



WINDOWS & DOORS LISTING PROGRAM

Customer: Global Technologies Window Mfg. Ltd.
Class: Fenestration Products – Energy Performance
Location: Vaughan, Ontario
Website: www.gtwindowmfg.com

Listing No. W553-1
Project No. W553-1 ED3
Effective Date: November 24, 2017
Last Revised Date: June 29, 2023
Expires: N/A

Standards: CSA A440.2 “Fenestration Energy Performance”

Product: Vinyl 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: W553
- 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:

2050 Series Casement Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	GTW-2050CA-3,CCL-3,180(3)-16AR97SP	1.47	0.45	34
G02	GTW-2050CA-3,CCL-3,180(3)-16AR97SP-G1<1	1.47	0.41	31
G03	GTW-2050CA-3,GCL-3,8071(3)-16AR97SP	1.49	0.46	34
G04	GTW-2050CA-3,GCL-3,8071(3)-16AR97SP-G1<1	1.49	0.42	31
G05	GTW-2050CA-3,180(2)-3,i89(4)-16AR97SP	1.27	0.41	36



Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G06	GTW-2050CA-3,180(2)-3,i89(4)-16AR97SP-G1<1	1.27	0.37	33
G07	GTW-2050CA-3,CCL-3,CCL-3,180(5)-13AR97SP	1.15	0.40	38
G08	GTW-2050CA-3,CCL-3,CCL-3,180(5)-13AR97SP-G1<1	1.15	0.37	36
G09	GTW-2050CA-3,GCL-3,GCL-3,8071(5)-13AR97SP	1.16	0.42	39
G10	GTW-2050CA-3,GCL-3,GCL-3,8071(5)-13AR97SP-G1<1	1.16	0.38	36
G11	GTW-2050CA-3,180(2)-3,CCL-3,180(5)-13AR97SP	0.96	0.37	40
G12	GTW-2050CA-3,180(2)-3,CCL-3,180(5)-13AR97SP-G1<1	0.96	0.33	38
G13	GTW-2050CA-3,8071(2)-3,GCL-3,8071(5)-13AR97SP	0.98	0.38	40
G14	GTW-2050CA-3,8071(2)-3,GCL-3,8071(5)-13AR97SP-G1<1	0.98	0.35	39
G15	GTW-2050CA-3,SPH-3,S400(3)-3,VCL-13AR90IU	1.25	0.43	37
G16	GTW-2050CA-3,SPH-3,S400(3)-3,VCL-13AR90IU-G1<1	1.25	0.39	35
G17	GTW-2050CA-3,SPH-3,SPH-3,S400(5)-13AR90IU	1.23	0.44	38
G18	GTW-2050CA-3,SPH-3,SPH-3,S400(5)-13AR90IU-G1<1	1.23	0.40	36
G19	GTW-2050CA-3,VCL-3,SB60(3)-16AR90IU	1.47	0.32	26
G20	GTW-2050CA-3,VCL-3,SB60(3)-16AR90IU-G1<1	1.47	0.29	24
G21	GTW-2050CA-3,VCL-3,VCL-3,SB60(5)-13AR90IU	1.16	0.30	32
G22	GTW-2050CA-3,VCL-3,VCL-3,SB60(5)-13AR90IU-G1<1	1.16	0.27	30
G23	GTW-2050CA-3,SB60(2)-3,SB60(4)-3,VCL-13AR90IU	0.96	0.21	31
G24	GTW-2050CA-3,SB60(2)-3,SB60(4)-3,VCL-13AR90IU-G1<1	0.96	0.19	30

