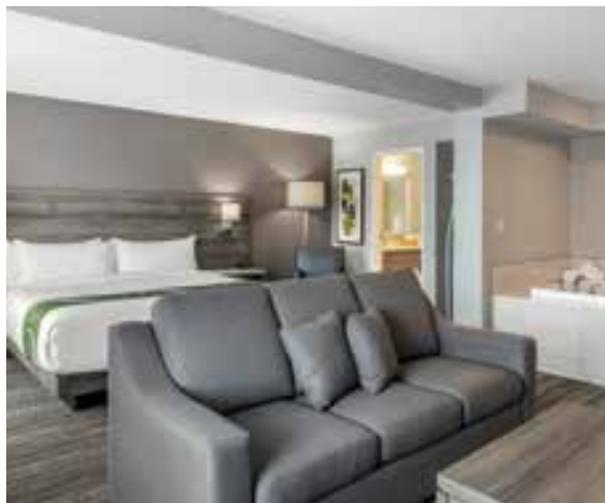




SPECIAL
8-PAGE SUPPLEMENT

HOTELS

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LAKESIDE LODGE AT DEERHURST RESORT, HUNTSVILLE, ON PHOTO: DEERHURST RESORT

Hotels Embracing the Natural Choice

Whether you travel for work or for personal vacations, there are certain expectations for that “home away from home” comfort experience. Even with the plethora of Airbnb options around the world, hotels and their numerous amenities are still a preferred booking choice for many.

Due to the many benefits of wood construction, the momentum for its use in hotels is on the rise. In the wake of more awareness around greenhouse gas emissions and the harmful effects on our surrounding environment, it should come as no surprise that the desire for more sustainable construction options is a key factor driving this momentum. An example of the sustainability benefits is found in one of Canada’s first Microtel Inn & Suites. The three-storey building was designed using wood for all of the structural framing. When complete, the wood for this project captured approximately 216 metric tonnes of carbon dioxide – the equivalent of driving a passenger car for more than 38 years!

The benefits of wood products in hotel construction have been recognized across Canada for years. Design and construction teams are responsibly choosing less carbon-intensive building options. The advantages of building with sustainably resourced materials, coupled with the potential for reduced construction costs, are making wood products an attractive choice for project types such as hotels. In this edition of our Wood *WORKS!* magazine insert, we feature hotel projects throughout Canada that are embracing the environmental, cost and aesthetic benefits of wood construction.

To learn more about Wood *WORKS!* visit www.wood-works.ca, and get engaged with your regional program.

Etienne Lalonde
National Director
Wood *WORKS!*

This Wood *WORKS!* magazine insert was created to help inspire design professionals throughout Canada. Do you have a project that features wood as a primary building material? Take advantage of our Wood *WORKS!* magazine insert and get featured today! Contact Natalie Tarini at ntarini@cwcc.ca, and share your story.

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QUICK FACT

This project won a 2018 Wood Design Award in the Commercial category.

BRITISH COLUMBIA

PENTICTON LAKESIDE RESORT – WEST WING

Penticton, BC

Owner: RPB Hotels

Architect: HDR | CEI Architecture Associates Inc.

Structural Engineer: RJC Engineers

General Contractor: Greyback Construction Ltd.

Wood Supplier: Structurlam Products Ltd.

Photography: John Bilodeau

The six-storey, 70-suite West Wing at Penticton Lakeside Resort is constructed of mass timber and features perhaps the most extensive use of CLT panels in any building in the Okanagan. The large CLT panels – up to nine feet wide and 41 feet long – are used in all major shear elements of the building: in the floor and roof, and in the vertical walls that separate decks on the exterior. The building also features exposed wood ceilings, large glulam columns and beams, wood stairs and stair shafts, and more throughout the building's interior design.

The CLT panels and light wood-frame components were prefabricated for easier construction, while also providing the benefits of saving time and costs. The warm finish that wood provides in its natural state also resulted in cost savings. One of the core design initiatives of the project was to expose the wood wherever possible. CLT and glulam are exposed in and out of the suites; corridor ceilings are exposed CLT with no interruptions; and the atrium wall and ceiling structure is exposed mass timber.

The wood structure provides environmental efficiency with a lower carbon footprint. It was constructed to exceed all standards of the building code, and weighs roughly half of what a concrete structure would: 450 lb./sq.ft., versus 1,000 lb./sq.ft.



QUICK FACT

As a historic, versatile and tried-and-true building material, wood is commonly used within the Hampton Inn & Suites franchise.

HAMPTON INN & SUITES

Edmonton, AB

Owner: RG Platinum Management

Architect: James D. Zimmer Architect

Structural Engineer: T. Bearden M.A.Sc., P.Eng.

General Contractor: RG Platinum Management

Photography: Cory Hansen

A lower carbon footprint, prefabrication and cost savings were some of the benefits that made wood the preferred choice for the construction of the Hampton Inn & Suites in Edmonton. At five storeys, with 86,820 sq.ft. of gross floor area providing nearly 130 hotel rooms, this mid-rise wood project promises guests a quality stay with a diverse range of amenities, including fitness and yoga rooms, a pool, a south-facing outdoor patio for maximum sun exposure and an on-site franchised restaurant.

Construction for the project was completed in February 2020. The hotel utilized LSL engineered studs for the tall wall assemblies and used prefabricated elements to minimize the on-site labor, which also contributed to the increased speed of the construction schedule. Building throughout the winter months in Edmonton can be challenging. Having an enclosed building structure made of wood meant that dimensional stability was not jeopardized throughout the freeze and thaw cycles of the construction.

