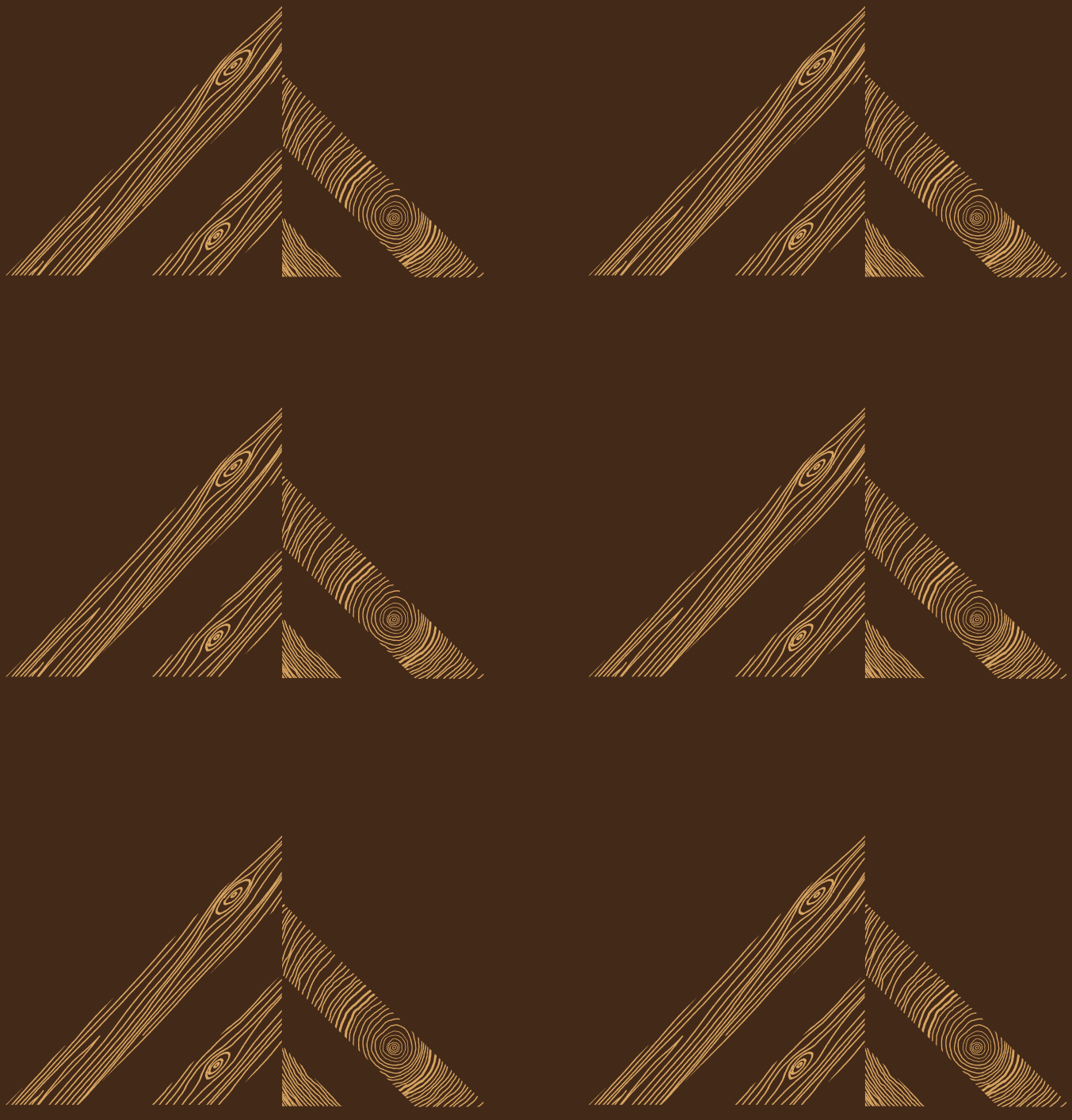
egoin WOOD GROUP

We Are Wood.



Projects

WE ARE WOOD

Egoin is a family owned business with 30 years of expertise in manufacturing, designing, engineering and constructing simple and sophisticated structural solutions in timber.