2050 Series Awning Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	GTW-2050AW-3,CCL-3,180(3)-16AR97SP	1.48	0.45	33
G02	GTW-2050AW-3,CCL-3,180(3)-16AR97SP-G1<1	1.48	0.41	30
G03	GTW-2050AW-3,GCL-3,8071(3)-16AR97SP	1.50	0.46	33
G04	GTW-2050AW-3,GCL-3,8071(3)-16AR97SP-G1<1	1.50	0.42	30
G05	GTW-2050AW-3,180(2)-3,i89(4)-16AR97SP	1.29	0.41	34
G06	GTW-2050AW-3,180(2)-3,i89(4)-16AR97SP-G1<1	1.29	0.37	32
G07	GTW-2050AW-3,CCL-3,CCL-3,180(5)-13AR97SP	1.16	0.40	37
G08	GTW-2050AW-3,CCL-3,CCL-3,180(5)-13AR97SP-G1<1	1.16	0.37	35
G09	GTW-2050AW-3,GCL-3,GCL-3,8071(5)-13AR97SP	1.17	0.42	38
G10	GTW-2050AW-3,GCL-3,GCL-3,8071(5)-13AR97SP-G1<1	1.17	0.38	35
G11	GTW-2050AW-3,180(2)-3,CCL-3,180(5)-13AR97SP	0.96	0.37	39
G12	GTW-2050AW-3,180(2)-3,CCL-3,180(5)-13AR97SP-G1<1	0.96	0.33	37
G13	GTW-2050AW-3,8071(2)-3,GCL-3,8071(5)-13AR97SP	0.98	0.38	40
G14	GTW-2050AW-3,8071(2)-3,GCL-3,8071(5)-13AR97SP-G1<1	0.98	0.35	38
G15	GTW-2050AW-3,SPH-3,S400(3)-3,VCL-13AR90IU	1.26	0.43	36
G16	GTW-2050AW-3,SPH-3,S400(3)-3,VCL-13AR90IU-G1<1	1.26	0.39	34
G17	GTW-2050AW-3,SPH-3,SPH-3,S400(5)-13AR90IU	1.23	0.44	37
G18	GTW-2050AW-3,SPH-3,SPH-3,S400(5)-13AR90IU-G1<1	1.23	0.40	35
G19	GTW-2050AW-3,VCL-3,SB60(3)-16AR90IU	1.48	0.32	25
G20	GTW-2050AW-3,VCL-3,SB60(3)-16AR90IU-G1<1	1.48	0.29	23
G21	GTW-2050AW-3,VCL-3,VCL-3,SB60(5)-13AR90IU	1.17	0.30	31
G22	GTW-2050AW-3,VCL-3,VCL-3,SB60(5)-13AR90IU-G1<1	1.17	0.27	29
G23	GTW-2050AW-3,SB60(2)-3,SB60(4)-3,VCL-13AR90IU	0.96	0.21	30
G24	GTW-2050AW-3,SB60(2)-3,SB60(4)-3,VCL-13AR90IU-G1<1	0.96	0.19	29



2050 Series High Fixed Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	GTW-2050HFX-3,CCL-3,180(3)-16AR97SP	1.50	0.52	37
G02	GTW-2050HFX-3,CCL-3,180(3)-16AR97SP-G1<1	1.50	0.47	34
G03	GTW-2050HFX-3,GCL-3,8071(3)-16AR97SP	1.52	0.54	38
G04	GTW-2050HFX-3,GCL-3,8071(3)-16AR97SP-G1<1	1.52	0.49	35
G05	GTW-2050HFX-3,180(2)-3,i89(4)-16AR97SP	1.26	0.48	40
G06	GTW-2050HFX-3,180(2)-3,i89(4)-16AR97SP-G1<1	1.26	0.43	37
G07	GTW-2050HFX-3,CCL-3,CCL-3,180(5)-13AR97SP	1.13	0.47	42
G08	GTW-2050HFX-3,CCL-3,CCL-3,180(5)-13AR97SP-G1<1	1.13	0.42	40
G09	GTW-2050HFX-3,GCL-3,GCL-3,8071(5)-13AR97SP	1.14	0.49	43
G10	GTW-2050HFX-3,GCL-3,GCL-3,8071(5)-13AR97SP-G1<1	1.14	0.44	40
G11	GTW-2050HFX-3,180(2)-3,CCL-3,180(5)-13AR97SP	0.91	0.43	45
G12	GTW-2050HFX-3,180(2)-3,CCL-3,180(5)-13AR97SP-G1<1	0.91	0.38	42
G13	GTW-2050HFX-3,8071(2)-3,GCL-3,8071(5)-13AR97SP	0.93	0.45	46
G14	GTW-2050HFX-3,8071(2)-3,GCL-3,8071(5)-13AR97SP-G1<1	0.93	0.40	43
G15	GTW-2050HFX-3,SPH-3,S400(3)-3,VCL-13AR90IU	1.24	0.51	42
G16	GTW-2050HFX-3,SPH-3,S400(3)-3,VCL-13AR90IU-G1<1	1.24	0.45	39
G17	GTW-2050HFX-3,SPH-3,SPH-3,S400(5)-13AR90IU	1.20	0.52	44
G18	GTW-2050HFX-3,SPH-3,SPH-3,S400(5)-13AR90IU-G1<1	1.20	0.46	40
G19	GTW-2050HFX-3,VCL-3,SB60(3)-16AR90IU	1.49	0.37	29
G20	GTW-2050HFX-3,VCL-3,SB60(3)-16AR90IU-G1<1	1.49	0.33	26
G21	GTW-2050HFX-3,VCL-3,VCL-3,SB60(5)-13AR90IU	1.12	0.34	35
G22	GTW-2050HFX-3,VCL-3,VCL-3,SB60(5)-13AR90IU-G1<1	1.12	0.31	33
G23	GTW-2050HFX-3,SB60(2)-3,SB60(4)-3,VCL-13AR90IU	0.90	0.24	34
G24	GTW-2050HFX-3,SB60(2)-3,SB60(4)-3,VCL-13AR90IU-G1<1	0.90	0.22	33