Wood's acoustic and thermal benefits led to the use of engineered wood I-joists for the floor and roof assemblies and oriented strand board for the wall and floor sheathing. Standard dimensional lumber (SPF 2x8 and 2x6 wood studs) was used throughout the approximately 20,000-sq.ft. building area.



QUICK FACT

The size and location of the project presented the construction management team with many challenges, leading to the utilization of prefabricated wall panels.

ONTARIO

LAKESIDE LODGE AT DEERHURST RESORT

Huntsville, ON

Owner: Deerhurst Resort, Muskoka

Architect: Richard Wengle Architect Inc.

Structural Engineer: Gamaley & Associates Engineering

Construction Manager: Skyline Investments

Wood Supplier: Tampa Hall Ltd.

Photography: Deerhurst Resort



The 155,000-sq.ft. Lakeside Lodge is the newest addition on Peninsula Lake, at an iconic Muskoka resort. Commanding scenic views of the water, the building's architecture reflects traditional design features, showcasing a cottage-inspired interior design theme in its new suites. This is the first waterfront hotel to open in Muskoka in over a decade and stands majestically on the site of the original lodge built in 1896 by Charles Waterhouse.

The \$60-million, five-storey Lakeside Lodge is made up of 150 suites, comprised of one-, two- and three-bedroom models. Early in the design, the development design team chose to incorporate prefabricated factory-built wall panels and a light-frame roof truss system as the method of construction. This was not only a cost-driven decision, but it gave the design team some flexibility with the layout of the building. It also helped because of the project location, and accessibility to skilled trades and materials. The structural design used a combination of materials, utilizing dimensional lumber, engineered wood and beam products, and panel sheathing. The sheer size and scale of the project meant the build cycle encompassed two full winters, so optimizing a workable schedule was a key factor in this ambitious project being realized.

QUICK FACTS

Consisting largely of spruce, and a little hemlock, this 68,890-sq.ft. building was LEED certified in August 2019.

HOLIDAY INN EXPRESS & SUITES

Trois-Rivières, QC

Owner: Groupe Robin

Architect: Favreau Blais Associés Architectes (FBAA)

Structural Engineer: Carbonic (design), Enercro Groupe-Conseil (construction)

Wood Supplier: Laferté

Photography: Groupe Robin



How do you construct a building that meets the LEED certification criteria, while also ensuring it can be erected at an advantageous price? Wood, particularly light wood framing, is a solution that is perfectly suited to meet these objectives. These two goals, as well as an extensive knowledge of the material, played a part in the owner’s decision when the company opted to use wood for a Holiday Inn location in Saint-Hyacinthe in 2009. Furthermore, “the use of light wood framing meant we could avoid having concentrated loads that would require the installation of piles due to the low bearing capacity of the soil on site,” explains Kristopher Wekarchuk, Director of Hotel Operations.



When the time came to design two more establishments, one in Vaudreuil-Dorion and the other in Trois-Rivières, the hotelier opted for wood again, not only to continue to develop green, LEED-certified properties, but also because it is a “winning and proven formula” that offers lower construction costs versus other materials. Construction of the most recent establishment, in Trois-Rivières, was completed in 2018 at a cost of \$10.5 million. The hotel offers 111 guest rooms, as well as various other service spaces, including two conference rooms, a gym and an indoor pool.



The designers used prefabricated roof trusses and stud walls. They also used I-beams for the floor structure, thereby incorporating even more wood into the project. In keeping with its sustainable mandate, the hotel also was built with low-VOC materials, a solar wall for heating and LED lighting systems to increase energy efficiency.

QUICK FACTS

Due to Atlantic Canada's unpredictable weather conditions, modular construction is a great option for hotel builds and expansions. Equipped with state-of-the-art heated production facilities, construction projects stay on time, on budget and the overall production schedule can be accelerated.

ATLANTIC

QUALITY INN & SUITES AMSTERDAM EXPANSION

Fredericton, NB

Owner: Dewinter Brothers Investments

Architect: Robert L. Boyce Architect

Structural Engineer: M.P. deWinter Consulting

Wood Suppliers: Taiga Building Products, Eacan Timber Co. Ltd., AFA Forest Products Inc., Can Wel Building Materials Ltd.

Photography: CS3 & Tremblett



Quality Inn & Suites Amsterdam is located just minutes from downtown Fredericton and was originally a 50-room stick build in 2004. In 2019, with growing demand, the hotel was expanded to 68 rooms using modular construction. The 18-room expansion includes modern suites and a variety of guest rooms. The design for the exterior of the three-storey expansion maintained a cohesive design with the original portion of the hotel.

The modular expansion was built utilizing 12 modules produced by Alantra Leasing's manufacturing facility in Sussex, New Brunswick, using locally sourced wood and other building materials. Prefabricated lumber sections ensured top quality, performance and precision that would not have been possible with traditional on-site construction. Wood products were incorporated extensively throughout the expansion. All exterior and interior walls are wood-framed, providing durability and a sustainable end product.

Wood is well-suited for economical and timely construction, while producing an excellent end product. The advantages over other materials include being renewable, having higher levels of energy efficiency and being easy to use, which also reduces the overall time and specialized training required for project completion. Additionally, wood framing allows for maximum customization during the design and building phases of the project. Overall, local wood products helped contribute to the success of this 18-room hotel expansion.

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