Ceramics for the Sports Hall Mediterranean Games by bb arquitectes and AIA

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metalocus, JOAN MARSET

The project was the first prize of an international competition to build a Sports Palace that hosted the Mediterranean Games in 2018. The winning architects were the team formed by Barceló Balanzó Arquitectes & AIA Salazar Navarro.

The building is solved in a single volume that develops basically on two levels. One of its main characteristics is to have characterized its facade with ceramic pieces of different shapes and functions. Also interesting is the topographic displacement carried out, which improved the thermal inertia of the building.
Sports pavilion designed by bb arquitectes y AIA was capable of hosting the main sporting activity of the Mediterranean Games 2018. This sport centre has a capacity for 5,000 people, presides over the Olympic ring of the Campclar area in Tarragona, inside a large Mediterranean park and in coexistence with the other sports facilities in which the games are played.

Project description by bb arquitectes

A sports Pavilion is built capable of hosting the main sporting activity of the Mediterranean Games 2018. The Palau d'Esports Catalunya, with capacity for 5000 people, presides over the Olympic ring of the Campclar area in Tarragona, inside a large Mediterranean park and in coexistence with the rest of the reference sports equipment in the city.

In the south facade of the building the habitual access takes place, from the vertebral axis that organizes the sports complex; This access will solve the daily operation. Exclusive access for major sporting events will be made from the north facade, closest to the city.

The topography of the immediate surroundings of the Palau is modified, thus appearing a semi-underground area that contains part of the functional program, and that softens the presence of the building. This topographic modification improves the thermal inertia of the whole and its energy efficiency, allowing Canadian wells to passively renew air and English patios that allow natural light to enter.

The building is solved in a single volume that develops basically on two levels. Its dimension is determined by the measurement of the central space, which will allow to house 3 tracks of 44x22m contiguously, providing significant flexibility in the daily use of the Pavilion. The space for the public, located on the same access floor, allows you to visually control the enclosure in a unified way and establish a permeable visual relationship with the environment. In the lower level are the changing rooms, administration spaces, press rooms, reception and control of athletes, warehouses and facilities. On the upper level are the public access spaces, services, catering, press room and authorities as fixed elements.

The tradition of the Roman Tarraco makes us think of ceramics as the main material, a material that will be the formal support of the building. Used in the floor plan, the facade and the roof, in its different versions, grant unity to the built complex.

The enclosure is raised with a double facade, as a sun protection; through corrugated sheet sandwich panels, cellular polycarbonate panels, and practicable window modules. In the outer plane, fixed ceramic slats, arranged according to the orientation and position in height, confer the image of the building and the necessary sun protection, avoiding the direct impact on the playing space. The ground floor is solved with carpentry, prioritizing transparency.

The roof finish is solved by 30x30cm ceramic pieces joined together forming large sheets, allowing a ventilated air chamber and a suitable adaptation to the geometry of the roof. In the central area there is a 12x48 meter skylight that allows the natural lighting of the tracks and their darkening; the geometry of the false ceiling and the screens located under it sift the light and improve the acoustics of the space.

The structure of the roof is raised with a bidirectional lightweight metal structure, formed by trusses 50 to 70m in length every 12 meters, with a slight curvature allowing the thickness of the section to be optimized and to minimize costs. The vertical structure is formed by shielded reinforced concrete pillars joined by rings, also of concrete, which absorb horizontal stress.


