

## WINDOWS LISTING PROGRAM

Customer: Trimbo Window Manufacturing Inc.  
 Class: Windows – Energy Performance  
 Location: Woodbridge, ON  
 Website: www.trimbowindow.com

Listing No. W548  
 Project No. W548-1 Edition 1

Effective Date: April 25, 2017  
 Last Revised Date: April 25, 2017

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: W548-1
- 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: 2200 Series Vinyl Casement Window

Glass Option	Model Code	Window U-Value (W/m <sup>2</sup> K)	Energy Rating (ER)
1	TWM-VCW-CAS-3,CCL-13,Ar-3,180(3)	1.53	32
2	TWM-VCW-CAS-4,CCL-11,Ar-4,180(3)	1.53	31
3	TWM-VCW-CAS-3,CCL-13,Ar-3,180(3)-SDL≥1”	1.53	27
4	TWM-VCW-CAS-4,CCL-11,Ar-4,180(3)-SDL≥1”	1.53	27
5	TWM-VCW-CAS-3,CCL-13,Ar-3,180(3)-Grids<1”	1.53	29
6	TWM-VCW-CAS-3,CCL-13,Ar-3,180(3)-Grids≥1”	1.53	27
7	TWM-VCW-CAS-3,CCL-13,Ar-3,180(3)-AM CMB 8x25	1.59	28
8	TWM-VCW-CAS-4,CCL-11,Ar-4,180(3)-AM CMB 8x25	1.62	26
9	TWM-VCW-CAS-4,CCL-11,Ar-4,180(3)-RPM MB 1-4x1	1.60	25



# LABORATORIES

CERTIFICATION TESTING INSPECTION

VANCOUVER, BC: 877.461.8378 ph. | 604.527.8368 fx.  
 LOS ANGELES, CA: 909.483.0250 ph. | 909.483.0336 fx.  
 WASHINGTON, DC: 540.636.9445 ph. | 540.636.9414 fx.  
 TULSA, OK: 918.437.8333 ph. | 918.437.8487 fx.  
 TORONTO, ON: 416.550.9280  
 SEATTLE, WA: 425.512.8419  
 WEBSITE: WWW.QAI.ORG

10	TWM-VCW-CAS-3,366(2)-13,Ar-3,CCL	1.46	18
11	TWM-VCW-CAS-4,366(2)-11,Ar-4,CCL	1.46	18
12	TWM-VCW-CAS-3,366(2)-13,Ar-3,CCL-SDL≥1”	1.46	16
13	TWM-VCW-CAS-4,366(2)-11,Ar-4,CCL-SDL≥1”	1.46	16
14	TWM-VCW-CAS-3,366(2)-13,Ar-3,CCL-Grids<1”	1.46	17
15	TWM-VCW-CAS-3,366(2)-13,Ar-3,CCL-Grids≥1”	1.46	16
16	TWM-VCW-CAS-3,366(2)-13,Ar-3,CCL-AM CMB 8x25	1.54	16
17	TWM-VCW-CAS-4,366(2)-11,Ar-4,CCL-AM CMB 8x25	1.57	15
18	TWM-VCW-CAS-4,366(2)-11,Ar-4,CCL-RPM MB 1-4x1	1.54	14
19	TWM-VCW-CAS-4,180(2)-11,Ar-4,CCL-11,Ar-4,180(5)	1.07	36
20	TWM-VCW-CAS-3,180(2)-13,Ar-3,CCL-13,Ar-3,180(5)	1.07	37
21	TWM-VCW-CAS-4,180(2)-11,Ar-4,CCL-11,Ar-4,180(5)-SDL≥1”	1.07	33
22	TWM-VCW-CAS-3,180(2)-13,Ar-3,CCL-13,Ar-3,180(5)-SDL≥1”	1.07	33
23	TWM-VCW-CAS-4,180(2)-11,Ar-4,CCL-11,Ar-4,180(5)-AM CMB 8x25	1.09	34
24	TWM-VCW-CAS-3,180(2)-13,Ar-3,CCL-13,Ar-3,180(5)-AM CMB 8x25	1.09	35
25	TWM-VCW-CAS-4,180(2)-11,Ar-4,CCL-11,Ar-4,180(5)-RPM MB 1-4x1	1.09	32
26	TWM-VCW-CAS-3,180(2)-13,Ar-3,CCL-13,Ar-3,180(5)-RPM MB 1-4x1	1.09	33
27	TWM-VCW-CAS-4,366(2)-11,Ar-4,366(4)-11,Ar-4,CCL	1.03	25
28	TWM-VCW-CAS-3,366(2)-13,Ar-3,366(4)-13,Ar-3,CCL	1.03	25
29	TWM-VCW-CAS-4,366(2)-11,Ar-4,366(4)-11,Ar-4,CCL-SDL≥1”	1.03	24
30	TWM-VCW-CAS-3,366(2)-13,Ar-3,366(4)-13,Ar-3,CCL-SDL≥1”	1.03	24
31	TWM-VCW-CAS-4,366(2)-11,Ar-4,366(4)-11,Ar-4,CCL-AM CMB 8x25	1.05	24
32	TWM-VCW-CAS-3,366(2)-13,Ar-3,366(4)-13,Ar-3,CCL-AM CMB 8x25	1.05	24
33	TWM-VCW-CAS-4,366(2)-11,Ar-4,366(4)-11,Ar-4,CCL-RPM MB 1-4x1	1.04	24
34	TWM-VCW-CAS-3,366(2)-13,Ar-3,366(4)-13,Ar-3,CCL-RPM MB 1-4x1	1.04	24

