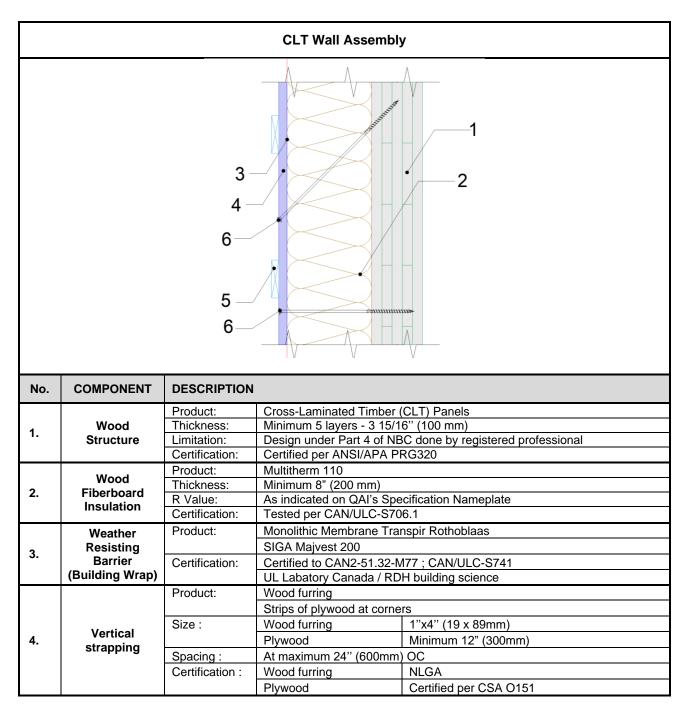


# QAI LISTING REC799-1 Fab Structures Inc. WALL PANELS evaluated under CSA A277 & Parts 4 & 9 of Ontario Building Code



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5.	Horizontal Strapping (Optional)	Product:	Wood furring		
		Size :	1"x4" (19 x 89mm)		
		Spacing:	At maximum 24" (600mm) OC		
		Fasteners:	2 screws per vertical strapping : #8 x 1-1/2"		
		Certification:	Wood furring	NLGA	
6.	Screws	Product:	8Øx300 ASSY Ecofast		
		Spacing :	@ 90° @ 1200mm oc & @ 45° @ 1200mm oc Stagger screws		
		Certification:	NRC / CCMC13677-R		

# WINDOWS, DOORS AND SKYLIGHTS INSTALLATIONS:

Structural panels included in this Listing may have windows, doors and skylights conform to AAMA/WDMA/CSA 101/I.S.2/A440, NAFS and CSA A440S1, "Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440.

The energy performance of windows, doors and skylights is determined in accordance with CSA A440.2.

Structural wood frame are sealed with SIGA Rissan tape and Wigluv. Airtightness between walls structure and window/doors is performed with SIGA Fentrim IS 20 on the inside and SIGA Frentrim 230 on the Outside.

## **EXCLUSIONS:**

Fire resistive assemblies and acoustical performance is not covered under this listing.

All wall components, interior partitions, electrical installations, plumbing and gas/propane systems, other than those described above are outside of the scope of this listing. For floor and roof panels refer to dedicated section.

This listing does not include wall panels intended to be used in multi-residential buildings such as hotels and motels, requiring shared egress facilities. It does not address panelized products for use in industrial, commercial, and office buildings, stores, hospitals, classrooms, and daycares and/or any buildings designed with multiple major occupancies.

#### **CONDITIONS OF VALIDITY**

This listing is based on the assumption that no fundamental changes are made to the product described in this listing and engineering designs.

The performance of the panels could be affected by excessive humidity. Like other wood products, these panels must be protected from exposure to moisture/rain.



3.

4.

(Alternate)

**Wood Frame** 

Product

Client: Fabs Structures Inc. Listing No.: REC799-1, Edition 2 Date: September 20, 2024

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## **QAI LISTING REC799-1**

#### Fab Structures Inc.

WALL PANELS evaluated under CSA A277, Part 9 of Ontario Building Code & Parts 9 and 11 of Quebec Construction Code, Chapter I – Building.