PALAU DESPORTS CATALUNYA


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E0.1-E0.6
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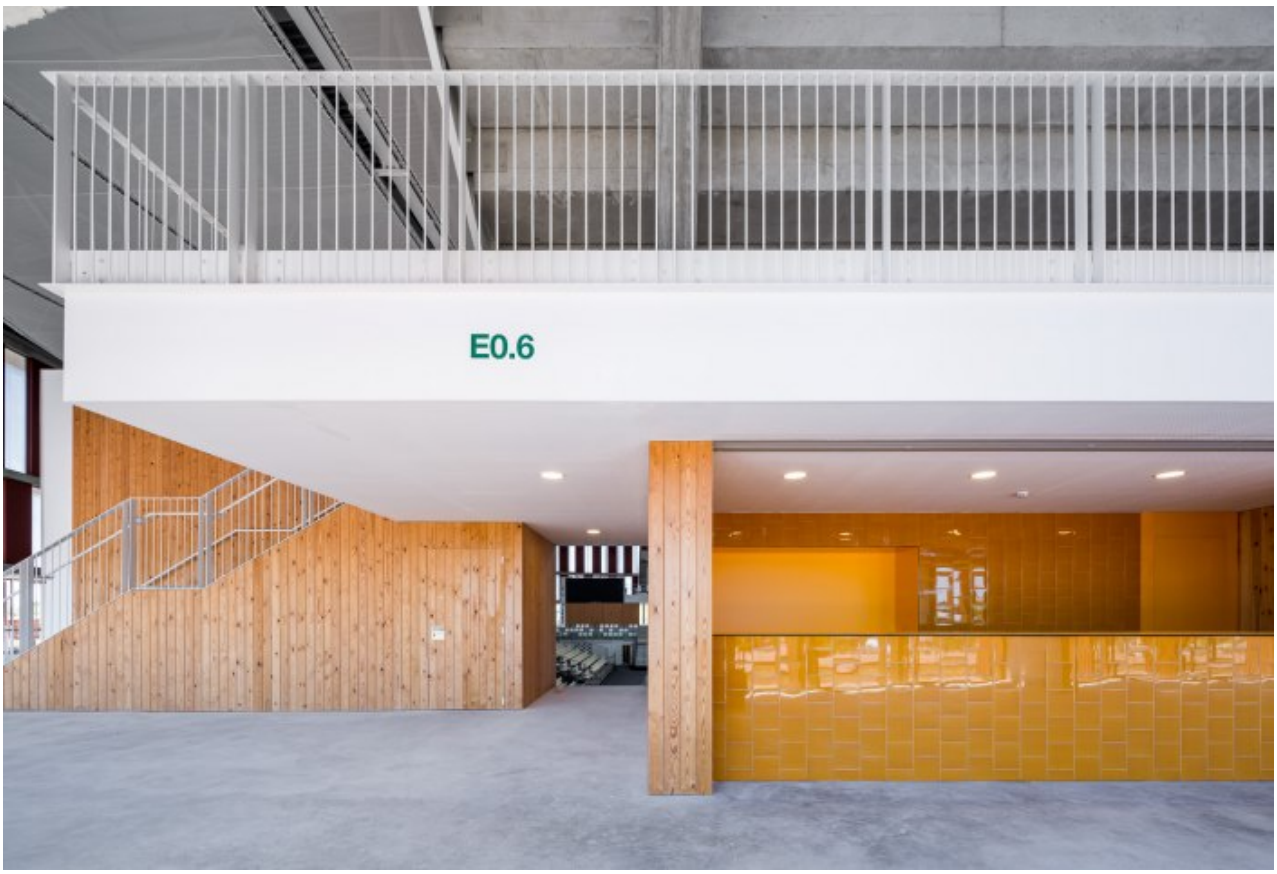