2300 Series Vinyl Awning Window

Glass Option	Model Code	Window U-Value (W/m <sup>2</sup> K)	Energy Rating (ER)
1	TWM-VAW-AWN-3,CCL-13,Ar-3,180(3)	1.54	32
2	TWM-VAW-AWN-4,CCL-11,Ar-4,180(3)	1.54	31
3	TWM-VAW-AWN-3,CCL-13,Ar-3,180(3)-SDL≥1"	1.54	27
4	TWM-VAW-AWN-4,CCL-11,Ar-4,180(3)-SDL≥1"	1.54	27
5	TWM-VAW-AWN-3,CCL-13,Ar-3,180(3)-Grids<1"	1.54	29
6	TWM-VAW-AWN-3,CCL-13,Ar-3,180(3)-Grids≥1"	1.54	27
7	TWM-VAW-AWN-3,CCL-13,Ar-3,180(3)-AM CMB 8x25	1.59	28
8	TWM-VAW-AWN-4,CCL-11,Ar-4,180(3)-AM CMB 8x25	1.62	27
9	TWM-VAW-AWN-4,CCL-11,Ar-4,180(3)-RPM MB 1-4x1	1.60	26
10	TWM-VAW-AWN-3,366(2)-13,Ar-3,CCL	1.48	18
11	TWM-VAW-AWN-4,366(2)-11,Ar-4,CCL	1.48	18
12	TWM-VAW-AWN-3,366(2)-13,Ar-3,CCL-SDL≥1"	1.48	16
13	TWM-VAW-AWN-4,366(2)-11,Ar-4,CCL-SDL≥1"	1.48	16
14	TWM-VAW-AWN-3,366(2)-13,Ar-3,CCL-Grids<1"	1.48	17
15	TWM-VAW-AWN-3,366(2)-13,Ar-3,CCL-Grids≥1"	1.48	16
16	TWM-VAW-AWN-3,366(2)-13,Ar-3,CCL-AM CMB 8x25	1.54	16
17	TWM-VAW-AWN-4,366(2)-11,Ar-4,CCL-AM CMB 8x25	1.56	15
18	TWM-VAW-AWN-4,366(2)-11,Ar-4,CCL-RPM MB 1-4x1	1.54	15
19	TWM-VAW-AWN-4,180(2)-11,Ar-4,CCL-11,Ar-4,180(5)	1.08	36
20	TWM-VAW-AWN-3,180(2)-13,Ar-3,CCL-13,Ar-3,180(5)	1.08	38
21	TWM-VAW-AWN-4,180(2)-11,Ar-4,CCL-11,Ar-4,180(5)-SDL≥1"	1.08	33
22	TWM-VAW-AWN-3,180(2)-13,Ar-3,CCL-13,Ar-3,180(5)-SDL≥1"	1.08	33
23	TWM-VAW-AWN-4,180(2)-11,Ar-4,CCL-11,Ar-4,180(5)-AM CMB 8x25	1.09	34
24	TWM-VAW-AWN-3,180(2)-13,Ar-3,CCL-13,Ar-3,180(5)-AM CMB 8x25	1.09	35
25	TWM-VAW-AWN-4,180(2)-11,Ar-4,CCL-11,Ar-4,180(5)-RPM MB 1-4x1	1.08	33



