



## WINDOWS & DOORS LISTING PROGRAM

**Customer:** Vinylguard Window and Doors Systems Ltd.  
**Class:** Fenestration Products – Energy Performance  
**Location:** Woodbridge, ON  
**Website:** [www.vinylguard.com](http://www.vinylguard.com)

**Listing No.** W559-1  
**Project No.** W559-1 ED4  
**Effective Date:** May 24, 2018  
**Last Revised Date:** October 21, 2024  
**Expires:** N/A

**Standards:** CSA A440.2-19 “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, or Trademark
- b) QAI file Number: W559
- c) The wording “Evaluated for energy performance in accordance with CSA A440.2”
- d) The wording “Évalué pour la performance d’énergie en accord à la norme CSA A440.2”
- e) QAI logo with ‘c’ identifier as shown here:



### Models / Ratings:

#### - EnergyGuard Contoured Awning Window

Glass / Grille Option #	Model Code	U-Factor (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G01	VGW-CAW-3,CL-3,8071(3)-16AR97SP	1.50	0.46	34
G02	VGW-CAW-3,CL-3,366(3)-16AR97SP	1.40	0.26	24
G03	VGW-CAW-3,CL-3,180E(3)-16AR97SP	1.50	0.46	34
G04	VGW-CAW-3,CL-3,272(3)-16AR97SP	1.45	0.33	27
G05	VGW-CAW-3,180E(2)-3,i89(4)-16AR97SP	1.30	0.42	36
G06	VGW-CAW-3,CL-3,8071(3)-16AR97SP-G<1	1.50	0.42	31



Glass / Grille Option #	Model Code	U-Factor (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G07	VGW-CAW-3,CL-3,366(3)-16AR97SP-G<1	1.40	0.23	22
G08	VGW-CAW-3,CL-3,180E(3)-16AR97SP-G<1	1.50	0.42	31
G09	VGW-CAW-3,CL-3,272(3)-16AR97SP-G<1	1.45	0.30	25
G10	VGW-CAW-3,180E(2)-3,i89(4)-16AR97SP-G<1	1.30	0.38	33
G11	VGW-CAW-3,180(2)-3,CL-3,180(5)-8AR97SP	1.12	0.36	36
G12	VGW-CAW-3,8071(2)-3,CL-3,8071(5)-8AR97SP	1.13	0.38	37
G13	VGW-CAW-3,CL-3,CL-3,180(5)-8AR97SP	1.30	0.40	34
G14	VGW-CAW-3,CL-3,CL-3,8071(5)-8AR97SP	1.31	0.41	35
G15	VGW-CAW-3,366(2)-3,CL-3,366(5)-8AR97SP	1.08	0.16	25
G16	VGW-CAW-3,8071(2)-3,CL-3,i89(5)-8AR97SP	1.18	0.38	36
G17	VGW-CAW-3,180E(2)-3,CL-3,180E(5)-8AR97SP	1.13	0.38	37
G18	VGW-CAW-3,8071(2)-3,CL-3,8071(5)-9AR97SP	1.09	0.38	38
G19	VGW-CAW-3,366(2)-3,CL-3,366(5)-9AR97SP	1.03	0.16	26
G20	VGW-CAW-4,CL-4,8071(3)-14AR97SP	1.50	0.44	32