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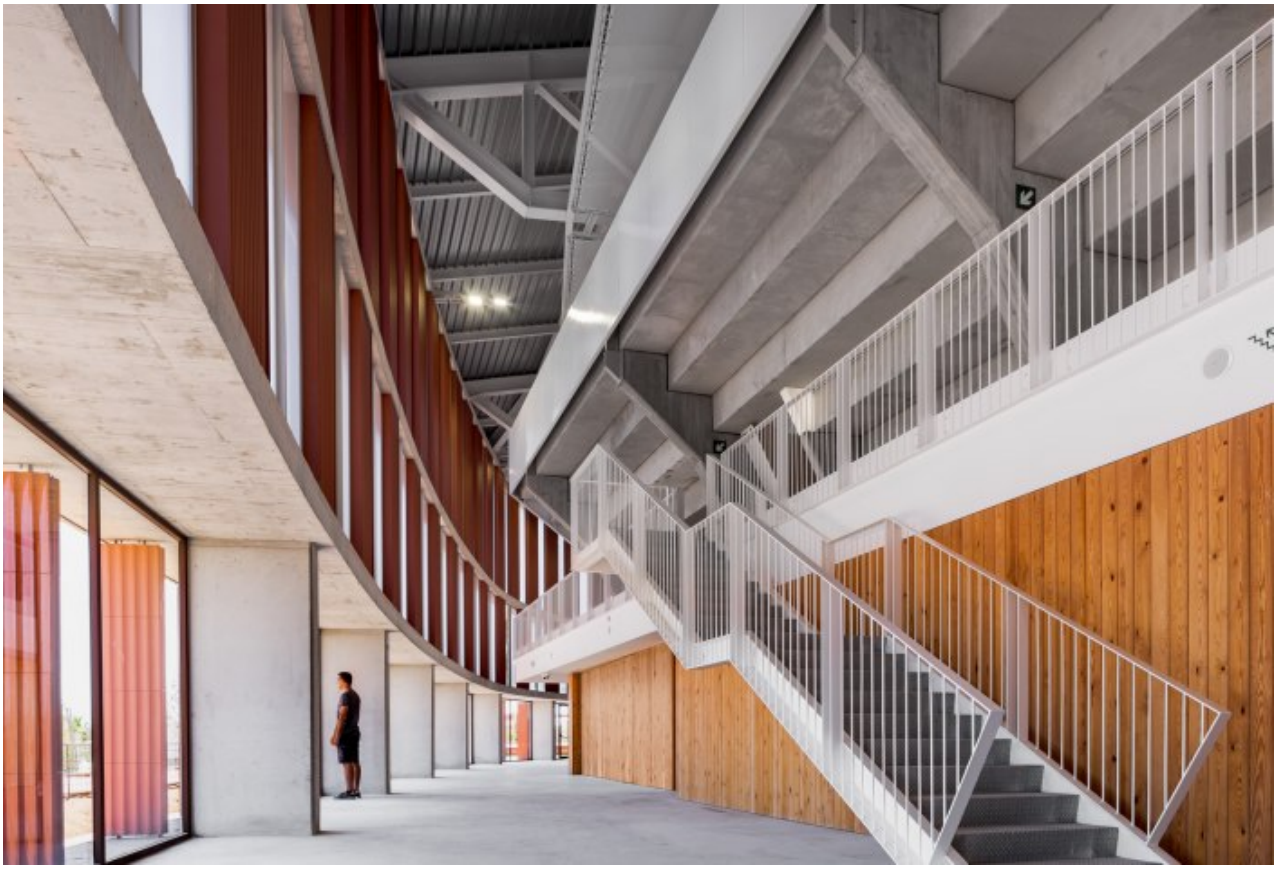
