



Solving the Sloped Roof Challenge: Tractel's Facade Access Solution for Snoqualmie Casino & Hotel.

Project Overview

The Snoqualmie Casino & Hotel in Washington, USA, presented a unique architectural challenge with its 10° sloped roof and soffit. This unconventional geometry made standard approaches with Building Maintenance Units (BMUs) or monorail systems less practical. The client required a customized solution that could adapt to the complex design while ensuring maximum safety and efficiency. Tractel was selected for its proven ability to engineer tailored access systems capable of navigating demanding conditions where conventional solutions fell short.

Innovation for Uninterrupted Safety

To address these requirements, we deployed Tractel's Railscaf system integrated with friction-driven trolleys and a powered platform, enabling secure movement along the facade's inclined and zigzag path. For roof-level safety, the Travsmart system was installed, providing a continuous lifeline that allowed operators to move confidently along the roof edge. On lower roof sections, a tieback system was incorporated, offering additional fall protection and creating a comprehensive safety network for all access points.

Overcoming Installation Hurdles

The installation presented technical complexities, particularly in aligning brackets across the sloped track. Our on-site team employed laser leveling to ensure precise placement and flawless system performance. Another challenge was managing the track's uprun, which was resolved using advanced friction-driven trolleys. By modifying the Railscaf design to match the building's contours without compromising its architectural integrity, we delivered a solution that was both functional and visually integrated.

Turning Challenges into Advantages

Through innovation and engineering precision, we transformed the property's architectural complexities into opportunities. Competitors were unable to provide a viable solution, but Tractel's customized systems balanced safety, efficiency, and design harmony. By integrating Railscaf, Travsmart, and tieback systems, we not only met but exceeded client expectations—minimizing long-term costs while reinforcing our reputation for tackling the most demanding facade access projects.

Facts & Figures

Commencement	November 2023
Completion	August 2025
Building Height	200 ft / 60.96 m
Building Type	Casino & Hotel
Product Type:	Railscaf, Travsmart, and Tieback systems

