

# Certificate of Compliance

**Certificate:** 2397728 **Master Contract:** 230398  
**Project:** 2397728 **Date Issued:** December 15, 2011  
**Issued to:** Fabelta Aluminum Inc.  
 3840 Georges Corbeil  
 Terrebonne, QC J6X 4J4  
 Canada  
 Attention: Martin Lortie

*The products listed below are eligible to bear the CSA Mark shown*



*M. L. Diallo*

**Issued by:** M. L. Diallo, Ph.D., Eng.

**PRODUCTS**

**CLASS 8029 02** - BUILDING PRODUCTS AND MATERIALS- Windows  
**CLASS 8029 12** - BUILDING PRODUCTS AND MATERIALS- Windows - (Harmonized Standard)

**• Aluminum window certified to CAN/CSA A440-00:**

Model/Series	Type	Size tested mm x mm	Performance Ratings				
			A3	B7	C3/C4/C5 <sup>1</sup>	F20	S1/S2 <sup>2</sup>
1015-0712, Series ENNOVA 7 1/2" Flush Frame	Double Slider	1600 x 1000	A3	B7	C3/C4/C5 <sup>1</sup>	F20	S1/S2 <sup>2</sup>

<sup>1</sup>C3 (3 mm glazing on interior sashes); C4 (4 mm glazing on interior sashes); C5 (6 mm glazing on interior sashes)

<sup>2</sup>S1 (Insect screen with fibreglass mesh); S2 (Insect screen with aluminum mesh).



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• **Aluminum window certified to Harmonized Standard AAMA/WDMA/CSA 101/LS.2/A440-08**

Model/Type	Primary product designator	Positive DP Pa (psf)	Negative DP Pa (psf)	Water Resistance Test Pressure Pa (psf)	Canadian Air Inf/Ex Level
1015-0712, ENNOVA Class R-PG45 <sup>1</sup> : Size tested Series Double Slider 1600 x 1100 mm (63 x 43 in)-HS 7 1/2" Flush Frame		2160 (45.0)	-2160 (-45)	730 (15.0)	A3 Level
	Class R-PG60 <sup>2</sup> : Size tested 1600 x 1100 mm (63 x 43 in)-HS	2880 (60.0)	-2880 (-60.0)	730 (15.0)	A3 Level

DP= Design Pressure

Inf/Ex= Infiltration/Exfiltration

The above performance ratings are based on the following:

<sup>1</sup>3 mm glazing on interior sashes;

<sup>2</sup>5 mm glazing on interior sashes.



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• **Aluminum window certified to CSA Standard A440.2-09:**

Model/Type	U-Factor (W/m <sup>2</sup> .k)	Solar Heat Gain Coefficient	Visual Transmittance	ER
1015-0712, ENNOVA Series Double Slider 7 ½" Flush Frame	1.15 to 1.63	0.38 to 0.53	0.40 to 0.55	28 to 41

The simulation data are based on:

**Triple**

**Glass 1:** Clear, Guardian; Clear, AGC

**Glass 2:** Clear, Guardian; HER#3(E=0.107); Clear, AGC

**Glass 3:** Comfort EPS#5 (E=0.148); Clear, Guardian; Comfort E2#5(E=0.204)

**Spacer:** TP-D; TS-D

**Gap 1:** Air; 90%Argon

**Gap 2:** Air

**Grid:** Georgian (8.30 x 18.00mm); Rectangular (8.00 x 16.00mm); Rectangular (6.00 x 8.00mm); Tubular (8.25mm); None

**SDL:** SDL (7/8"); SDL (1 3/4")

**NOTE:** In general **low ER values** represent option with air fill in both cavities; Clear, AGC for glass 1 and 2; Comfort E2#5(E=0.204) for glass 3; with addition of Grids  $\geq 1"$

**Highest values** represent option with 90% Argon fill in gap1; Clear, Guardian for glass 1 ; HER#3(E=0.107) for glass 2; Comfort E2#5(E=0.204) for glass 3; no divider.



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Notes:

**This Certification does not extend to the substitution of materials or changes in the construction or composition of products, nor factory location without CSA prior written agreement.**

**APPLICABLE REQUIREMENTS**

CAN/CSA A440-00

Windows

CSA Standard A440.2-09

Fenestration energy performance

AAMA/WDMA/CSA101/I.S.2/A440-08  
windows, doors, and skylights

NAFS-North American Fenestration Standard/Specification for