# LABORATORIES

CERTIFICATION TESTING INSPECTION

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TORONTO, ON: 416.550.9280  
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WEBSITE: WWW.QAI.ORG

26	TWM-VAW-AWN-3,180(2)-13,Ar-3,CCL-13,Ar-3,180(5)-RPM MB 1-4x1	1.08	33
27	TWM-VAW-AWN-4,366(2)-11,Ar-4,366(4)-11,Ar-4,CCL	1.03	25
28	TWM-VAW-AWN-3,366(2)-13,Ar-3,366(4)-13,Ar-3,CCL	1.03	25
29	TWM-VAW-AWN-4,366(2)-11,Ar-4,366(4)-11,Ar-4,CCL-SDL $\geq$ 1"	1.03	24
30	TWM-VAW-AWN-3,366(2)-13,Ar-3,366(4)-13,Ar-3,CCL-SDL $\geq$ 1"	1.03	24
31	TWM-VAW-AWN-4,366(2)-11,Ar-4,366(4)-11,Ar-4,CCL-AM CMB 8x25	1.04	25
32	TWM-VAW-AWN-3,366(2)-13,Ar-3,366(4)-13,Ar-3,CCL-AM CMB 8x25	1.04	25
33	TWM-VAW-AWN-4,366(2)-11,Ar-4,366(4)-11,Ar-4,CCL-RPM MB 1-4x1	1.04	24
34	TWM-VAW-AWN-3,366(2)-13,Ar-3,366(4)-13,Ar-3,CCL-RPM MB 1-4x1	1.04	24



## 2500 Series Vinyl High Fixed Window

Glass Option	Model Code	Window U-Value (W/m <sup>2</sup> K)	Energy Rating (ER)
1	TWM-VHFW-FIX-3,CCL-13,Ar-3,180(3)	1.53	37
2	TWM-VHFW-FIX-4,CCL-11,Ar-4,180(3)	1.53	36
3	TWM-VHFW-FIX-3,CCL-13,Ar-3,180(3)-Grids<1"	1.53	34
4	TWM-VHFW-FIX-3,CCL-13,Ar-3,180(3)-Grids≥1"	1.53	31
5	TWM-VHFW-FIX-3,CCL-13,Ar-3,180(3)-SDL≥1"	1.53	31
6	TWM-VHFW-FIX-4,CCL-11,Ar-4,180(3)-SDL≥1"	1.53	30
7	TWM-VHFW-FIX-3,CCL-13,Ar-3,180(3)-AM CMB 8x25	1.62	32
8	TWM-VHFW-FIX-4,CCL-11,Ar-4,180(3)-AM CMB 8x25	1.66	30
9	TWM-VHFW-FIX-4,CCL-11,Ar-4,180(3)-RPM MB 1-4x1	1.63	28
10	TWM-VHFW-FIX-5,CCL-9,Ar-5,180(3)	1.64	34
11	TWM-VHFW-FIX-5,CCL-9,Ar-5,180(3)-SDL≥1"	1.64	27
12	TWM-VHFW-FIX-5,CCL-9,Ar-5,180(3)-AM CMB 8x25	1.95	23
13	TWM-VHFW-FIX-5,CCL-9,Ar-5,180(3)-RPM MB 1-4x1	1.82	23
14	TWM-VHFW-FIX-6,CCL-7,Ar-6,180(3)	1.78	29
15	TWM-VHFW-FIX-6,CCL-7,Ar-6,180(3)-SDL≥1"	1.78	24
16	TWM-VHFW-FIX-6,CCL-7,Ar-6,180(3)-AM CMB 8x25	1.97	22
17	TWM-VHFW-FIX-6,CCL-7,Ar-6,180(3)-RPM MB 1-4x1	2.11	16
18	TWM-VHFW-FIX-3,366(2)-13,Ar-3,CCL	1.45	20
19	TWM-VHFW-FIX-4,366(2)-11,Ar-4,CCL	1.45	20
20	TWM-VHFW-FIX-3,366(2)-13,Ar-3,CCL-Grids<1"	1.45	19
21	TWM-VHFW-FIX-3,366(2)-13,Ar-3,CCL-Grids≥1"	1.45	18
22	TWM-VHFW-FIX-3,366(2)-13,Ar-3,CCL-SDL≥1"	1.45	18
23	TWM-VHFW-FIX-4,366(2)-11,Ar-4,CCL-SDL≥1"	1.45	18
24	TWM-VHFW-FIX-3,366(2)-13,Ar-3,CCL-AM CMB 8x25	1.55	17
25	TWM-VHFW-FIX-4,366(2)-11,Ar-4,CCL-AM CMB 8x25	1.59	16



