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| <p><b>OZ</b><br/>- Diagnóstico, Levantamento e Controlo de Qualidade em Estruturas e Fundações, Lda</p> <p>Rua Pedro Nunes, 45 - 1º Esq.<br/>1050-170 LISBOA<br/>Tel.: (351) 21 356 33 71<br/>Fax: (351) 21 315 35 50<br/>E-mail: ger@oz-diagnostico.pt<br/>Web site: www.oz-diagnostico.pt</p>                                     | <p><b>Corporation Form</b><br/>Limited Liability Company</p> <p><b>Registered Capital</b><br/>200.000 Euros</p> <p><b>Board of Directors</b><br/>Carlos Mesquita, Civil Eng.<br/>Tiago Ribeiro, Civil Eng.<br/>Patrícia Louro</p> <p><b>Directors</b><br/>Carlos Mesquita, Civil Engineer<br/>Tiago Ribeiro, Civil Engineer<br/>Patrícia Louro<br/>Susana Fernandes, Arch.</p> <p><b>Permanent Personnel</b><br/>Total: 12<br/>Graduates: 6<br/>Other Technicians: 3<br/>Administrative Staff: 3</p> <p><b>Turnover (2015)</b><br/>630.000 Euros</p> <p><b>Main Associations</b></p> <ul style="list-style-type: none"> <li>• APMI –Portuguese Association of Industrial Maintenance</li> <li>• APPC – Portuguese Association of Engineering and Management Consultants</li> <li>• GECORPA – Portuguese Association of Companies dealing with Conservation of the Heritage</li> <li>• CentroHabitat – Platform for Sustainable Construction</li> </ul>   |  <p>Diagnóstico, Levantamento e Controlo de Qualidade em Estruturas e Fundações, Lda.</p> |
| <p><b>Certifications</b></p> <ul style="list-style-type: none"> <li>• The company has been awarded Quality Assurance certification to ISO 9001:2008 standard by APCER</li> <li>• “Quality General Manager” LNEC’s (National Laboratory for Civil Engineering) Quality Mark</li> <li>• SME Excellence award 2010 and 2011</li> </ul> | <p><b>General Description</b></p> <p>OZ was founded in 1988. Its main activity is carried out in the field of non-destructive and semi-destructive tests in the inspection, survey, monitoring and quality control of structures and its materials. These techniques are applied by OZ, mostly to current reinforced concrete structures. However, they may also be used in the quality control of conservation and restoration interventions, in order to ensure conformity with the specifications, particularly those concerned with compatibility and durability. Beyond this main activity, Oz develops maintenance management systems for buildings and structures, architectural design review and rehabilitation projects. Oz has been awarded “Quality General Manager” LNEC’s (National Laboratory for Civil Engineering) Quality Mark.</p> <p><b>Main Expertise</b></p> <ul style="list-style-type: none"> <li>• Diagnosis, survey and monitoring (non-destructive testing)</li> <li>• Quality management</li> <li>• Maintenance plans for buildings</li> <li>• Project revision</li> <li>• Studies and projects</li> <li>• Improvement of buildings energy consumption</li> <li>• Architectural surveys</li> </ul> <p><b>Services</b></p> <ul style="list-style-type: none"> <li>• Diagnosis, survey, monitoring and quality control techniques: <ul style="list-style-type: none"> <li>– petrographic analysis of concrete and mortar</li> <li>– reinforcement detection and size evaluation, cover measurement</li> <li>– active corrosion detection and rate evaluation</li> <li>– electrochemical potential mapping</li> <li>– "in situ" evaluation of chlorides in concrete</li> <li>– assessment of carbonation depth of concrete and mortars</li> <li>– concrete core tests for strength evaluation</li> <li>– test on samples for steel modules and tensile strength evaluation</li> <li>– ultrasonic pulse tests of concrete</li> <li>– adhesion tests on steel plate strengthening</li> <li>– pull-out tests of concrete</li> <li>– integrity test of concrete piles using the sonic method</li> <li>– concrete permeability tests (air and water)</li> <li>– schmidt hammer tests</li> <li>– anomaly survey of ancient masonry buildings including timber structures</li> <li>– flat jack tests of masonry</li> <li>– mechanical pulse tests of masonry</li> <li>– resistographic tests of wood elements</li> <li>– photogrammetric