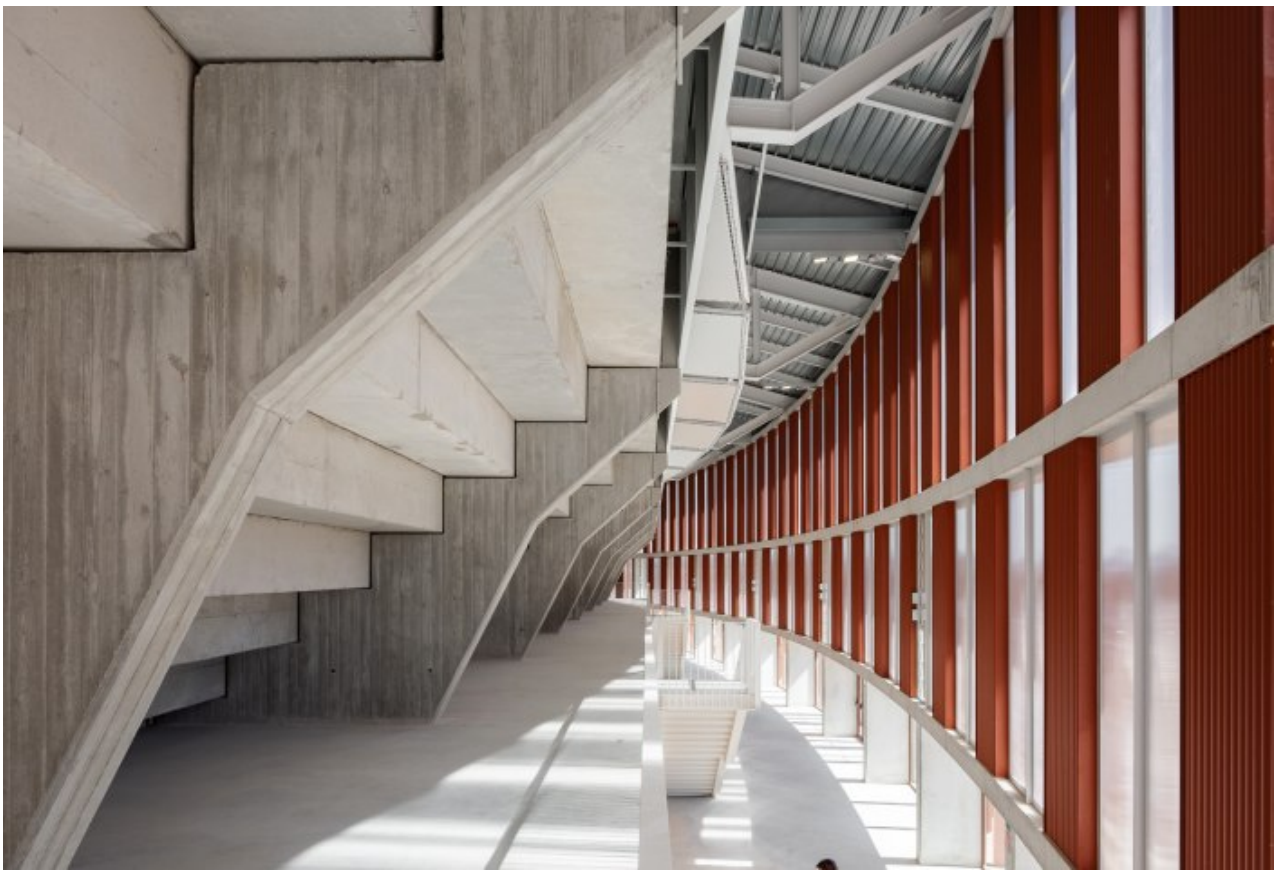
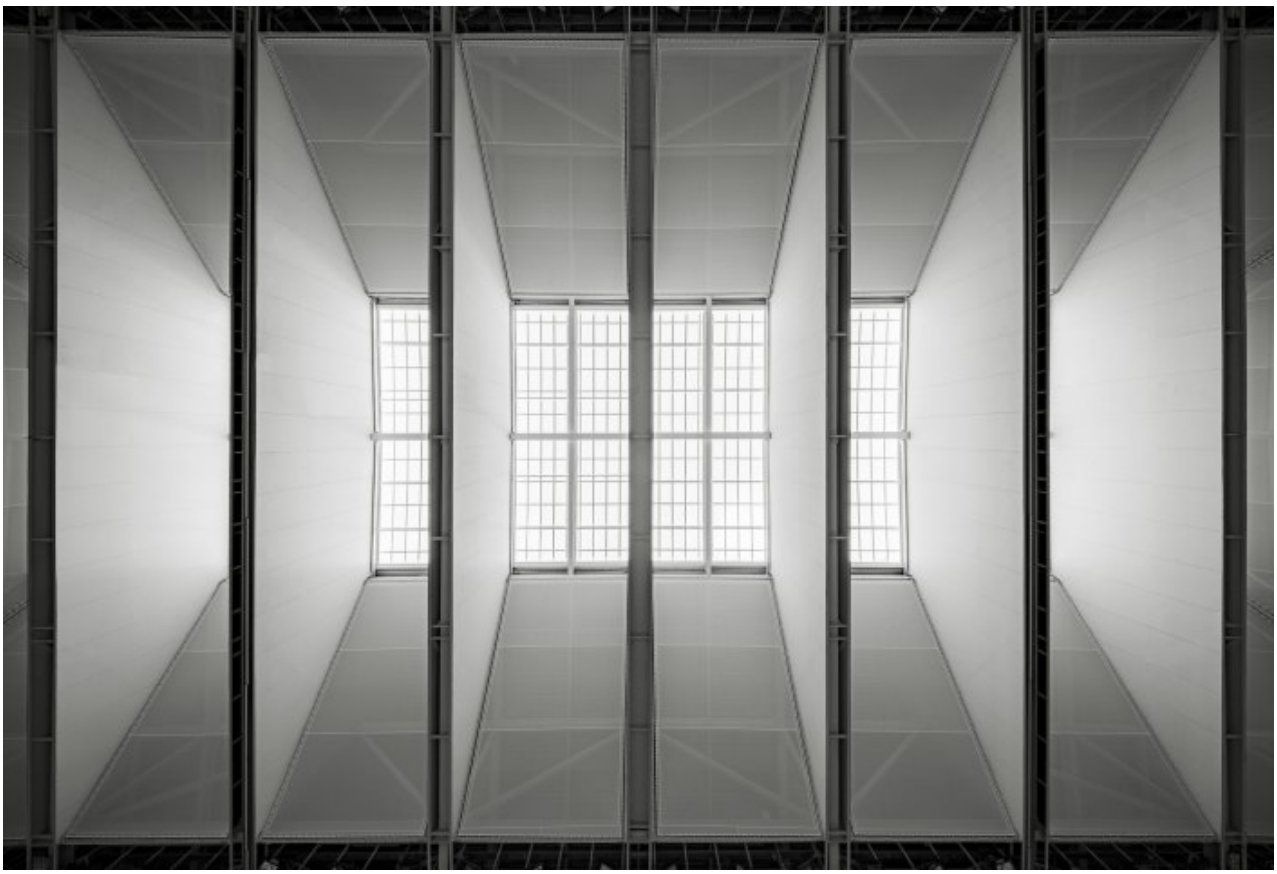
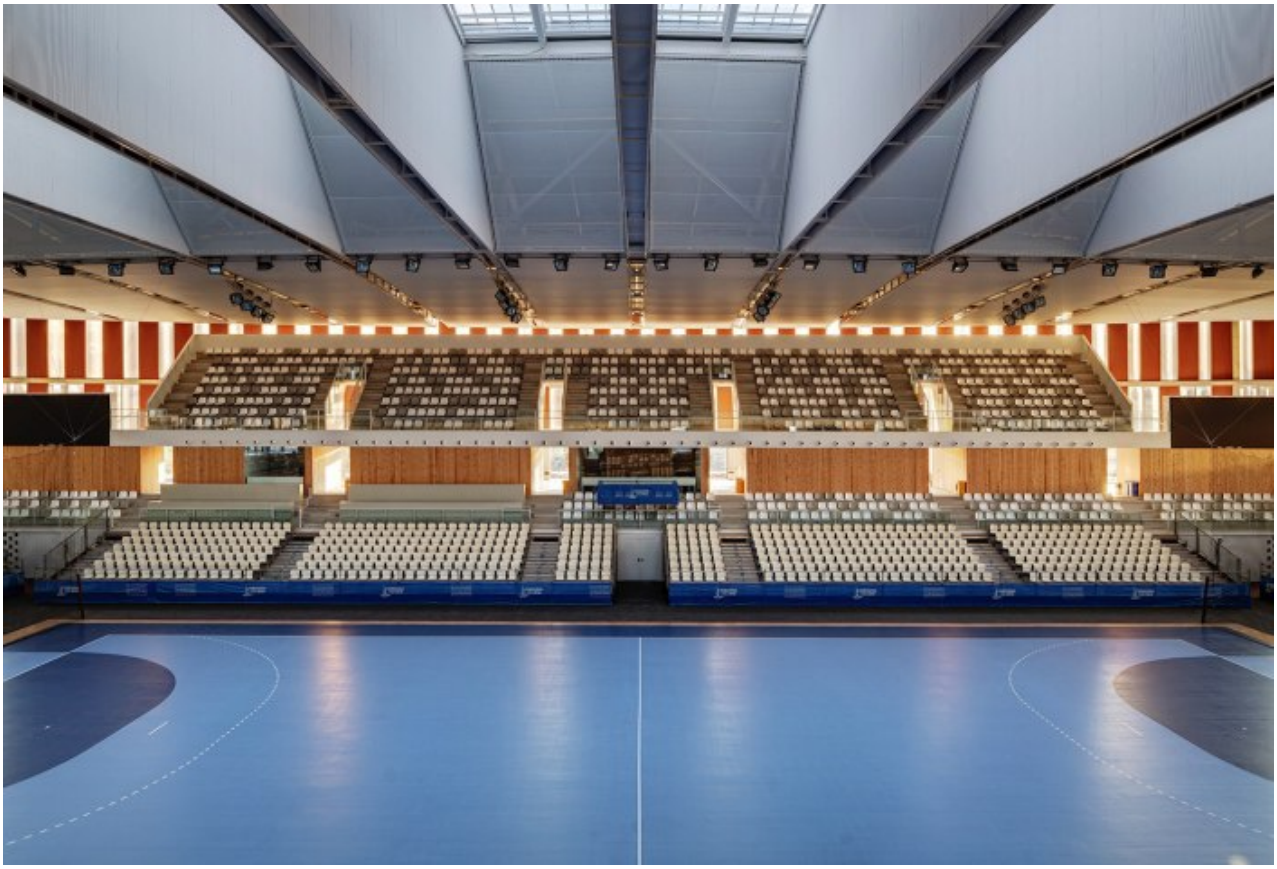
