

WINDOWS & DOORS LISTING PROGRAM

Customer: Kohltech International Ltd.
Class: Fenestration Products – Energy Performance
Location: Edmonton, Alberta
Website: www.kohltech.com

Listing No. W439-1
Report No. W439-1 ED5
Project No. W439-1 ED5
Effective Date: March 14, 2013
Last Revised Date: September 12, 2018
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: W439
- 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:

10000 Series Fixed Window

| Model Code | U-Value (W/m ² K) | Energy Rating |
|------------------|------------------------------|---------------|
| 10000F-MHS3000 | 1.87 | 30 |
| 10000F-MHS3000A | 1.69 | 34 |
| 10000F-MHS3000AG | 1.73 | 32 |
| 10000F-MHS3100 | 1.72 | 19 |
| 10000F-MHS3100A | 1.52 | 24 |
| 10000F-MHS3100AG | 1.55 | 22 |

| Model Code | U-Value (W/m ² K) | Energy Rating |
|--------------------------------------|------------------------------|---------------|
| 10000F-MHS3200 | 1.40 | 37 |
| 10000F-MHS3200A1 | 1.29 | 39 |
| 10000F-MHS3200A2 | 1.27 | 40 |
| 10000F-MHS3200A2G | 1.29 | 38 |
| 10000F-MHS3300 | 1.20 | 37 |
| 10000F-MHS3300A1 | 1.12 | 38 |
| 10000F-MHS3300A2 | 1.06 | 40 |
| 10000F-MHS3300A2G | 1.08 | 38 |
| 10000F-MHS3400 | 1.33 | 26 |
| 10000F-MHS3400A1 | 1.31 | 27 |
| 10000F-MHS3400A2 | 1.20 | 29 |
| 10000F-MHS3400A2G | 1.21 | 29 |
| 10000F-MHS3500 | 1.08 | 31 |
| 10000F-MHS3500A1 | 1.00 | 33 |
| 10000F-MHS3500A2 | 0.93 | 34 |
| 10000F-MHS3500A2G | 0.94 | 33 |
| 10000F-CI-Arg-8070,ss | 1.58 | 36 |
| 10000F-CI-Arg-8070,ss,Grids | 1.60 | 34 |
| 10000F-7138-Arg-CI,ss | 1.47 | 25 |
| 10000F-7138-Arg-CI,ss,Grids | 1.49 | 24 |
| 10000F-7138-Arg-CI-Air-CI,ss | 1.17 | 30 |
| 10000F-7138-Arg-CI-Air-CI,ss,Grids | 1.17 | 29 |
| 10000F-7138-Arg-7138-Arg-CI,ss | 0.89 | 34 |
| 10000F-7138-Arg-7138-Arg-CI,ss,Grids | 0.90 | 34 |
| 10000F-CI-Air-CI-Arg-8070,ss | 1.21 | 40 |
| 10000F-CI-Air-CI-Arg-8070,ss,Grids | 1.23 | 38 |
| 10000F-CI-Arg-8070-Arg-8070,ss | 0.97 | 45 |
| 10000F-CI-Arg-8070-Arg-8070,ss,Grids | 0.98 | 43 |
| 10000F-7036-Arg-CI,ss | 1.51 | 23 |
| 10000F-7036-Arg-CI,ss,Grids | 1.53 | 22 |
| 10000F-7036-Arg-CI-Air-CI,ss | 1.20 | 29 |
| 10000F-7036-Arg-CI-Air-CI,ss,Grids | 1.20 | 28 |
| 10000F-7036-Arg-7036-Arg-CI,ss | 0.92 | 33 |
| 10000F-7036-Arg-7036-Arg-CI,ss,Grids | 0.93 | 32 |