survey of monuments and ancient buildings</li> <li>– architectural surveys of ancient masonry buildings</li> <li>– termographic surveys</li> <li>– structural vibration analysis and monitoring</li> <li>– load tests of structures</li> <li>– topographic surveys</li> <li>– crack and cracking patterns monitoring</li> <li>– Monitoring the behavior of structures through static and dynamic sensors</li> <li>– Monitoring of corrosion of structures using embedded sensors</li> </ul> </li> <li>• Maintenance management plans for buildings and industrial and transportation infrastructures</li> <li>• Architectural design review for new or existing constructions</li> <li>• Engineering, architectural design and consultancy for rehabilitation projects</li> </ul> <p><b>Significant Last Words</b></p> <ul style="list-style-type: none"> <li>• Egeac – Diagnosis of the conservation and identification of the pathologies of the stone cladding of Padrão dos Descobrimentos, in Lisbon (2009)</li> <li>• Portuguese Ministry of Culture – Photogrammetric study with pathology mapping of the geometry of the facades of São João National Theatre in Oporto (2009)</li> <li>• Abrantes city council - Preliminary characterization of the Convent of Saint Domingos and structural survey - Iberian Museum of Archaeology and Art Abrantes (2010)</li> <li>• Vista Alegre Church - Study and diagnosis, including geotechnical recognition survey, structural deformation assessment, architectural surveying, monitoring of displacement and rehabilitation project (2010)</li> <li>• Lisbon city council - Providing services in nondestructive structural survey of Design and Fashion Museum building (2010)</li> <li>• Epal - detailed inspections of Lisbon Country public water supply infrastructures of EPAL (2011)</li> <li>• SONAE SIERRA – Inspection and structural testing of Parking Lot Building of Via Catarina Shopping Center, in Oporto (2012)</li> <li>• Saint Mary’s Hospital. Inspection and structural rehabilitation design of the facades (2013)</li> <li>• PT Marconi building. Diagnosis of anomalies (2013)</li> <li>• Oporto’s Economy University. Inspection and structural rehabilitation design of the facades (2013)</li> <li>• EDP’s new headquarters. Passageways monitoring (2014)</li> <li>• Beatriz Angelo’s Hospital. Maintenance plan (2014)</li> <li>• ARSLVT – Inspection of Health Centers located in Torre da Marinha, Santiago de Palmela, Brandoa and S. João da Talha. (2014).</li> <li>• DGLAB – Tombo’s Tower building, in Lisbon. Preliminary study (2015)</li> <li>• Htecnic – Inspection of structures and existing support structures of the Lisbon Metro viaducts. (2015)</li> <li>• Parque Escolar – Preliminary study on the structural and constructive characteristics of the Music School of the National Conservatory buildings (2015)</li> </ul> <p><b>International Experience</b></p> <ul style="list-style-type: none"> <li>• “Tower of Mindelo” – work assessment and structural design, in Cape Verde (2000)</li> <li>• “Caneco Yard”, Rio de Janeiro – Preliminary inspection leading to report, in Brasil (2007)</li> <li>• Proman – Inspection of Port of Nacala, in Mozambique (2008)</li> <li>• Grid - Survey, inspection, testing, characterization and rehabilitation design of 4 bridges in Senegal (2010)</li> <li>• Proman - Visual inspection of the dry dock at the Port of Dakar, including report with preliminary diagnosis of anomalies and possible remedial measures (2010)</li> <li>• Grid - Rehabilitation design of the bridge of Tobor, in Zinguinchor (Senegal) (2011)</li> <li>• Novacimangola Luanda – Inspection and diagnosis of the condition and safety of concrete structures (2013)</li> <li>• Luanda’s island bridge pier. Inspection and diagnosis (2014)</li> <li>• Edgar Cardoso - Maintenance plan of Nacala’s Port bridge pier, in Mozambique. (2015)</li> <li>• NSE – Inspection of bridges, in Panamá (2015)</li> <li>• InfraUrbe – Inspection of water tank, in Kuito Angola (2015)</li> </ul> |  |
|  <p>PORTUGUESE ASSOCIATION OF ENGINEERING AND MANAGEMENT CONSULTANTS</p> <p>Last update: 04-06-2016</p>  |  |  |