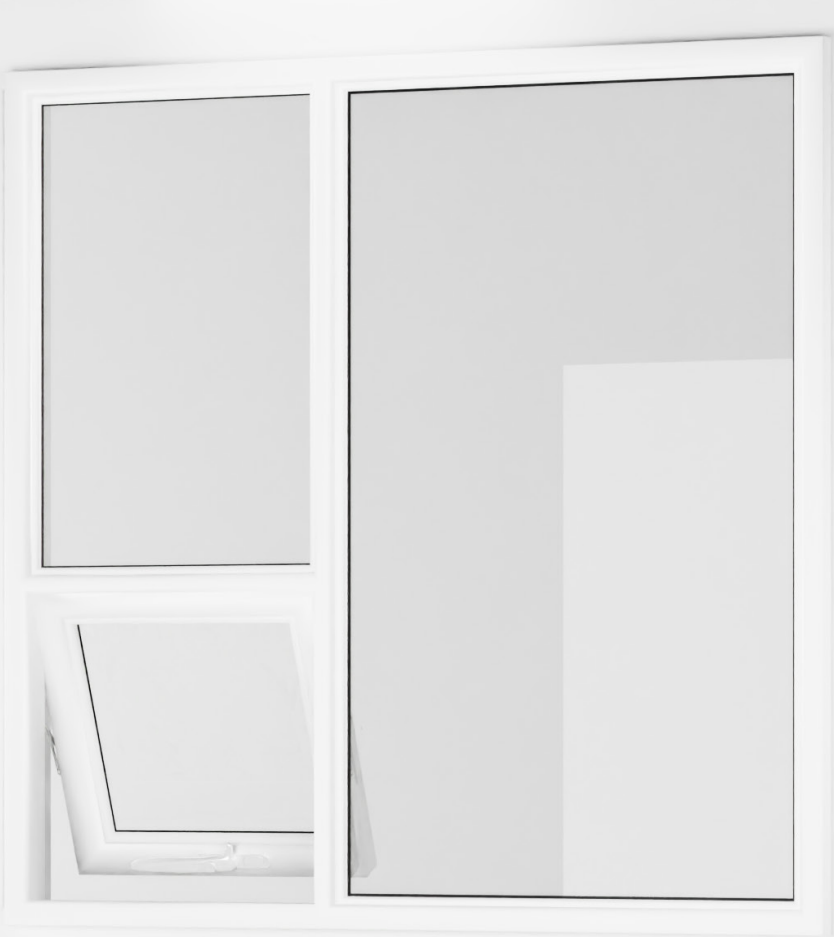




INSTALLMASTERS UPVC WINDOW

TESTING AND EVALUATION RESULTS



TEST	CLASS : CW SPECIFICATIONS	TEST RESULTS	GRADE OR COMMENT
OPERATING FORCE	Canadian requirements: Force to initiate motion: Normal use≤155N Force to maintain motion:Normal use≤135N AAMA/WDMA/CSA101/1.S.2/A440-17, clause 9.3.1 & ASTM E2068-00 (Reapproved 2022)	Measured to initiate:80N Measured to maintain:65N	Passed
AIR LEAKAGE RESISTANCE	$Q_{inf} \& ex f \leq 0.5 \text{ L}/(\text{s}\cdot\text{m}^2) @ 75 \text{ Pa}$ AAMA/WDMA/CSA 101/1.S.2/A440-17 , clause 9.3.2 & ASTM E283/283M-19	$Q_{inf} = 0.027 \text{ L}/(\text{s}\cdot\text{m}^2) @ 75 \text{ Pa}$ $Q_{ex f} = 0.036 \text{ L}/(\text{s}\cdot\text{m}^2) @ 75 \text{ Pa}$	Passed
WATER PENETRATION RESISTANCE	Water-spray rate:3.4 L/(m²·min) Including 4 cycles(Each consists of 5 minutes with the pressure applied and 1 minutes with the pressure released) No water infiltration under a minimum pressure differential of 220 Pa AAMA/WDMA/CSA 101/1.S.2/A440-17 , clause 9.3.3 & ASTM E547-00(2016)	No water infiltration under a pressure differential of 540 Pa	PG 75
UNIFORM LOAD DEFLECTION	Deflection at ±1440 Pa(Design Pressure) AAMA/WDMA/CSA 101/1.S.2/A440-17 , clause 9.3.4 & ASTM E330/E330M-14(2021)	Net deflection measured on the mullion 8.09 mm@+1440 Pa -8.39 mm@-1440 Pa Deflection limit : $1590/175 = 9.09 \text{ mm}$	PG 30
UNIFORM LOAD STRUCTURAL	Permanent deformation≤0.3% of the member span at ±2160Pa(Stuctural Test Pressure) AAMA/WDMA/CSA 101/1.S.2/A440-17 , clause 9.3.4 & ASTM E330/E330M-14(2021)	Maximum permanent deformation measured on the mullion: 0.18 mm@+2160 Pa -0.21 mm@-2160 Pa Allowed≤1590 x 0.3%=4.77 m	PG 30
FORCED ENTRY RESISTANCE	All windows shall be tested according to ASTM F588-17(Grade10,minimum) AAMA/WDMA/CSA 101/1.S.2/A440-17 , clause 9.3.5	Grade 10 T1=5min,L1=667N,L2=333N	Grade 10
AWNING, HOPPER, PROJECTED HARDWARE LOAD	Load 140N Deflection limit:: 38.3 · A AAMA/WDMA/CSA 101/1.S.2/A440-17, clause 9.3.6.5.5	Deflection =3.720mm Deflection limit: $38.3 \times 0.966 = 37.00 \text{ mm}$	Passed
THERMO- PLASTIC CORNER WELD	The break shall not extend along the entire weld line AAMA/WDMA/CSA 101/1.S.2/A440-17, clause 9.3.6.2	Load to cause breakage: Frame : 965N Sash : 780N	Passed