#### **High Performance Wall Assembly** outside 5 (1) inside COMPONENT **DESCRIPTION** No. Product: Dimensional Lumber Size: 2"x3" (38 x 64 mm) or 2"x4" (38 x 89 mm) Maximum 16" (400mm) OC Interior Wood Spacing: 1. Furring / Certification: **NLGA Service Cavity** ASSY Ecofast 6mm x 140mm (min.), Countersunk Partially Threaded Fasteners: Structural Wood Screws 2 to 3 screws per vertical furring to studs 5 screws at floor landing Product: SIGA Majrex 200 Air & Vapour Evaluated to CAN/CGSB-51.33-M, CAN/ULCS741 2. Certification: **Barrier RDH Building Science** Product: **OSB Panel** 7/16" (11mm) Thickness: CSA 0437.0 3. Sheathing Certification: 0.131" (3.3mm) shank diameter x 2.5" (63mm) shank length Nails Fasteners: 4" (100mm) on perimeter & 12" (300mm) on center Product: BP Enermax Insulating Fiberboard Air & Vapour Thickness: 1/2" (12.5mm) 2. Barrier + Certification: **CAN/ULC S706.1** & Sheathing

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Dimensional Lumber (SPF #2 or better)

CAN/ULC S742/S741 or Equivalent CCMC report

ASTM E96/E96M, CAN/CGSB-51.33-M or Equivalent CCMC report



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	(Wall Studs &	Size	2"x6" (38 x 140 mm) or			
	Wall Plates)	0. 10 :	2"x8" (38 x 184 mm)			
		Stud Spacing	Maximum 16" (400mm) OC			
		Certification	NLGA			
		Fasteners	ASSY Ecofast 6mm x 140mm, Countersunk Partially Threaded Structural			
			Wood Screws, and			
			3.25" (82mm) Nails			
			1 screw and 3 end nails per stud to top wall plates			
Limitation			1 screw and 3 end nails per stud to bottom wall plates The use of Structural Composite Lumber (SCL), Design & and Installations			
		Limitation	of wall panels outside of OBC / QCC Section 9.23 is done by registered			
		Product	professionals under Part 4  Mineral Wool Insulation or Hemp Fibre Insulation			
	Insulation	R Value	As indicated on QAI's Specification Nameplate			
		Certification	CAN/ULC-S702, or			
		Cortinoation	Equivalent CCMC report			
		Product	Wood Fiber Insulating Boards			
5.	Rigid	R value	Minimum R4			
	Insulation	Certification	CAN/ULC-S706, or			
6.			Equivalent CCMC report			
	Weather	Product:	Monolithic MembraneTranspir Rothoblaas			
7.	Resisting		SIGA Majvest 200			
'.	Barrier	Certification:	Certified to CAN2-51.32-M77; CAN/ULC-S741			
	(Building Wrap)		UL Labatory Canada / RDH building science			
	Vertical strapping	Product:	Wood furring			
			Strips of plywood at corners			
		Size :	Wood furring	1"x4" (19 x 89mm) or		
				2"x4" (38 x 89 mm)		
			Plywood	Minimum 12" (300mm)		
		Spacing :	At maximum 16" (400mm) OC			
		Fasteners:	ASSY CSK 8mm x 140mm (min.), Countersunk Fully Threaded Self-			
8.			Tapping Wood Scrfew			
J	Horizontal Strapping (Optional)	0	Screws spaced maximum 400mm to studs			
		Certification:	Wood furring	NLGA		
		Decalesate	Plywood	Certified per CSA O151		
		Product:	Wood furring			
		Size :	1"x4" (19 x 89mm)			
		Spacing :	At maximum 16" (400mm) OC			
		Fasteners :	2 screws per vertical strapping : #8 x 1-1/2"  Wood furring NLGA			
		Certification:	vvood turring	INLGA		

# WINDOWS, DOORS AND SKYLIGHTS INSTALLATIONS:

Structural panels included in this Listing may have windows, doors and skylights conform to AAMA/WDMA/CSA 101/I.S.2/A440, NAFS and CSA A440S1, "Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440.

The energy performance of windows, doors and skylights is determined in accordance with CSA A440.2.

Structural wood frames are sealed with SIGA Rissan tape and SIGA Wigluv. Airtightness between walls structure and window/doors is performed with SIGA Fentrim IS 20 on the inside and SIGA Frentrim 230 on the Outside.

# **EXCLUSIONS:**

Fire resistive assemblies and acoustical performance is not covered under this listing.

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All wall components, interior partitions, electrical installations, plumbing and gas/propane systems, other than those described above are outside of the scope of this listing. For floor and roof panels refer to dedicated section.