# LABORATORIES

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26	TWM-VHFW-FIX-4,366(2)-11,Ar-4,CCL-RPM MB 1-4x1	1.56	16
27	TWM-VHFW-FIX-5,366(2)-9,Ar-5,CCL	1.56	19
28	TWM-VHFW-FIX-5,366(2)-9,Ar-5,CCL-SDL≥1"	1.56	16
29	TWM-VHFW-FIX-5,366(2)-9,Ar-5,CCL-AM CMB 8x25	1.88	10
30	TWM-VHFW-FIX-5,366(2)-9,Ar-5,CCL-RPM MB 1-4x1	1.76	12
31	TWM-VHFW-FIX-6,366(2)-7,Ar-6,CCL	1.71	15
32	TWM-VHFW-FIX-6,366(2)-7,Ar-6,CCL-SDL≥1"	1.71	13
33	TWM-VHFW-FIX-6,366(2)-7,Ar-6,CCL-AM CMB 8x25	1.92	10
34	TWM-VHFW-FIX-6,366(2)-7,Ar-6,CCL-RPM MB 1-4x1	2.06	5
35	TWM-VHFW-FIX-4,180(2)-11,Ar-4,CCL-11,Ar-4,180(5)	1.00	42
36	TWM-VHFW-FIX-3,180(2)-13,Ar-3,CCL-13,Ar-3,180(5)	1.00	43
37	TWM-VHFW-FIX-4,180(2)-11,Ar-4,CCL-11,Ar-4,180(5)-SDL≥1"	1.00	38
38	TWM-VHFW-FIX-3,180(2)-13,Ar-3,CCL-13,Ar-3,180(5)-SDL≥1"	1.00	38
39	TWM-VHFW-FIX-4,180(2)-11,Ar-4,CCL-11,Ar-4,180(5)-AM CMB 8x25	1.03	39
40	TWM-VHFW-FIX-3,180(2)-13,Ar-3,CCL-13,Ar-3,180(5)-AM CMB 8x25	1.03	40
41	TWM-VHFW-FIX-4,180(2)-11,Ar-4,CCL-11,Ar-4,180(5)-RPM MB 1-4x1	1.02	37
42	TWM-VHFW-FIX-3,180(2)-13,Ar-3,CCL-13,Ar-3,180(5)-RPM MB 1-4x1	1.02	38
43	TWM-VHFW-FIX-4,366(2)-11,Ar-4,366(4)-11,Ar-4,CCL	0.94	29
44	TWM-VHFW-FIX-3,366(2)-13,Ar-3,366(4)-13,Ar-3,CCL	0.94	29
45	TWM-VHFW-FIX-4,366(2)-11,Ar-4,366(4)-11,Ar-4,CCL-SDL≥1"	0.94	28
46	TWM-VHFW-FIX-3,366(2)-13,Ar-3,366(4)-13,Ar-3,CCL-SDL≥1"	0.94	28
47	TWM-VHFW-FIX-4,366(2)-11,Ar-4,366(4)-11,Ar-4,CCL-AM CMB 8x25	0.97	27
48	TWM-VHFW-FIX-3,366(2)-13,Ar-3,366(4)-13,Ar-3,CCL-AM CMB 8x25	0.97	27
49	TWM-VHFW-FIX-4,366(2)-11,Ar-4,366(4)-11,Ar-4,CCL-RPM MB 1-4x1	0.96	27
50	TWM-VHFW-FIX-3,366(2)-13,Ar-3,366(4)-13,Ar-3,CCL-RPM MB 1-4x1	0.96	27

