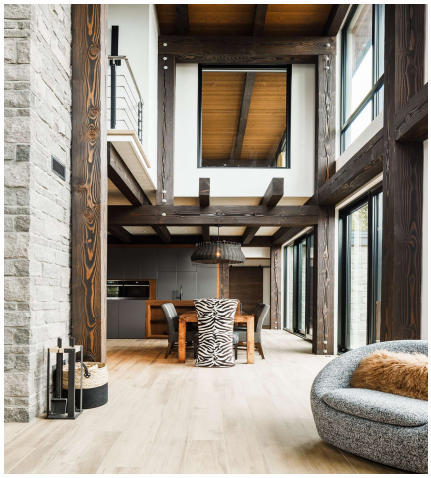
POST & BEAM STRUCTURES



MASTER IN THE DESIGN AND PRODUCTION OF FULLY WOODEN-FRAMED HOUSES

Embois was born out of the dream of building dwellings that live in perfect harmony with their natural environment. Our evolutionary design method allows us to meet your demands while ensuring a correct, perfect and even scalable implementation during your project. The final result produces a place where the house and its environment merge.

OUR STRENGTHS

- Expertise in the design and manufacture of wooden structures made of beams and columns, which favor open spaces, high ceilings and oversized windows.
- Collaboration on the creation of custom plans.
- Optimization and reduction of construction costs.
- Local manufacturing at our Lachute plant.
- Collaboration on complete personalized design and architectural elements for each client.

EMBOIS

EMBOIS INC. 346, rue Hamford, suite 1400 Lachute, QC, J8H 3P6

(450)562-7958 www.embois.com

POST & BEAM STRUCTURES

TECHNICAL DATA SHEET

INNOVATION IN TIMBER FRAME

Embois structures stand out for their expertise in creating structural solid wood skeleton frames, favoring the use of high-quality #1 Douglas fir, with the possibility of designing heartless structures. Embois distinctive aesthetic, with its rustic and contemporary finish, is highly valued by wood enthusiasts and connoisseurs.

An **important advantage** of our technique becomes evident during the assembly of the structure on the construction site, as it is done efficiently in just a few days. This labor-saving approach during assembly allows for a **reduction in construction costs for the client**. Even novice enthusiasts in wooden structure assembly can appreciate the simplicity of the process, reminiscent of a metal construction game, while highlighting the natural beauty of wood.

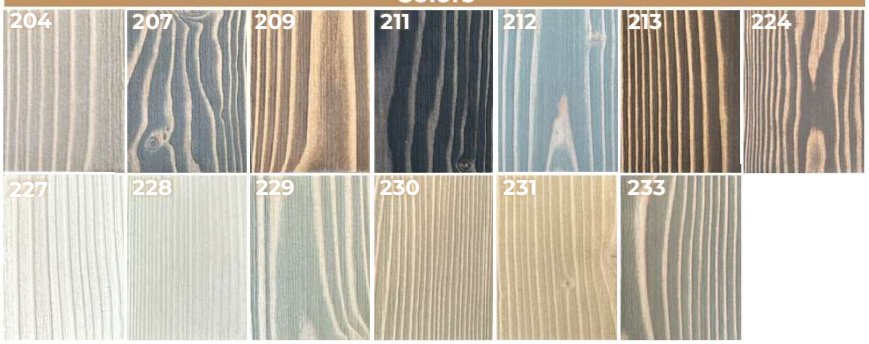
TECHNICAL ASPECTS

The Embois structures are designed to seamlessly integrate within the building envelope. They rely on a clever assembly of wood and metal, where metal plates and fasteners are discreetly concealed within the structure. The only visible hardware consists of the column nuts. Embois employs a structural system that includes columns, beams and joists, which can extend up to 40 feet in length.

	Species	Size	Actual size	Texture
Column	Douglas fir	10" X 10"	9 ½" X 9 ½"	Sanded, brushed
Beam	Douglas fir	10" X 12" and more	9 ½" X 11 ½" and more	Sanded, brushed
Joist	Douglas fir	6" X 10" and more	5 ½" X 9 ½"' and more	Sanded, brushed

Embois offers an exceptional combination of the natural beauty of wood, structural strength and ease of installation, creating unique and durable structures.

Colors



PROCEDURE TO FOLLOW FOR THE CONSTRUCTION OF AN EMBOIS BUILDING

1. Submission of architectural plans and specifications to Embois.
2. Design an Embois structural framework compatible with the plans.
3. Modify the original plans to incorporate the Embois structure.
4. Structural engineering and development of workshop plans.
5. Factory fabrication of the structure:
   - Each wooden piece is marked to indicate its orientation.
   - Metal fasteners are pre-installed on each piece.
   - Careful packaging protects the structure during handling.
6. Site preparation :
   - Positioning of metal anchors on the foundation, carried out by Embois using a total station.
7. Assembly of the Embois structure in just a few days :
   - Use of a crane or another lifting system, depending on the project size.
8. Finalize the assembly of the structure.

IMPORTANT considerations to improve and reduce project costs

- The structure should be positioned ¼ inch away from the interior wall finishes.
- Consider using a sandwich-type roof for simplified installation.
- In the case of single-family houses, there are minimal challenges for beam spans.

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