G21	VGW-CAW-4,180E(2)-4,i89(4)-14AR97SP	1.31	0.41	35
G22	VGW-CAW-4,CL-4,272(3)-14AR97SP	1.44	0.32	27
G23	VGW-CAW-4,CL-4,180E(3)-14AR97SP	1.49	0.44	33
G24	VGW-CAW-4,CL-4,366(3)-14AR97SP	1.41	0.25	23
G25	VGW-CAW-5,CL-5,8071(3)-12AR97SP	1.49	0.43	32
G26	VGW-CAW-5,CL-5,180E(3)-12AR97SP	1.48	0.43	32
G27	VGW-CAW-5,CL-5,366(3)-12AR97SP	1.40	0.25	24
G28	VGW-CAW-3,180E(2)-3,180E(4)-3,i89(6)-6AR97SP	1.16	0.36	35
G29	VGW-CAW-4,8071(2)-4,CL-4,8071(5)-7AR97SP	1.26	0.37	34
G30	VGW-CAW-4,CL-4,CL-4,8071(5)-7AR97SP	1.44	0.39	31
G31	VGW-CAW-4,180E(2)-4,CL-4,180E(5)-7AR97SP	1.26	0.36	33
G32	VGW-CAW-4,366(2)-4,CL-4,366(5)-7AR97SP	1.21	0.16	23
G33	VGW-CAW-4,180E(2)-4,180E(4)-4,i89(6)-7AR97SP	1.15	0.35	35
G34	VGW-CAW-5,8071(2)-5,CL-5,8071(5)-7AR97SP	1.26	0.36	33
G35	VGW-CAW-5,CL-5,CL-5,8071(5)-7AR97SP	1.43	0.37	30
G36	VGW-CAW-5,180E(2)-5,CL-5,180E(5)-7AR97SP	1.26	0.36	33
G37	VGW-CAW-5,366(2)-5,CL-5,366(5)-7AR97SP	1.21	0.16	23
G38	VGW-CAW-5,180E(2)-5,180E(4)-5,i89(6)-7AR97SP	1.15	0.34	34
G39	VGW-CAW-3,180E(2)-3,i89(4)-16AR97SP2-G<1	1.31	0.38	33
G40	VGW-CAW-4,CL-4,8071(3)-14AR97SP-G<1	1.50	0.40	30
G41	VGW-CAW-4,180E(2)-4,i89(4)-14AR97SP-G<1	1.31	0.37	32
G42	VGW-CAW-4,CL-4,272(3)-14AR97SP-G<1	1.44	0.29	25
G43	VGW-CAW-4,CL-4,180E(3)-14AR97SP-G<1	1.49	0.40	30
G44	VGW-CAW-4,CL-4,366(3)-14AR97SP-G<1	1.41	0.23	22
G45	VGW-CAW-5,CL-5,8071(3)-12AR97SP-G<1	1.51	0.39	29
G46	VGW-CAW-5,CL-5,180E(3)-12AR97SP-G<1	1.51	0.39	29
G47	VGW-CAW-5,CL-5,366(3)-12AR97SP-G<1	1.43	0.23	22
G48	VGW-CAW-3,8071(2)-3,CL-3,8071(5)-8AR97SP-G<1	1.18	0.34	34
G49	VGW-CAW-3,CL-3,CL-3,8071(5)-8AR97SP-G<1	1.34	0.36	31
G50	VGW-CAW-3,180E(2)-3,CL-3,180E(5)-8AR97SP-G<1	1.18	0.34	34
G51	VGW-CAW-3,366(2)-3,CL-3,366(5)-8AR97SP-G<1	1.12	0.14	23
G52	VGW-CAW-3,180E(2)-3,180E(4)-3,i89(6)-8AR97SP-G<1	1.08	0.33	35
G53	VGW-CAW-4,8071(2)-4,CL-4,8071(5)-8AR97SP-G<1	1.18	0.33	33
G54	VGW-CAW-4,CL-4,CL-4,8071(5)-8AR97SP-G<1	1.34	0.35	31
G55	VGW-CAW-4,180E(2)-4,CL-4,180E(5)-8AR97SP-G<1	1.18	0.33	33
G56	VGW-CAW-4,366(2)-4,CL-4,366(5)-8AR97SP-G<1	1.12	0.14	23
G57	VGW-CAW-4,180E(2)-4,180E(4)-4,i89(6)-8AR97SP-G<1	1.08	0.32	35