Our Value Proposition is to **"Be the Solution for Sustainable and Responsible Construction in Timber"** with a mission to **"construct a better world"** and as a business dedicated to timber in every way; we are committed to fulfilling these aspirations in everything we do.

In Egoin we respect our environment and the nature that surrounds us. It is the source of the material we use and the very foundation of our value proposition. We are committed to supporting the responsible stewardship of the forests and through our modern building technologies in wood, we seek to create living and working spaces that provide innovative, commercially viable building solutions that promote wellbeing and mental health.

From simple beginnings, in the renovation of roofs for farmhouses, the business has expanded to include sawmilling and the construction of single-family homes with heavy timber frame systems, industrial buildings, and ultimately higher-rise residential and municipal construction. We now employ the use of established engineered timber technologies of "Mass Timber" in the form of CLT and Glulam; all of which we manufacture and process into offsite prefabricated elements at our 3 production facilities in the Basque Country.

This growth has allowed the business to expand in both the national Spanish market and further afield into Europe and the UK where we have an expansive portfolio of projects which we are proud to showcase here.

In 2008 we commenced manufacturing Glulam and Cross Laminated Timber at our plant in Ea (Bizkaia). This significant step allowed us to introduce the market to Mass Timber for much larger projects and higher rise buildings in the commercial and residential sector.

In 2013 Egoin acquired the wood processing company Holtza (Legutio, Álava).

In 2023 we will expand our CLT and Glulam production and element processing at our new state of the art production facility in Albertia which will have a combined annual capacity of **50,000m^3**, consolidating our position as the market leader in Mass Timber production and construction in southern Europe.

Mass Timber in the form of CLT and Glulam and hybrid solutions that combine them with steel and concrete will become mainstream within the next decade and we are proud to be playing our part in the movement towards more sustainable construction and ***constructing a better world***; the following selection of projects from our bigger portfolio exemplify how we are delivering against this.







6x6 Block
Girona

Residential
Construction

Multi-family mid-rise accommodation

The flexibility of design offered by wood as a building medium allowed the Bosch Capdeferro Arquitectura studio to design a six-storey residential building in Girona that fulfils the requirements of contemporary housing. The project features 3,600m^2 of living space and provides 35 accommodation units.

This building was carefully designed using sustainably driven criteria and delivers three specific outcomes. Firstly, the building is engineered to enable the control of the indoor climate through passive measures wherever possible; this includes solar shading, heat recovery ventilation and reduction of thermal bridges at building interface junctions. Secondly, the occupant has the ability to modify the living space via a unique system of sliding doors and finally the geometric grid formed by the load bearing walls reduces the impacts of seismic activity. In the opinion of the architects, building in Mass Timber improves the quality of residential spaces and helps in the fight against climate change.

A total of 1,000m^3 of Cross Laminated Timber panels and Glulam columns and beams made of km ZERO radiata pine; This has prevented the emission of around 900 tonnes of CO_2 being released into the atmosphere and 103 less heavy vehicle movements to site.









La Canaleta Public School Tarragona

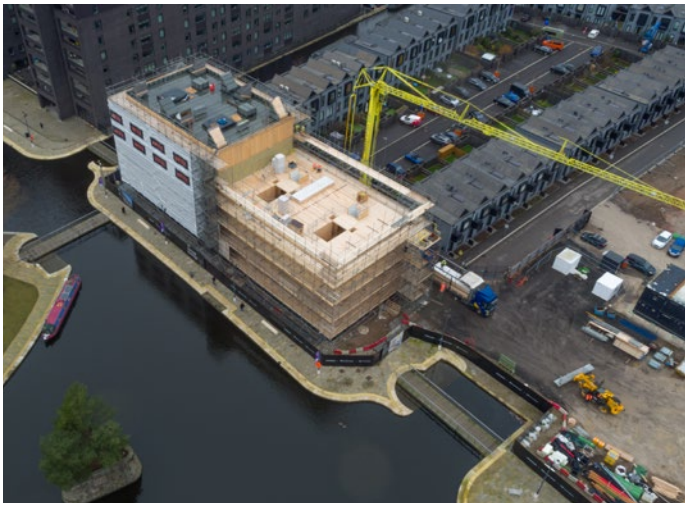
Public Construction

An impressive 3,500m^2 early learning school with the superstructure erected in under 35 days

The La Canaleta public school in the Tarragona town of Vilaseca presented several challenges for architects Manel Casellas and Mar Puig de la Bellacasa. This was the first large public school to be built entirely of wood in Catalonia. It needed to be a fast build to provide a better learning environment for the 500 students being taught in temporary modular units. The building also needed to be energy efficient and meet exacting sustainable criteria. To address these demands, Mass Timber in the form of Cross Laminated Timber and Glulam were chosen by the architects and agreed by the Client who in this case was the Government of Catalonia.