2050 Series Low Fixed Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	GTW-2050LFX-3,CCL-3,180(3)-16AR97SP	1.53	0.59	41
G02	GTW-2050LFX-3,CCL-3,180(3)-16AR97SP-G1<1	1.53	0.54	38
G03	GTW-2050LFX-3,GCL-3,8071(3)-16AR97SP	1.55	0.61	41
G04	GTW-2050LFX-3,GCL-3,8071(3)-16AR97SP-G1<1	1.55	0.55	38
G05	GTW-2050LFX-3,180(2)-3,i89(4)-16AR97SP	1.25	0.54	44
G06	GTW-2050LFX-3,180(2)-3,i89(4)-16AR97SP-G1<1	1.25	0.49	41
G07	GTW-2050LFX-3,CCL-3,CCL-3,180(5)-13AR97SP	1.11	0.53	46
G08	GTW-2050LFX-3,CCL-3,CCL-3,180(5)-13AR97SP-G1<1	1.11	0.48	43
G09	GTW-2050LFX-3,GCL-3,GCL-3,8071(5)-13AR97SP	1.13	0.55	47
G10	GTW-2050LFX-3,GCL-3,GCL-3,8071(5)-13AR97SP-G1<1	1.13	0.50	44
G11	GTW-2050LFX-3,180(2)-3,CCL-3,180(5)-13AR97SP	0.86	0.48	49
G12	GTW-2050LFX-3,180(2)-3,CCL-3,180(5)-13AR97SP-G1<1	0.86	0.44	47
G13	GTW-2050LFX-3,8071(2)-3,GCL-3,8071(5)-13AR97SP	0.88	0.51	50
G14	GTW-2050LFX-3,8071(2)-3,GCL-3,8071(5)-13AR97SP-G1<1	0.88	0.46	47
G15	GTW-2050LFX-3,SPH-3,S400(3)-3,VCL-13AR90IU	1.24	0.57	46
G16	GTW-2050LFX-3,SPH-3,S400(3)-3,VCL-13AR90IU-G1<1	1.24	0.52	43
G17	GTW-2050LFX-3,SPH-3,SPH-3,S400(5)-13AR90IU	1.20	0.59	48



Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G18	GTW-2050LFX-3,SPH-3,SPH-3,S400(5)-13AR90IU-G1<1	1.20	0.53	44
G19	GTW-2050LFX-3,VCL-3,SB60(3)-16AR90IU	1.51	0.42	31
G20	GTW-2050LFX-3,VCL-3,SB60(3)-16AR90IU-G1<1	1.51	0.38	29
G21	GTW-2050LFX-3,VCL-3,VCL-3,SB60(5)-13AR90IU	1.11	0.39	38
G22	GTW-2050LFX-3,VCL-3,VCL-3,SB60(5)-13AR90IU-G1<1	1.11	0.35	36
G23	GTW-2050LFX-3,SB60(2)-3,SB60(4)-3,VCL-13AR90IU	0.85	0.28	38
G24	GTW-2050LFX-3,SB60(2)-3,SB60(4)-3,VCL-13AR90IU-G1<1	0.85	0.25	36

