



Aesthetics

C Plex's massing, materiality and sloped roofs are typical of West Coast Contemporary design, placed within a fresh and modern composition. The cedar cladding plays homage to the architectural styles prevalent in the Squamish Valley and can be sourced locally and recycled at the end of its life cycle.

Each unit is located in a separate mass, staggered and differentiated by subtle shifts in materiality of the upper floors. From the street, the C Plex gives the appearance of a cluster of small independent houses, aligning itself to the character of the predominantly single-family house neighbourhoods.

Innovation & Creativity

The C-shaped multiplex building clusters four homes around a central courtyard with a large mature tree, serving as a social focal point for the homes. The units are thoughtfully designed to strike a balance between both privacy and community within the site while maintaining efficient functionality.

The modest floor plans accommodate a large, generous private balcony for each unit raised to the second level to allow open areas at grade for mature trees, gardens and amenities for families to build connection and community. Off the main courtyard a large bike room and indoor community area is provided, amenities that encourage shard activities between residents such as gardening, DIY repairs and recreation. A large bulk storage room is provided for each unit. Storage rooms are materially durable and accessed through an oversized outside door, making them ideal for large outdoor equipment.

Project Statistics

Unit A, B, C, D

Total Area	160 sm		
Bedrooms	4		
Bathrooms	2		
Car Stalls	1		
Bike Stalls	4		

Legend

- Bike storage 1
- Community Room 2
- 3 Outdoor eating area
- Accessible parking stall 4
- 5 Garbage, Compost & Recycling
- 6 Bulk storage
- 7 Mechanical / Electrical





0 1 2 3

6m



N-S Stair Section

South Elevation



East Elevation

West Elevation

North Elevation

Sustainability

C Plex is designed for energy efficiency in mind and highlights the importance of a well-landscaped site to encourage the heath of wildlife and adapt to changing conditions due to climate change such as flooding and hotter temperatures.

(1)Flooding

Rainwater garden built along the side yard, away from the building. Composed of local rocks, soil and plants built to slow down and hold rainwater, allowing it to soak into the ground. Helps reduce the volume of water entering the sewer system and prevents flooding

2

High ratio of permeable surfaces on site for water absorption

(3)

Planting

Landscaped with an opportunity for mature trees and extensive planting for natural shading and evaporative cooling

(4)

Abundance of planting that is varied and local to promote pollinators, birds and other wildlife on site

Ventilation

5

Operable windows and clerestory windows throughout for natural ventilation and cooling.

6 Materiality

Fabricated with locally and responsibly sourced wood that can be fully recycled

$\overline{7}$ **Energy Consumption**

6

Ample wall thicknesses to accommodate additional insulation and lower energy requirements for heating and cooling

Accessibility Features

The C Plex is designed to be fully compliant with BCBC regulations and is designed with consideration of universal accessibility.

All four units have fully accessible ground floor living spaces including kitchen, dining and living spaces to accommodate guests of all abilities. These units are designed to minimize future retrofit costs to accommodate accessibility on all floors. An oversized accessible parking space is provided, and interior stairs can be fitted with lifts.

Importantly, all community spaces are fully barrier-free in order to allow for use by all people regardless of physical ability.

Outdoor spaces are designed to balance accessibility and permeability through a mix of paving materials from grass block pavers to cast concrete surfaces.



The proposal is designed to accommodate a sprinkler system to comply with NFPA 13R, and includes space for a dedicated water meter / pump room



Affordability & Cost Effectiveness Strategy

- Standardized design with repeating conditions and dimensions throughout
- Utilizing simplified massing to enable either conventional construction, panelized construction, or prefabricated / off site construction
- Maximum number of units on site that are comfortably livable but modest in scale
- Locally sourced materials, components, and building traditions
- Household savings through strong community networks and resource sharing
- Alternative tenure such as a community land trust (CLT) can achieve deeper affordability over time and provide long term stewardship

Project Statistics

Height	11m	
Number of Units	4	
Gross Floor Area	679sm	
Floor Area Ratio	0.76	
Flood Construction Level	0m	
Site Coverage	33%	
Permeable Area	597sm	
Vehicle Parking Spaces	4	
Front Setback	3m	
Rear Setback	3m	
Side Setback 1	1.2m	
Side Setback 2	9.3m	

Project Cost

Fenure / Development Model	Conventional For Profit Strata Redevelopment	For Profit Affordable Rental	Not-For-Profit Dedicated Rental by Owner + Partners
Gross Floor Area	679sm	679sm	679sm
Construction Materials + Labour	\$2,155,998	\$2,155,998	\$2,155,998
Utility connections (varies with site)	\$30,000	\$30,000	\$30,000
Total Construction Hard Cost	\$2,185,998	\$2,185,998	\$2,185,998
Soft Costs	\$437,200	\$394,212	\$394,212
Development Cost Charges	\$42,988	exempt	exempt
Fotal Development Cost	\$4,852,183	\$4,766,207	\$4,766,207
Cost per Square Metre	\$7,146/sm	\$7,019/sm	\$7,019/sm
Cost per Unit	\$1,213,046	\$1,191,552	\$1,191,552
Land Cost	\$1,287,874	\$1,287,874	\$0
Fotal Development Cost Including Land	\$6,140,057	\$6,054,081	\$4,766,207
Cost per Square Metre Including Land	\$9,043/sm	\$8,816/sm	\$7,019/sm
Cost per Unit Including Land	\$1,535,014	\$1,513,520	\$1,191,552
Affordability	None	Medium term	Affordability deepens over time, in perpetuity

Costing Assumptions

- 1. Hard cost per/sm are based on Altus Group 2024 Canadian Cost Guide, Private Sector, Wood Framed Residential, 3 Storey Stacked Townhouse, Vancouver, medium-high level of finish, \$290/sf (\$3175/sm)
- 2. Soft costs are estimated at 20% of hard cost, based on BC Ministry of Housing's SSMUH and TOA Scenarios in British Columbia report and includes pre-development costs, consultant feees, permit application fees, topographical surveying, environmental reports, legal fees, engineering fees, and notification signage.
- 3. Development Cost Charges are calculated per District Of Squamish Bylaw No. 2911, 2022.
- 4. Land Purchase Cost is based on current (as of October 2024) properties for sale that are of a comparable size and in the specified neighbourhoods, with high development potential.



Kitchen + Dining



Living Room