10000 Series Casement Window

| Model Code | U-Value (W/m ² K) | Energy Rating |
|--------------------------------------|------------------------------|---------------|
| 10000C-MHS3000 | 1.84 | 26 |
| 10000C-MHS3000A | 1.69 | 29 |
| 10000C-MHS3000AG | 1.72 | 28 |
| 10000C-MHS3100 | 1.72 | 17 |
| 10000C-MHS3100A | 1.55 | 21 |
| 10000C-MHS3100AG | 1.57 | 19 |
| 10000C-MHS3200 | 1.46 | 31 |
| 10000C-MHS3200A1 | 1.37 | 33 |
| 10000C-MHS3200A2 | 1.35 | 34 |
| 10000C-MHS3200A2G | 1.36 | 32 |
| 10000C-MHS3300 | 1.29 | 31 |
| 10000C-MHS3300A1 | 1.23 | 33 |
| 10000C-MHS3300A2 | 1.18 | 34 |
| 10000C-MHS3300A2G | 1.19 | 33 |
| 10000C-MHS3400 | 1.40 | 23 |
| 10000C-MHS3400A1 | 1.38 | 23 |
| 10000C-MHS3400A2 | 1.29 | 25 |
| 10000C-MHS3400A2G | 1.29 | 24 |
| 10000C-MHS3500 | 1.19 | 26 |
| 10000C-MHS3500A1 | 1.12 | 28 |
| 10000C-MHS3500A2 | 1.07 | 29 |
| 10000C-MHS3500A2G | 1.08 | 28 |
| 10000C-CI-Arg-8070,ss | 1.59 | 31 |
| 10000C-CI-Arg-8070,ss,Grids | 1.60 | 30 |
| 10000C-7138-Arg-CI,ss | 1.50 | 22 |
| 10000C-7138-Arg-CI,ss,Grids | 1.51 | 21 |
| 10000C-7138-Arg-CI-Air-CI,ss | 1.22 | 27 |
| 10000C-7138-Arg-CI-Air-CI,ss,Grids | 1.23 | 26 |
| 10000C-7138-Arg-7138-Arg-CI,ss | 0.98 | 30 |
| 10000C-7138-Arg-7138-Arg-CI,ss,Grids | 0.99 | 30 |
| 10000C-CI-Air-CI-Arg-8070,ss | 1.26 | 35 |
| 10000C-CI-Air-CI-Arg-8070,ss,Grids | 1.27 | 34 |
| 10000C-CI-Arg-8070-Arg-8070,ss | 1.05 | 40 |
| 10000C-CI-Arg-8070-Arg-8070,ss,Grids | 1.06 | 38 |
| 10000C-7036-Arg-CI,ss | 1.54 | 20 |
| 10000C-7036-Arg-CI,ss,Grids | 1.55 | 19 |
| 10000C-7036-Arg-CI-Air-CI,ss | 1.26 | 25 |
| 10000C-7036-Arg-CI-air-CI,ss,Grids | 1.27 | 24 |

| Model Code | U-Value (W/m ² K) | Energy Rating |
|--------------------------------------|------------------------------|---------------|
| 10000C-7036-Arg-7036-Arg-Cl,ss | 1.03 | 28 |
| 10000C-7036-Arg-7036-Arg-Cl,ss,Grids | 1.04 | 28 |

10000 Series Awning Window

| Model Code | U-Value (W/m ² K) | Energy Rating |
|--------------------------------------|------------------------------|---------------|
| 10000A-MHS3000 | 1.86 | 26 |
| 10000A-MHS3000A | 1.71 | 29 |
| 10000A-MHS3000AG | 1.72 | 28 |
| 10000A-MHS3100 | 1.73 | 17 |
| 10000A-MHS3100A | 1.56 | 20 |
| 10000A-MHS3100AG | 1.57 | 19 |
| 10000A-MHS3200 | 1.45 | 32 |
| 10000A-MHS3200A1 | 1.36 | 33 |
| 10000A-MHS3200A2 | 1.34 | 34 |
| 10000A-MHS3200A2G | 1.34 | 33 |
| 10000A-MHS3300 | 1.27 | 32 |
| 10000A-MHS3300A1 | 1.21 | 33 |
| 10000A-MHS3300A2 | 1.16 | 34 |
| 10000A-MHS3300A2G | 1.16 | 33 |
| 10000A-MHS3400 | 1.39 | 23 |
| 10000A-MHS3400A1 | 1.37 | 23 |
| 10000A-MHS3400A2 | 1.27 | 25 |
| 10000A-MHS3400A2G | 1.27 | 25 |
| 10000A-MHS3500 | 1.17 | 27 |
| 10000A-MHS3500A1 | 1.10 | 28 |
| 10000A-MHS3500A2 | 1.05 | 29 |
| 10000A-MHS3500A2G | 1.05 | 29 |
| 10000A-CI-Arg-8070,ss | 1.61 | 31 |
| 10000A-CI-Arg-8070,ss,Grids | 1.61 | 30 |
| 10000A-7138-Arg-Cl,ss | 1.52 | 22 |
| 10000A-7138-Arg-Cl,ss,Grids | 1.52 | 21 |
| 10000A-7138-Arg-Cl-Air-Cl,ss | 1.24 | 26 |
| 10000A-7138-Arg-Cl-Air-Cl,ss,Grids | 1.24 | 26 |
| 10000A-7138-Arg-7138-Arg-Cl,ss | 1.00 | 30 |
| 10000A-7138-Arg-7138-Arg-Cl,ss,Grids | 1.00 | 30 |
| 10000A-CI-Air-Cl-Arg-8070,ss | 1.28 | 34 |
| 10000A-CI-Air-Cl-Arg-8070,ss,Grids | 1.28 | 34 |