FORCED ENTRY RESISTANCE	All windows shall be tested according to ASTM F588-17(Grade10,minimum) AAMA/WDMA/CSA 101/1.S.2/A440-17, clause 9.3.5	Grade 10 T1=5min	Grade 10

CONCLUSION

The G72 Series Window Class CW tested and described herein achieved the overall performance requirements of PG 30 when tested in accordance with NAFS-17.



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Energy Performance Ratings
Évaluation des propriétés énergétiques

U-Factor Facteur-U 1.18 W/m ² •K	Solar Heat Gain Coefficient Coefficient de gain de chaleur solaire 0.14
Energy Rating Rendement énergétique 22	Visual Transmittance Transmission visible 0.23

InstallMasters Corporation
Triple X Operable Awning
Vinyl frame, triple glaze, Low-e coating (e=0.022, S3, S5)
Krypton/air filled (both cavities)
NR14216-47598879-ES5



Energy performance and visual transmittance ratings certified to **CSA A440.2-19**. Ratings are determined for a fixed set of environmental conditions and a specific product. Certification agency does not recommend or warrant product for any specific use.

Les taux de performance énergétique et de transmission visible sont certifiés **CSA A440.2-19**. Les taux sont déterminés selon une série de conditions environnementales fixes et une taille de produit particulière. L'agence de certification ne recommande ni ne garantit le produit aux fins d'utilisation particulière.

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Energy Performance Ratings
Évaluation des propriétés énergétiques

U-Factor Facteur-U 0.91 W/m ² •K	Solar Heat Gain Coefficient Coefficient de gain de chaleur solaire 0.26
Energy Rating Rendement énergétique 35	Visual Transmittance Transmission visible 0.44

InstallMasters Corporation
Triple X Fixed Window
Vinyl frame, triple glaze, Low-e coating (e=0.022, S3, S5)
Krypton/air filled (both cavities)
NR14216-47598879-ES5



Energy performance and visual transmittance ratings certified to **CSA A440.2-19**. Ratings are determined for a fixed set of environmental conditions and a specific product. Certification agency does not recommend or warrant product for any specific use.

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