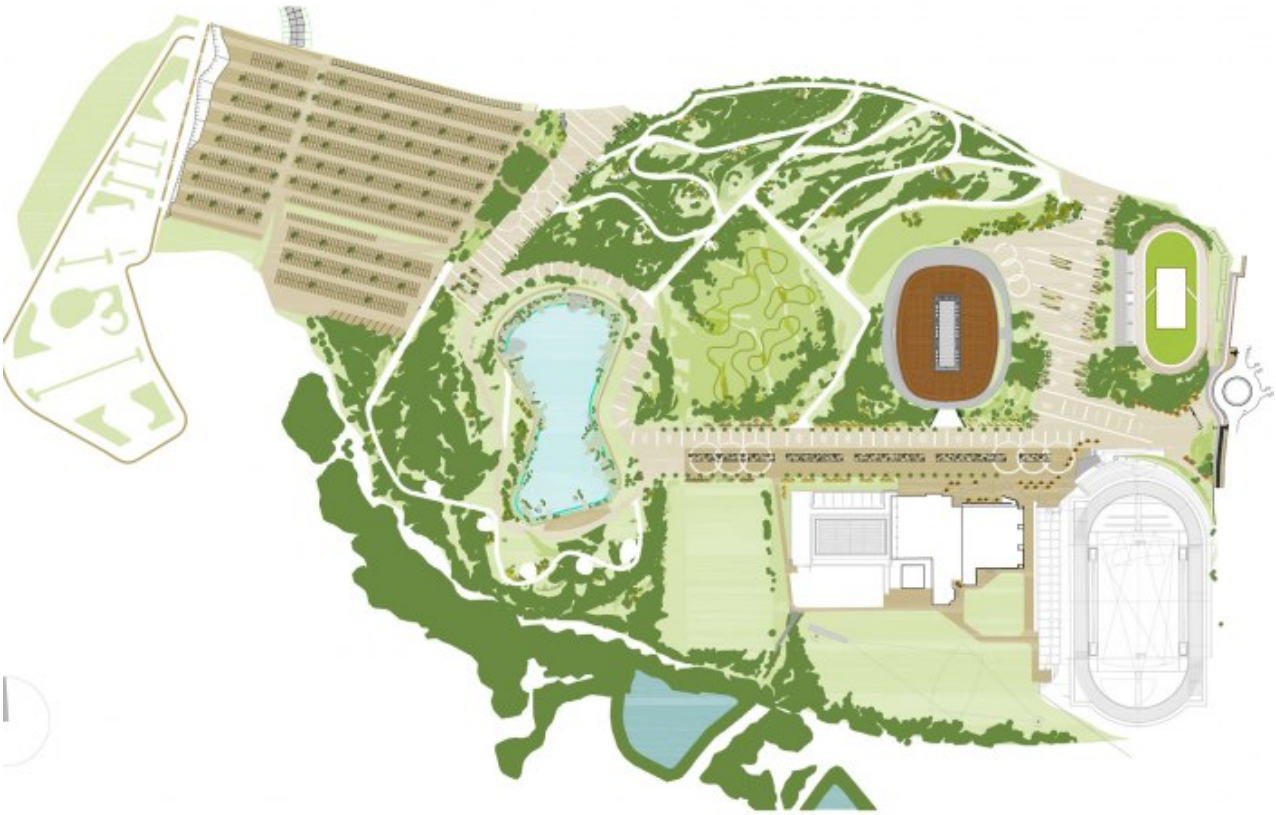
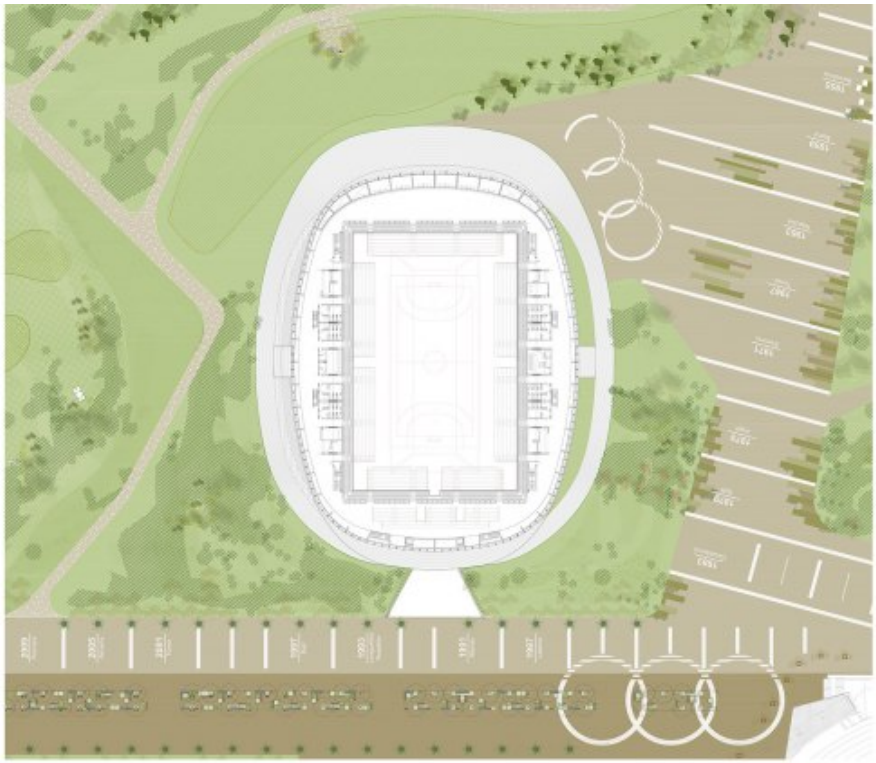