| Model Code | U-Value (W/m ² K) | Energy Rating |
|--------------------------------------|------------------------------|---------------|
| 10000A-CI-Arg-8070-Arg-8070,ss | 1.07 | 39 |
| 10000A-CI-Arg-8070-Arg-8070,ss,Grids | 1.07 | 38 |
| 10000A-7036-Arg-CI,ss | 1.56 | 20 |
| 10000A-7036-Arg-CI,ss,Grids | 1.56 | 19 |
| 10000A-7036-Arg-CI-Air-CI,ss | 1.28 | 25 |
| 10000A-7036-Arg-CI-Air-CI,ss,Grids | 1.28 | 24 |
| 10000A-7036-Arg-7036-Arg-CI | 1.04 | 28 |
| 10000A-7036-Arg-7036-Arg-CI,ss,Grids | 1.05 | 27 |

10000 Series Picture Window

| Model Code | U-Value (W/m ² K) | Energy Rating |
|-----------------------------|------------------------------|---------------|
| 10000P-MHS3000 | 1.93 | 33 |
| 10000P-MHS3000A | 1.73 | 37 |
| 10000P-MHS3000AG | 1.77 | 35 |
| 10000P-MHS3100 | 1.76 | 21 |
| 10000P-MHS3100A | 1.54 | 25 |
| 10000P-MHS3100AG | 1.57 | 24 |
| 10000P-MHS3200 | 1.40 | 40 |
| 10000P-MHS3200A1 | 1.38 | 41 |
| 10000P-MHS3200A2 | 1.25 | 43 |
| 10000P-MHS3200A2G | 1.28 | 42 |
| 10000P-MHS3300 | 1.18 | 40 |
| 10000P-MHS3300A1 | 1.10 | 42 |
| 10000P-MHS3300A2 | 1.03 | 44 |
| 10000P-MHS3300A2G | 1.04 | 42 |
| 10000P-MHS3400 | 1.33 | 29 |
| 10000P-MHS3400A1 | 1.30 | 29 |
| 10000P-MHS3400A2 | 1.18 | 32 |
| 10000P-MHS3400A2G | 1.19 | 31 |
| 10000P-MHS3500 | 1.04 | 34 |
| 10000P-MHS3500A1 | 0.95 | 36 |
| 10000P-MHS3500A2 | 0.88 | 37 |
| 10000P-MHS3500A2G | 0.89 | 36 |
| 10000P-CI-Arg-8070,ss | 1.63 | 40 |
| 10000P-CI-Arg-8070,ss,Grids | 1.67 | 37 |
| 10000P-7036-Arg-CI,ss | 1.53 | 24 |
| 10000P-7036-Arg-CI,ss,Grids | 1.57 | 23 |

| Model Code | U-Value (W/m ² K) | Energy Rating |
|--------------------------------------|------------------------------|---------------|
| 10000P-7036-Arg-CI-Air-CI,ss | 1.19 | 31 |
| 10000P-7036-Arg-CI-Air-CI,ss,Grids | 1.21 | 30 |
| 10000P-7036-Arg-7036-Arg-CI,ss | 0.87 | 35 |
| 10000P-7036-Arg-7036-Arg-CI,ss,Grids | 0.90 | 34 |
| 10000P-CI-Air-CI-Arg-8070,ss | 1.22 | 44 |
| 10000P-CI-Air-CI-Arg-8070,ss,Grids | 1.25 | 43 |
| 10000P-CI-Arg-8070-Arg-8070,ss | 0.95 | 49 |
| 10000P-CI-Arg-8070-Arg-8070,ss,Grids | 0.98 | 47 |

