



StoraEnso

Partner of Stora
Enso

ARV8

Madrid, Spain



Antonio Rodriguez Villa 8 (ARV8), was the tallest cross-laminated timber building in Madrid, at the time of construction. It demonstrates Ábaton's approach to sustainable living through meticulous design and advanced prefabrication techniques. Realised with the expertise of local partner Madergia, this project highlights the adaptability and energy efficiency of mass timber construction.

ARV8: A Landmark in Timber Construction

Located in Madrid, ARV8 benefits from the city's vibrant atmosphere and rich cultural heritage, providing a unique backdrop for this pioneering development. The local partner, Madergia, realised the project, bringing their expertise in timber construction to ensure the highest standards of quality and sustainability. Their collaboration with Ábaton was instrumental in overcoming the challenges posed by this groundbreaking endeavour.

Design and structure

ARV8 stood as the tallest cross-laminated timber building in Madrid at the time when it was built. This ambitious project posed significant challenges for the firm, requiring a meticulous bioclimatic study to harmonise with the most refined design principles.

Tailored living spaces

The seven-storey structure, composed entirely of wood, houses three distinct dwellings, each tailored to the specific needs of its occupants. This adaptability is reflected in the dynamic façade, which allows for versatile configurations without necessitating excessive structural reinforcement.

Vision

Ábaton's vision for this development was to create inviting, open, and flexible spaces where the inherent qualities of the materials are seamlessly integrated into daily life. Wood serves as the primary structural element, the finishing touch, and the mechanism for maximising energy efficiency. To achieve this, the building's exterior is enveloped in prefabricated insulation panels up to 18 cm thick, while the interior showcases the natural beauty of the wood.

Insulation

Thermal insulation (10cm of high-density polystyrene on the outside and 5cm of rock wool on the inside) on the outside of the facade approaching the conditions of a Passive House. In addition, a ventilated air chamber is generated on the southwest facade to improve the conditions during the summer. The street facade will be made in white zinc, giving the building elegance and uniqueness.

Prefabrication

Prefabrication was central to the construction process. Advanced anti-impact foil systems ensured acoustic independence between floors, while workshop-assembled components expedited construction, enhanced comfort, and improved energy efficiency, making nature the true protagonist of the project.

[Read more about this project](#)



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Rethinking The Future Award Winner

General

Delivery year

2017

Building type

Multi Residential

Area (m²)

1,200

Storeys

5

Units

4



Photo credit: Abaton

Products

Products and Services

Sylva™ CLT Floors and Roofs,
Sylva™ CLT Walls

Product quality

Non visible quality (NVI)

Product volume (m³)

300

Product delivery duration (weeks)

2

Number of deliveries

6



StoraEnso

Team

Partner of Stora Enso

Madergia

Architect

Abaton

Specialist Timber Subcontractor

Madergia