

WINDOWS LISTING PROGRAM

Customer: Global Technologies Window Mfg. Ltd.
 Class: Windows – Energy Performance
 Location: Vaughan, ON
 Website: www.gtwindowmfg.com

Listing No. W553
 Project No. W553-1 Edition 2

Effective Date: July 25, 2017
 Last Revised Date: November 24, 2017

Standards: CSA A440.2-14 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: W553-1
- 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: 2050 Series Vinyl Casement Window

Glass Option	Model Code	Window U-Value (W/m²K)	Energy Rating (ER)
1	GTW-VCW-CAS-3,042(2)-16,Ar-3,CI	1.43	24
2	GTW-VCW-CAS-3,042(2)-16,Ar-3,CI-S	1.43	22
3	GTW-VCW-CAS-3,CI-16,Ar-3,068(3)	1.47	33
4	GTW-VCW-CAS-3,CI-16,Ar-3,068(3)-S	1.47	31
5	GTW-VCW-CAS-3,068(2)-16,Ar-3,149(4)	1.26	35
6	GTW-VCW-CAS-3,068(2)-16,Ar-3,149(4)-S	1.26	33
7	GTW-VCW-CAS-3,CI-16,Ar-3,036(3)	1.42	27
8	GTW-VCW-CAS-3,CI-16,Ar-3,036(3)-S	1.42	25
9	GTW-VCW-CAS-3,CI-7,Ar-3,036(3)-7,Ar-3,CI	1.40	25
10	GTW-VCW-CAS-3,036(2)-7,Ar-3,CI-7,Ar-3,036(5)	1.21	25
11	GTW-VCW-CAS-3,CI-7,Ar-3,068(3)-7,Ar-3,CI	1.42	32
12	GTW-VCW-CAS-3,CI-7,Ar-3,042(3)-7,Ar-3,CI	1.40	26
13	GTW-VCW-CAS-3,068(2)-7,Ar-3,CI-7,Ar-3,149(6)	1.25	33
14	GTW-VCW-CAS-3,CI-13,Ar-3,036(3)-13,Ar-3,CI	1.15	31
15	GTW-VCW-CAS-3,CI-13,Ar-3,036(3)-13,Ar-3,CI-S	1.15	30



16	GTW-VCW-CAS-3,036(2)-13,Ar-3,CI-13,Ar-3,036(5)	0.93	32
17	GTW-VCW-CAS-3,036(2)-13,Ar-3,CI-13,Ar-3,036(5)-S	0.93	30
18	GTW-VCW-CAS-3,CI-13,Ar-3,068(3)-13,Ar-3,CI	1.18	37
19	GTW-VCW-CAS-3,CI-13,Ar-3,068(3)-13,Ar-3,CI-S	1.18	35
20	GTW-VCW-CAS-3,CI-13,Ar-3,042(3)-13,Ar-3,CI	1.16	31
21	GTW-VCW-CAS-3,CI-13,Ar-3,042(3)-13,Ar-3,CI-S	1.16	29
22	GTW-VCW-CAS-3,068(2)-13,Ar-3,CI-13,Ar-3,149(6)	1.10	37
23	GTW-VCW-CAS-3,068(2)-13,Ar-3,CI-13,Ar-3,149(6)-S	1.10	35