**- EnergyGuard Contoured Casement Window**

Glass / Grille Option #	Model Code	U-Factor (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G01	VGW-CCA-3,CL-3,8071(3)-16AR97SP	1.50	0.46	34
G02	VGW-CCA-3,CL-3,366(3)-16AR97SP	1.40	0.26	24
G03	VGW-CCA-3,CL-3,180E(3)-16AR97SP	1.50	0.46	34
G04	VGW-CCA-3,CL-3,272(3)-16AR97SP	1.45	0.33	27
G05	VGW-CCA-3,180E(2)-3,i89(4)-16AR97SP	1.25	0.42	37
G06	VGW-CCA-3,CL-3,8071(3)-16AR97SP-G<1	1.50	0.42	31
G07	VGW-CCA-3,CL-3,366(3)-16AR97SP-G<1	1.40	0.23	22
G08	VGW-CCA-3,CL-3,180E(3)-16AR97SP-G<1	1.50	0.42	31
G09	VGW-CCA-3,CL-3,272(3)-16AR97SP-G<1	1.45	0.30	25
G10	VGW-CCA-3,180E(2)-3,i89(4)-16AR97SP-G<1	1.25	0.38	34
G11	VGW-CCA-3,180(2)-3,CL-3,180(5)-8AR97SP	1.12	0.36	36
G12	VGW-CCA-3,8071(2)-3,CL-3,8071(5)-8AR97SP	1.13	0.38	37
G13	VGW-CCA-3,CL-3,CL-3,180(5)-8AR97SP	1.30	0.40	34
G14	VGW-CCA-3,CL-3,CL-3,8071(5)-8AR97SP	1.31	0.41	35
G15	VGW-CCA-3,366(2)-3,CL-3,366(5)-9AR97SP	1.03	0.16	26
G16	VGW-CCA-4,CL-4,8071(3)-14AR97SP	1.48	0.44	33
G17	VGW-CCA-4,180E(2)-4,i89(4)-14AR97SP	1.28	0.41	35
G18	VGW-CCA-4,CL-4,272(3)-14AR97SP	1.43	0.32	27
G19	VGW-CCA-4,CL-4,180E(3)-14AR97SP	1.48	0.44	33
G20	VGW-CCA-4,CL-4,366(3)-14AR97SP	1.40	0.25	24
G21	VGW-CCA-5,CL-5,8071(3)-12AR97SP	1.47	0.43	32
G22	VGW-CCA-5,CL-5,180E(3)-12AR97SP	1.47	0.43	32
G23	VGW-CCA-5,CL-5,366(3)-12AR97SP	1.39	0.25	24
G24	VGW-CCA-3,180E(2)-3,180E(4)-3,i89(6)-6AR97SP	1.14	0.36	36
G25	VGW-CCA-4,8071(2)-4,CL-4,8071(5)-7AR97SP	1.26	0.37	34
G26	VGW-CCA-4,CL-4,CL-4,8071(5)-7AR97SP	1.43	0.39	31
G27	VGW-CCA-4,180E(2)-4,CL-4,180E(5)-7AR97SP	1.25	0.36	33
G28	VGW-CCA-4,366(2)-4,CL-4,366(5)-7AR97SP	1.20	0.16	23
G29	VGW-CCA-4,180E(2)-4,180E(4)-4,i89(6)-7AR97SP	1.13	0.35	35
G30	VGW-CCA-5,8071(2)-5,CL-5,8071(5)-7AR97SP	1.25	0.36	33
G31	VGW-CCA-5,CL-5,CL-5,8071(5)-7AR97SP	1.42	0.37	30
G32	VGW-CCA-5,180E(2)-5,CL-5,180E(5)-7AR97SP	1.25	0.36	33
G33	VGW-CCA-5,366(2)-5,CL-5,366(5)-7AR97SP	1.20	0.16	23
G34	VGW-CCA-5,180E(2)-5,180E(4)-5,i89(6)-7AR97SP	1.18	0.34	34
G35	VGW-CCA-3,CL-3,8071(3)-16AR97SP2-G<1	1.49	0.41	31
G36	VGW-CCA-3,180E(2)-3,i89(4)-16AR97SP2-G<1	1.28	0.38	34
G37	VGW-CCA-4,CL-4,8071(3)-14AR97SP-G<1	1.48	0.40	30
G38	VGW-CCA-4,180E(2)-4,i89(4)-14AR97SP-G<1	1.28	0.37	33
G39	VGW-CCA-4,CL-4,272(3)-14AR97SP-G<1	1.43	0.29	25
G40	VGW-CCA-4,CL-4,180E(3)-14AR97SP-G<1	1.48	0.40	30
G41	VGW-CCA-4,CL-4,366(3)-14AR97SP-G<1	1.40	0.23	22
G42	VGW-CCA-5,CL-5,8071(3)-12AR97SP-G<1	1.51	0.39	29
G43	VGW-CCA-5,CL-5,180E(3)-12AR97SP-G<1	1.51	0.39	29
G44	VGW-CCA-5,CL-5,366(3)-12AR97SP-G<1	1.43	0.23	22
G45	VGW-CCA-3,8071(2)-3,CL-3,8071(5)-8AR97SP-G<1	1.18	0.34	34
G46	VGW-CCA-3,CL-3,CL-3,8071(5)-8AR97SP-G<1	1.34	0.36	31
G47	VGW-CCA-3,180E(2)-3,CL-3,180E(5)-8AR97SP-G<1	1.18	0.34	34
G48	VGW-CCA-3,366(2)-3,CL-3,366(5)-8AR97SP-G<1	1.12	0.14	23
G49	VGW-CCA-3,180E(2)-3,180E(4)-3,i89(6)-8AR97SP-G<1	1.07	0.33	35
G50	VGW-CCA-4,8071(2)-4,CL-4,8071(5)-8AR97SP-G<1	1.18	0.33	33
G51	VGW-CCA-4,CL-4,CL-4,8071(5)-8AR97SP-G<1	1.34	0.35	31
G52	VGW-CCA-4,180E(2)-4,CL-4,180E(5)-8AR97SP-G<1	1.18	0.33	33
G53	VGW-CCA-4,366(2)-4,CL-4,366(5)-8AR97SP-G<1	1.12	0.14	23
G54	VGW-CCA-4,180E(2)-4,180E(4)-4,i89(6)-8AR97SP-G<1	1.07	0.35	37



