

Green Buildings Open House Tour 2024

Sat, June 1, 11 am - 4 pm

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Banff Pavilion - Passive House

PHOTO - HSS DESIGN BUILD & CHRIS CONWAY PHOTOGRAPHY



SITE OVERVIEW

Tour Day: June 1st, 2024

Address: Banff Pavilion, Banff Recreation Grounds 129 Sundance Rd. Banff, AB, T1L 1A1

Hosts: Town of Banff & HSS Design Build

Parking: Parking Lot adjacent to the skateboard park

Key Attractions:

- Prefabricated mass-timber structural panels
- Passive House Low Energy Building
- Barrier-Free design
- Carbon sequestration in buildings

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WHY IS THE BANFF PAVILION ON THE TOUR?

This public Pavilion in Banff National Park is an iconic, one-story, energy-efficient building with a proposed lifespan of more than 100 years. It has been designed and constructed to Passive House Low Energy Building standards. With an annual heating demand of less than 30 kWh/(m2a) and low embodied carbon, this unique Pavilion is the first building to meet the Town of Banff's Municipal Sustainable Building Policy requirements.

WHY DO PEOPLE NEED TO VISIT THE BANFF PAVILION?

The Pavilion was designed and constructed using innovative strategies, including prefabricated mass-timber structural panels and local materials. When considered alongside the building's proposed 100-year lifespan, the carbon sequestered in this build will remain that way for a long time. The Pavilion was universally designed and built to achieve Rick Hansen Foundation Accessibility Certification for meeting the Barrier Free standards of Canada, making it a community gathering space welcoming to all. In this accessible design, lines between the exterior landscape and interior spaces are blurred, bringing the outside in.

PASSIVE HOUSE CERTIFIABLE

This Pavilion was built to achieve Passive House Low Energy Building Certification and is one of the most energy-efficient buildings in Banff National Park.



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WHAT WILL PEOPLE SEE & LEARN ABOUT AT THIS PROPERTY?

- Passive House Low Energy Building standards
- Passive Solar gains and Building Orientation
- Banff Municipal Sustainable Building Policy
- Prefabricated mass-timber structural panels
- Carbon sequestration in buildings
- Rick-Hansen Foundation Accessibility Certification

WHAT ENERGY EFFICIENT FEATURES ARE SHOWCASED?

- Insulation and airtightness
- Heat recovery ventilator (HRV)
- Energy-efficient windows and doors
- Air-source heat pump
- High-efficiency appliances and toilets
- Net zero ready -- pending solar install

WHAT OTHER SUSTAINABILITY FEATURES ARE SHOWCASED?

- Lifestyle practices - interior designed for future modification and is adaptable to user needs
- Social sustainability - Barrier-Free design, and how the building will serve as an example for future municipal buildings