2600 Series Vinyl Low Fixed Window

Glass Option	Model Code	Window U-Value (W/m <sup>2</sup> K)	Energy Rating (ER)
1	TWM-VLFW-FIX-3,CCL-13,Ar-3,180(3)	1.56	40
2	TWM-VLFW-FIX-4,CCL-11,Ar-4,180(3)	1.56	39
3	TWM-VLFW-FIX-3,CCL-13,Ar-3,180(3)-Grids<1"	1.56	37
4	TWM-VLFW-FIX-3,CCL-13,Ar-3,180(3)-Grids≥1"	1.56	34
5	TWM-VLFW-FIX-3,CCL-13,Ar-3,180(3)-SDL≥1"	1.56	34
6	TWM-VLFW-FIX-4,CCL-11,Ar-4,180(3)-SDL≥1"	1.56	33
7	TWM-VLFW-FIX-3,CCL-13,Ar-3,180(3)-AM CMB 8x25	1.66	35
8	TWM-VLFW-FIX-4,CCL-11,Ar-4,180(3)-AM CMB 8x25	1.70	33
9	TWM-VLFW-FIX-4,CCL-11,Ar-4,180(3)-RPM MB 1-4x1	1.67	31
10	TWM-VLFW-FIX-5,CCL-9,Ar-5,180(3)	1.69	36
11	TWM-VLFW-FIX-5,CCL-9,Ar-5,180(3)-SDL≥1"	1.69	30
12	TWM-VLFW-FIX-5,CCL-9,Ar-5,180(3)-AM CMB 8x25	2.02	25
13	TWM-VLFW-FIX-5,CCL-9,Ar-5,180(3)-RPM MB 1-4x1	1.89	25
14	TWM-VLFW-FIX-6,CCL-7,Ar-6,180(3)	1.84	31
15	TWM-VLFW-FIX-6,CCL-7,Ar-6,180(3)-SDL≥1"	1.84	26
16	TWM-VLFW-FIX-6,CCL-7,Ar-6,180(3)-AM CMB 8x25	2.06	24
17	TWM-VLFW-FIX-6,CCL-7,Ar-6,180(3)-RPM MB 1-4x1	2.20	18
18	TWM-VLFW-FIX-3,366(2)-13,Ar-3,CCL	1.48	21
19	TWM-VLFW-FIX-4,366(2)-11,Ar-4,CCL	1.48	21
20	TWM-VLFW-FIX-3,366(2)-13,Ar-3,CCL-Grids<1"	1.48	20
21	TWM-VLFW-FIX-3,366(2)-13,Ar-3,CCL-Grids≥1"	1.48	19
22	TWM-VLFW-FIX-3,366(2)-13,Ar-3,CCL-SDL≥1"	1.48	19
23	TWM-VLFW-FIX-4,366(2)-11,Ar-4,CCL-SDL≥1"	1.48	19
24	TWM-VLFW-FIX-3,366(2)-13,Ar-3,CCL-AM CMB 8x25	1.58	18
25	TWM-VLFW-FIX-4,366(2)-11,Ar-4,CCL-AM CMB 8x25	1.63	17