**- EnergyGuard Contoured Fixed Casement Window**

Glass / Grille Option #	Model Code	U-Factor (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G01	VGW-CFC-3,CL-3,8071(3)-16AR97SP	1.55	0.55	38
G02	VGW-CFC-3,CL-3,366(3)-16AR97SP	1.40	0.30	27
G03	VGW-CFC-3,CL-3,180E(3)-16AR97SP	1.50	0.55	39
G04	VGW-CFC-3,CL-3,272(3)-16AR97SP	1.45	0.39	31
G05	VGW-CFC-3,180E(2)-3,i89(4)-16AR97SP	1.25	0.50	42
G06	VGW-CFC-3,CL-3,8071(3)-16AR97SP-G<1	1.55	0.49	34
G07	VGW-CFC-3,CL-3,366(3)-16AR97SP-G<1	1.40	0.27	25
G08	VGW-CFC-3,CL-3,180E(3)-16AR97SP-G<1	1.50	0.49	35
G09	VGW-CFC-3,CL-3,272(3)-16AR97SP-G<1	1.45	0.35	28
G10	VGW-CFC-3,180E(2)-3,i89(4)-16AR97SP-G<1	1.25	0.45	39
G11	VGW-CFC-3,180(2)-3,CL-3,180(5)-8AR97SP	1.09	0.43	41
G12	VGW-CFC-3,8071(2)-3,CL-3,8071(5)-8AR97SP	1.11	0.45	42
G13	VGW-CFC-3,CL-3,CL-3,180(5)-8AR97SP	1.30	0.47	39
G14	VGW-CFC-3,CL-3,CL-3,8071(5)-8AR97SP	1.32	0.49	39
G15	VGW-CFC-3,366(2)-3,CL-3,366(5)-9AR97SP	0.99	0.19	29
G16	VGW-CFC-4,CL-4,8071(3)-14AR97SP	1.51	0.52	37
G17	VGW-CFC-4,180E(2)-4,i89(4)-14AR97SP	1.26	0.48	40
G18	VGW-CFC-4,CL-4,272(3)-14AR97SP	1.45	0.38	30
G19	VGW-CFC-4,CL-4,180E(3)-14AR97SP	1.51	0.52	37
G20	VGW-CFC-4,CL-4,366(3)-14AR97SP	1.41	0.30	26
G21	VGW-CFC-5,CL-5,8071(3)-12AR97SP	1.49	0.51	37
G22	VGW-CFC-5,CL-5,180E(3)-12AR97SP	1.49	0.51	37
G23	VGW-CFC-5,CL-5,366(3)-12AR97SP	1.39	0.30	27
G24	VGW-CFC-6,CL-6,8071(3)-10AR97SP	1.55	0.50	35
G25	VGW-CFC-6,180E-6,i89(4)-10AR97SP	1.31	0.46	38
G26	VGW-CFC-6,CL-6,366(3)-10AR97SP	1.45	0.29	25
G27	VGW-CFC-3,180E(2)-3,180E(4)-3,i89(6)-6AR97SP	1.10	0.43	41
G28	VGW-CFC-4,8071(2)-4,CL-4,8071(5)-7AR97SP	1.24	0.44	38
G29	VGW-CFC-4,CL-4,CL-4,8071(5)-7AR97SP	1.44	0.46	35
G30	VGW-CFC-4,180E(2)-4,CL-4,180E(5)-7AR97SP	1.24	0.43	38
G31	VGW-CFC-4,366(2)-4,CL-4,366(5)-7AR97SP	1.18	0.19	25
G32	VGW-CFC-4,180E(2)-4,180E(4)-4,i89(6)-7AR97SP	1.09	0.41	40
G33	VGW-CFC-5,8071(2)-5,CL-5,8071(5)-7AR97SP	1.23	0.43	38
G34	VGW-CFC-5,CL-5,CL-5,8071(5)-7AR97SP	1.44	0.44	34
G35	VGW-CFC-5,180E(2)-5,CL-5,180E(5)-7AR97SP	1.23	0.42	37
G36	VGW-CFC-5,366(2)-5,CL-5,366(5)-7AR97SP	1.17	0.19	25
G37	VGW-CFC-5,180E(2)-5,180E(4)-5,i89(6)-7AR97SP	1.09	0.40	39
G38	VGW-CFC-3,CL-3,8071(3)-16AR97SP2-G<1	1.53	0.48	34
G39	VGW-CFC-3,CL-3,180E(3)-16AR97SP2-G<1	1.52	0.48	34
G40	VGW-CFC-4,CL-4,8071(3)-14AR97SP-G<1	1.51	0.47	34
G41	VGW-CFC-4,180E(2)-4,i89(4)-14AR97SP-G<1	1.26	0.43	37
G42	VGW-CFC-4,CL-4,272(3)-14AR97SP-G<1	1.45	0.34	28
G43	VGW-CFC-4,CL-4,180E(3)-14AR97SP-G<1	1.51	0.47	34
G44	VGW-CFC-4,CL-4,366(3)-14AR97SP-G<1	1.41	0.27	25
G45	VGW-CFC-5,CL-5,8071(3)-12AR97SP-G<1	1.55	0.46	33
G46	VGW-CFC-5,CL-5,180E(3)-12AR97SP-G<1	1.55	0.46	33
G47	VGW-CFC-5,CL-5,366(3)-12AR97SP-G<1	1.45	0.27	24
G48	VGW-CFC-6,CL-6,8071(3)-10AR97SP-G<1	1.65	0.45	30
G49	VGW-CFC-6,180E-6,i89(4)-10AR97SP-G<1	1.38	0.41	33
G50	VGW-CFC-6,CL-6,366(3)-10AR97SP-G<1	1.55	0.26	21
G51	VGW-CFC-3,8071(2)-3,CL-3,8071(5)-8AR97SP-G<1	1.17	0.40	37
G52	VGW-CFC-3,CL-3,CL-3,8071(5)-8AR97SP-G<1	1.35	0.43	35
G53	VGW-CFC-3,180E(2)-3,CL-3,180E(5)-8AR97SP-G<1	1.16	0.40	38
G54	VGW-CFC-3,366(2)-3,CL-3,366(5)-8AR97SP-G<1	1.09	0.17	26
G55	VGW-CFC-3,180E(2)-3,180E(4)-3,i89(6)-8AR97SP-G<1	1.04	0.38	39



Glass / Grille Option #	Model Code	U-Factor (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G56	VGW-CFC-4,8071(2)-4,CL-4,8071(5)-8AR97SP-G<1	1.16	0.39	37
G57	VGW-CFC-4,CL-4,CL-4,8071(5)-8AR97SP-G<1	1.34	0.41	34
G58	VGW-CFC-4,180E(2)-4,CL-4,180E(5)-8AR97SP-G<1	1.16	0.39	37
G59	VGW-CFC-4,366(2)-4,CL-4,366(5)-8AR97SP-G<1	1.10	0.17	26
G60	VGW-CFC-4,180E(2)-4,180E(4)-4,i89(6)-8AR97SP-G<1	1.04	0.37	39