This listing does not include wall panels intended to be used in multi-residential buildings such as hotels and motels, requiring shared egress facilities. It does not address panelized products for use in industrial, commercial, and office buildings, stores, hospitals, classrooms, and daycares and/or any buildings designed with multiple major occupancies.

## **CONDITIONS OF VALIDITY**

This listing is based on the assumption that no fundamental changes are made to the product described in this listing and engineering designs.

The performance of the panels could be affected by excessive humidity. Like other wood products, these panels must be protected from exposure to moisture/rain.



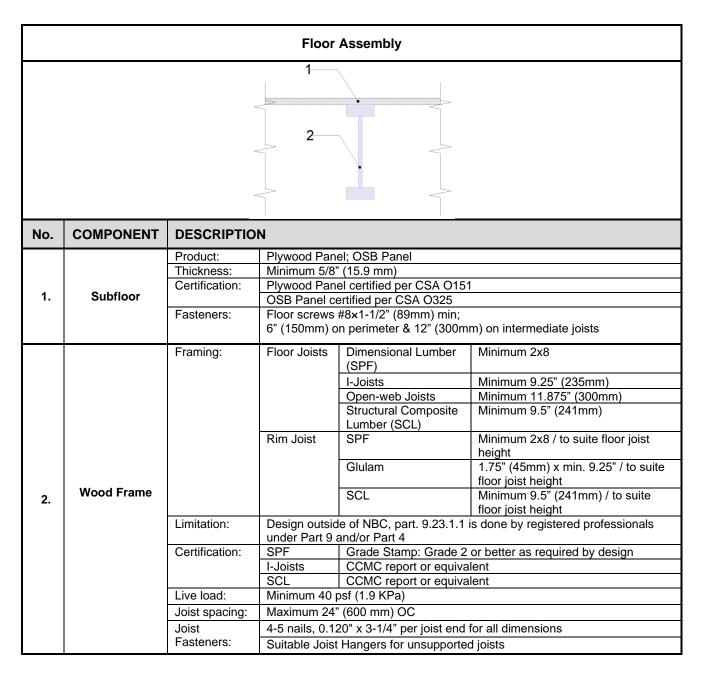
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# **QAI LISTING REC799-1**

#### Fab Structures Inc.

FLOOR PANELS evaluated under CSA A277, Part 9 of Ontario Building Code and Part 9 of Quebec Construction Code, Chapter I – Building.



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#### **EXCLUSIONS:**

Fire resistive assemblies and acoustical performance is not covered under this listing.

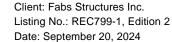
All gas systems components, plumbing and electrical equipment other than those described above are outside of the scope of this listing. For wall and roof panels refer to dedicated section.

This listing does not include panels intended to be used in multi-family dwellings requiring fire and sound separation or shared egress facilities, hotels and motels. It does not address panelized products for use in commercial, and office buildings, stores, hospitals, classrooms, and daycares and/or any buildings designed with multiple major occupancies.

#### **CONDITIONS OF VALIDITY**

This listing is based on the assumption that no fundamental changes are made to the product described in this listing and engineering designs.

The performance of the panels could be affected by excessive humidity. Like other wood products, these panels must be protected from exposure to moisture/rain.



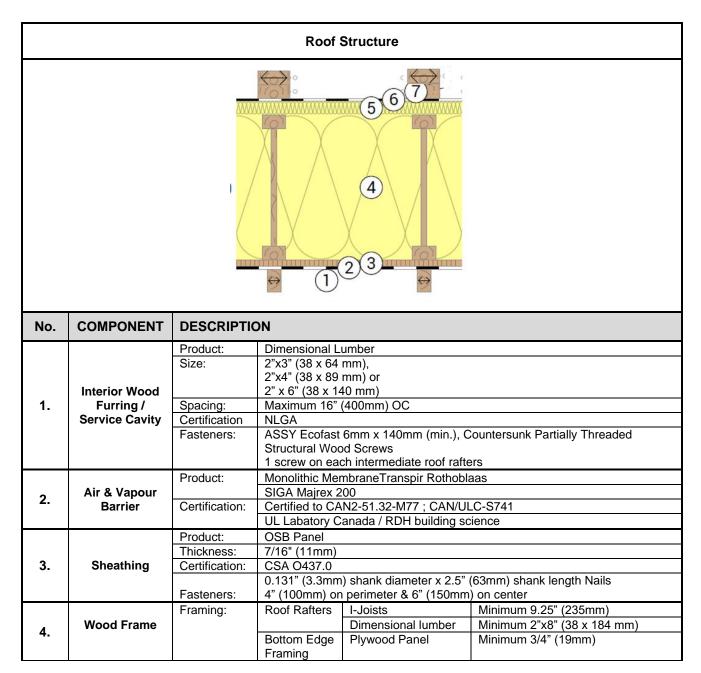
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## **QAI LISTING REC799-1**

