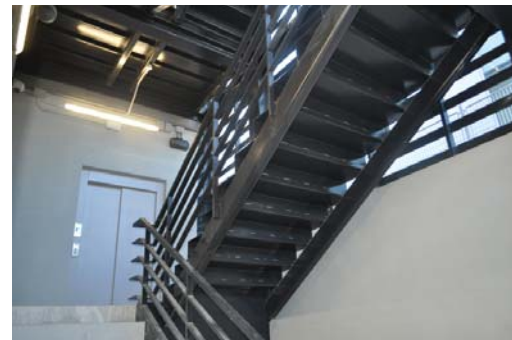




Azul st. Façade.

BBVA has just built a Multiple Services Complex for the new headquarters of this Company in Madrid (Las Tablas district). This multifunction complex building is, at the same time, a sport center, a physiotherapy center, a nursery and a kindergarten. This new Services Building is also fitted with a parking and a cafeteria. It is conveniently located opposite the new headquarters (the project of which was also authored by Ines Ingenieros Consultores), across Fresneda Street, now renamed Azul St., exactly in the plot M8 of Las Tablas.



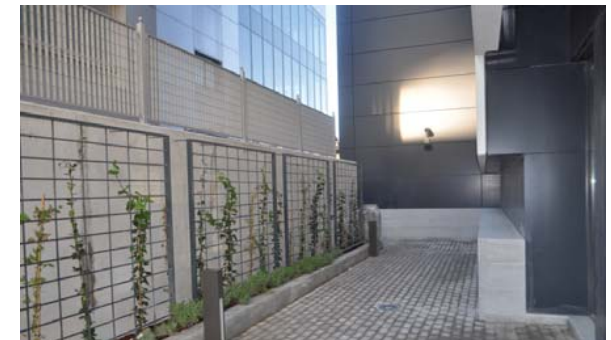
Main swimming-pool and other common areas of the Service building.

## Building for services complex for new BBVA Headquarters in Madrid.

Madrid.

CLIENT	BBVA / Arquetipo
DATE	2013 - 2015
LOCATION	Madrid, Spain.

FIELD OF ACTION	Construction Project and Technical Assistance during The Construction
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## Building for services complex for new BBVA Headquarters in Madrid.

**Madrid.**

Ines Ingenieros was in charge of two fundamental tasks related with the building of that complex: the drafting of the Retaining walls, Emptying, Foundation and Structural Construction Project, as well as the technical assistance work for those same four phases of construction, carried out between December 2013 and first months of 2015.

Aerial views of different phases of construction process.



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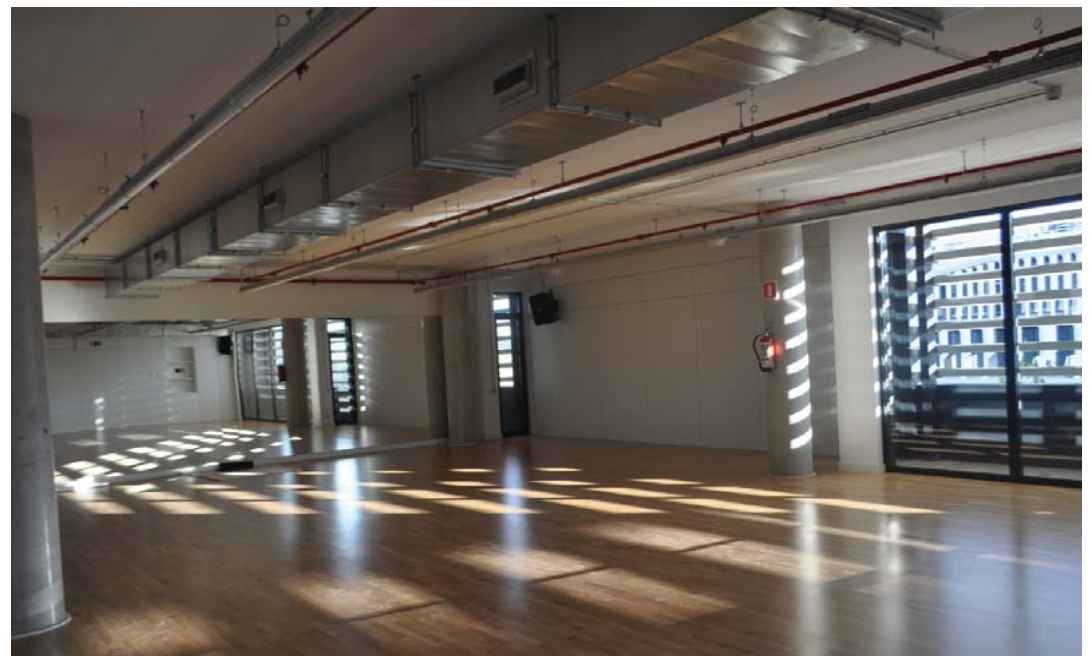
**Building for services complex for new BBVA Headquarters in Madrid.**  
Madrid.



Main swimming-pool and other common areas of the Service building.

Above ground level, the complex consists of two buildings connected by a walkway.

