

DIACLASE
- Consultores de Engenharia,
Geologia e Ambiente, Lda

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Corporation form
Limited liability company

Registered capital

5.000 Euros

Board of Directors

António Ambrósio, Civil Eng.
Raul Duarte, Geologist

Directors

António Ambrósio, Civil Eng.
Raul Duarte, Geologist

Permanent personnel

Total: 2
Graduates: 2

Turnover (2020)

249.742 Euros

Main associations

- APPC - Portuguese Association of Engineering and Management Consultants



General description

DIACLASE was founded in 2006 for the purpose of developing projects and studies in the main areas of Civil Engineering, Geology, Geotechnics and Environment. The main goal of Diaclose is to provide expertise and highly specialized services in the referred areas, for the national market (mainland, Madeira and Azores islands) and also for the international market.

Main expertise

- **Civil Engineering**
 - Hydraulic structures (dams, levees, reservoirs, canals)
 - Underground structures (caverns, tunnels, galleries, shafts)
 - Earth retaining structures
 - Slope stabilisation
 - Special earthworks (roads, railways, waste fills)
 - Special foundations
- Structural rehabilitation
- Steel fibre reinforced concrete (SFRC) structures
- Ground water exploitation works - design and technical assistance
- Study of wellhead protection areas
- **Geology and Geotechnics**
 - Geological and geotechnical studies
 - Geotechnical risk analysis
- **Environmental Studies**
 - Environmental impact studies
 - Environmental rehabilitation
- **Hydrogeology**
 - Studies of ground water resources

Services

- Projects
- Technical assistance to works
- Engineering and Geological Consulting services
- Project review
- Technical studies
- Development of civil engineering software

Significant last works

- **Hydraulic Structures**
 - Structural and geotechnical rehabilitation of 43 dams (masonry and earthfill dams) at Namibe's Province, Angola (Tender design).
 - Rehabilitation of Sado Valley's canals (Santa Catarina canal, Terça canal and Vale dos Reis canal).
 - Coriscada dam.
- **Underground Structures**
 - Gran Canaria Railway Line (Las Palmas / Maspalomas). Tunnel, galleries and shafts.
 - Extension and Improvement of A4 Highway (Porto / Amarante). New Aguas Santas North Tunnel (Tender design).
 - Pinhal Interior Concession. Tunnels (BAFO, Tender design).
- **Earth retaining Structures / Slopes / Cliffs**
 - Rio de Janeiro Metro, Line 4. Gávea Station. Earth retaining structures for the cut-and-cover access tunnels.
- Rio de Janeiro Metro, Line 4. São Conrado Station. Earth retaining structures for the cut-and-cover access tunnels.
- Stabilization of ER211 road at Seixal (Madeira Island).
- Stabilization of ER101 road at Quebradas (Madeira Island).
- Rehabilitation of earth retaining structures and cliff stabilization at ER204 road, Porto Novo (Madeira Island).
- Earth retaining structures and cliff stabilization at S. Bernardino's beach.
- **Special Earthworks**
 - IC9 / Litoral Oeste Highways - EN1 / Fátima. Earthworks final design.
- **Special Foundations**
 - Pan-American Highway (Panama). Foundations of Rio Cobre viaduct.
 - Pan-American Highway (Panama). Foundations of San Pedro viaduct.
- Fishing Port Extension (Luanda, Angola). Foundations of the storage tanks facility.
- **Environmental Studies**
 - Works at Pisão/Beja & Pisão/Roxo, Ribeira Grande's geothermal well (Azores), Lisbon Metro (Red Line - Lumiar/Aeroporto).
 - Dams: Juncal (Madeira), Venda Nova III, Penedão.
 - Irrigation blocks: Vale Gaio, Cinco Reis/Trindade, Beringel/Beja, Alvito/Pisão, Cuba/Vidigueira.
 - Rehabilitation of Lagoa do Caldeirão - Corvo (Azores).
- **Civil Engineering Software**
 - DIACalc® - Analysis and Design of SFRC Structures (www.diacalcsoftware.com).

International experience

- Angola
- Belgium
- Brazil
- China (Macau)
- England
- Ireland
- Malawi
- Mexico
- Mozambique
- Panama
- Peru
- Spain



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