10000 Series Horizontal Sliding Window

| Model Code | U-Value (W/m ² K) | Energy Rating |
|------------------------------|------------------------------|---------------|
| 10000SL-MHS3000 | 2.06 | 24 |
| 10000SL-MHS3000A | 1.89 | 29 |
| 10000SL-MHS3000AG | 1.93 | 27 |
| 10000SL-MHS3100 | 1.91 | 15 |
| 10000SL-MHS3100A | 1.72 | 19 |
| 10000SL-MHS3100AG | 1.75 | 18 |
| 10000SL-MHS3200 | 1.85 | 26 |
| 10000SL-MHS3200A1 | 1.71 | 30 |
| 10000SL-MHS3200A2 | 1.67 | 31 |
| 10000SL-MHS3200A2G | 1.72 | 28 |
| 10000SL-MHS3300 | 1.67 | 26 |
| 10000SL-MHS3300A1 | 1.56 | 28 |
| 10000SL-MHS3300A2 | 1.48 | 30 |
| 10000SL-MHS3300A2G | 1.51 | 29 |
| 10000SL-MHS3400 | 1.79 | 16 |
| 10000SL-MHS3400A1 | 1.75 | 17 |
| 10000SL-MHS3400A2 | 1.59 | 21 |
| 10000SL-MHS3400A2G | 1.61 | 19 |
| 10000SL-MHS3500 | 1.56 | 20 |
| 10000SL-MHS3500A1 | 1.45 | 23 |
| 10000SL-MHS3500A2 | 1.36 | 25 |
| 10000SL-MHS3500A2G | 1.39 | 23 |
| 10000SL-CI-Arg-8070,ss | 1.79 | 31 |
| 10000SL-CI-Arg-8070,ss,Grids | 1.82 | 29 |
| 10000SL-7036-Arg-CI,ss | 1.70 | 18 |
| 10000SL-7036-Arg-CI,ss,Grids | 1.73 | 17 |

| Model Code | U-Value (W/m ² K) | Energy Rating |
|---------------------------------------|------------------------------|---------------|
| 10000SL-7036-Arg-Cl-Air-Cl,ss | 1.57 | 20 |
| 10000SL-7036-Arg-Cl-Air-Cl,ss,Grids | 1.61 | 18 |
| 10000SL-7036-Arg-7036-Arg-Cl,ss | 1.32 | 23 |
| 10000SL-7036-Arg-7036-Arg-Cl,ss,Grids | 1.37 | 21 |
| 10000SL-Cl-Air-Cl-Arg-8070,ss | 1.62 | 30 |
| 10000SL-Cl-Air-Cl-Arg-8070,ss,Grids | 1.69 | 29 |
| 10000SL-Cl-Arg-8070-Arg-8070,ss | 1.38 | 36 |
| 10000SL-Cl-Arg-8070-Arg-8070,ss,Grids | 1.44 | 33 |

10000 Series Single Hung Window

| Model Code | U-Value (W/m ² K) | Energy Rating |
|---------------------------------------|------------------------------|---------------|
| 10000SH-MHS3000 | 2.04 | 25 |
| 10000SH-MHS3000A | 1.87 | 29 |
| 10000SH-MHS3000AG | 1.91 | 26 |
| 10000SH-MHS3100 | 1.89 | 15 |
| 10000SH-MHS3100A | 1.70 | 19 |
| 10000SH-MHS3100AG | 1.73 | 18 |
| 10000SH-Cl-Arg-8070,ss | 1.78 | 31 |
| 10000SH-Cl-Arg-8070,ss,Grids | 1.82 | 29 |
| 10000SH-7036-Arg-Cl,ss | 1.69 | 18 |
| 10000SH-7036-Arg-Cl,ss,Grids | 1.73 | 17 |
| 10000SH-7036-Arg-Cl-Air-Cl,ss | 1.56 | 19 |
| 10000SH-7036-Arg-Cl-Air-Cl,ss,Grids | 1.59 | 17 |
| 10000SH-7036-Arg-7036-Arg-Cl,ss | 1.30 | 23 |
| 10000SH-7036-Arg-7036-Arg-Cl,ss,Grids | 1.35 | 21 |
| 10000SH-Cl-Air-Cl-Arg-8070,ss | 1.61 | 30 |
| 10000SH-Cl-Air-Cl-Arg-8070,ss,Grids | 1.67 | 27 |
| 10000SH-Cl-Arg-8070-Arg-8070,ss | 1.37 | 34 |
| 10000SH-Cl-Arg-8070-Arg-8070,ss,Grids | 1.42 | 32 |

