



5-Star Residence "L'Hévana" at Méribel les Allues

Design and verification of the foundations

2017



FRANCE

Client

FRANKI FONDATION



The Project

In the heart of the Méribel les Allues ski resort, PIERRE & VACANCES equips itself with a prestigious residence composed of 95 apartments.

The execution of the foundations and retaining structures of this architectural complex, built on top of four levels of underground parking, has been attributed to FRANKI FONDATION with an alternative solution which replaces the piles of the initial project design with shallow foundations (footings and rafts) supported by stiff inclusions.

Our Services

FRANKI FONDATION entrusted TERRASOL with an assistance assignment, and we contributed with our geotechnical expertise by providing the design and verification of the foundations of the alternative solution:

- Definition of geotechnical calculation models in a heterogeneous context: located in Doron's axis (the Doron is a stream canalised and backfilled in the 80s), the site is composed of relatively compact fills of fluctuating thickness overlaying moraines of variable thickness.
- Definition of inclusions meshes and adjustment of the geometry of the rafts and footings foundations in order to control deformations taking into account the heterogeneous geotechnical context and loading conditions. This step required multiple iterations with the structural design office.
- Geotechnical verifications of the foundations system.

Key features

- Definition of geotechnical calculation models
- Definition of inclusions meshes and adjustment of the geometry of the rafts and footings foundations
- Geotechnical verifications of the foundations system.

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