

# Sports Facilities



ENG

**DUCTOS**  
GROUP



# the company



**Ductos Group** started off as a private limited corporation in July 1992, as a result of an already long collaboration between its partners, collaborators and consultants, working together in the preparation and implementation of studies and projects for public and private entities.

**Ductos Group** professional and technical staff includes a team of Engineers, who possess qualifications in the several fields of Engineering. Our professional and technical staff are supported by CAD technicians, administrative staff and when necessary, consultant specialists in various subject areas.

With a sustained growth and implantation in international markets, **Ductos** is now known as **Ductos Group**. With local societies constituted in **Mozambique** and in **Macau**, we also consolidated our position in such significant markets like **Angola, Brazil, Cape Verde** and **Algeria**, where we continue developing studies and projects in several areas.



As a result of **Ductos Group** development and its growing role within international markets, a strategy was defined looking to establish new society constitutions and partnerships in countries which have Portuguese as the official language.

By September 2009 **Ductos Group** was already established in **Angola**, in order to provide a direct response to its customers, projects, and on-going work in this country.

In October 2010, a new office headquarters was open in the City of Praia, Santiago Island, **Cape Verde**, giving response to all the local solicitations.

## internationalization

As a consequence of an implemented strategic expansion, and the high volume of business in **Brazil**, **Ductos Group** created a new company with its headquarters in São Paulo.

**Ductos Group** is also present in **Mozambique**, where in July 2012 established a new society, having its headquarters in Maputo.

In January 2013, **Ductos Group** has begun the process of incorporating a company in **Macau**, in response to the great challenges of the East.

# specialties

Having a group of engineers and technicians with a solid experience in our subject fields, **Ductos Group** provides services in the following areas:

**Hydraulic Installations;**  
**Sustainability;**  
**General Infrastructure;**  
**Basic Sanitation;**  
**Other Specialties.**

in partnership:

**Structures and Foundations;**  
**Special Technique Installations;**

You can find below our engineering specialties.



# specialties



## Hydraulic Installations

- Water Supply Equipments and Installations;
- Water Equipments and Installations for Fire Services;
- Water Drain Systems and Installations for Domestic Waste Waters and Rain Waters;
- Fuel Gas Mains Installations.

## General Infrastructure

- Road infrastructure;
- Water Supply Infrastructure, Irrigation, Fire Services;
- Domestic Waste Waters and Rain Water Infrastructure;
- Gas Mains Infrastructure;
- Electrical Infrastructure and Lighting;
- Telecommunications Infrastructure;
- Urban Solid Waste Infrastructure.

## Sustainability

- Sustainable Construction;
- Systems Centralization;
- Economy of the Consumption of Water;
- Exploration Economy;
- Use and reuse of water resources, especially rainwater and domestic waste waters for irrigation, washing and special consumption systems.

## Basic Sanitation

- Water Supply;
- Sanitation;
- Water Treatment Station;
- Waste Water Treatment Station.

## Other specialties

- Health and Safety Plans;
- Urban and Municipal Solid Waste;
- Medical Gases;
- Hydraulic Circuits in Pools and Water Games.



# in partnership



## Structures and Foundations

- Studies and Evaluation of existing constructions;
- Geotechnical Report Analysis;
- Excavations and Earthworks;
- Foundations; underground and surface floor structures.

## Special Technique Installations

- Installations and Electrical Equipment;
- Installations and Communication Equipment;
- Installations and HVAC Equipment (Mechanical);
- Installations and Electromechanical Equipment;
- Integrated Security;
- Acoustics;
- Temperature Control;
- Centralized Technical Management;
- Luminosity Studies.

## sports facilities





# pavilhão atlântico

**CLIENT** PAVILHÃO MULTIUSOS DE LISBOA, S.A.

**LOCAL** Lisbon

**AREA OF CONSTRUCTION AND DESCRIPTION OF THE DEVELOPMENT** Total Area of 50.000m<sup>2</sup>  
Composed by three integrated areas, all spaces are easily adapted to the needs and characteristics of each event. The Atlantic Room, with an arena of 5200 m<sup>2</sup> and capacity for 12 500 people seated. The Sala Tejo, has 2200 m<sup>2</sup>. And the Business Center, with its 100 seat auditorium and 11 integrable conference rooms.