The offsite manufactured elements significantly accelerated the build programme, reduced site waste, and improved the airtightness and energy efficiency of the structure. A building constructed from CLT is 5x lighter than that of concrete which results in the use of less concrete in the foundations and delivers an 80% reduction in vehicle movements to and from site.

The building used 1,140m^3 of km ZERO Radiata Pine and combined with the other sustainable attributes has prevented the emission of around 900 tonnes of CO_2 being released into the atmosphere and a reduction of 117 vehicle movements to site.











Mansion House
Manchester

Residential

Modern residential apartments by Urban Splash in the United Kingdom

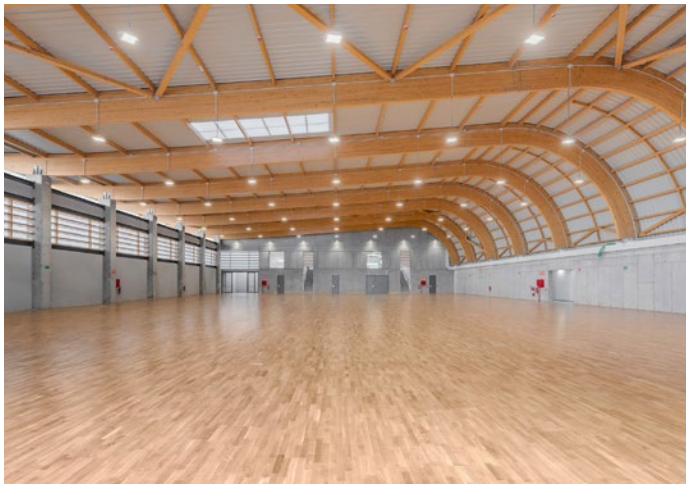
Mansion House is a mid-rise, 6 storey private rental sector apartment building in New Islington, close to the centre of Manchester in the UK. The Complex contains 40 apartments covering 3,800m^2 and 800m^2 of retail and commercial space at ground floor level. This modern and sustainable development built in a formerly run down area of Manchester is an exemplar of urban regeneration which is a trademark of the developer Urban Splash.

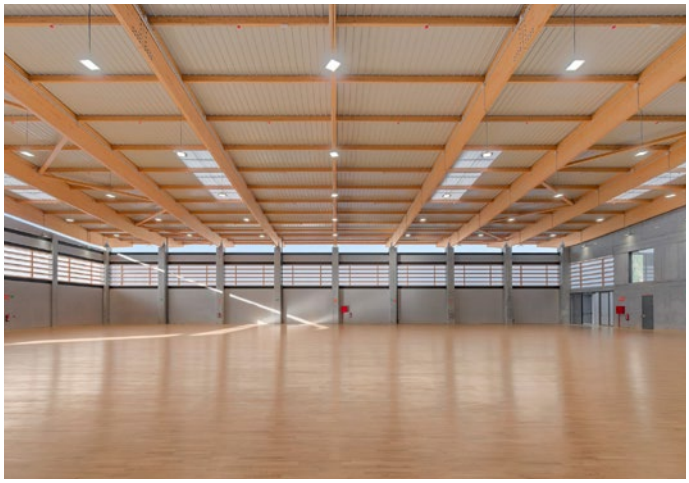
Being new to Mass Timber construction, the project architects, Shedkm, relied heavily on the Egoin technical team to guide on initial design, engineering, and final execution of the building from RIBA stage 0 to RIBA stage 5. The outcome of this partnership resulted in the ability to showcase Mass Timber as an ideal build method for medium rise urban residential accommodation delivering a warm and welcoming environment for the apartment occupants where some of the timber walls were selectively left exposed to create a natural biophilic living environment.

