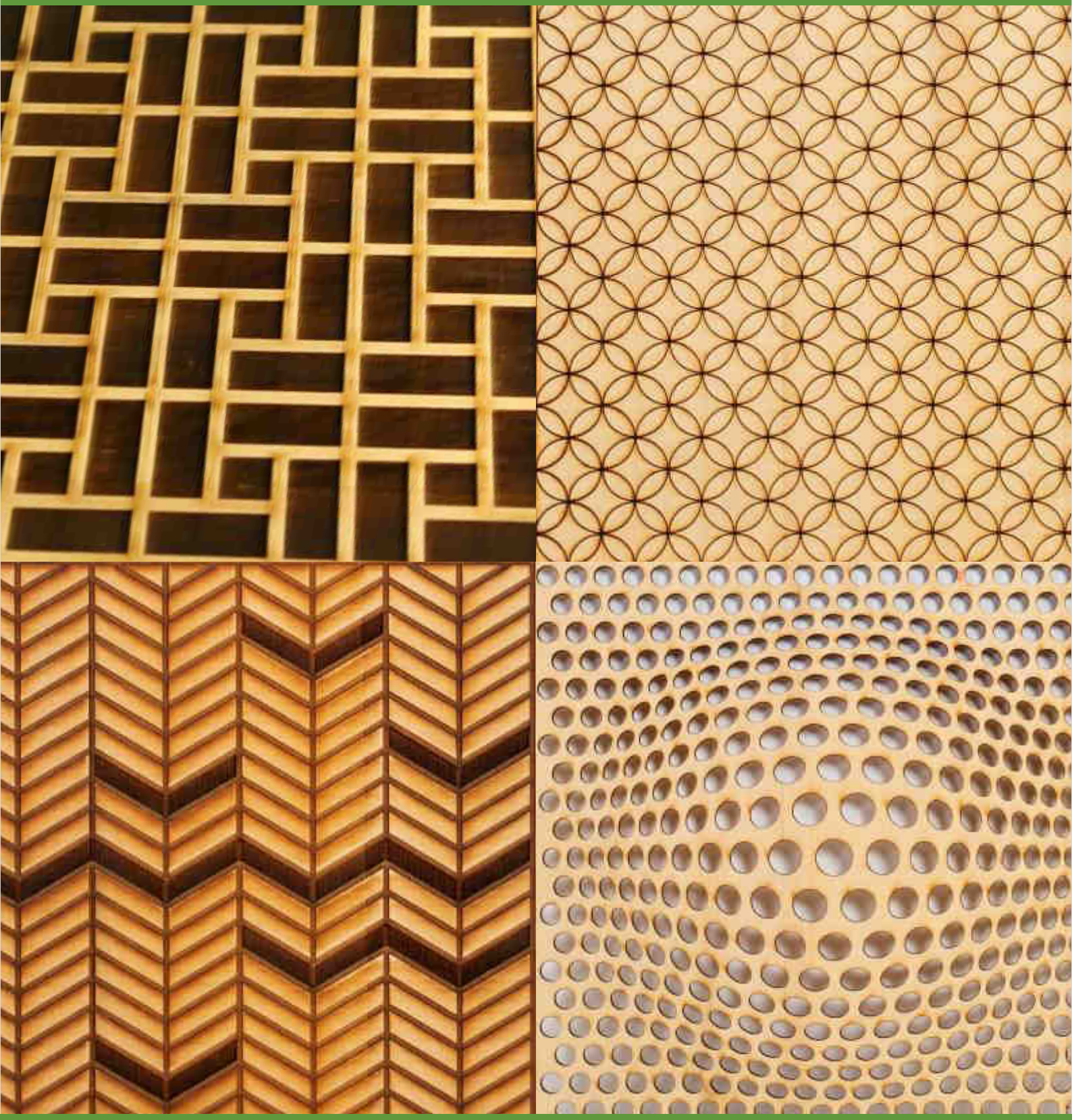
Case Study

Company: EvoWood, Gurugram
Project: Solid wood thin decorative panels

Canadian Wood
www.canadianwood.in



Canadian Wood species:

The fine art of working with wood

Manufacturer Profile

From trading in timber to making lumber as forest lessees to production of wood-based products, EvoWood is well known for its decades of experience on working with wood. A highly regarded wood engineering company located in Gurugram, it manufactures products that are unique in concept and design, and made using made using top-grade seasoned wood sourced from sustainably managed forests.

