_4MM_CARD180#2-ARG90-i89#4_GRIDS<1	1.40	30
DST_IS_3mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard	1.62	19
DST_IS_3mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard	1.64	28



Double Slider Lift Out Window:

Model Code	Window U-Value (W/m2.K)	Energy Rating (ER)
DSLO_IS_3mm_Card272#2-Arg90-ClrCard	1.65	20
DSLO_IS_3mm_ClrCard-Arg90-Card180#3	1.69	31
DSLO_IS_3mm_Card272#2-Arg90-ClrCard_Penc	1.65	18
DSLO_IS_3mm_Card272#2-Arg90-ClrCard_Rect3/8	1.65	18
DSLO_IS_3mm_Card272#2-Arg90-ClrCard_Rect5/8	1.65	18
DSLO_IS_3mm_ClrCard-Arg90-Card180#3_Penc	1.69	28
DSLO_IS_3mm_ClrCard-Arg90-Card180#3_Rect3/8	1.69	28
DSLO_IS_3mm_ClrCard-Arg90-Card180#3_Rect5/8	1.69	28
DSLO_ED_3MM_CARD180#2-ARG90-i89#4	1.42	34
DSLO_ED_3MM_CARD180#2-ARG90-i89#4_GRID5<1	1.42	31
DSLO_ED_4MM_CARD180#2-ARG90-i89#4	1.40	34
DSLO_ED_4MM_CARD180#2-ARG90-i89#4_GRID5<1	1.40	31
DSLO_IS_3mm_Card272#2-Arg90-ClrCard-Arg90-ClrCard	1.62	19
DSLO_IS_3mm_ClrCard-Arg90-Card180#3-Arg90-ClrCard	1.64	29

Notes: Listed products meet the energy requirements of the standards listed above. 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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