



Leca® LWA Delivers Frost Protection for Critical Infrastructure in Hålogalandsveien Tunnels



Hålogalandsveien stands as one of Northern Norway's largest and most ambitious transport infrastructure projects, aiming to enhance regional connectivity and road safety. This public-private partnership (PPP) includes the construction of 82 km of new European highway, featuring 7 tunnels (27 km) and 22 bridges, all

designed to endure the challenges of Norway's rugged terrain and harsh climate.

Leca®'s Contribution to Tunnel Engineering

Leca played a key role in the project, supplying Leca® Lightweight Aggregate to several sections in collaboration with contractors Skanska and Hæhre.

The material was selected for its unique combination of thermal performance, lightweight structure, and drainage capacity, addressing several specific engineering challenges:

- • Frost insulation for water and sewer pipes
- • Thermal protection around manholes
- • Lightweight backfill in zones with low overburden tolerance
- • Frost protection in tunnel portals and rock-cut excavations

FACTS

Project name: OPS E10 Hålogalandsveien

Client: Skanska Norge & Hæhre Entreprenør

Location: E10 / Rv 85, Tjeldsund – Gullesfjordbotn – Langvassbukt, Norway

Construction period: 2023–2028