



Calgary Condominium Tower

Project Details

**Location:**

Calgary, Alberta

**Timeline:**

May 2023-September 2024



Volume: 1690 m³

**Concrete's Sustainability Contribution:**

Heidelberg Materials' EvoBuild® Bronze low carbon concrete successfully addressed heat of hydration issues in a massive condominium raft slab pour. The solution ensured quality was acceptable to the Engineer of Record. In preparation for a pour for a 1.2m deep raft slab, the Project Manager had significant concerns regarding heat of hydration, which can impact the strength and durability of concrete once set. With temperatures regularly above 20°C, a pivot from the originally specified mix design was necessary. The EvoBuild® Bronze mix addressed heat of hydration issues while also having a desirable slump range guaranteed upon delivery, allowing for efficient pumping and no delays. The substitution of EvoBuild® Bronze low carbon concrete enabled three concrete pumps to provide a steady supply throughout the pour, crucial in avoiding cold joints in the raft slab and ensuring a quality product for the customer.



EvoBuild™ Low Carbon Concrete can help lower the carbon footprint of your project without compromising performance. Available for a broad variety of applications, our product range consists of EvoBuild™ Bronze, EvoBuild™ Silver, EvoBuild™ Gold and EvoBuild™ Zero. This range considers all of your specific targets, timelines and budget needs, ensuring there is a sustainable solution for your project.

More importantly, these solutions are stackable, meaning carbon savings can add up to different levels, as required to meet your project goals. Carbon savings can vary depending on performance requirements, haul distances, and energy use at the manufacturing facility related to local climatic conditions. However, when measured against national industry average Environmental Product Declaration (EPD)* values, our EvoBuild™ concrete mixes provide significant carbon savings for your project. These savings are supported by mix-specific, third-party verified EPDs which provide transparent and comparable information about the life cycle impact of our building materials.