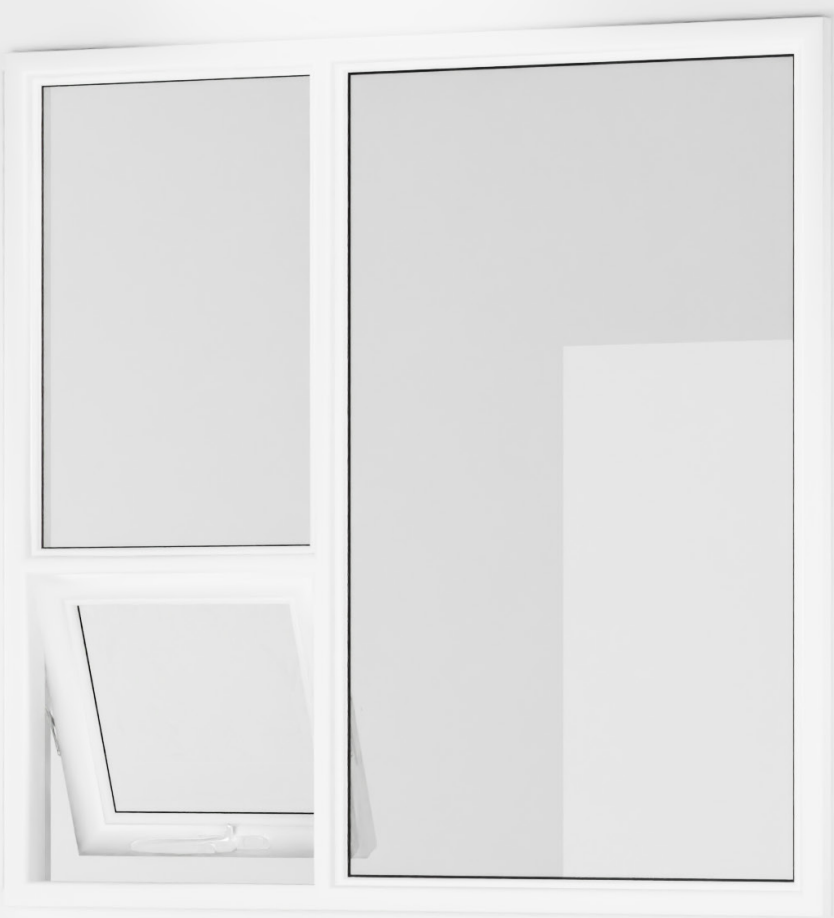




# INSTALLMASTERS UPVC WINDOW

## 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.



#### WEBSITE



installmasters.ca

#### EMAIL

info@installmasters.ca

#### LOCATION

Unit 2, 290 Industrial Drive,  
Saint John, NB E2R 1A5

#### PHONE

(506)898-1879  
877 3718808 Ext: 101

(506)261-7152  
877 3718808 Ext: 102

#### FOLLOW US



INSTAGRAM



FACEBOOK



LINKEDIN