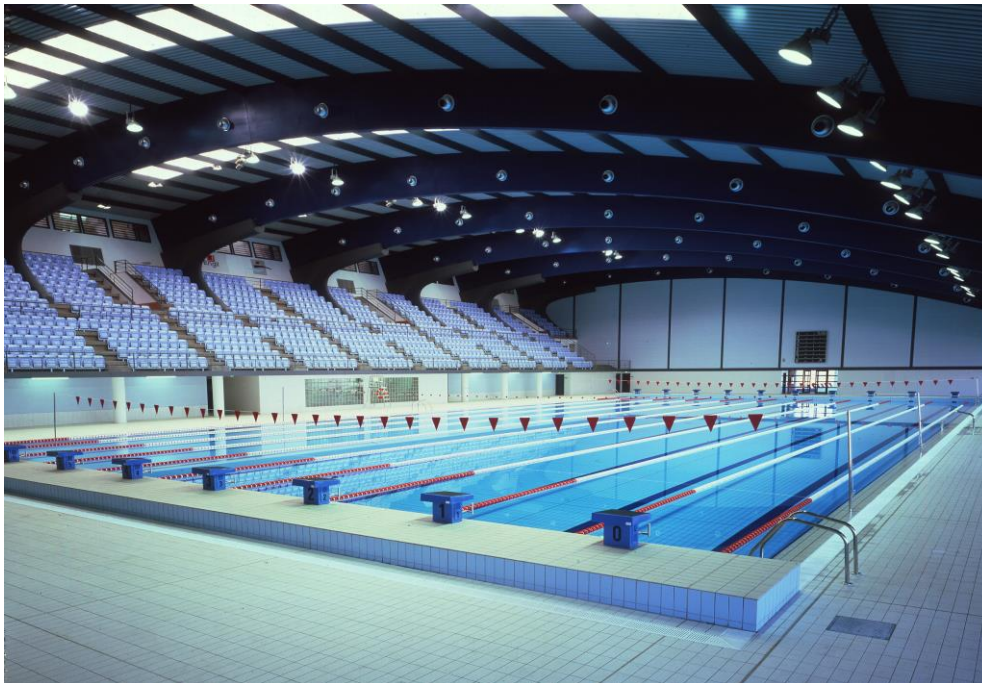
**PROJECT DESCRIPTION** Ductos was responsible by the Concept and Detail Design of:

- Water Supply Installation Equipment;
- Reservoirs and Pumping Water Central;
- Central Water Heating;
- Sewage and Drainage Installation Equipment;
- Underground Drainage;
- Gas Installation Equipment.

**DATE** October 1995



# olympic pool of lisbon university stadium



**CLIENT**

**ESTÁDIO UNIVERSITÁRIO DE LISBOA**

**LOCAL**

Lisbon

**AREA OF CONSTRUCTION  
AND DESCRIPTION OF THE  
DEVELOPMENT**

Olympic Pool of 50m and Training Pool of 25m.  
Capacity of 1200 people seated and 70 VIP seats. 12 Shower  
Rooms, 8 for athletes use, 2 for children and babies and 2 for staff  
use.