**- EnergyGuard Contoured Picture Window**

Glass / Grille Option #	Model Code	U-Factor (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G01	VGW-CPC-3,CL-3,8071(3)-16AR97SP	1.55	0.62	42
G02	VGW-CPC-3,CL-3,366(3)-16AR97SP	1.45	0.34	28
G03	VGW-CPC-3,CL-3,180E(3)-16AR97SP	1.55	0.61	41
G04	VGW-CPC-3,CL-3,272(3)-16AR97SP	1.50	0.44	33
G05	VGW-CPC-3,180E(2)-3,i89(4)-16AR97SP	1.25	0.56	45
G06	VGW-CPC-3,CL-3,8071(3)-16AR97SP-G<1	1.55	0.56	38
G07	VGW-CPC-3,CL-3,366(3)-16AR97SP-G<1	1.45	0.31	26
G08	VGW-CPC-3,CL-3,180E(3)-16AR97SP-G<1	1.55	0.55	38
G09	VGW-CPC-3,CL-3,272(3)-16AR97SP-G<1	1.50	0.40	30
G10	VGW-CPC-3,180E(2)-3,i89(4)-16AR97SP-G<1	1.25	0.51	42
G11	VGW-CPC-3,180(2)-3,CL-3,180(5)-8AR97SP	1.07	0.49	45
G12	VGW-CPC-3,8071(2)-3,CL-3,8071(5)-8AR97SP	1.08	0.51	46
G13	VGW-CPC-3,CL-3,CL-3,180(5)-8AR97SP	1.31	0.53	42
G14	VGW-CPC-3,CL-3,CL-3,8071(5)-8AR97SP	1.32	0.55	43
G15	VGW-CPC-3,366(2)-3,CL-3,366(5)-9AR97SP	0.95	0.21	31

**- EnergyGuard Beveled Picture Window**

Glass / Grille Option #	Model Code	U-Factor (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G01	VGW-PC-4,CL-4,8071(3)-14AR97SP	1.54	0.59	40
G02	VGW-PC-4,180E(2)-4,i89(4)-14AR97SP	1.26	0.55	44
G03	VGW-PC-4,CL-4,272(3)-14AR97SP	1.46	0.38	30
G04	VGW-PC-4,CL-4,180E(3)-14AR97SP	1.53	0.53	37
G05	VGW-PC-4,CL-4,366(3)-14AR97SP	1.42	0.30	26
G06	VGW-PC-5,CL-5,8071(3)-12AR97SP	1.52	0.52	37
G07	VGW-PC-5,CL-5,180E(3)-12AR97SP	1.51	0.52	37
G08	VGW-PC-5,CL-5,366(3)-12AR97SP	1.40	0.30	27
G09	VGW-PC-6,CL-6,8071(3)-10AR97SP	1.58	0.50	34
G10	VGW-PC-6,180E-6,i89(4)-10AR97SP	1.31	0.47	38
G11	VGW-PC-6,CL-6,366(3)-10AR97SP	1.46	0.30	25
G12	VGW-PC-3,180E(2)-3,180E(4)-3,i89(6)-6AR97SP	1.08	0.43	41
G13	VGW-PC-4,8071(2)-4,CL-4,8071(5)-7AR97SP	1.23	0.44	38
G14	VGW-PC-4,CL-4,CL-4,8071(5)-7AR97SP	1.46	0.47	35
G15	VGW-PC-4,180E(2)-4,CL-4,180E(5)-7AR97SP	1.23	0.44	38
G16	VGW-PC-4,366(2)-4,CL-4,366(5)-7AR97SP	1.16	0.19	26



Glass / Grille Option #	Model Code	U-Factor (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G17	VGW-PC-4,180E(2)-4,180E(4)-4,i89(6)-7AR97SP	1.07	0.42	41
G18	VGW-PC-5,8071(2)-5,CL-5,8071(5)-7AR97SP	1.23	0.43	38
G19	VGW-PC-5,CL-5,CL-5,8071(5)-7AR97SP	1.46	0.45	34
G20	VGW-PC-5,180E(2)-5,CL-5,180E(5)-7AR97SP	1.23	0.43	38
G21	VGW-PC-5,366(2)-5,CL-5,366(5)-7AR97SP	1.16	0.19	26
G22	VGW-PC-5,180E(2)-5,180E(4)-5,i89(6)-7AR97SP	1.06	0.41	40
G23	VGW-PC-3,CL-3,8071(3)-16AR97SP-G<1	1.55	0.54	37
G24	VGW-PC-3,180E(2)-3,i89(4)-16AR97SP-G<1	1.27	0.51	42
G25	VGW-PC-4,CL-4,8071(3)-14AR97SP-G<1	1.54	0.53	37
G26	VGW-PC-4,180E(2)-4,i89(4)-14AR97SP-G<1	1.26	0.49	41
G27	VGW-PC-4,CL-4,272(3)-14AR97SP-G<1	1.46	0.38	30
G28	VGW-PC-4,CL-4,180E(3)-14AR97SP-G<1	1.53	0.53	37
G29	VGW-PC-4,CL-4,366(3)-14AR97SP-G<1	1.42	0.30	26
G30	VGW-PC-5,CL-5,8071(3)-12AR97SP-G<1	1.58	0.52	35
G31	VGW-PC-5,CL-5,180E(3)-12AR97SP-G<1	1.58	0.52	35
G32	VGW-PC-5,CL-5,366(3)-12AR97SP-G<1	1.47	0.30	25
G33	VGW-PC-6,CL-6,8071(3)-10AR97SP-G<1	1.69	0.50	32
G34	VGW-PC-6,180E-6,i89(4)-10AR97SP-G<1	1.39	0.47	37
G35	VGW-PC-6,CL-6,366(3)-10AR97SP-G<1	1.57	0.30	23
G36	VGW-PC-3,8071(2)-3,CL-3,8071(5)-8AR97SP-G<1	1.15	0.45	41
G37	VGW-PC-3,CL-3,CL-3,8071(5)-8AR97SP-G<1	1.35	0.48	38
G38	VGW-PC-3,180E(2)-3,CL-3,180E(5)-8AR97SP-G<1	1.14	0.46	42
G39	VGW-PC-3,366(2)-3,CL-3,366(5)-8AR97SP-G<1	1.06	0.19	28
G40	VGW-PC-3,180E(2)-3,180E(4)-3,i89(6)-8AR97SP-G<1	1.00	0.44	44
G41	VGW-PC-4,8071(2)-4,CL-4,8071(5)-8AR97SP-G<1	1.15	0.44	40
G42	VGW-PC-4,CL-4,CL-4,8071(5)-8AR97SP-G<1	1.35	0.46	37
G43	VGW-PC-4,180E(2)-4,CL-4,180E(5)-8AR97SP-G<1	1.14	0.44	40
G44	VGW-PC-4,366(2)-4,CL-4,366(5)-8AR97SP-G<1	1.07	0.19	28
G45	VGW-PC-4,180E(2)-4,180E(4)-4,i89(6)-8AR97SP-G<1	1.00	0.42	42

