



Spanish highway network

Tt-002/07 Acoustic analysis of structural characteristics and measurement of deflection and the radius of curvature of the deflection basin on various stretches of road belonging to the national highway network

Year: 2008 / Customer: Ministry of Infrastructures / Completion time: 24 months / 35,250 km

Tp-007/07 Technical assistance in the acoustic analysis of pavement via dynamic assessment to determine the visibility of road markings on the Spanish national highway network.

Year: 2008 / Customer: Ministry of Infrastructures / Completion time: 24 months / 170,000 km

Regional and local authorities

Monitoring of consultancy work for high-performance dynamic acoustic analysis (ADAR) on numerous projects (file: g-gio161/ocao).

Year: 2008 / Authority: Infrastructure Management Dept. of Andalusia / Locations: Seville, Huelva, Cadiz & Cordoba / Completion time: 26 months

Preparation of a study on acoustic road analysis for various stretches of the road network of the region of Extremadura (file: at2006083).

Year: 2007 / Authority: Regional Govt. of Extremadura / Location: Toledo / Completion time: 24 months

Concessions

Acoustic road analysis with high-performance equipment to determine deflection, IRI, back-reflection, sideways friction coefficient & cracking and for inventory purposes.

Year: 2006 onwards / Customer: EMESA / Location: M-30 ring road - Madrid / Completion time: term of the concession

Acoustic road analysis with high-performance equipment to determine deflection, IRI, back-reflection & sideways friction coefficient. Autovía Mudejar dual carriageway.

Year: 2005 - 2006 / Customer: Euroconsult / Location: Autovía Mudejar dual carriageway - Teruel / Completion time: duration of the work

Airports

Deflection & radius of curvature measurement with curve meter at Frankfurt airport.

Year: 2009 / Customer: □ Lehmann / Location: Frankfurt airport (Germany).

Compaction monitoring using a dynamic load plate unit in the northward extension of the containing wall platform.

Year: 2007 / Customer: □ Copcisa / Location: Barajas airport (Madrid)

Railway track beds

Acceptance testing of sub-ballast: density & humidity with Troxler nuclear density gauge, static load plate, dynamic load plate & bearing capacity meter.

Year: 2009 / Customer: □ ADIF / Location: Madrid - Levante high-speed rail line (Cuenca)

Acoustic analysis testing with dynamic load plate in various trial sections. Goloso – Cedex test track

Year: 2007 / Customer: Cedex / Location: El Goloso test track.

International

Acoustic analysis with curve meter equipment for deflection measuring on numerous roads in Poland

Year: 2009 / Customer: Lehmann / Location: Poland

Measuring of deflection and radius of curvature with curve meter equipment at: a4, a8, Frankfurt airport, I334, I1052 & b115

Year: 2008 / Customer: Lehmann / Location: Germany