**PROJECT DESCRIPTION**

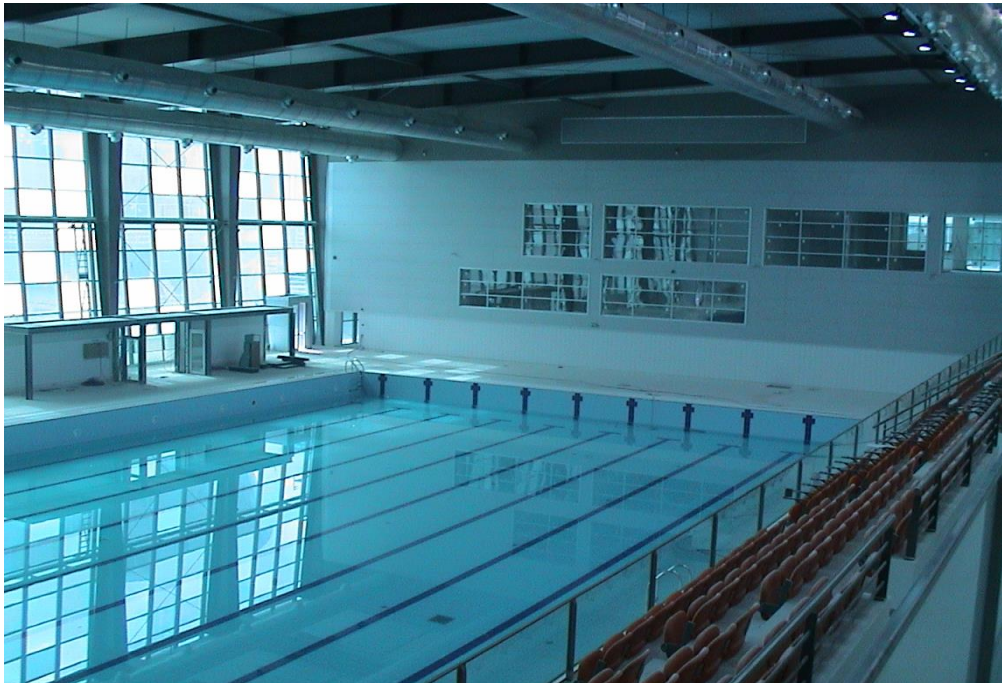
Ductos was responsible by the Concept and Detail Design of:

- Water Supply Installation Equipment;
- Reservoirs and Pumping Water Central;
- Central Water Heating;
- Sewage and Drainage Installation Equipment;
- Underground Drainage;
- Gas Installation Equipment;
- Hydraulic Circuits of the Pool.

**DATE**

October 1996

# eurostadium – sports complex



<b>CLIENT</b>	<b>APLICAÇÃO URBANA VI, S.A. – INVESTIMENTOS IMOBILIÁRIOS, S.A.</b>
<b>LOCAL</b>	Coimbra
<b>AREA OF CONSTRUCTION AND DESCRIPTION OF THE DEVELOPMENT</b>	Commercial Area: 53189 m <sup>2</sup> ; Commercial Services: 11904 m <sup>2</sup> ; Habitation: 11999.5 m <sup>2</sup> ; MultiSports Pavilion: 7888 m <sup>2</sup> ; Olympic Pool: 12000m <sup>2</sup> ; Parking: 73000 m <sup>2</sup> .
<b>PROJECT DESCRIPTION</b>	Ductos was responsible by the Concept and Detail Design of: <ul style="list-style-type: none"><li>• Water Supply Installation Equipment;</li><li>• Fire Fighting Installation Equipment;</li><li>• Sewage and Drainage Installation Equipment;</li><li>• Underground Drainage;</li><li>• Gas Installation Equipment;</li><li>• Hydraulic Circuits of the Pool.</li></ul>
<b>DATE</b>	October 2002

# stadium alvalade XXI – multi-sports



<b>CLIENT</b>	<b>SPORTING CLUBE DE PORTUGAL</b>
<b>LOCAL</b>	Lisbon
<b>AREA OF CONSTRUCTION AND DESCRIPTION OF THE DEVELOPMENT</b>	Main Pool: 25m x 21m x 2,00m (8 lanes) - Temperature 26/28° Small Pool: 25m x 12,5m x 0,70m/1,20m (6 lanes) - Temperatura 28/30° 2 Climatized male changing rooms 2 Climatized female changing rooms.
<b>PROJECT DESCRIPTION</b>	Ductos was responsible by the Concept and Detail Design of: <ul style="list-style-type: none"><li>• Water Suply Installation Equipment;</li><li>• Fire Fighting Installation Equipment;</li><li>• Sewage and Drainage Installation Equipment;</li><li>• Underground Drainage;</li><li>• Gas Installation Equipment;</li><li>• Hidraulic Circuits of the Pool.</li></ul>
<b>DATE</b>	November 2002