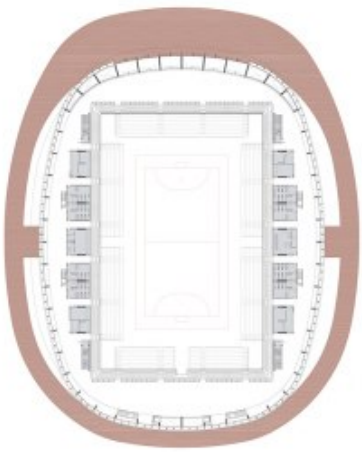




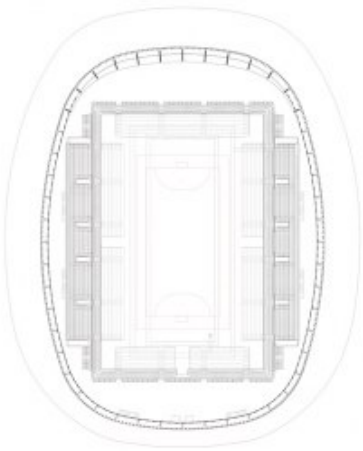




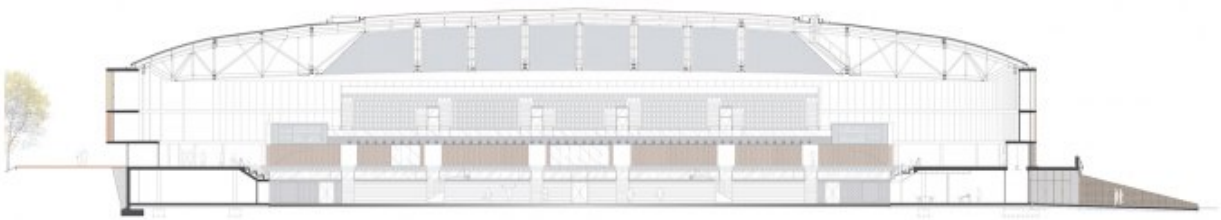
PLANTA SEMISOTERRANI



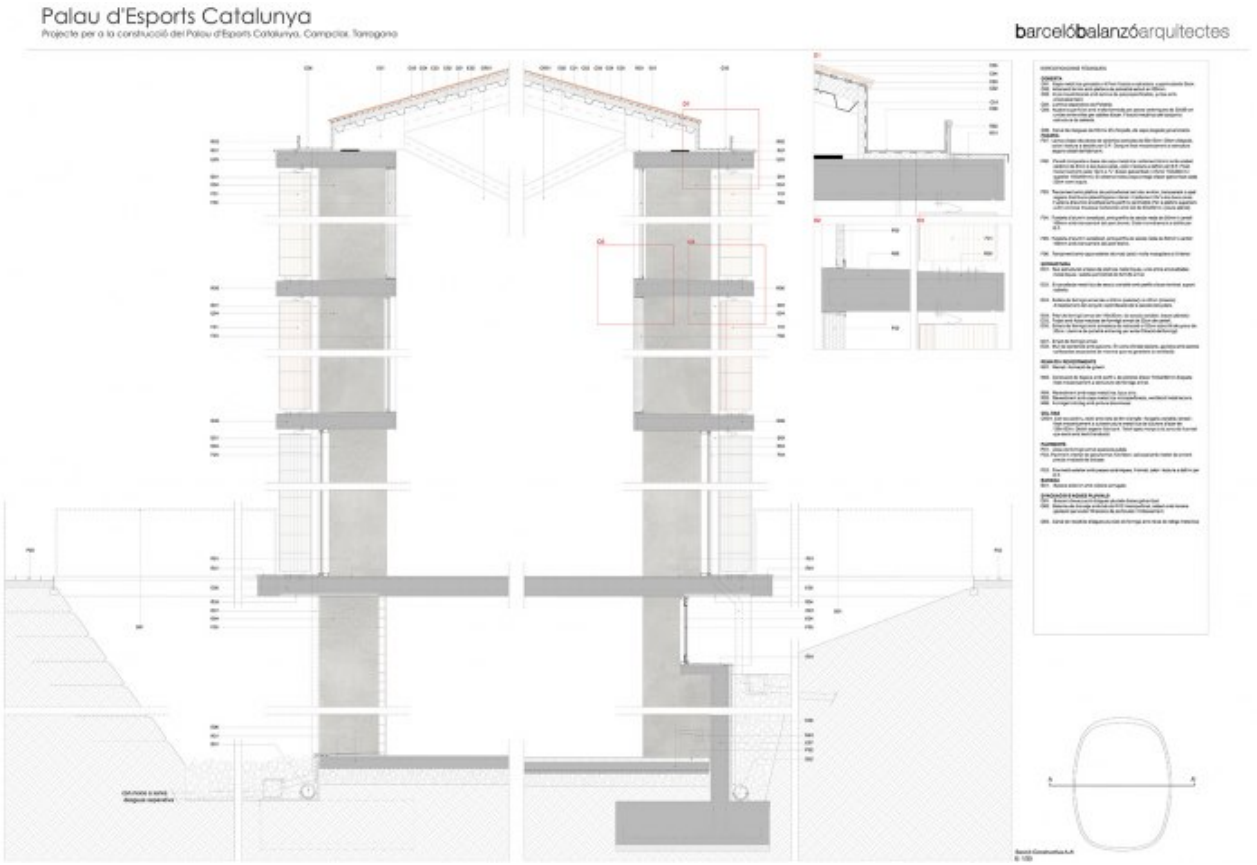
PLANTA BAIXA



PLANTA PRIMERA



SECCIÓ LONGITUDINAL



More information

Architects

UTE Barceló Balanzó Arquitectes & AIA Salazar Navarro. Antoni Barceló, Bàrbara Balanzó, Albert Salazar, Joan Carles Navarro
Collaborators

Collaborating Architects.- Jordi Darder, Miquel Masons, Ivan Ivanov, Aitor Martínez, Jairo Fernández, Cristina Monjas. Technical Architects.- Aumedes DAP & Serra & Perez. Daniel Serra, Ildefonso Pérez, Cesc de Haro, Xavier Aumedes, Toni Taltavull. Structure.- BAC, Gerard Bordon, Núria Jallé. Facilities.- AIA Instalacions Arquitectòniques, Cristian González, Xavier Martínez. Health and Safety.- A3 Technical Architecture, Mª Àngels Sánchez Pi.

Client

Generalitat de Catalunya, Consell Català de l'Esport

Builder companies

-UTE agrupación Guinovart obras y servicios Hispania, SAU & Obrascón Huarte Lain, SA (OHL). -TOP Proyectos & Contratas SL. -UTE ACSA Obras e Infraestructuras SA / Aquambiente Servicios para el Sector del Agua, SAU / Carbonell Figueres SA / VOPI-4

SA. -Cobra Instalaciones y Servicios SA.

Dates

Competition.- 2015. Works.- 2016-2018.

Area

10,822 m²

Location

C/ Riu Siurana s/n, Camp Clar, Tarragona. Spain

Budget

€14,543,375.07

Manufacturers

