



Certificate of Compliance

Certificate: 80100551

Master Contract: 302368

Project: 80100551

Date Issued: 2021-12-28

Issued To: Leawood windows and doors Group Co., Ltd.
Guanghan Economic Development Zone
Guanghan, Sichuan, 618312
China

Attention: Kensi Song

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

Issued by: *Lucas Yang*
Lucas Yang



PRODUCTS

CLASS - C802912 - BUILDING PRODUCTS AND MATERIALS- Windows (Harmonized Standard)

Wood-clad Aluminum Windows tested to the Harmonized Standard AAMA/WDMA/CSA 101/I.S.2/A440-2011&A440S1-17:

Product Type	Primary product designator	Positive Design Pressure Pa (~psf)	Negative Design Pressure Pa (~psf)	Water Penetration Resistance Test Pressure Pa (~psf)	Can. Air Infiltration / Exfiltration
MLN80 series Tilt & Turn and fixed window - Composite Unit	Class CW - PG65: Size tested 2700 x 1800 mm (106.30 x 70.87in) - Type DAW/FW	3120 (65.16)	-3120 (- 65.16)	540 (11.28)	A3 Level



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Thermal performance to CSA Standard A440.2-19:

MLN80 series Tilt & Turn window		
Mft Product Code	6mm YNE0145#2/ Arg90 / 6mm YNE0145#4/ Arg90 /6mm CLR, ms	6mm YNE0145#2/ Arg90 / 6mm YNE0145#4/ Arg90 /6mm EA, ms
Product Number	001	002
Gap1 (mm)	9.0	9.0
Gap2 (mm)	9.0	9.0
Gap3 (mm)	-	-
Gap fill 1	ARG	ARG
Gap fill 2	ARG	ARG
Gap fill 3	-	-
Emissivity Surface 2	0.050	0.050
Emissivity Surface 3	-	-
Emissivity Surface 4	0.050	0.050
Emissivity Surface 5	-	-
Emissivity Surface 6	-	0.146
Emissivity Surface 7	-	-
Tint	CL	CL
Spacer	TS-D	TS-D
Grid Type	N	N
Grid Size	-	-
U-Factor (W/m²-K)	1.38	1.28
SHGC	0.22	0.21
VT	0.34	0.32
Air Infiltration (L/S- m ²)	0.34	0.34
Air Exfiltration (L/S- m ²)	0.22	0.22
ER	22	24



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MLN80 series fixed window		
Mft Product Code	6mm YNE0145#2/ Arg90 / 6mm YNE0145#4/ Arg90 /6mm CLR, ms	6mm YNE0145#2/ Arg90 / 6mm YNE0145#4/ Arg90 /6mm EA, ms
Product Number	001	002
Gap1 (mm)	9.0	9.0
Gap2 (mm)	9.0	9.0
Gap3 (mm)	-	-
Gap fill 1	ARG	ARG
Gap fill 2	ARG	ARG
Gap fill 3	-	-
Emissivity Surface 2	0.050	0.050
Emissivity Surface 3	-	-
Emissivity Surface 4	0.050	0.050
Emissivity Surface 5	-	-
Emissivity Surface 6	-	0.146
Emissivity Surface 7	-	-
Tint	CL	CL
Spacer	TS-D	TS-D
Grid Type	N	N
Grid Size	-	-
U-Factor (W/m²-K)	1.26	1.15
SHGC	0.25	0.24
VT	0.40	0.38
Air Infiltration (L/S-m ²)	0.34	0.34
Air Exfiltration (L/S-m ²)	0.22	0.22
ER	26	28

Notes:

- 1) For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the CSA test reports;
 - 2) 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 approval;
 - 3) This certification program does not include interior windows or storm windows (except when incorporated in dual windows);
- This certification program does not include interior doors; vehicular-access doors (garage doors); curtain wall and storefront; storm doors (except when incorporated in dual doors); commercial entrance systems; revolving doors; site-built door systems; or commercial steel doors rated per SDI A250.8.



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APPLICABLE REQUIREMENTS

AAMA/WDMA/CSA101/I.S.2/A440-11 NAFS-North American Fenestration Standard/Specification for windows, doors, and skylights

CSA A440.2-19 - Fenestration Energy Performance

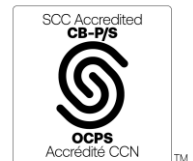
A440S1-17 Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, NAFS - North American Fenestration Standard/Specification for windows, doors, and skylights

MARKINGS

Refer to descriptive report.

Notes:

Products certified under Class C802912 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

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***The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.***

Product Certification History

Project	Date	Description
80100551	2021-12-28	Certification of Wood-clad Aluminum window for physical in accordance to AAMA/WDMA/CSA 101/I.S.2/A440-11 & A440S1-17 and energy performance in accordance to CSA A440.2-19, model: MLN80 series Tilt & Turn and fixed window - Composite Unit.