**- EnergyGuard Double Hung Tilt Window**

Glass / Grille Option #	Model Code	U-Factor (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G01	VGW-DHT-3,CL-3,8071(3)-16AR97SP	1.64	0.53	33
G02	VGW-DHT-3,180E(2)-3,i89(4)-16AR97SP	1.39	0.49	36
G03	VGW-DHT-3,CL-3,272(3)-16AR97SP	1.58	0.38	25
G04	VGW-DHT-3,CL-3,180E(3)-16AR97SP	1.64	0.53	33
G05	VGW-DHT-3,CL-3,366(3)-16AR97SP	1.54	0.30	21
G06	VGW-DHT-4,CL-4,8071(3)-14AR97SP	1.63	0.52	32
G07	VGW-DHT-4,180E(2)-4,i89(4)-14AR97SP	1.39	0.48	35
G08	VGW-DHT-4,CL-4,272(3)-14AR97SP	1.57	0.37	25
G09	VGW-DHT-4,CL-4,180E(3)-14AR97SP	1.63	0.52	32
G10	VGW-DHT-4,CL-4,366(3)-14AR97SP	1.53	0.30	22
G11	VGW-DHT-3,8071(2)-3,CL-3,8071(5)-6AR97SP	1.37	0.44	33
G12	VGW-DHT-3,CL-3,CL-3,8071(5)-6AR97SP	1.58	0.47	30
G13	VGW-DHT-3,180E(2)-3,CL-3,180E(5)-6AR97SP	1.37	0.44	33
G14	VGW-DHT-3,366(2)-3,CL-3,366(5)-6AR97SP	1.31	0.18	20
G15	VGW-DHT-3,180E(2)-3,180E(4)-3,i89(6)-6AR97SP	1.23	0.42	35
G16	VGW-DHT-3,CL-3,8071(3)-16AR97SP-G<1	1.64	0.48	30
G17	VGW-DHT-3,180E(2)-3,i89(4)-16AR97SP-G<1	1.39	0.44	33





Glass / Grille Option #	Model Code	U-Factor (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G18	VGW-DHT-4,CL-4,8071(3)-14AR97SP-G<1	1.63	0.46	29
G19	VGW-DHT-4,180E(2)-4,i89(4)-14AR97SP-G<1	1.39	0.43	32
G20	VGW-DHT-4,CL-4,272(3)-14AR97SP-G<1	1.57	0.34	23
G21	VGW-DHT-4,CL-4,180E(3)-14AR97SP-G<1	1.63	0.47	29
G22	VGW-DHT-4,CL-4,366(3)-14AR97SP-G<1	1.53	0.27	20

**- EnergyGuard Double Slider Tilt Window**

Glass / Grille Option #	Model Code	U-Factor (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G01	VGW-DST-3,CL-3,8071(3)-16AR97SP	1.65	0.54	34
G02	VGW-DST-3,CL-3,366(3)-16AR97SP	1.55	0.30	22
G03	VGW-DST-3,CL-3,180E(3)-16AR97SP	1.65	0.54	34
G04	VGW-DST-3,CL-3,272(3)-16AR97SP	1.60	0.39	27
G05	VGW-DST-3,180E(2)-3,i89(4)-16AR97SP	1.40	0.49	37
G06	VGW-DST-3,CL-3,8071(3)-16AR97SP-G<1	1.65	0.49	31
G07	VGW-DST-3,CL-3,366(3)-16AR97SP-G<1	1.55	0.27	21
G08	VGW-DST-3,CL-3,180E(3)-16AR97SP-G<1	1.65	0.49	31
G09	VGW-DST-3,CL-3,272(3)-16AR97SP-G<1	1.60	0.35	24
G10	VGW-DST-3,180E(2)-3,i89(4)-16AR97SP-G<1	1.40	0.44	34
G11	VGW-DST-4,CL-4,8071(3)-14AR97SP	1.55	0.52	35
G12	VGW-DST-4,180E(2)-4,i89(4)-14AR97SP	1.39	0.48	36
G13	VGW-DST-4,CL-4,272(3)-14AR97SP	1.57	0.37	26
G14	VGW-DST-4,CL-4,180E(3)-14AR97SP	1.63	0.52	33
G15	VGW-DST-4,CL-4,366(3)-14AR97SP	1.53	0.30	23
G16	VGW-DST-3,8071(2)-3,CL-3,8071(5)-6AR97SP	1.37	0.44	34
G17	VGW-DST-3,CL-3,CL-3,8071(5)-6AR97SP	1.58	0.47	32
G18	VGW-DST-3,180E(2)-3,CL-3,180E(5)-6AR97SP	1.37	0.44	34
G19	VGW-DST-3,366(2)-3,CL-3,366(5)-6AR97SP	1.31	0.18	21
G20	VGW-DST-3,180E(2)-3,180E(4)-3,i89(6)-6AR97SP	1.23	0.42	36
G21	VGW-DST-3,CL-3,8071(3)-16AR97SP2-G<1	1.65	0.48	31
G22	VGW-DST-3,180E(2)-3,i89(4)-16AR97SP2-G<1	1.40	0.44	34
G23	VGW-DST-4,CL-4,8071(3)-14AR97SP-G<1	1.55	0.46	32
G24	VGW-DST-4,180E(2)-4,i89(4)-14AR97SP-G<1	1.39	0.43	33
G25	VGW-DST-4,CL-4,272(3)-14AR97SP-G<1	1.57	0.34	24
G26	VGW-DST-4,CL-4,180E(3)-14AR97SP-G<1	1.63	0.47	30
G27	VGW-DST-4,CL-4,366(3)-14AR97SP-G<1	1.53	0.27	21

