



85 Social Housing Units in Cornellà

Cornellà de Llobregat, Barcelona, 2017-2020
Peris + Toral arquitectes

Architects. Design Studio

Peris + Toral arquitectes
Marta Peris, José Manuel Toral. Barcelona, Spain

Design Team.

Guillem Pascual, Ana Espinosa, Maria Megias,
Izaskun González, Cristina Porta, Miquel Bernat

Collaborators and Consultants

Joan March (MARCH-RIUS ARQUITECTES TÈCNICS,
Project Manager)
Jaume Pastor (L3J TÈCNICS ASSOCIATS, Fluids), Manel
Fernández, Meri Blanco (BERNÚZ FERNÁNDEZ
ARQUITECTES, Structures), Albert Sagrera, Luca Volpi
(SOCIETAT ORGÀNICA, Environmental advising), Sergi
Soler (ÀUREA ACÚSTICA, Acoustics)

Developer. Client

IMPSOL. Institut Metropolità de Promoció de Sòl i
Gestió Patrimonial

Contractors VIAS Y CONSTRUCCIONES, S.A.

Manufacturers

Egoín, Europerfil, Bianchini Maccaferri Group,
Cortizo, Durmi, Tarkett floors, Bodelec, Mobiliari
Font Room, Lamp, Escofet, Performance in
lighting, Orona

Start and Completion Year

2017 (Competition), 2018-2020

Gross Area

12 815 m²

Sustainable Systems and materials

flexibility, modulation, wood

Photography

José Hevia

Expert committee. Outstanding Qualities

The scientific committee underlines the following aspects from the report provided by the architects: «The bases of this new residential building are a matrix of communicating rooms that eliminates corridors to guarantee optimum use of the floor plan and the use of timber to enable the industrialization of elements, improved quality of construction and a major reduction of deadlines and CO² emissions. Through the optimization of materials, the construction industrialization and the correct choice of materials using them in biospheric states (wood) and recycled (steel, aggregates), it is possible to reduce the building's footprint by a 55% less than a conventional equivalent building. The building has an A energy rating, and it has been possible to reduce primary energy consumption to 20KWh/m²year and CO² emissions during use to 3kgCO²/m²year. »

Website studio and work (link)

<https://peristoral.com/proyectos/modulus-matrix-85-social-housing-cornella>