

Cambridge Bay Cultural Centre

Nunavut, Canada

Commercial

1,200
BUILDING
SQ FT

15
ENVELOPE
BUILD TIME (DAYS)

50%
ESTIMATED
ENERGY SAVINGS

0
DISPOSAL BINS
REQUIRED

6
TECHPANEL
INSTALL CREW

4
TECHPANEL
TRANSPORT
TRUCKS



The cultural centre in Cambridge Bay, Nunavut is run by the Pitquhirnikkut Ilihautiniq/Kitikmeot Heritage Society, but they were struggling to expand their programming due to the small space that was difficult to keep warm during the long winters and freezing temperatures in Canada's arctic. The average winter temperature in Nunavut is -27C (-20F), so it's extremely important to have a well-insulated and energy efficient building, but building state-of-the-art buildings is challenging for the community that is only accessible by air year round, or ship in the summer months. ZS2 teamed up with the Southern Alberta Institute of Technology to design a new standard for arctic construction that is highly energy efficient and durable, but also quick and easy to build, with the entire building's components transported to the remote community by barge. The new cultural centre will have TechPanel walls, flooring, and roof with solar panels and other new technology features that will increase energy efficiency and reduce emissions. The new building is a big step forward in the preservation Inuinnait language and culture in Canada's far north. It sets a new standard for arctic construction and will be used to provide cultural programs, workshops, and a theatre for local films.