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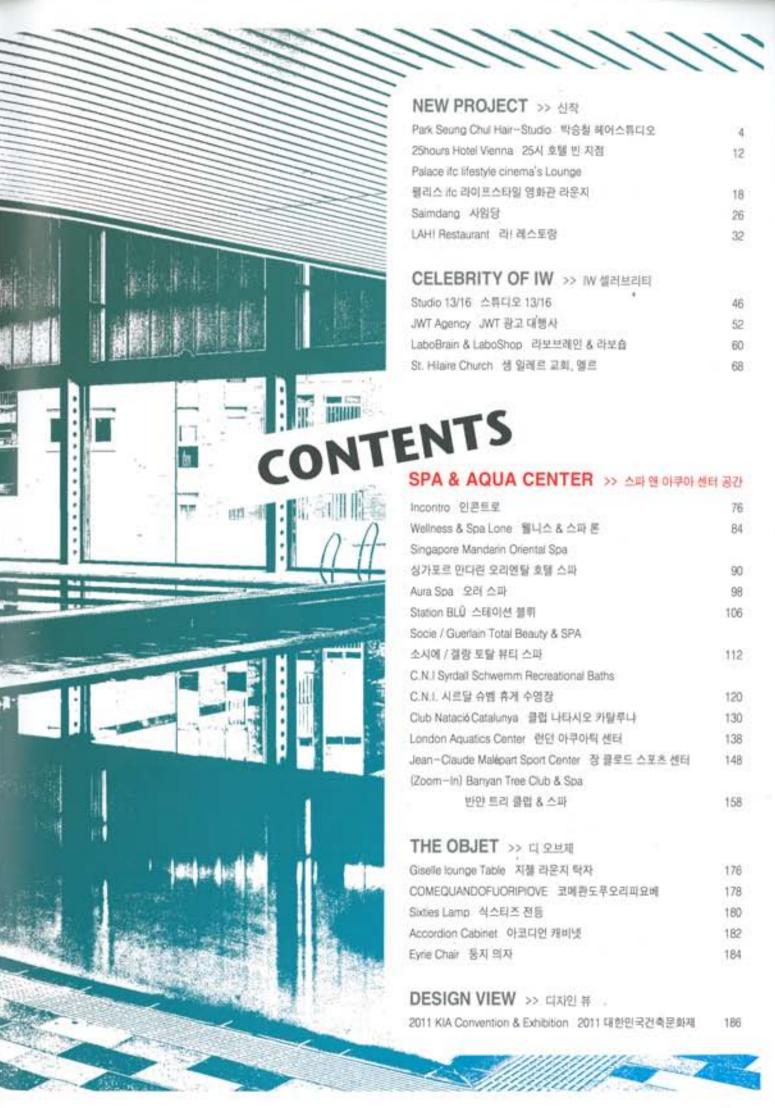
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»» SPA: AQUA CENTER: ZOOM-IN

(Ιυυ Παταίο (αταίυηνα



Design AlA salazarnavarro (www.aia.cat) Design Team Joan Carles Navarro, Teresa Junyent, Id arquitectes tecnics Location C/Ramiro de Maeztu 25, Barcelona, Spain Built Area 7,715m' Construction Dragados S.A. Photographs Ariel Ramirez Editor Ha Ji-hae





Swimming pool





Pool

Following a number of stages and different emplacements of the historic Club Natació Catalunya (CNC), at the beginning of the 70's the Barcelona City Council finally assigned the municipal sports facilities of Can Toda to the CNC. In 2006, the CNC contracted AIA to carry out the overall renovation and extension work aimed at converting the Can Toda Center into a reference in terms of sporting facilities for the city as a whole.

The initial plan for the project was structured in two phases, so that execution would be possible from a constructive point of view and also in order to guarantee an acceptable level of usage of the rest of the installations while the work was being done. However finally, and after verifying the difficulties involved, in terms of both construction and site management, given the sheer scale that the project represented, it was decided that the work would be done in a single phase.

The project design incorporated the latest technologies applicable for this kind of facility, both with regard to the treatment of the water in the swimming pools and in the thermal and the hygrothermal control of the air throughout the facilities, with the installation of a computerised control system that automatically optimises the functioning of the different systems at all times. These installations and the control thereof contributes to a minimisation of energy consumptions, adapting needs and production levels and ensuring a better utilization of natural climate control resources, along with the highly sustainable performance of the facilities as a whole. The first stage consisted of a complete renovation of the interior of the swimming pool. This was done by replacing both of the existing pool basins with two new, state-of-the art, stainless steel and polyester, overflow type basins. This intervention required the simultaneous demolition of the old poolside areas and the construction

of new pool surrounds around the new basins, along with the building of a large underground basement area to house the equipment and installations, completely replacing the existing facilities, which were insufficient for the new requirements.