2050 Series Vinyl Awning Window

Glass Option	Model Code	Window U-Value (W/m ² K)	Energy Rating (ER)
1	GTW-VAW-AWN-3,042(2)-16,Ar-3,CI	1.45	23
2	GTW-VAW-AWN-3,042(2)-16,Ar-3,CI-S	1.45	22
3	GTW-VAW-AWN-3,CI-16,Ar-3,068(3)	1.48	33
4	GTW-VAW-AWN-3,CI-16,Ar-3,068(3)-S	1.48	30
5	GTW-VAW-AWN-3,068(2)-16,Ar-3,149(4)	1.3	34
6	GTW-VAW-AWN-3,068(2)-16,Ar-3,149(4)-S	1.3	32
7	GTW-VAW-AWN-3,CI-16,Ar-3,036(3)	1.44	26
8	GTW-VAW-AWN-3,CI-16,Ar-3,036(3)-S	1.44	24
9	GTW-VAW-AWN-3,CI-7,Ar-3,036(3)-7,Ar-3,CI	1.41	25
10	GTW-VAW-AWN-3,036(2)-7,Ar-3,CI-7,Ar-3,036(5)	1.22	25
11	GTW-VAW-AWN-3,CI-7,Ar-3,068(3)-7,Ar-3,CI	1.44	31
12	GTW-VAW-AWN-3,CI-7,Ar-3,042(3)-7,Ar-3,CI	1.42	25
13	GTW-VAW-AWN-3,068(2)-7,Ar-3,CI-7,Ar-3,149(6)	1.28	32
14	GTW-VAW-AWN-3,CI-13,Ar-3,036(3)-13,Ar-3,CI	1.16	30
15	GTW-VAW-AWN-3,CI-13,Ar-3,036(3)-13,Ar-3,CI-S	1.16	29
16	GTW-VAW-AWN-3,036(2)-13,Ar-3,CI-13,Ar-3,036(5)	0.94	31
17	GTW-VAW-AWN-3,036(2)-13,Ar-3,CI-13,Ar-3,036(5)-S	0.94	30
18	GTW-VAW-AWN-3,CI-13,Ar-3,068(3)-13,Ar-3,CI	1.19	37
19	GTW-VAW-AWN-3,CI-13,Ar-3,068(3)-13,Ar-3,CI-S	1.19	34
20	GTW-VAW-AWN-3,CI-13,Ar-3,042(3)-13,Ar-3,CI	1.17	31
21	GTW-VAW-AWN-3,CI-13,Ar-3,042(3)-13,Ar-3,CI-S	1.17	29
22	GTW-VAW-AWN-3,068(2)-13,Ar-3,CI-13,Ar-3,149(6)	1.12	36
23	GTW-VAW-AWN-3,068(2)-13,Ar-3,CI-13,Ar-3,149(6)-S	1.12	34



2050 Series Vinyl High Fixed Window

Glass Option	Model Code	Window U-Value (W/m ² K)	Energy Rating (ER)
1	GTW-VFW-HF-3,042(2)-16,Ar-3,CI	1.46	26
2	GTW-VFW-HF-3,042(2)-16,Ar-3,CI-S	1.46	24
3	GTW-VFW-HF-3,CI-16,Ar-3,068(3)	1.5	37
4	GTW-VFW-HF-3,CI-16,Ar-3,068(3)-S	1.5	34
5	GTW-VFW-HF-3,068(2)-16,Ar-3,149(4)	1.26	40
6	GTW-VFW-HF-3,068(2)-16,Ar-3,149(4)-S	1.26	37
7	GTW-VFW-HF-3,CI-16,Ar-3,036(3)	1.45	29
8	GTW-VFW-HF-3,CI-16,Ar-3,036(3)-S	1.45	27
9	GTW-VFW-HF-3,CI-7,Ar-3,036(3)-7,Ar-3,CI	1.42	28
10	GTW-VFW-HF-3,036(2)-7,Ar-3,CI-7,Ar-3,036(5)	1.19	28
11	GTW-VFW-HF-3,CI-7,Ar-3,068(3)-7,Ar-3,CI	1.45	35
12	GTW-VFW-HF-3,CI-7,Ar-3,042(3)-7,Ar-3,CI	1.42	28
13	GTW-VFW-HF-3,068(2)-7,Ar-3,CI-7,Ar-3,149(6)	1.24	37
14	GTW-VFW-HF-3,CI-13,Ar-3,036(3)-13,Ar-3,CI	1.14	34
15	GTW-VFW-HF-3,CI-13,Ar-3,036(3)-13,Ar-3,CI-S	1.14	32
16	GTW-VFW-HF-3,036(2)-13,Ar-3,CI-13,Ar-3,036(5)	0.87	35
17	GTW-VFW-HF-3,036(2)-13,Ar-3,CI-13,Ar-3,036(5)-S	0.87	34
18	GTW-VFW-HF-3,CI-13,Ar-3,068(3)-13,Ar-3,CI	1.17	42
19	GTW-VFW-HF-3,CI-13,Ar-3,068(3)-13,Ar-3,CI-S	1.17	39
20	GTW-VFW-HF-3,CI-13,Ar-3,042(3)-13,Ar-3,CI	1.15	35
21	GTW-VFW-HF-3,CI-13,Ar-3,042(3)-13,Ar-3,CI-S	1.15	33
22	GTW-VFW-HF-3,068(2)-13,Ar-3,CI-13,Ar-3,149(6)	1.05	42
23	GTW-VFW-HF-3,068(2)-13,Ar-3,CI-13,Ar-3,149(6)-S	1.05	39