# LABORATORIES

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26	TWM-VLFW-FIX-4,366(2)-11,Ar-4,CCL-RPM MB 1-4x1	1.59	17
27	TWM-VLFW-FIX-5,366(2)-9,Ar-5,CCL	1.60	19
28	TWM-VLFW-FIX-5,366(2)-9,Ar-5,CCL-SDL≥1"	1.60	17
29	TWM-VLFW-FIX-5,366(2)-9,Ar-5,CCL-AM CMB 8x25	1.95	10
30	TWM-VLFW-FIX-5,366(2)-9,Ar-5,CCL-RPM MB 1-4x1	1.81	12
31	TWM-VLFW-FIX-6,366(2)-7,Ar-6,CCL	1.77	16
32	TWM-VLFW-FIX-6,366(2)-7,Ar-6,CCL-SDL≥1"	1.77	13
33	TWM-VLFW-FIX-6,366(2)-7,Ar-6,CCL-AM CMB 8x25	1.99	9
34	TWM-VLFW-FIX-6,366(2)-7,Ar-6,CCL-RPM MB 1-4x1	2.14	5
35	TWM-VLFW-FIX-4,180(2)-11,Ar-4,CCL-11,Ar-4,180(5)	0.97	46
36	TWM-VLFW-FIX-3,180(2)-13,Ar-3,CCL-13,Ar-3,180(5)	0.97	47
37	TWM-VLFW-FIX-4,180(2)-11,Ar-4,CCL-11,Ar-4,180(5)-SDL≥1"	0.97	41
38	TWM-VLFW-FIX-3,180(2)-13,Ar-3,CCL-13,Ar-3,180(5)-SDL≥1"	0.97	42
39	TWM-VLFW-FIX-4,180(2)-11,Ar-4,CCL-11,Ar-4,180(5)-AM CMB 8x25	1.00	43
40	TWM-VLFW-FIX-3,180(2)-13,Ar-3,CCL-13,Ar-3,180(5)-AM CMB 8x25	1.00	44
41	TWM-VLFW-FIX-4,180(2)-11,Ar-4,CCL-11,Ar-4,180(5)-RPM MB 1-4x1	1.00	40
42	TWM-VLFW-FIX-3,180(2)-13,Ar-3,CCL-13,Ar-3,180(5)-RPM MB 1-4x1	1.00	41
43	TWM-VLFW-FIX-4,366(2)-11,Ar-4,366(4)-11,Ar-4,CCL	0.91	30
44	TWM-VLFW-FIX-3,366(2)-13,Ar-3,366(4)-13,Ar-3,CCL	0.91	30
45	TWM-VLFW-FIX-4,366(2)-11,Ar-4,366(4)-11,Ar-4,CCL-SDL≥1"	0.91	29
46	TWM-VLFW-FIX-3,366(2)-13,Ar-3,366(4)-13,Ar-3,CCL-SDL≥1"	0.91	29
47	TWM-VLFW-FIX-4,366(2)-11,Ar-4,366(4)-11,Ar-4,CCL-AM CMB 8x25	0.94	29
48	TWM-VLFW-FIX-3,366(2)-13,Ar-3,366(4)-13,Ar-3,CCL-AM CMB 8x25	0.94	29
49	TWM-VLFW-FIX-4,366(2)-11,Ar-4,366(4)-11,Ar-4,CCL-RPM MB 1-4x1	0.93	28
50	TWM-VLFW-FIX-3,366(2)-13,Ar-3,366(4)-13,Ar-3,CCL-RPM MB 1-4x1	0.93	28

