

# Soil Laboratory



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The laboratory is authorized by the Ministry of Infrastructure and Transportation for the execution and certification of Tests on soil and rocks (A & B sectors), aggregates and external tests in compliance with circular n. 7618/STC 2010 ART.59 D.P.R. 380/01



## Determination of physical properties

- Particle size analysis for sieving and sedimentation (aerometry)
- Atterberg and shrinkage limits
- Natural unit weight
- Water content
- Specific weight of particles
- Sand equivalent test
- Aggregate shape and flattening indices
- Alkali reaction test
- Carbonate, sulfide, chloride, organic substance content
- Inert waste disposal test for eventual removal or reuse

## Characteristics of lime treated soils

- Characterization of natural untreated soil
- Incremental lime mixing treatment and subsequent performance analysis

## Performance characteristics of recycled aggregates

- Conformity of recycled aggregates with C annexes of circular n. 5205 dated 15/7/2005



## Mechanical property characterization

- Consolidation oedometer tests
- Swelling pressure and index
- Uniaxial compression strength test
- Triaxial compression strength (UU, CU, CD)
- Direct shear test (CD)
- Direct permeability in triaxial and oedometer cells
- AASHTO compaction standard and Proctor compaction test
- CBR and IPT indices
- Los Angeles abrasion test





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