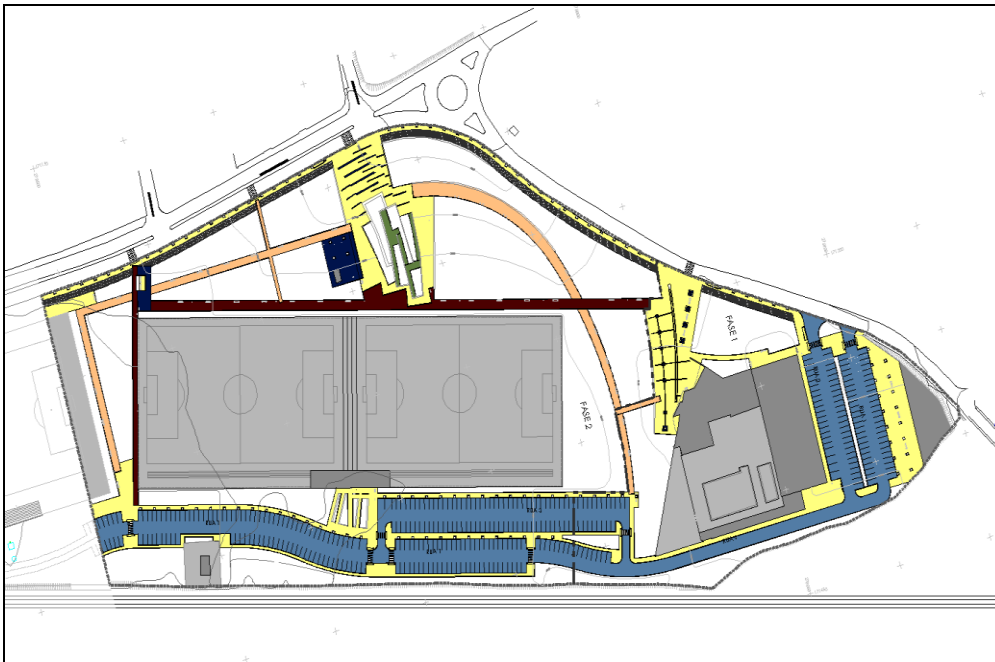


# eurostadium – indoor pool of pedrulha



<b>CLIENT</b>	<b>APLICAÇÃO URBANA VI, S.A.</b>
<b>LOCAL</b>	Coimbra
<b>AREA OF CONSTRUCTION AND DESCRIPTION OF THE DEVELOPMENT</b>	Area of 2355 m2. The Sport Facility is constituted by 3 pools. One indoor pool with 25m and 2 outdoor pools with 25m and 50m.
<b>PROJECT DESCRIPTION</b>	Ductos was responsible by the Concept and Detail Design of: <ul style="list-style-type: none"><li>• Water Supply Installation Equipment;</li><li>• Fire Fighting Installation Equipment;</li><li>• Sewage and Drainage Installation Equipment;</li><li>• Underground Drainage;</li><li>• Gas Installation Equipment;</li><li>• Hidraulic Circuits of the Pool.</li></ul>
<b>DATE</b>	December 2002

# outside infrastructures of the municipal pools



<b>CLIENT</b>	<b>C.M. ENTRONCAMENTO</b>
<b>LOCAL</b>	Entroncamento
<b>AREA OF CONSTRUCTION AND DESCRIPTION OF THE DEVELOPMENT</b>	Urban Development of the surrounding area of the future soccer fields and existing pools with an area of 4,5 hectares.
<b>PROJECT DESCRIPTION</b>	DUCTOS was responsible by the design of: <ul style="list-style-type: none"><li>• Road Infrastructures;</li><li>• Water Supply Infrastructures;</li><li>• Sewage Infrastructures.</li></ul>
<b>DATE</b>	November 2003

# eurostadium – indoor pool of s. martinho



**CLIENT** APLICAÇÃO URBANA VI, S.A.

**LOCAL** Coimbra

**AREA OF CONSTRUCTION AND DESCRIPTION OF THE DEVELOPMENT** Total Area of 2302 m2.  
Capacity for 160 people seated and 50 swimmers seated.  
Pool with 25x16,7m, with average depth of 1,80m, 8 lanes with a width of 2,10m between them. Tank with 16,7x8 m, with a depth of 0,70 to 1,10m and 4 Lanes.

**PROJECT DESCRIPTION** Ductos was responsible by the Concept and Detail Design of:

- Water Supply Installation Equipment;
- Fire Fighting Installation Equipment;
- Sewage and Drainage Installation Equipment;
- Underground Drainage;
- Gas Installation Equipment;
- Hidraulic Circuits of the Pool.