2087 Series Single Sliding Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	GTW-2087SS-3,CCL-3,180(3)-16AR97SP	1.62	0.54	35
G02	GTW-2087SS-3,CCL-3,180(3)-16AR97SP-G1<1	1.62	0.48	31
G03	GTW-2087SS-3,GCL-3,8071(3)-16AR97SP	1.64	0.56	35
G04	GTW-2087SS-3,GCL-3,8071(3)-16AR97SP-G1<1	1.64	0.50	32
G05	GTW-2087SS-3,180(2)-3,i89(4)-16AR97SP	1.38	0.49	37
G06	GTW-2087SS-3,180(2)-3,i89(4)-16AR97SP-G1<1	1.38	0.44	34
G07	GTW-2087SS-3,CCL-3,CCL-3,180(5)-6AR97SP	1.57	0.48	32
G08	GTW-2087SS-3,GCL-3,GCL-3,8071(5)-6AR97SP	1.58	0.50	33
G09	GTW-2087SS-3,180(2)-3,CCL-3,180(5)-6AR97SP	1.35	0.44	35
G10	GTW-2087SS-3,8071(2)-3,GCL-3,8071(5)-6AR97SP	1.37	0.46	36
G11	GTW-2087SS-3,SPH-3,S400(3)-3,VCL-7AR90IU	1.63	0.51	33
G12	GTW-2087SS-3,SPH-3,SPH-3,S400(5)-7AR90IU	1.62	0.53	34
G13	GTW-2087SS-3,VCL-3,SB60(3)-16AR90IU	1.61	0.38	26
G14	GTW-2087SS-3,VCL-3,SB60(3)-16AR90IU-G1<1	1.61	0.34	23
G15	GTW-2087SS-3,VCL-3,VCL-3,SB60(5)-7AR90IU	1.55	0.36	26
G16	GTW-2087SS-3,SB60(2)-3,SB60(4)-3,VCL-7AR90IU	1.33	0.25	24

2087 Series Single Hung Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	GTW-2087SH-3,CCL-3,180(3)-16AR97SP	1.62	0.54	35
G02	GTW-2087SH-3,CCL-3,180(3)-16AR97SP-G1<1	1.62	0.48	32
G03	GTW-2087SH-3,GCL-3,8071(3)-16AR97SP	1.64	0.56	36
G04	GTW-2087SH-3,GCL-3,8071(3)-16AR97SP-G1<1	1.64	0.50	32
G05	GTW-2087SH-3,180(2)-3,i89(4)-16AR97SP	1.37	0.49	38
G06	GTW-2087SH-3,180(2)-3,i89(4)-16AR97SP-G1<1	1.37	0.44	35
G07	GTW-2087SH-3,CCL-3,CCL-3,180(5)-6AR97SP	1.56	0.48	33
G08	GTW-2087SH-3,GCL-3,GCL-3,8071(5)-6AR97SP	1.57	0.50	34
G09	GTW-2087SH-3,180(2)-3,CCL-3,180(5)-6AR97SP	1.35	0.44	35
G10	GTW-2087SH-3,8071(2)-3,GCL-3,8071(5)-6AR97SP	1.36	0.46	36
G11	GTW-2087SH-3,SPH-3,S400(3)-3,VCL-7AR90IU	1.63	0.51	33



Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G12	GTW-2087SH-3,SPH-3,SPH-3,S400(5)-7AR90IU	1.61	0.53	35
G13	GTW-2087SH-3,VCL-3,SB60(3)-16AR90IU	1.61	0.38	26
G14	GTW-2087SH-3,VCL-3,SB60(3)-16AR90IU-G1<1	1.61	0.34	24
G15	GTW-2087SH-3,VCL-3,VCL-3,SB60(5)-7AR90IU	1.55	0.36	26
G16	GTW-2087SH-3,SB60(2)-3,SB60(4)-3,VCL-7AR90IU	1.33	0.25	25