## Fab Structures Inc.

ROOF PANELS evaluated under CSA A277, Parts 4 & 9 of Ontario Building Code and Parts 4, 9 & 11 of Quebec Construction Code, Chapter I – Building.



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	1	1	Top Edge	Glulam	Minimum 1.75" x 16" (44mm x	
			Framing	Glulam	406mm) / to suit rafter height	
			Blocking	Dimensional Lumber	2"x4" (38 x 89 mm) maximum	
			Blocking	Dimensional Lumber	1859mm from top/bottom edge	
			Ridge Board	Structural Composite		
			Triage Board	Lumber (SCL)	attachments of SCL, done under	
				Lambor (GGL)	Part 4 of NBC, is approved by a	
					registered professional engineer	
		Limitation:	The use of SCL, Design and Installations of roof panels outside of OBC /			
			QCC Section 9.23 is done by registered professionals under Part 4			
		Certification	I-Joists	CCMC report or equi		
			Plywood			
			Glulam			
			SCL	CCMC report or equivalent		
		Rafter spacing:	Maximum 24" (600 mm) OC			
		Rafter	Suitable Hangers or Connectors			
		Fasteners:	Mineral Wool Insulation or Hemp Fiber Insulation			
		Product				
	Insulation	R Value	As indicated o	ameplate		
		Certification	CAN/ULC-S702, or			
			Equivalent CCMC report			
	Rigid Insulation	Product	Wood Fiber Insulating Boards			
5.		R value	Minimum R4			
J		Certification	CAN/ULC-S706, or			
			Equivalent CCMC report			
6.	Roofing Substrate	Product:	Pro Clima Solitex Mento Plus			
0.		Certification:	Certified to CAN/CGSB-51.32-M77			
		Product:	Wood furring			
		Size :	Wood furring		38 x 89mm)	
	Parallel	Spacing :	At maximum 24" (400mm) OC			
	strapping	Fasteners:	ASSY Ecofast 8mm x 10mm, Countersunk Partially Threaded Self-Tapping			
	(Air space)  Perpendicular Strapping		Wood Screw		_	
7.				d maximum 400mm to	rafters	
		Certification :	Wood furring	NLGA		
		Product:	Wood furring			
		Size :	2"x4" ( 38 x 89mm)			
		Spacing :	At maximum 16" (400mm) OC 2 nails per vertical strapping : 3.25" (82mm) Nails			
		Fasteners :			8∠mm) Naiis	
		Certification:	Wood furring	NLGA		

# **SKYLIGHTS INSTALLATIONS:**

Structural panels included in this Listing may have skylights conform to AAMA/WDMA/CSA 101/I.S.2/A440, NAFS and CSA A440S1, "Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440.

The energy performance of skylights is determined in accordance with CSA A440.2.

Structural wood frame are sealed with SIGA Rissan tape and Wigluv. Airtightness between walls structure and window is performed with SIGA Fentrim IS 20 on the inside and SIGA Frentrim 230 on the Outside.

## **EXCLUSIONS:**

Fire resistive assemblies and acoustical performance is not covered under this listing.

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All electrical installations, plumbing and gas/propane systems, other than those described above are outside of the scope of this listing. For wall and floor panels refer to dedicated section.

This listing does not include wall panels intended to be used in multi-residential buildings such as hotels and motels, requiring shared egress facilities. It does not address panelized products for use in industrial, commercial, and office buildings, stores, hospitals, classrooms, and daycares and/or any buildings designed with multiple major occupancies.

# **CONDITIONS OF VALIDITY:**

This listing is based on the assumption that no fundamental changes are made to the product described in this listing and engineering designs.

The performance of the panels could be affected by excessive humidity. Like other wood products, these panels must be protected from exposure to moisture/rain.