GROVEMONT

SUMAS MOUNTAIN

Why Cold Formed Steel?

The increasing environmental concerns in the world today have caused us all to examine the way we live. These issues have affected every aspect of our lives, including the materials we use in construction. The use of cold-formed steel members benefit the customer more than other material.

Durability & Precision

- Our Advanced Steel-frame Technology outperforms traditional materials in strength, stability, and straightness.
- It resists weakening, bending, and corrosion, ensuring the long-lasting structural integrity of your home. With zinc-coated steel framing designed to last up to 200 years, your home enjoys remarkable protection against the elements.
- Prefabricated frames eliminate need of on-site welding or cutting, speeding up construction and avoiding delays caused by moisture
- Precise dimensions, pre-made windows, doors, and bathrooms will fit perfectly and quickly, resulting in spacious and well-defined interiors.

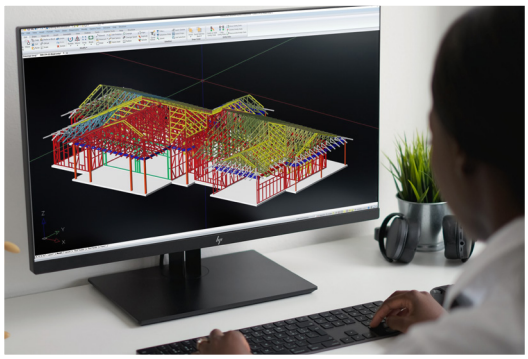
Sustainability & Safety

- Reducing waste and minimizing our environmental impact. Less than 1% material wastage with steel-frame technology means minimal waste generation during construction.
- Our technology is highly recyclable, with a 66% industry recycling rate, contributing to a greener environment.
- We're conserving water resources by reducing the need for cement mixing.
- Our Advanced Steel-frame Technology offers enhanced stability and safety features. Absorbs energy, offers resilience against earthquakes and strong winds, ensuring your home's stability in adverse conditions.
- The chemical-free and non-emitting steel creates a secure and health-conscious living environment. The non-combustible nature of our technology provides added fire resistance for your peace of mind.

Sound Dampening & Acoustics

- Integrated sub-assemblies enhance acoustic and thermal properties, making your home more energy-efficient.
- Reduce maintenance costs and it also guards against issues like rot, mold, termites, and insects more effectively. Our technology minimizes the need for extensive foundation work, perfect for challenging terrains like a mountainside.
- Sound dampening and sound transition from room to room and floor to floor is significantly reduced with steel frame construction.

From Precise Design → **To Sustainable 3D Production** → **To On Site Installation**







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The Future of New Home Construction is Built with Steel

Discover a new class of home construction at Grovemont. Mann Group's dedication to innovation brings you a living experience that redefines durability, precision, sustainability, and safety. Mann Group has pioneered delivering advanced steel-frame technology to the Fraser Valley as one of the first on the West Coast to use this large-scale 3D print technology for construction. Every home at Grovemont will benefit from this advance condtruction technology for years to come.

Steel is not only a recyclable product, but also a stronger product that allows for longer clear-spans. Cold-formed steel is lighter to provide ease of handling, and is a dimensionally stable product, giving a "straight" wall with which to work. It doesn't suffer fluctuation in price, making it easier to bid a project. Quality control is stressed in all phases of the manufacturing process so the highest possible quality is delivered to the job site. The structural shapes manufactured are easily used for nonstructural and structural wall assemblies, floor and ceiling joist assemblies, trusses, and panelized systems.

Cold formed steel process is a design-led operation, meaning that less skill is required at the time of construction and more when designing it. The steel used to make frames and components is sourced from quality coil productions. They are shaped into coils with roll-forming machines before they are bolted together on-site to complete the building. The cold formed steel process is highly effective as it can run large quantities of steel at high speed with consistent quality and precision.

Steel Frame Construction Process Step-by-Step