2050 Series Vinyl Low Fixed Window

Glass Option	Model Code	Window U-Value (W/m ² K)	Energy Rating (ER)
1	GTW-VFW-LF-3,042(2)-16,Ar-3,CI	1.49	28
2	GTW-VFW-LF-3,042(2)-16,Ar-3,CI-S	1.49	26
3	GTW-VFW-LF-3,CI-16,Ar-3,068(3)	1.54	41
4	GTW-VFW-LF-3,CI-16,Ar-3,068(3)-S	1.54	37
5	GTW-VFW-LF-3,068(2)-16,Ar-3,149(4)	1.26	43
6	GTW-VFW-LF-3,068(2)-16,Ar-3,149(4)-S	1.26	41
7	GTW-VFW-LF-3,CI-16,Ar-3,036(3)	1.48	32
8	GTW-VFW-LF-3,CI-16,Ar-3,036(3)-S	1.48	29



9	GTW-VFW-LF-3,CI-7,Ar-3,036(3)-7,Ar-3,CI	1.44	30
10	GTW-VFW-LF-3,036(2)-7,Ar-3,CI-7,Ar-3,036(5)	1.18	31
11	GTW-VFW-LF-3,CI-7,Ar-3,068(3)-7,Ar-3,CI	1.47	39
12	GTW-VFW-LF-3,CI-7,Ar-3,042(3)-7,Ar-3,CI	1.44	31
13	GTW-VFW-LF-3,068(2)-7,Ar-3,CI-7,Ar-3,149(6)	1.24	41
14	GTW-VFW-LF-3,CI-13,Ar-3,036(3)-13,Ar-3,CI	1.12	37
15	GTW-VFW-LF-3,CI-13,Ar-3,036(3)-13,Ar-3,CI-S	1.12	35
16	GTW-VFW-LF-3,036(2)-13,Ar-3,CI-13,Ar-3,036(5)	0.82	39
17	GTW-VFW-LF-3,036(2)-13,Ar-3,CI-13,Ar-3,036(5)-S	0.82	37
18	GTW-VFW-LF-3,CI-13,Ar-3,068(3)-13,Ar-3,CI	1.16	46
19	GTW-VFW-LF-3,CI-13,Ar-3,068(3)-13,Ar-3,CI-S	1.16	43
20	GTW-VFW-LF-3,CI-13,Ar-3,042(3)-13,Ar-3,CI	1.13	38
21	GTW-VFW-LF-3,CI-13,Ar-3,042(3)-13,Ar-3,CI-S	1.13	36
22	GTW-VFW-LF-3,068(2)-13,Ar-3,CI-13,Ar-3,149(6)	1.02	46
23	GTW-VFW-LF-3,068(2)-13,Ar-3,CI-13,Ar-3,149(6)-S	1.02	43

2086 Series Vinyl Double Hung Window

Glass Option	Model Code	Window U-Value (W/m ² K)	Energy Rating (ER)
1	GTW-VSW-DH-3,042(2)-16,Ar-3,CI	1.57	22
2	GTW-VSW-DH-3,042(2)-16,Ar-3,CI-S	1.57	20
3	GTW-VSW-DH-3,CI-16,Ar-3,068(3)	1.61	33
4	GTW-VSW-DH-3,CI-16,Ar-3,068(3)-S	1.61	31
5	GTW-VSW-DH-3,068(2)-16,Ar-3,149(4)	1.37	36
6	GTW-VSW-DH-3,068(2)-16,Ar-3,149(4)-S	1.37	33
7	GTW-VSW-DH-3,CI-16,Ar-3,036(3)	1.56	26
8	GTW-VSW-DH-3,CI-16,Ar-3,036(3)-S	1.56	24
9	GTW-VSW-DH-3,CI-7,Ar-3,036(3)-7,Ar-3,CI	1.53	24
10	GTW-VSW-DH-3,036(2)-7,Ar-3,CI-7,Ar-3,036(5)	1.3	25
11	GTW-VSW-DH-3,CI-7,Ar-3,068(3)-7,Ar-3,CI	1.55	32
12	GTW-VSW-DH-3,CI-7,Ar-3,042(3)-7,Ar-3,CI	1.53	25
13	GTW-VSW-DH-3,068(2)-7,Ar-3,CI-7,Ar-3,149(6)	1.35	34



