



Virtual Design and BIM Technology: Shaping the Future of BC's Sustainable Homes



coastessential

Squamish, British Columbia



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Building Information Modelling (BIM) is the holistic process of creating and managing information, from planning and design to construction and operations, across the lifecycle of modern, sustainable homes. This design technology starts with the creation of an intelligent 3D model. It delivers significant advantages for sustainable home design by enabling energy modelling, lifecycle analysis, optimized material use, waste reduction, design innovation, and ongoing performance monitoring after occupancy.

Virtual design and BIM provide a comprehensive foundation for sustainable custom home design and construction, at every stage of the project. Through advanced 3D modelling and simulation tools, the architect and team stakeholders can evaluate energy efficiency, the overall carbon footprint, and environmental impacts before construction begins.

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