

## Canadian Wood - at the forefront of sustainable housing in India



A sustainable home is one that has as little influence as is possible on the environment. This entails minimizing environmental contaminants, conserving energy, and responsibly using materials and resources while having a beneficial psychological and physical impact on its residents. Customers in India are becoming more environmentally responsible, which is driving experts in the wood sector to progressively

transition to using certified wood that has been legally procured for their projects and manufacturing.

All Canadian wood species are sourced from British Columbia (B.C.), Canada, a global leader in sustainable forest management. Canadian Wood actively promotes legally harvested and certified lumber from sustainably managed forests of B.C. Canada in the off-shore markets, including India by creating awareness and educating the woodworking industry about its five distinct species, their properties and possible applications.

### Building sustainable housing using Tongue & Groove style construction



Canada is a leader in advanced building techniques with proven expertise in building with wood. Canadian Wood engages with contractors / manufacturers in India as knowledge partners, providing practical training and sharing best practices in building with wood to them, using different techniques. One such technique is the Tongue & Groove (T & G) style of building a wooden home.

### Salient features of T & G style construction



- The T&G style of construction is a very organic and efficient way of building
- The entire structure can be prefabricated in the factory from the drawing.
- A major advantage of prefabrication method is that every component can be made and pre-finished prior to leaving the factory with only a final coat to be done after construction.
- The pre-fabricated structure can be put together by the manufacturer on-site in merely few hours (depending on size of the house).
- Tongue and groove cladding is a kind of cladding that uses interlocking boards. Each of these boards have a 'tongue' at one edge and a 'groove' at the other. As they stack on top of each other, the tongues go into the grooves to give a sharp and impressive finish that looks both contemporary and traditional.

- The close fitting of the lumber entry reduces entry points for outside elements protecting all the furniture and residents within. The T & G system's snug interlocking method ensures the house stay safe, strong, cool and dry all year round.



- If the construction uses double T & G and a laminated wall on outside it further adds strength, stiffness, wall span and insulation values apart from allowing mechanical-electrical and plumbing system kept hidden.

### SPF- Ideal for T & G prefabricated homes

- It is especially appreciated by house builders for its excellent strength, light weight, ease of handling and good working properties.
- Strong, stiff and stable, it is considered as a versatile lumber for residential, commercial and industrial buildings.
- Its strength, dimensional stability makes it an ideal choice for the prefabricated home industry.
- SPF is seasoned, graded and grade-stamped in Canada, meeting North American standards of strength and safety. The wood is mature, fine grain, stable and light in colour with smaller knot structure. It is easily worked, glued, nailed and stained.
- Kiln seasoning enhances its strength, stiffness, appearance and increases its resistance to decay and insects. Seasoning improves its dimensional stability and thermal resistance, while reducing shrinkage & warping.
- Is readily available in wide range of sizes and lengths.
- It is the most abundant species group and continuous reforestation ensures its future availability.



### Opportunities for T & G style housing in India

- The hospitality industry is increasingly looking at building resorts using wood in structural applications, particularly in the case of beach and hill resorts where permits are often issued for "temporary housing" only. This is a sizeable opportunity for T&G style housing and resort accommodation, which is already well established.
- There is an upward trend in increased usage of wood in the home category by high net worth Indians (HNIs) looking at villas, country homes, second homes and farmhouses as a lifestyle statement.



- Many present-day architects/designers, real estate developers and hospitality industry professionals in India are rediscovering wood for its beauty, benefits, and ease of working. Also, easy availability of certified wood from sustainably managed Canadian forests presents the opportunity to make an eco-conscious choice while meeting the rising demand for wood products in India.
- The beauty and appeal of T&G construction in India for resort living is the all-encompassing look and feel of wood and being part of nature. The warm and earthy appeal of wood has always found a special place for home buyers in India.

### Demonstrating Canadian Wood T & G housing



Canadian Wood, collaborated with, a leading solid wood furniture manufacturer and timber home maker, and participated in the well-known Index Fair Interior Design Exhibition, 2022. Here it showcased a laminated Tongue and Groove-style (T&G) house made from B.C. wood species from sustainably managed forests in Canada.

The T & G house shown herewith was showcased at Indiawood 2020 in Bengaluru. This has now been relocated to a popular location in North Goa. ***This a very good example of how T & G structures can be transported/ delivered to any location including the most remote areas.***

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Yet another value-added seminar to be announced in February 2023.