**- EnergyGuard Single Hung Tilt Window**

Glass / Grille Option #	Model Code	U-Factor (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G01	VGW-SHT-3,CL-3,8071(3)-16AR97SP	1.65	0.56	35
G02	VGW-SHT-3,CL-3,366(3)-16AR97SP	1.55	0.31	23
G03	VGW-SHT-3,CL-3,180E(3)-16AR97SP	1.65	0.56	35
G04	VGW-SHT-3,CL-3,272(3)-16AR97SP	1.60	0.40	27



Glass / Grille Option #	Model Code	U-Factor (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G05	VGW-SHT-3,180E(2)-3,i89(4)-16AR97SP	1.40	0.51	37
G06	VGW-SHT-3,CL-3,8071(3)-16AR97SP-G<1	1.65	0.50	31
G07	VGW-SHT-3,CL-3,366(3)-16AR97SP-G<1	1.55	0.28	21
G08	VGW-SHT-3,CL-3,180E(3)-16AR97SP-G<1	1.65	0.50	31
G09	VGW-SHT-3,CL-3,272(3)-16AR97SP-G<1	1.60	0.36	24
G10	VGW-SHT-3,180E(2)-3,i89(4)-16AR97SP-G<1	1.40	0.46	35
G11	VGW-SHT-4,CL-4,8071(3)-14AR97SP	1.65	0.53	33
G12	VGW-SHT-4,180E(2)-4,i89(4)-14AR97SP	1.39	0.49	36
G13	VGW-SHT-4,CL-4,272(3)-14AR97SP	1.58	0.39	27
G14	VGW-SHT-4,CL-4,180E(3)-14AR97SP	1.64	0.53	33
G15	VGW-SHT-4,CL-4,366(3)-14AR97SP	1.54	0.31	23
G16	VGW-SHT-3,8071(2)-3,CL-3,8071(5)-6AR97SP	1.38	0.46	35
G17	VGW-SHT-3,CL-3,CL-3,8071(5)-6AR97SP	1.59	0.48	32
G18	VGW-SHT-3,180E(2)-3,CL-3,180E(5)-6AR97SP	1.38	0.46	35
G19	VGW-SHT-3,366(2)-3,CL-3,366(5)-6AR97SP	1.31	0.19	21
G20	VGW-SHT-3,180E(2)-3,180E(4)-3,i89(6)-6AR97SP	1.23	0.44	37
G21	VGW-SHT-4,CL-4,8071(3)-14AR97SP-G<1	1.65	0.48	30
G22	VGW-SHT-4,180E(2)-4,i89(4)-14AR97SP-G<1	1.39	0.44	34
G23	VGW-SHT-4,CL-4,272(3)-14AR97SP-G<1	1.58	0.35	24
G24	VGW-SHT-4,CL-4,180E(3)-14AR97SP-G<1	1.64	0.48	30
G25	VGW-SHT-4,CL-4,366(3)-14AR97SP-G<1	1.54	0.28	21
G26	VGW-SHT-3,8071(2)-3,CL-3,8071(5)-8AR97SP-G<1	1.29	0.41	34
G27	VGW-SHT-3,CL-3,CL-3,8071(5)-8AR97SP-G<1	1.48	0.44	32
G28	VGW-SHT-3,180E(2)-3,CL-3,180E(5)-8AR97SP-G<1	1.29	0.41	34
G29	VGW-SHT-3,366(2)-3,CL-3,366(5)-8AR97SP-G<1	1.22	0.17	22
G30	VGW-SHT-3,180E(2)-3,180E(4)-3,i89(6)-8AR97SP-G<1	1.16	0.39	36