2100 Series Vinyl Double Slider Window

Glass Option	Model Code	Window U-Value (W/m <sup>2</sup> K)	Energy Rating (ER)
1	TWM-VDSW-HS-3,CCL-13,Ar-3,180(3)	1.68	31
2	TWM-VDSW-HS-4,CCL-11,Ar-4,180(3)	1.68	30
3	TWM-VDSW-HS-3,CCL-13,Ar-3,180(3)-Grids≥1"	1.68	25
4	TWM-VDSW-HS-3,CCL-13,Ar-3,180(3)-Grids<1"	1.68	25
5	TWM-VDSW-HS-3,CCL-13,Ar-3,180(3)-SDL≥1"	1.68	25
6	TWM-VDSW-HS-4,CCL-11,Ar-4,180(3)-SDL≥1"	1.68	25
7	TWM-VDSW-HS-3,CCL-13,Ar-3,180(3)-AM CMB 8x25	1.76	26
8	TWM-VDSW-HS-4,CCL-11,Ar-4,180(3)-AM CMB 8x25	1.80	25
9	TWM-VDSW-HS-4,CCL-11,Ar-4,180(3)-RPM MB 1-4x1	1.77	23
10	TWM-VDSW-HS-3,366(2)-13,Ar-3,CCL	1.61	15
11	TWM-VDSW-HS-4,366(2)-11,Ar-4,CCL	1.61	15
12	TWM-VDSW-HS-3,366(2)-13,Ar-3,CCL-Grids≥1"	1.61	13
13	TWM-VDSW-HS-3,366(2)-13,Ar-3,CCL-Grids<1"	1.61	13
14	TWM-VDSW-HS-3,366(2)-13,Ar-3,CCL-SDL≥1"	1.61	13
15	TWM-VDSW-HS-4,366(2)-11,Ar-4,CCL-SDL≥1"	1.61	13
16	TWM-VDSW-HS-3,366(2)-13,Ar-3,CCL-AM CMB 8x25	1.70	12
17	TWM-VDSW-HS-4,366(2)-11,Ar-4,CCL-AM CMB 8x25	1.73	11
18	TWM-VDSW-HS-4,366(2)-11,Ar-4,CCL-RPM MB 1-4x1	1.70	11



2000 Series Vinyl Double Hung Window

Glass Option	Model Code	Window U-Value (W/m <sup>2</sup> K)	Energy Rating (ER)
1	TWM-VDHW-VS-3,CCL-13,Ar-3,180(3)	1.69	32
2	TWM-VDHW-VS-4,CCL-11,Ar-4,180(3)	1.69	31
3	TWM-VDHW-VS-3,CCL-13,Ar-3,180(3)-Grids<1"	1.69	29
4	TWM-VDHW-VS-3,CCL-13,Ar-3,180(3)-Grids≥1"	1.69	26
5	TWM-VDHW-VS-3,CCL-13,Ar-3,180(3)-SDL≥1"	1.69	26
6	TWM-VDHW-VS-4,CCL-11,Ar-4,180(3)-SDL≥1"	1.69	25
7	TWM-VDHW-VS-3,CCL-13,Ar-3,180(3)-AM CMB 8x25	1.77	27
8	TWM-VDHW-VS-4,CCL-11,Ar-4,180(3)-AM CMB 8x25	1.81	26
9	TWM-VDHW-VS-4,CCL-11,Ar-4,180(3)-RPM MB 1-4x1	1.78	23
10	TWM-VDHW-VS-3,366(2)-13,Ar-3,CCL	1.62	16
11	TWM-VDHW-VS-4,366(2)-11,Ar-4,CCL	1.62	16
12	TWM-VDHW-VS-3,366(2)-13,Ar-3,CCL-Grids<1"	1.62	15
13	TWM-VDHW-VS-3,366(2)-13,Ar-3,CCL-Grids≥1"	1.62	14
14	TWM-VDHW-VS-3,366(2)-13,Ar-3,CCL-SDL≥1"	1.62	14
15	TWM-VDHW-VS-4,366(2)-11,Ar-4,CCL-SDL≥1"	1.62	14
16	TWM-VDHW-VS-3,366(2)-13,Ar-3,CCL-AM CMB 8x25	1.71	13
17	TWM-VDHW-VS-4,366(2)-11,Ar-4,CCL-AM CMB 8x25	1.74	12
18	TWM-VDHW-VS-4,366(2)-11,Ar-4,CCL-RPM MB 1-4x1	1.71	12



