



Campbell Basin Ski Lodge

Crystal Mountain Resort, WA



Square Footage:
12,228 sf

Project Construction Cost:
\$4 million

Occupancy Classification:
A-3, Restaurant

Project Team:
Evergreen Architecture *architect*
Western Wood Structures *subcontractor*
Fred Wright, P.E. *Engineer-of-Record*

Pillar's Responsibilities:
Structural analysis of building
FEA model creation
Snow load analysis & modeling
Structural design of gravity system
Structural design of seismic system

This ski lodge at the top of the Queen Express chairlift at Crystal Mountain Resort offers skiers a warm and cozy retreat from the weather, which is often aggressive at 6,500 feet above sea level in the North Cascades. Exposed glulam beams, peeled log columns and rock-covered concrete piers create a classic, rustic ambiance.

The project team developed the site-specific ground snow load of 650 PSF as the driving basis for the design of the building. Adding to this challenge, the building is also in a high-seismic risk region. Pillar Consulting Group worked carefully with the Architect, Engineer-of-Record, and timber fabrication subcontractor to produce a structure that would meet the rigorous structural & program demands as well as satisfy aesthetic criteria.

STRUCTURAL

for more information contact Joe McCormick, P.E. at 541-752-9202 ext. 112



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