

## 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 1

Effective Date: November 24, 2017  
 Last Revised Date: November 24, 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: 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/m <sup>2</sup> K) | 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 <sup>2</sup> 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 <sup>2</sup> 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 <sup>2</sup> 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 <sup>2</sup> 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 <sup>2</sup> 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                 |

## 2087 Series Vinyl Single Hung Window

| Glass Option | Model Code                                  | Window U-Value (W/m <sup>2</sup> 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 <sup>2</sup> 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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