Ceramic Roof.- FLEX-BRICK (Piera). Ceramics Pavement urbanization.- Piera. Ceramics Façade (slat) .- Soladrilho. Polycarbonate Façade.- Aislux Catalunya SA. Exterior carpentry.- SECCO brand. Installer ALUMILUX SL. Electric panels.- LEGRAND. Track lighting.- GEWISS. Plumbing.- ITALSAN. VRV.- LG. Exhutorios.- COLT. Trusses and substructure false ceiling iron.- NEWMET. Gabions stone outside area entrance.- Joan Planas. Interior wood panels.- Gaspar Corts Vilaltella.

Photography

Simón Garcia

Bàrbara Balanzó Moral, Antoni Barceló Baeza. bb arquitectes

bb arquitectes. Architecture firm founded by Bàrbara Balanzó Moral and Antoni Barceló Baeza.

Antoni Barceló Baeza. Palma de Mallorca, Spain, 1971. Bachelor of Architecture. Superior Technical School of Architecture, Barcelona, 1996. Currently writing doctoral thesis. Established studio and offices with the architect Bàrbara Balanzó Moral – Barceló-Balanzó Architects, 1997.

Teaching.

1996-97 Teaching assistant, 'Projects V', Jaume Sanmartí Projects Atelier.

1997-98 Guest lecturer, ETSAB/UPC, Architectural Projects Department, 'Projects IX-X.'

Continuing commitment teaching the elective subject 'The five facades of collective housing'

2000-01 Lecturer, ETSAB/UPC, Architectural Projects Department, 'Projects VII-VIII'.

2002 Lecturer, ILAUD Venice Summer School.

2003 Lecturer, IDSA+U International Summer Workshop, ETSAB, Barcelona.

2004 Director, Summer Workshop, ETSAB, Barcelona.

Bàrbara Balanzó Moral. Barcelona, 1971. Bachelor of Architecture. Superior Technical School of Architecture, Barcelona, 1997. She shares professional studio with the architect Antoni Barceló Baeza, 1997.