**DATE** December 2003



# municipal pool of ameixoeira

**CLIENT**

**C.M. LISBOA**

**LOCAL**

Lisbon

**AREA OF CONSTRUCTION  
AND DESCRIPTION OF THE  
DEVELOPMENT**

Area above the ground: 2450m<sup>2</sup>

Area under the ground: 1200m<sup>2</sup>

Area of the pool: 402m<sup>2</sup>

**PROJECT DESCRIPTION**

Ductos was responsible by the Concept and Detail Design of:

- Water Supply Installation Equipment;
- Fire Fighting Installation Equipment;
- Sewage and Drainage Installation Equipment;
- Underground Drainage;
- Gas Installation Equipment;
- Hidraulic Circuits of the Pool.

**DATE**

May 2004



# municipal pool of vale do fundão



<b>CLIENT</b>	<b>C.M. LISBOA</b>
<b>LOCAL</b>	Lisbon
<b>AREA OF CONSTRUCTION AND DESCRIPTION OF THE DEVELOPMENT</b>	Area above the ground: 2450m2 Area under the ground: 1200m2 Area of the pool: 402m2
<b>PROJECT DESCRIPTION</b>	Ductos was responsible by the Concept and Detail Design of: <ul style="list-style-type: none"><li>• Water Supply Installation Equipment;</li><li>• Reservoirs and Pumping Water Central;</li><li>• Central Water Heating;</li><li>• Sewage and Drainage Installation Equipment;</li><li>• Underground Drainage;</li><li>• Gas Installation Equipment.</li></ul>
<b>DATE</b>	May 2004

# municipal pool of santa maria dos olivais



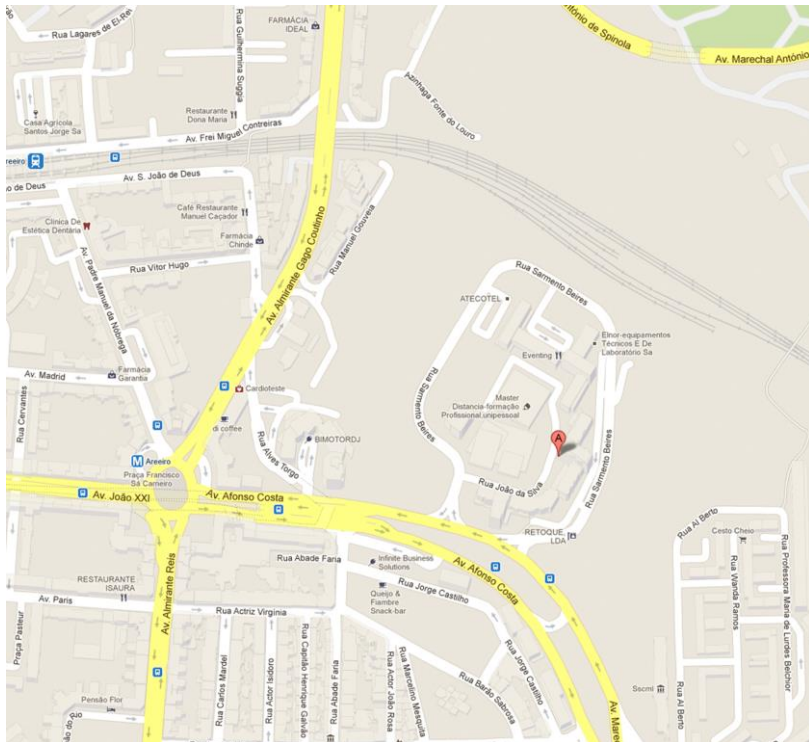
<b>CLIENT</b>	<b>C.M. LISBOA</b>
<b>LOCAL</b>	Lisbon
<b>AREA OF CONSTRUCTION AND DESCRIPTION OF THE DEVELOPMENT</b>	Area above the ground: 2450m <sup>2</sup> Area under the ground: 1200m <sup>2</sup> Area of the pool: 402m <sup>2</sup>

<b>PROJECT DESCRIPTION</b>	Ductos was responsible by the Concept and Detail Design of: <ul style="list-style-type: none"><li>• Water Suply Installation Equipment;</li><li>• Fire Fighting Installation Equipment;</li><li>• Sewage and Drainage Installation Equipment;</li><li>• Underground Drainage;</li><li>• Gas Installation Equipment;</li><li>• Hidraulic Circuits of the Pool.</li></ul>
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<b>DATE</b>	May 2004
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# Adress Lisbon-Portugal



# contacts

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