EvoWood's unique ability to design products blending aesthetics with practical utility finds high consideration in key projects across commercial, residential and hospitality sectors.

To date, every endeavour at EvoWood reflects its dedication to scientifically produce stable and durable products, while optimizing the process of manufacturing with wood.

Challenge

Veneers are used as surfaces to achieve a smooth, even finish, while lending an aesthetic appeal to the application. However, veneers have their own machining limitations and go through extensive chemical processes that may affect their durability.

An interior designer or manufacturer looking for a surface material is often limited by this choice. Also, constraints associated with using natural materials like wood – for example, moisture retention, width limitations and pricing – further add to the challenge.

Opportunity

EvoWood was convinced that engineering natural materials was a promising area to explore. After consulting with the team at FII, a solution was found in western hemlock, western red cedar and yellow cedar. The unique properties of these species helped EvoWood pursue them as ideal raw materials to make thin solid wood decorative panels – a viable substitute to veneers.

Product Trial

- Canadian wood species yellow cedar, western hemlock and western red cedar were used for manufacturing 3.5mm thick solid wood decorative panels.
- The manufacturing process is a patented one that uses specialised glues and machines to create sheets that are available in sizes up to 10 feet by 4 feet.

Key Outcomes

- A novel product format, solid wood thin decorative panels provide a suitable alternative to traditional veneers with the advantage of a natural wood appearance, while helping avoid the limitations involved in using lumber.
- Architects, interior designers, manufacturers and contractors can use these panels for several applications like cabinetry, paneling, staircases, doors and door frames and ceiling panels.
- The panels can be cut, routed, shaped and easily applied on horizontal or vertical surfaces. Available in custom dimensions, they help minimize any wastage, while optimising consumption of lumber.
- Through its innovative design the product helped further penetration of Canadian wood species in new markets/applications. They captured the interest of woodworking professionals in India and also received a positive response in Vietnam; FII Vietnam introduced the panels to its regional manufacturers with several firms interested in sourcing the product.
- Trend-setters in their category and design, these thin solid wood decorative panels won the coveted Red Dot Award for Product Design in 2019.

Why Use Canadian Wood?

Sustainable, Green Building Material
British Columbia, Canada is a world leader in sustainable forest management. The rigor of B.C.'s forest management laws is demonstrated by third-party forest certifications (PEFC/FSC).

Long-Term Performance
Wood's versatility, character and individuality are unmatched. When it is properly maintained, wood can be reused, repurposed, and reapplied to other projects. Canadian wood species produce stable lumber with consistently straight grain. The wood is easy to work, finish and glue.

Easy to Manufacture
With low to moderate density values, species like western hemlock, Douglas-fir, yellow cedar, western red cedar and Spruce-Pine-Fir (S-P-F) are all easy to face-laminate, edge-glue, and/or finger-joint.

Quality Assurance
Canadian wood species from B.C. are separated into a wide variety of grades and each grade is intended for a specific end use. Factory grades are intended for ripping or cross cutting to recover the wood's clear fibre; the clear grades help produce knot-free products in a length range of 8-20 feet. This variety of grades allows buyers to choose a quality that suits both their needs and their price considerations.

Multipurpose Applications
Because of their low tangential to radial shrinkage (T/R) ratio, softwoods typically have better stability than hardwoods. Softwoods are well suited to many applications across outdoor, interior and structural uses.

If you're interested in incorporating Canadian wood species into your product line, the 'Try Canadian Wood' initiative is an ideal way to use, experiment and understand wood's numerous advantages.

For free technical/procurement assistance write to FII India at info@canadianwood.in or call+91 2249221600.

For design inspiration and decor ideas using wood, follow us on

Canada

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Western hemlock | Douglas-fir | Yellow cedar | Western red cedar | Spruce-Pine-Fir (S-P-F)

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