

Koralmbahn Railway Graz – Klagenfurt

Vibrations, Noise, Air Quality

Location	Austria, Styria/Carinthia
Client	ÖBB-Infrastruktur AG
Project duration	07/2000 – 06/2016
Services of iC	Expert support in the fields of vibrations, noise, air quality

Project objectives

The Koralmbahn railway is to connect the cities of Graz and Klagenfurt. The route is designed for a speed of 160 to 200 km/h, which allows to reduce the travel time from three hours to a mere one hour. The core of the connection between the capitals of the provinces of Styria and Carinthia will be the Koralm tunnel with a length of 33 km.

Project data

Length: 125.4 km (Graz main station – Klagenfurt main station)
 Railway stations Western Styria and Lavanttal Valley, 11 stations
 Underground section Feldkirchen – Graz airport: 3.2 km
 Weitendorf underpass structure – A9: 1.2 km
 Hengsberg tunnel: 1.695 km
 Koralm tunnel: 32.894 km
 Granitztal chain of tunnels: 2.55 km + 0.43 km + 3.096 km
 Kühnsdorf chain of tunnels
 Lind tunnel: 0.49 km
 Grafenstein overhead noise barrier: 0.63 km



Project specifics

Longest newly constructed line in Austria.

Services of iC

Vibrations:

Studies for Environmental Impact Assessment and design for statutory procedures under the Federal Railway Act for the entire line including procedures according to the Austrian Waste Management Act (Hollenegg landfills)

Measurements during construction

Acceptance measurements before and after start of operation

Noise:

Statutory procedure in Carinthia (Lavanttal railway station to Grafenstein railway station)

Measurements during construction

Air quality:

Statutory procedure for the Koralm tunnel, procedures according to the Austrian Waste Management Act for the Hollenegg landfills

Measurements during construction of the Koralm tunnel (lots KAT 1 and KAT 2), Grub landfill and Hollenegg landfills