10000 Series Direct Set Picture Window

| Model Code | U-Value (W/m ² K) | Energy Rating |
|---|------------------------------|---------------|
| KT-10000PC-3,CL-13AR95SS-3,8070(3) | 1.58 | N/A* |
| KT-10000PC-3,CL-13AR95SS-3,8070(3)-G1<1 | 1.58 | N/A* |
| KT-10000PC-3,CL-13AR95SS-3,8070(3)-G2<1 | 1.58 | N/A* |

| Model Code | U-Value (W/m ² K) | Energy Rating |
|--|------------------------------|---------------|
| KT-10000PC-3,CL-13AR95SS-3,8070(3)-G3<1 | 1.58 | N/A* |
| KT-10000PC-3,7036(2)-13AR95SS-3,CL | 1.48 | N/A* |
| KT-10000PC-3,7036(2)-13AR95SS-3,CL-G1<1 | 1.48 | N/A* |
| KT-10000PC-3,7036(2)-13AR95SS-3,CL-G2<1 | 1.48 | N/A* |
| KT-10000PC-3,7036(2)-13AR95SS-3,CL-G3<1 | 1.48 | N/A* |
| KT-10000PC-3,7036(2)-8AR95SS-3,CL-8AIRSS-3,CL | 1.38 | N/A* |
| KT-10000PC-3,7036(2)-8AR95SS-3,CL-8AIRSS-3,CL-G1<1 | 1.46 | N/A* |
| KT-10000PC-3,7036(2)-8AR95SS-3,CL-8AIRSS-3,CL-G2<1 | 1.51 | N/A* |
| KT-10000PC-3,7036(2)-8AR95SS-3,CL-8AIRSS-3,CL-G3<1 | 1.45 | N/A* |
| KT-10000PC-3,7036(2)-8AR95SS-3,7036(4)-8AR95SS-3,CL | 1.09 | N/A* |
| KT-10000PC-3,7036(2)-8AR95SS-3,7036(4)-8AR95SS-3,CL-G1<1 | 1.16 | N/A* |
| KT-10000PC-3,7036(2)-8AR95SS-3,7036(4)-8AR95SS-3,CL-G2<1 | 1.20 | N/A* |
| KT-10000PC-3,7036(2)-8AR95SS-3,7036(4)-8AR95SS-3,CL-G3<1 | 1.17 | N/A* |
| KT-10000PC-3,CL-8AIRSS-3,CL-8AR95SS-3,8070(5) | 1.43 | N/A* |
| KT-10000PC-3,CL-8AIRSS-3,CL-8AR95SS-3,8070(5)-G1<1 | 1.51 | N/A* |
| KT-10000PC-3,CL-8AIRSS-3,CL-8AR95SS-3,8070(5)-G2<1 | 1.56 | N/A* |
| KT-10000PC-3,CL-8AIRSS-3,CL-8AR95SS-3,8070(5)-G3<1 | 1.52 | N/A* |
| KT-10000PC-3,CL-8AR95SS-3,8070(3)-8AR95SS-3,8070(5) | 1.17 | N/A* |
| KT-10000PC-3,CL-8AR95SS-3,8070(3)-8AR95SS-3,8070(5)-G1<1 | 1.24 | N/A* |
| KT-10000PC-3,CL-8AR95SS-3,8070(3)-8AR95SS-3,8070(5)-G2<1 | 1.29 | N/A* |
| KT-10000PC-3,CL-8AR95SS-3,8070(3)-8AR95SS-3,8070(5)-G3<1 | 1.25 | N/A* |

* **Note:** At the request of the client, the noted products were not evaluated for Air Leakage therefore the Energy Rating (ER) calculation was not performed.

Notes: *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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