2086 Series Double Sliding Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	GTW-2086DS-3,CCL-3,180(3)-16AR97SP	1.62	0.52	32
G02	GTW-2086DS-3,CCL-3,180(3)-16AR97SP-G1<1	1.62	0.46	28
G03	GTW-2086DS-3,GCL-3,8071(3)-16AR97SP	1.64	0.54	33
G04	GTW-2086DS-3,GCL-3,8071(3)-16AR97SP-G1<1	1.64	0.48	29
G05	GTW-2086DS-3,180(2)-3,i89(4)-16AR97SP	1.39	0.47	34
G06	GTW-2086DS-3,180(2)-3,i89(4)-16AR97SP-G1<1	1.39	0.42	31
G07	GTW-2086DS-3,CCL-3,CCL-3,180(5)-6AR97SP	1.57	0.47	30
G08	GTW-2086DS-3,GCL-3,GCL-3,8071(5)-6AR97SP	1.58	0.48	30
G09	GTW-2086DS-3,180(2)-3,CCL-3,180(5)-6AR97SP	1.36	0.42	32
G10	GTW-2086DS-3,8071(2)-3,GCL-3,8071(5)-6AR97SP	1.38	0.44	32
G11	GTW-2086DS-3,SPH-3,S400(3)-3,VCL-7AR90IU	1.63	0.49	30
G12	GTW-2086DS-3,SPH-3,SPH-3,S400(5)-7AR90IU	1.62	0.51	31
G13	GTW-2086DS-3,VCL-3,SB60(3)-16AR90IU	1.62	0.36	23
G14	GTW-2086DS-3,VCL-3,SB60(3)-16AR90IU-G1<1	1.62	0.33	21
G15	GTW-2086DS-3,VCL-3,VCL-3,SB60(5)-7AR90IU	1.56	0.34	23
G16	GTW-2086DS-3,SB60(2)-3,SB60(4)-3,VCL-7AR90IU	1.34	0.24	22

2086 Series Double Hung Window

Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G01	GTW-2086DH-3,CCL-3,180(3)-16AR97SP	1.61	0.52	33
G02	GTW-2086DH-3,CCL-3,180(3)-16AR97SP-G1<1	1.61	0.46	30
G03	GTW-2086DH-3,GCL-3,8071(3)-16AR97SP	1.64	0.54	34
G04	GTW-2086DH-3,GCL-3,8071(3)-16AR97SP-G1<1	1.64	0.48	30
G05	GTW-2086DH-3,180(2)-3,i89(4)-16AR97SP	1.38	0.47	35
G06	GTW-2086DH-3,180(2)-3,i89(4)-16AR97SP-G1<1	1.38	0.42	32
G07	GTW-2086DH-3,CCL-3,CCL-3,180(5)-6AR97SP	1.56	0.47	31
G08	GTW-2086DH-3,GCL-3,GCL-3,8071(5)-6AR97SP	1.57	0.48	32
G09	GTW-2086DH-3,180(2)-3,CCL-3,180(5)-6AR97SP	1.36	0.42	33
G10	GTW-2086DH-3,8071(2)-3,GCL-3,8071(5)-6AR97SP	1.37	0.44	34
G11	GTW-2086DH-3,SPH-3,S400(3)-3,VCL-7AR90IU	1.63	0.49	31
G12	GTW-2086DH-3,SPH-3,SPH-3,S400(5)-7AR90IU	1.61	0.51	33
G13	GTW-2086DH-3,VCL-3,SB60(3)-16AR90IU	1.61	0.36	24



Glass / Grille Option #	Model Code	U-Factor (W/m ² K)	Product SHGC	Energy Rating
G14	GTW-2086DH-3,VCL-3,SB60(3)-16AR90IU-G1<1	1.61	0.33	22
G15	GTW-2086DH-3,VCL-3,VCL-3,SB60(5)-7AR90IU	1.55	0.34	24
G16	GTW-2086DH-3,SB60(2)-3,SB60(4)-3,VCL-7AR90IU	1.34	0.24	23

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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