

The RECAL foundation's state of the art rehabilitation center



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Step by step care at the Recal Foundation..... therapy for life

Recal is a private, non-profit, healthcare organization, established in 2001, with a highly professional team of human resource specialists, including doctors, therapists and volunteers, gathered with the aim to help reintegrate into society individuals affected by addiction to any substance or behavior, inclusive of family support. The foundation's main aim is to offer care, treatment, recovery and rehabilitation for patients with addictive or behavioral disorders; the socio-professional reintegration of patients, helping them to face reality and develop new ways to live. This is made possible through the careful training of therapists in the treatment of addictions.

The specialists at Recal always offer a personalized treatment approach, according to the personal needs of the patient, so that each treatment is individual and unique. The patients also collaborate in defining the right treatment for them, being responsible for their own recovery. Along with diagnosis and treatment with conventional methods, the Recal Foundation offers many supplementary activities, including art therapy, yoga sessions, sports, social and team activities, as well as guidance and support for families.



Exterior view from the courtyard



Sports area between buildings



Canteen



Interior

Energy requirements of the property

- Heating and ventilation 57 330 kWh / year
- Air-conditioning system: 17,818 kWh / year

Performance of the heat pump:

- Energy consumption of the Heat pump: 15 231 kWh/ year
- Overall performance of the system 4.76 SPF (SPF)
- Overall energy savings: 79%.

Innovative technology providing a comfortably balanced environment.

The new home of the RECAL Foundation is a stunning, contemporary prefabricated 400 m² building, which was designed by the famous Spanish architect Joaquín Torres and cost 1 million Euros. The building attracts local and international attention and recognition as it is an innovative project, designed and constructed with care for resources and the environment. The building consists of

13 modules that were put together by A-cero Tech Company in only 10 hours. As the building is located in one of the highest ecological value areas in Spain, declared a Biosphere Reserve by UNESCO in 1993, the entire complex is integrated within the surrounding landscape, protecting the natural ecosystem. The outdoor area facilitates the center's educational and therapeutic programs. It allows for the development of outdoor activities in interaction with nature and the environment. It aims to encourage biodiversity and recreate natural habitats of various communities



Exterior view



Thermia Solid ground source heat pump

'We like to take care of our patients, the environment and the resources we receive from our patronage. That is the reason we installed a geothermal system from Thermia, it takes care of our indoor climate year round at a low cost'

says José Manuel SAINZ Quintana,
general director
of RECAL foundation



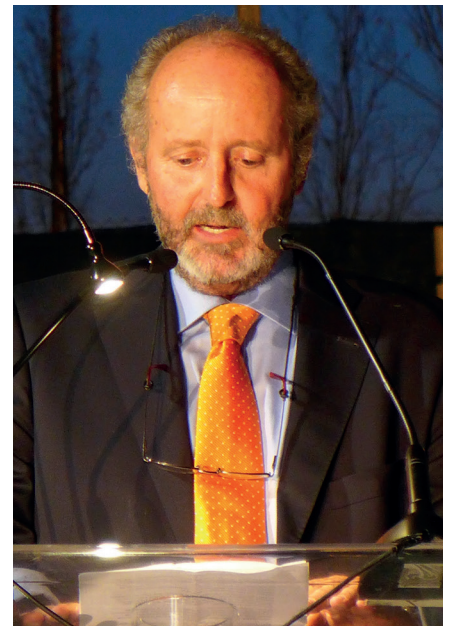
1st anniversary of new premises of Recal Foundation

of micro fauna, together with the surroundings, ensuring natural spaces and a global habitat, allowing the preservation of wildlife. The outdoor area includes: the main entry, a contemplation/prayer area, a bird and butterfly garden, a small lake, a sports area, trails and rest areas, as well as a great variety of trees and plants that create a beautiful, healthy and supportive atmosphere.

Geothermal energy from Thermia – A green solution.

Everything that has been designed, built and installed in the RECAL Rehabilitation center is energy effective, operates efficiently and is of the highest specifications. The solution chosen to provide heat and hot water is a Thermia Solid Eco 42, along with two hot water

tanks a Thermia model KBH 1000/210 geothermal heat pump connected to a vertically drilled geothermal field capable of simultaneous extraction and sludge recirculation. The system has energy sensors, which highly improve the ability to capture energy. The Thermia heat pump installation has reduced energy consumption, ensuring energy savings of 79%. Having low energy consumption is of a very high priority for a nonprofit organization which is set to run a 400 m² two-floor building, consisting of as many: a lobby, reception space, offices, salon, restrooms, a fitness center, dining room, kitchen, medical consulting room, 6 therapy areas, 3 conference rooms, a meeting space, a terrace, 19 rooms, a laundry and waste disposal room, as well as a large surrounding area. Thanks to the



José Manuel SAINZ Quintana,
general manager of RECAL Foundation

hot gas technology of the Thermia heat pump, the production of hot water is extremely efficient and is there on demand when demanded, being able to guarantee the level of comfort that a building of this size requires.

- Solution: Thermia Solid ground source heat pump
- Location: Majadahonda near Madrid, Spain

- Achritect: Joaquín Torres
- Completion date: 2014

Girod Geotermia - experienced partner in renewable energy on the Spanish peninsula

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Girod Geotermia is the distributor of Thermia in Spain with more than 600 installations since 2007 made in all types of climates on the Spanish peninsula. The highly qualified technical support and network of local installers guarantee the correct functionality of your Thermia installation. Girod Geotermia will design the best solution for your house or commercial property using the vast range of heat pumps offered by Thermia.

Ground source vertical or horizontal as well as air-to-water solutions delivering heat, cooling and hot water in the most efficient way. Girod Geotermia with the network of certified installers and drillers have successfully installed geothermal installations from 6 Kw for small houses to office buildings with more than 350 Kw. You can read more about Thermia projects in Spain and awards received for best installation in Spain at www.girodgeotermia.com



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Thermia – heat pump manufacturer with 40 years of experience



With more than 90 years of history and experience in the energy sector, Thermia Heat Pumps offer renewable energy solutions for any climate, anywhere in the world. All Thermia heat pumps are designed, manufactured and rigorously tested in Sweden where one of the harshest European climates can be found.

Ever since the beginning, the driving force behind our business has been the philosophy of our founder, Per Anderson: "The products one releases must not only be the best of their time, but before their time, over time".

At Thermia we are driven by this philosophy and our passion to deliver. For us every day is a new opportunity to create, build and serve a bigger purpose, for a greener and healthier planet, not only for ourselves but for everybody around us. Every challenge is Thermia's opportunity to make life a little more comfortable for our customers.

Thermia Heat Pumps

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