The eastern building has a rectangular floor plan (it houses the sport center, including a 25 x 12 m swimming pool, a more little one for children learning and a spa) and is three storeys high, while the western one is composed by three modules or 'fingers' (nursery school and kindergarten), with one storey less than the eastern one. The underground floors (basement -1 and semi-basement) and the ground floor occupy the entire surface between retaining walls



(continuous 45 cm thick RC slurry walls, with temporary anchors). Facilities and parking will be located in these underground floors.

The structure has been solved mainly in reinforced concrete (generally 25 to 32 cm slabs supported by columns separated approx. 7.8x7.8 m), although there is a unique area (roof of the main pool) where two rows of columns disappear. To solve this special geometric arrangement, two 150x170 cm prestressed

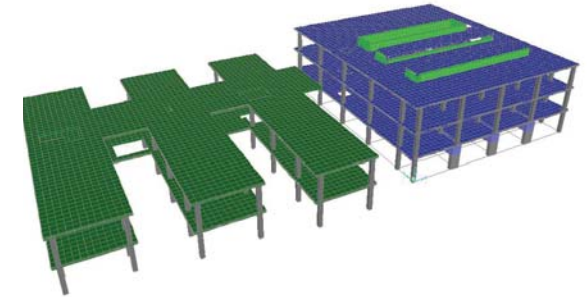
concrete downstand beams were executed. These beams are supported by rectangular 150x60 cm RC columns. All the foundations are direct (isolated or combined footings) except those of the columns that start on the top beam of the perimeter slurry wall.

The Project also included several special metallic structures, for façades and rooftop installation's decks, besides the walkway connecting the two aforementioned buildings and external

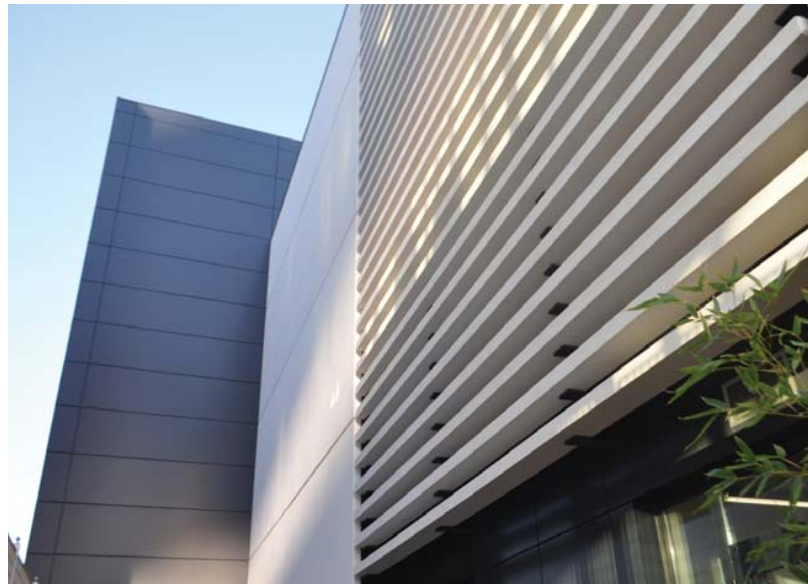
## Building for services complex for new BBVA Headquarters in Madrid.

### Madrid.

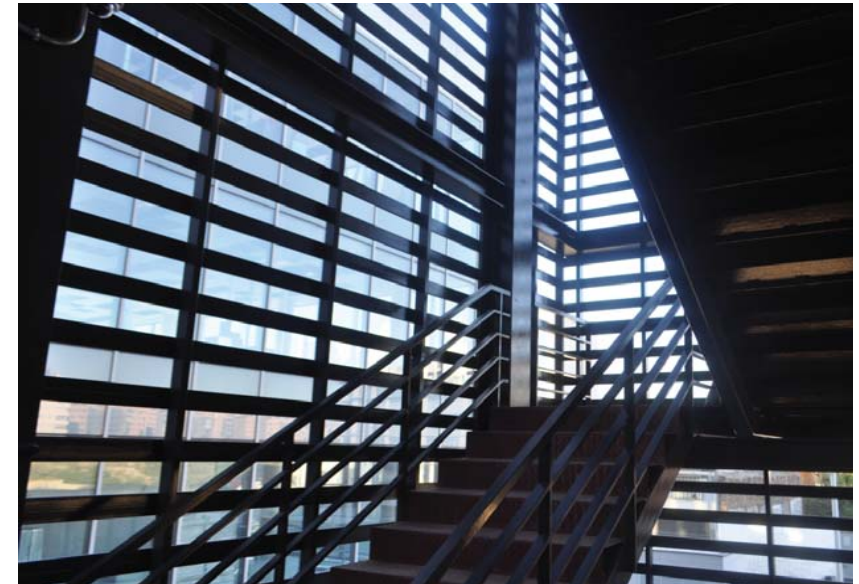
stairs for emergency use. Note that the façade has been solved by 10 cm thick planks of precast concrete.



SAP 3D Model of structure above ground level.



One of façade of the BBVA service complex in Madrid.



Exterior metal staircase.