2013 Wood Design Awards - Project Fact Sheet

Klahoose First Nation New Relationship Centre (Inst)

Location: Squirrel Cove, Cortes Island, BC

Height	Size		Completion	Construction Budget
2	13,380	1,243	2010-12	\$6,860,000
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Project Description:

The Klahoose First Nation commissioned the design and construction of a new facility to house their current and growing health care, administrative and community based functions. The Nation has a large population dispersed across BC with the main reserve located on Cortes Island, on the shores of Squirrel Cove.

The construction of the Klahoose Multi-Centre was financed by the Nation's extensive economic developments which contribute to services for the community. They had outgrown their existing aging facilities and had a desire to create an accessible and welcoming place for the Klahoose people, and the local island community, that would establish a permanent home for the Nation's various cultural, economic and development ventures. The project was tasked with creating a strong physical presence $for the \textit{Klahoose First Nation, placing them firmly in today's society and looking forward to new horizons. The design drew upon the \textit{Klahoose First Nation}, which is the \textit{Klahoose First Nation} and \textit{Klahoose First Nation}. The design drew upon the \textit{Klahoose First Nation}, which is the \textit{Klahoose First Nation}, which is the \textit{Klahoose First Nation}. The design drew upon the \textit{Klahoose First Nation}, which is the \textit{Klahoose First Nation}$ traditional indigenous wood building forms and construction techniques for initial inspiration.

 $The straightforward \ assembly \ of \ a \ heavy \ timber \ frame \ supporting \ a \ series \ of \ single \ pitched \ roof \ forms \ is \ a \ response \ to \ the \ local$ conditions of climate, resources, and culture, and the constraints of the remote and rocky site. An extruded building form created by a modular framing system of exposed bents with a structural insulated wood wall and roof panel system was designed to accommodate a number of different uses and create a variety of interior and exterior spaces through the composition of two basic framing elements. The cadence of the bent frames orders interior spaces and circulation areas and creates a material consistency throughout the different programmed areas. Using a repetition of identical heavy timber frames also acted to reduce $the \ number \ of \ components \ and \ connection \ details, \ simplifying \ of f-site \ pre-manufacturing \ and \ facilitating \ quick \ on-site \ pre-manufacturing \ and \ facilitating \ quick \ on-site \ pre-manufacturing \ and \ facilitating \ quick \ on-site \ pre-manufacturing \ and \ facilitating \ quick \ on-site \ pre-manufacturing \ and \ facilitating \ quick \ on-site \ pre-manufacturing \ and \ facilitating \ quick \ on-site \ pre-manufacturing \ and \ facilitating \ quick \ on-site \ pre-manufacturing \ and \ facilitating \ quick \ on-site \ pre-manufacturing \ and \ facilitating \ quick \ on-site \ pre-manufacturing \ and \ facilitating \ quick \ on-site \ pre-manufacturing \ and \ facilitating \ quick \ on-site \ pre-manufacturing \ quick \ qu$ construction.

Cortes Island is located on the eastern edge of Desolation Sound. Semi remote in nature, the project required careful $consideration \ of \ building \ siting \ and \ construction \ techniques \ in \ order \ to \ minimize \ impact \ on \ the \ forested \ site. \ The \ Multi-Centre \ is$ $sited \ within \ the \ second-growth forest \ next \ to \ the \ Klahoose \ community \ settlement. \ The \ building \ stretches \ along \ a \ granite \ slope$ above the shoreline, resting on the existing topography to create floor levels and an exterior gathering space. To the western, $\frac{1}{2}$ forested side the building presents itself as a long, low, wood-clad volume nestled into the existing vegetation. From the eastern, ocean side the building reveals itself as a strong, transparent structure lightly touching on the rocky slope. Expansive glazing coops the building to natural lighting and views across Squirrel Cove. The dominant use of wood enhances both the design Wood is used for as much of the building as possible; cladding, exterior fascia and barge boards, exterior trim and joinery, ceilings, stairs and railings, architectural woodwork and furnishings, and the main structural elements. As well as being a renewable resource, wood allowed the use of local materials and labour, along with higher efficiency pre-manufacturing. The building is oriented to make use of natural lighting and ventilation throughout the interiors, minimizing energy needs and creating a more comfortable working environment. Interior and exterior finishes are selected for durability, easy maintenance, and easy replacement.

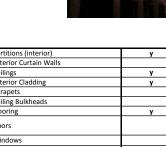
In addition to environmental sustainability, the Klahoose Multi-Centre contributes to social and economic sustainability by providing a facility that accommodates the Nation's current and future needs and encourages connections within the











Architectural

Partitions (interior)	у
Exterior Curtain Walls	
Ceilings	у
Exterior Cladding	у
Parapets	
Ceiling Bulkheads	
Flooring	у
Doors	
Windows	
Skylights	
Trim, Paneling & Features	у
Millwork	у
Wall and Corner Guards	
Other Architectural Woodwork	У
Hard Landscaping & Structures	
Perimeter Fencing	

Project Images







Where the Wood Was Used:







<u>ज</u>	Floor Structure	у
3	Exterior Walls	у
e n	Foundation	
ry stru System	Shear Walls	у
s ts	Bearing Walls	у
E &	Fire Walls	
T C	Roof Structure (inc. columns and	
=	braces)	У
7	Stairway & Elevator Shafts	у
Б	Convenience Stairs	у
Structure	Entrances & Canopies	
	Fire Separations	
	Enclosures for Mechanical Equipment	

Building Project Team Members:

Merrick Architecture - Borowski Sakumoto Fligg Ltd			
Other	Darryl Jonas		
Victoria, BC	djonas@merrickarch.com	604-480-7811	

Ledcor Construction Ltd.			
Contractor	Peter Stefanski		
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The AME Consulting Group Ltd.			
Mechanical Engineer	Tom Wilson		
Victoria, BC	tomwilson@amegroup.ca	250-382-5999	

Spearhead Timber Works		
Other	Ted Hall	
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Klahoose First Nation			
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Cortes Island, BC	mmckellar@klahoose.org	250-935-6535	

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Structural Engineer	Greg Beaveridge
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RB Engineering Ltd.		
Electrical Engineer		Les Brown
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Peter Powles Photography			
Photographer	Photographer Peter Powles		
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