

BUILT BETTER

Project:
POPULUS

Place:
Denver, CO

Completion:
2024

Architect:
Studio Gang

Project Engineer:
WTLS

Cement Contractor:
Holcim

Developer:
Urban Villages

Design / Build Contractor:
The Beck Group



Project: **POPULUS**



THE CHALLENGE

- Opening in Denver in 2024, Populus will be the first carbon-positive hotel in the U.S., an achievement realized through its strong commitment to sustainability in both the development and operational stages.
- The 13-story, 265-room hotel designed by famed architecture practice Studio Gang is being built on an expedited schedule through widely variant seasonal weather conditions.
- Strict specifications demanded intense testing and verification of Holcim's product performance to meet the project's environmental goals.
- The innovative nature of the project required highly coordinated planning, product education and collaboration among the developer, contractor and Holcim teams.

THE SOLUTION

- Holcim's innovative ECOPact concrete, which offers a minimum of 30% lower CO₂ emissions compared to standard concrete, is one of many ways Populus is achieving its carbon positive goals.
- By using ECOPact for Populus' development, the embodied carbon of the concrete is expected to be 765 tons less than traditional concrete, minimizing the hotel's carbon footprint.
- According to Holcim's Global Warming Potential (GWP) savings calculator, the use of ECOPact in this building represents a 24% reduction in CO₂ emissions of the total concrete volume, as compared to regional averages – the equivalent of eliminating more than 1.5 million miles driven by an average passenger vehicle.
- With approximately 5,100 cubic yards of concrete used for the project's superstructure beams, slabs and other components, ECOPact mixes will account for 65% of the total volume.

BENEFITS



**EMBODIED
CARBON
REDUCTION**



**CONCRETE
DIRECT
DELIVERY**



**HIGH EARLY
STRENGTH**



**HIGH
PERFORMANCE**

ENVIRONMENTAL SUCCESS

24%

**REDUCTION IN
CARBON DIOXIDE
EMISSIONS**

765

**METRIC TONS OF
CO₂ SAVED FOR
THE PROJECT**

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