2086 Series Vinyl Double Slider Window

Glass Option	Model Code	Window U-Value (W/m ² K)	Energy Rating (ER)
1	GTW-VSW-DS-3,042(2)-16,Ar-3,CI	1.58	22
2	GTW-VSW-DS-3,042(2)-16,Ar-3,CI-S	1.58	20
3	GTW-VSW-DS-3,CI-16,Ar-3,068(3)	1.63	33
4	GTW-VSW-DS-3,CI-16,Ar-3,068(3)-S	1.63	30
5	GTW-VSW-DS-3,068(2)-16,Ar-3,149(4)	1.39	35
6	GTW-VSW-DS-3,068(2)-16,Ar-3,149(4)-S	1.39	32
7	GTW-VSW-DS-3,CI-16,Ar-3,036(3)	1.57	25
8	GTW-VSW-DS-3,CI-16,Ar-3,036(3)-S	1.57	23
9	GTW-VSW-DS-3,CI-7,Ar-3,036(3)-7,Ar-3,CI	1.55	23
10	GTW-VSW-DS-3,036(2)-7,Ar-3,CI-7,Ar-3,036(5)	1.32	24
11	GTW-VSW-DS-3,CI-7,Ar-3,068(3)-7,Ar-3,CI	1.27	38
12	GTW-VSW-DS-3,CI-7,Ar-3,042(3)-7,Ar-3,CI	1.55	24
13	GTW-VSW-DS-3,068(2)-7,Ar-3,CI-7,Ar-3,149(6)	1.38	33
14	GTW-VSW-DS-3,CI-7,KRY90-3,068(3)-7,KRY90-3,068(5)	1.10	40
15	GTW-VSW-DS-3,068-16,KRY95-3,149(4)	1.35	36
16	GTW-VSW-DS-3,068-16,KRY95-3,149(4)-S	1.35	35

2087 Series Vinyl Single Hung Window

Glass Option	Model Code	Window U-Value (W/m ² K)	Energy Rating (ER)
1	GTW-VSW-SH-3,042(2)-16,Ar-3,CI	1.58	23
2	GTW-VSW-SH-3,042(2)-16,Ar-3,CI-S	1.58	21
3	GTW-VSW-SH-3,CI-16,Ar-3,068(3)	1.63	35
4	GTW-VSW-SH-3,CI-16,Ar-3,068(3)-S	1.63	31
5	GTW-VSW-SH-3,068(2)-16,Ar-3,149(4)	1.38	37
6	GTW-VSW-SH-3,068(2)-16,Ar-3,149(4)-S	1.38	34
7	GTW-VSW-SH-3,CI-16,Ar-3,036(3)	1.57	27
8	GTW-VSW-SH-3,CI-16,Ar-3,036(3)-S	1.57	24
9	GTW-VSW-SH-3,CI-7,Ar-3,036(3)-7,Ar-3,CI	1.54	25
10	GTW-VSW-SH-3,036(2)-7,Ar-3,CI-7,Ar-3,036(5)	1.31	26
11	GTW-VSW-SH-3,CI-7,Ar-3,068(3)-7,Ar-3,CI	1.57	33
12	GTW-VSW-SH-3,CI-7,Ar-3,042(3)-7,Ar-3,CI	1.55	25
13	GTW-VSW-SH-3,068(2)-7,Ar-3,CI-7,Ar-3,149(6)	1.36	35

2087 Series Vinyl Single Slider Window

Glass Option	Model Code	Window U-Value (W/m ² K)	Energy Rating (ER)
1	GTW-VSW-SS-3,042(2)-16,Ar-3,CI	1.59	23
2	GTW-VSW-SS-3,042(2)-16,Ar-3,CI-S	1.59	21
3	GTW-VSW-SS-3,CI-16,Ar-3,068(3)	1.63	35
4	GTW-VSW-SS-3,CI-16,Ar-3,068(3)-S	1.63	31
5	GTW-VSW-SS-3,068(2)-16,Ar-3,149(4)	1.39	37
6	GTW-VSW-SS-3,068(2)-16,Ar-3,149(4)-S	1.39	34
7	GTW-VSW-SS-3,CI-16,Ar-3,036(3)	1.58	26
8	GTW-VSW-SS-3,CI-16,Ar-3,036(3)-S	1.58	24
9	GTW-VSW-SS-3,CI-7,Ar-3,036(3)-7,Ar-3,CI	1.55	25
10	GTW-VSW-SS-3,036(2)-7,Ar-3,CI-7,Ar-3,036(5)	1.31	25
11	GTW-VSW-SS-3,CI-7,Ar-3,068(3)-7,Ar-3,CI	1.57	33
12	GTW-VSW-SS-3,CI-7,Ar-3,042(3)-7,Ar-3,CI	1.55	25
13	GTW-VSW-SS-3,068(2)-7,Ar-3,CI-7,Ar-3,149(6)	1.37	34

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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