**- EnergyGuard Single Slider Tilt Window**

Glass / Grille Option #	Model Code	U-Factor (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G01	VGW-SST-3,CL-3,8071(3)-16AR97SP	1.65	0.56	35
G02	VGW-SST-3,CL-3,366(3)-16AR97SP	1.55	0.31	23
G03	VGW-SST-3,CL-3,180E(3)-16AR97SP	1.65	0.56	35
G04	VGW-SST-3,CL-3,272(3)-16AR97SP	1.60	0.40	27
G05	VGW-SST-3,180E(2)-3,i89(4)-16AR97SP	1.40	0.51	38
G06	VGW-SST-3,CL-3,8071(3)-16AR97SP-G<1	1.65	0.50	32
G07	VGW-SST-3,CL-3,366(3)-16AR97SP-G<1	1.55	0.28	21
G08	VGW-SST-3,CL-3,180E(3)-16AR97SP-G<1	1.65	0.50	32
G09	VGW-SST-3,CL-3,272(3)-16AR97SP-G<1	1.60	0.36	25
G10	VGW-SST-3,180E(2)-3,i89(4)-16AR97SP-G<1	1.40	0.46	35
G11	VGW-SST-4,CL-4,8071(3)-14AR97SP	1.65	0.53	33
G12	VGW-SST-4,180E(2)-4,i89(4)-14AR97SP	1.40	0.49	37
G13	VGW-SST-4,CL-4,272(3)-14AR97SP	1.58	0.39	27
G14	VGW-SST-4,CL-4,180E(3)-14AR97SP	1.65	0.53	33
G15	VGW-SST-4,CL-4,366(3)-14AR97SP	1.54	0.31	23
G16	VGW-SST-3,8071(2)-3,CL-3,8071(5)-6AR97SP	1.38	0.46	35
G17	VGW-SST-3,CL-3,CL-3,8071(5)-6AR97SP	1.59	0.49	32
G18	VGW-SST-3,180E(2)-3,CL-3,180E(5)-6AR97SP	1.38	0.46	35
G19	VGW-SST-3,366(2)-3,CL-3,366(5)-6AR97SP	1.31	0.19	21
G20	VGW-SST-3,180E(2)-3,180E(4)-3,i89(6)-6AR97SP	1.23	0.44	37





Glass / Grille Option #	Model Code	U-Factor (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G21	VGW-SST-4,CL-4,8071(3)-14AR97SP-G<1	1.65	0.48	31
G22	VGW-SST-4,180E(2)-4,i89(4)-14AR97SP-G<1	1.40	0.44	34
G23	VGW-SST-4,CL-4,272(3)-14AR97SP-G<1	1.58	0.35	25
G24	VGW-SST-4,CL-4,180E(3)-14AR97SP-G<1	1.65	0.48	31
G25	VGW-SST-4,CL-4,366(3)-14AR97SP-G<1	1.54	0.28	21

**- EnergyGuard Single Slider Lift Window**

Glass / Grille Option #	Model Code	U-Factor (W/m <sup>2</sup> K)	Product SHGC	Energy Rating
G01	VGW-SSL-3,CL-3,8071(3)-16AR97SP	1.65	0.58	36
G02	VGW-SSL-3,CL-3,366(3)-16AR97SP	1.55	0.32	24
G03	VGW-SSL-3,CL-3,180E(3)-16AR97SP	1.65	0.58	36
G04	VGW-SSL-3,CL-3,272(3)-16AR97SP	1.60	0.41	28
G05	VGW-SSL-3,180E(2)-3,i89(4)-16AR97SP	1.40	0.53	39
G06	VGW-SSL-3,CL-3,8071(3)-16AR97SP-G<1	1.65	0.52	33
G07	VGW-SSL-3,CL-3,366(3)-16AR97SP-G<1	1.55	0.29	22
G08	VGW-SSL-3,CL-3,180E(3)-16AR97SP-G<1	1.65	0.52	33
G09	VGW-SSL-3,CL-3,272(3)-16AR97SP-G<1	1.60	0.37	25
G10	VGW-SSL-3,180E(2)-3,i89(4)-16AR97SP-G<1	1.40	0.48	36
G11	VGW-SSL-4,CL-4,8071(3)-14AR97SP	1.29	0.55	43
G12	VGW-SSL-4,CL-4,272(3)-14AR97SP	1.32	0.51	40
G13	VGW-SSL-4,180E(2)-4,i89(4)-14AR97SP	1.17	0.40	36
G14	VGW-SSL-4,CL-4,180E(3)-14AR97SP	1.37	0.55	41
G15	VGW-SSL-4,CL-4,366(3)-14AR97SP	1.29	0.32	29
G16	VGW-SSL-3,8071(2)-3,CL-3,8071(5)-6AR97SP	1.08	0.47	43
G17	VGW-SSL-3,CL-3,CL-3,8071(5)-6AR97SP	1.32	0.50	39
G18	VGW-SSL-3,180E(2)-3,CL-3,180E(5)-6AR97SP	1.16	0.47	41
G19	VGW-SSL-3,366(2)-3,CL-3,366(5)-6AR97SP	1.11	0.20	26
G20	VGW-SSL-3,180E(2)-3,180E(4)-3,i89(6)-6AR97SP	1.03	0.45	42
G21	VGW-SSL-4,CL-4,8071(3)-14AR97SP-G<1	1.29	0.50	40
G22	VGW-SSL-4,CL-4,272(3)-14AR97SP-G<1	1.32	0.46	37
G23	VGW-SSL-4,180E(2)-4,i89(4)-14AR97SP-G<1	1.17	0.36	34
G24	VGW-SSL-4,CL-4,180E(3)-14AR97SP-G<1	1.37	0.50	38
G25	VGW-SSL-4,CL-4,366(3)-14AR97SP-G<1	1.29	0.29	28

**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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