

STEEL DOOR TEST RESULTS

TEST	RESULTS			RATING
AIR INFILTRATION ASTM E283 Air Infiltration Around Edges of Door Panels Shall Not Exceed $11.6 \times 10^{-4} \text{ m}^3/\text{s}$ Per Meter of Crack Length	Door with Full Lite	Measured Value	Maximum Air Infiltration	
	Total Crack Length	5.842 m (19.17 ft.)		
	Infiltration Rate (Per CGSB-82.1-M88)	0.087 m ³ /hr/m (0.016 cfm/ft.)	4.2 m ³ /hr/m (2.5 cfm/ft)	Pass
	Infiltration Rate (Per AAMA/WDMA/CSA 101/I.S.2/A440-05)	0.072 L/s•m ² (0.014 cfm/ft ²)	6.0 L/s•m ² (1.2 cfm/ft ²)	Pass
	Door with No Lite	Measured Value	Maximum Air Infiltration	
	Total Crack Length	5.842 m (19.17 ft.)		
	Infiltration Rate (Per CGSB-82.1-M88)	0.23 m ³ /hr/m (0.042 cfm/ft.)	4.2 m ³ /hr/m (2.5 cfm/ft)	Pass
	Infiltration Rate (Per AAMA/WDMA/CSA 101/I.S.2/A440-05)	0.19 L/s•m ² (0.038 cfm/ft ²)	6.0 L/s•m ² (1.2 cfm/ft ²)	Pass
WATER RESISTANCE ASTM E331 No Water Shall Pass the Interior Face of the Door Unit when Tested for Five Minutes with no Pressure Differential Applied	Door with Full Lite			
	CGSB-82.5-M88	AAMA/WDMA/CSA 101/I.S.2/A440-05		
	5 Minute Test Period using a Pressure Differential of 0 Pa (0.0 psf.)	15 Minute Test Period using a Pressure Differential of 0 Pa (0.0 psf.)		
	No Water Leakage Observed	No Water Leakage Observed		
	Pass	Pass (LW Rating)		
	Door with No Lite			
	CGSB-82.5-M88	AAMA/WDMA/CSA 101/I.S.2/A440-05		
	5 Minute Test Period using a Pressure Differential of 0 Pa (0.0 psf.)	15 Minute Test Period using a Pressure Differential of 0 Pa (0.0 psf.)		
	No Water Leakage Observed	No Water Leakage Observed		
	Pass	Pass (LW Rating)		

CONCLUSION

- Based on the Test Results, the 946mm Wide x 2083mm High Inswing Insulated Steel Door Described in this Report Met the Air and Water Tightness Performance Requirements Specified in CGSB-82.1-M88 "Insulated Steel Doors", AAMA/WDMA/CSA 101/1.5.2/A440-05 "Standards/Specifications for Windows, Doors and unit Skylights."

PAINT PERFORMANCE TEST RESULTS

TEST NAME	METHOD USED	RESULTS ACHIEVED
Accelerated UV Water Exposure Test	ASTM G-53 (340 UV Tubes) Total Exposure: 2000h Cycles 4h UV/40°C Measuring Procedure for: <ul style="list-style-type: none"> Colour Change: ASTM D - 2244 Gloss Retention: ASTM D - 523 	Colour Expressed in ΔE Equal to $1.0=0.5$ Gloss Retention: Not Less than 90% of Initial Gloss Preserved No Blistering, No Chalking
Adhesion	ASTM G - 3359	100% Adhesion
Hardness	ASTM G - 3363	HB'+
Taber Abrasion Resistance	ASTM D - 4060 CS-10 Wheels 1000g of Load (1000 Wear Cycles)	Weight Loss: Less than 150mg
Effect of Household Chemicals	ASTM D - 1308 24h Immersion Test in 100% Detergent 24h Covered Spot Tests for Ketchup, Mustard, Coffee, Black Tana Shoe Polish	Detergent Tests: No Change in Appearance and Adhesion of the Finish Spot Tests: No Change, Only Slight Trace of Shoe Polish
Impact Resistance	ASTM D-4226 Test Specimen: Geon Canada, Grade 6935 Thickness 50 & 80 Mills	Impact Direct: Minimum 1.2lb x inch/mil: Pass
Heat Build-Up	ASTM D-4803	Heat Build-Up Does Not Exceed 32.5°C for Horizontal Position of Test Specimen