1800 Series Vinyl Single Slider Window

Glass Option	Model Code	Window U-Value (W/m <sup>2</sup> K)	Energy Rating (ER)
1	TWM-VSSW-HS-3,CCL-13,Ar-3,180(3)	1.69	32
2	TWM-VSSW-HS-4,CCL-11,Ar-4,180(3)	1.69	31
3	TWM-VSSW-HS-3,CCL-13,Ar-3,180(3)-Grids<1"	1.69	29
4	TWM-VSSW-HS-3,CCL-13,Ar-3,180(3)-Grids≥1"	1.69	26
5	TWM-VSSW-HS-3,CCL-13,Ar-3,180(3)-SDL≥1"	1.69	26
6	TWM-VSSW-HS-4,CCL-11,Ar-4,180(3)-SDL≥1"	1.69	25
7	TWM-VSSW-HS-3,CCL-13,Ar-3,180(3)-AM CMB 8x25	1.77	27
8	TWM-VSSW-HS-4,CCL-11,Ar-4,180(3)-AM CMB 8x25	1.81	26
9	TWM-VSSW-HS-4,CCL-11,Ar-4,180(3)-RPM MB 1-4x1	1.79	23
10	TWM-VSSW-HS-3,366(2)-13,Ar-3,CCL	1.62	15
11	TWM-VSSW-HS-4,366(2)-11,Ar-4,CCL	1.62	15
12	TWM-VSSW-HS-3,366(2)-13,Ar-3,CCL-Grids<1"	1.62	14
13	TWM-VSSW-HS-3,366(2)-13,Ar-3,CCL-Grids≥1"	1.62	13
14	TWM-VSSW-HS-3,366(2)-13,Ar-3,CCL-SDL≥1"	1.62	13
15	TWM-VSSW-HS-4,366(2)-11,Ar-4,CCL-SDL≥1"	1.62	13
16	TWM-VSSW-HS-3,366(2)-13,Ar-3,CCL-AM CMB 8x25	1.71	12
17	TWM-VSSW-HS-4,366(2)-11,Ar-4,CCL-AM CMB 8x25	1.75	11
18	TWM-VSSW-HS-4,366(2)-11,Ar-4,CCL-RPM MB 1-4x1	1.72	11

1700 Series Vinyl Single Hung Window

Glass Option	Model Code	Window U-Value (W/m <sup>2</sup> K)	Energy Rating (ER)
1	TWM-VSHW-VS-3,CCL-13,Ar-3,180(3)	1.69	33
2	TWM-VSHW-VS-4,CCL-11,Ar-4,180(3)	1.69	32
3	TWM-VSHW-VS-3,CCL-13,Ar-3,180(3)-Grids<1"	1.69	30
4	TWM-VSHW-VS-3,CCL-13,Ar-3,180(3)-Grids≥1"	1.69	27
5	TWM-VSHW-VS-3,CCL-13,Ar-3,180(3)-SDL≥1"	1.69	27
6	TWM-VSHW-VS-4,CCL-11,Ar-4,180(3)-SDL≥1"	1.69	26
7	TWM-VSHW-VS-3,CCL-13,Ar-3,180(3)-AM CMB 8x25	1.78	28
8	TWM-VSHW-VS-4,CCL-11,Ar-4,180(3)-AM CMB 8x25	1.82	27
9	TWM-VSHW-VS-4,CCL-11,Ar-4,180(3)-RPM MB 1-4x1	1.79	24
10	TWM-VSHW-VS-3,366(2)-13,Ar-3,CCL	1.62	16
11	TWM-VSHW-VS-4,366(2)-11,Ar-4,CCL	1.62	16
12	TWM-VSHW-VS-3,366(2)-13,Ar-3,CCL-Grids<1"	1.62	15
13	TWM-VSHW-VS-3,366(2)-13,Ar-3,CCL-Grids≥1"	1.62	14
14	TWM-VSHW-VS-3,366(2)-13,Ar-3,CCL-SDL≥1"	1.62	14
15	TWM-VSHW-VS-4,366(2)-11,Ar-4,CCL-SDL≥1"	1.62	14
16	TWM-VSHW-VS-3,366(2)-13,Ar-3,CCL-AM CMB 8x25	1.71	13
17	TWM-VSHW-VS-4,366(2)-11,Ar-4,CCL-AM CMB 8x25	1.75	12
18	TWM-VSHW-VS-4,366(2)-11,Ar-4,CCL-RPM MB 1-4x1	1.72	12

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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