The façade of the main body of the swimming pools employs solar control windows at the bottom along with a double-skin of orange cellular polycarbonate panels that allow for the incorporation of an adequate transmission factor and, at the same time, avoid excessive heating of the interior, minimizing the energy consumption required to ensure ideal humidity and temperature conditions in the pool area as a whole. The roof design consists of a structure of large 30-meter laminated wooden beam, supporting a light sandwich type roof that, due to its composition, guarantees the required level of thermal insulation. The large scale work of building the new inside swimming pools also includes the major transformation of the part of the building currently occupied by the changing rooms, gymnasium and access to the stands, etc.

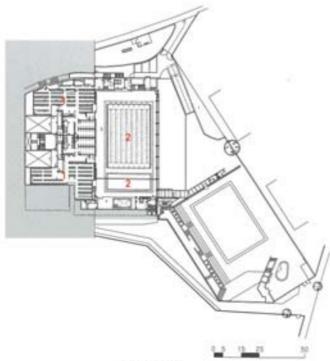
One of the main innovations at the new centrer has been the creation of an important services area called the 'Wellness Center', which includes novel concepts in the field of health and wellbeing. Activities have been organised around these concepts that are becoming increasingly more popular with the public. The main challenge of this project was how to convert the results of a range of different extension phases, introduced over the years, into a 'single' building. This has been achieved by means of volumetric and spatial reorganisation and a re-standardisation aimed at ensuring that both final image and functioning can be understood as both a balancing and a finite element.



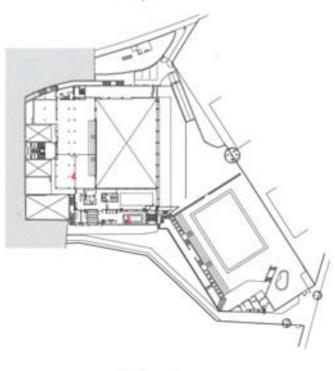
- Changing room
 Swimming pool
 Spa
 Fitness
 Lounge
 Service area







1st Floor plan



1.5st Floor plan





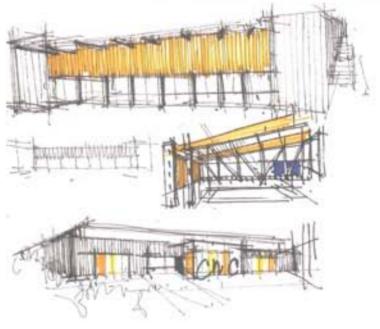












Sketch

클럽 나타시오 카탈루나는 수차례의 개조를 거친 역사적인 건물로써, 최근 기존 센터를 전반적으로 개조 및 확장하여 도심 에서도 스포츠를 즐길 수 있는 새로운 시설이 추가되었다. 디자이너는 이 프로젝트에서 수년간에 걸쳐 더해진 다양한 증축 공간들을 어떻게 하나의 건물 속에 통합할 것인가에 대해 많은 고민을 했다. 이에 볼륨과 공간을 제조직, 재설정하여 이미지 와 가능이 모두 균형을 이루는 한정된 요소처럼 보이도록 하였다.

먼저, 수영장 주요부의 파사드는 적절한 전도 매체로 통합되어 실내의 온도가 급격히 상승하는 것을 막고, 아중 폴리카보네 이트 판과 태양광 제어장으로 여너지 소비를 최소화했다. 이 개획으로 실내에는 이상적인 습도와 적절한 온도 조건을 맞추 가에 적합한 환경이 되었다. 또한, 내부에는 전면적인 개조를 통해 기존 수영장에 스테인래스 감, 폴리에스터를 새로이 덧붙 여 물이 흘러넘치는 형태의 최신식 수영장 두 개로 갖추도록 작업하였다. 이외에도 건강과 행복이라는 개념 아래 '웰니스 센터'라고 이름 불인 주요 서비스 구역이 신축 센터에 추가되었으며, 대중적이면서도 활기찬 분위기를 위해 다채로운 색상 을 중심으로 공간을 구성하였다.