



Constructing connections.
Consciously.

Case Study

Greener skiing: Idre Fjäll Ski Resort tunnels, Sweden

ViaCon helps ski resort with ESG-friendly rapid construction tunnel solutions in ski resort area.

THE CHALLENGE

Building ESG-friendly infrastructure focuses a lot on the environment and ecological conditions in which projects are built, but that's not the only concern of ESG. For Idre Fjäll Ski Resort in Sweden, both the environmental and social aspects of a planned tunnel project took precedence.

The popularity of the resort, which has won multiple best ski resort awards, led to a need to accommodate

an increasing number of visitors while continuing to provide the best facilities possible. Resort expansion aimed to make the resort greener but also to create and upgrade the infrastructure for the "social" aspect of ESG: enhancing recreational and health-related opportunities with a new gondola lift, more slopes, better lighting arrangements, a snow system and three tunnels.

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SPECIFICATIONS

Tunnel 1: VR21; bridge mode NR1

Bottom length: 85.4 m
Number of bolts: 14600
Total weight: 115 tonnes
Number of plates: 702
Inside surface area: 2306 sqm
Installation: 23 days

Tunnel 2: VM30; bridge mode NR1

Bottom length: 56.5 m
Number of bolts: 11800
Total weight: 93 tonnes
Number of plates: 562
Inside surface area: 1874 sqm
Installation: 17 days

Tunnel 3: 75S; bridge mode 2 south

Bottom length: 78 m
Number of bolts: 16928
Total weight: 165 tonnes
Number of plates: 757
Inside surface area: 3278 sqm
Installation: 28 days

Investor/supervisor: Idre Fjäll
Designer: Mavacon AB (road design)
and ViaCon AB (bridge design)
Contractor: Siljan Schakt Entreprenad AB
Assembly/installation: ViaCon AB



THE SOLUTION

Tunnel design moved away from concrete and focused on construction solutions that could be built quickly (within two months) and without disruption to activity in the area.

THE ADVANTAGE

ViaCon helped the Idre Fjäll expansion project reach:

- Faster time to project completion than competing solutions/quick, less disruptive assembly
- Low cost of project implementation
- Long durability/lifespan
- An LCA at 40% less CO₂ emissions
- Environmentally friendly and aesthetically superior alternative to concrete
- Socially conscious recreational options

ViaCon Sweden offers end-to-end consultation with customers to help them overcome construction challenges and meet environmental and sustainability goals – faster.

READ MORE AT

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