The building used 1,850m^3 of km ZERO radiata pine. This has prevented the emission of around 1,480 tonnes of CO_2 being released into the atmosphere and 190 (80%) less heavy vehicle movements to site.


PABELLÓN MUNICIPAL







Arona Sports Centre
Tenerife

Public
Construction

A public venue that blends with the natural surroundings

This leisure, recreation and events venue required the careful balance of functionality for multi-purpose use and environmental aesthetics which would be complementary to the stunning location within which it was built and for this reason the incorporation of Mass Timber in the structure was chosen over steel.

The Makin Molowny Portela Architectura Studio proposed a design based on a set of 9-metre-high concrete columns and an impressive series of nine 38.5-metre-long laminated wood beams to support the roof, the shape of which evokes a wave. The façade incorporated timber slats that help to allow natural light into the interior of the activity space whilst retaining the harmonious character of natural materials that are complementary to the building's location.

The roof of the sports centre has a total footprint area of 2,193m^2, with the façades spanning 139m^2. A total of 126m^3 of km ZERO radiata pine wood from the Basque Country was used for this project. This has prevented the emission of around 100 tonnes of CO_2 being released into the atmosphere.









Two Corks
Girona

Single family residential

An award-winning private residence

Conceptualised by the Emiliano López Mónica Rivera Arquitectos studio in the town of Palafrugell (Girona). The design brief was to allow the building to blend into the environmental surroundings of the site and the use of Mass Timber elements in the form of CLT and Glulam and other natural materials secured the “Best Architects 19 Gold Award” at the XIV Spanish Architecture Biennial. Emiliano Lopez explained that the use of natural materials met four key criteria in the design, which were the use of locally sourced natural materials from the Iberian Peninsula in line with the km ZERO philosophy, to deliver a biophilic living environment internally and externally, enhance thermal performance by using local timber and cork and reduce the carbon footprint of the structure.

This private development has a surface area of 350m^2 and required the use of 165m^3 of wood. This has prevented the emission of more than 130 tonnes of CO_2 into the atmosphere and resulted in 36 less deliveries to site.

Recognitions

- Best wooden construction at the Egurtek 2018 Timber awards.
- “Best Architects 19 Gold Award” at XIV Spanish Architecture Biennial.








egoin

Footbridge
Huelva

Public
Construction

Reconnecting Neighbourhoods in the social dynamic using natural materials

The Huelva Footbridge uses Mass Timber engineering disciplines to meet traditional, social and environmental needs. The desire by the Huelva City Council was to create a reconnection of the two areas of La Hispanidad and El Greco separated by natural formations but also urbanisation. The outcome of this bridge between the two neighbourhoods served an additional purpose by linking Parque Moret zone with the rest of the city.

The engineering team at Egoin had to overcome a number of challenges in the design of this 175 long metre bridge. To accommodate the irregular layout, the bridge needed to be designed and erected in 8 separate sections, each ranging from 1.5 to 2.75m wide. The Bridge needed to cross unaligned urban spaces, provide enough height clearance over the main 4 lane highway and also blend into the surroundings. The sensitive aesthetic use of locally sourced, treated Radiata Pine and natural Larch cross members in the structure softened the visual impact of the bridge whilst enhancing durability. The collaboration of the Egoin engineering team and the design technicians within Huelva City Council resulted in a visually appealing and socially important structure.

A total of 130m^3 of km Zero glued laminated radiata pine and larch from the Basque Country were used to complete this project.









Plaça Sóller
Barcelona

Public
Construction

An urban rejuvenation & restoration project

This renovation and restoration project in the centre of Barcelona is a classic example of how urban renewal can revitalise an environment and becomes particularly relevant when the structure has significant historical connections.

This building is situated in a public park and originally intended for public use. However, over time this structure had become neglected and as an outcome disused. The restoration concept developed by Barrio Peraire Arquitectes involved the sensitive redesign and reorientation of the structure so that the visual aspects faced into the park. The extensive use of engineered timber elements for the main structure and the floor covering has resulted in a biophilic internal environment that perfectly complements the new external vista. The extended building now occupies a space of 1,800m^2.

Wood was the obvious structural solution for the renovation due to its light weight and the ability to provide an elevated extension on top of the existing one. With prefabricated sustainable timber elements in the form of Glulam portal frames and Cross Laminated Timber panels from Egoin, the project was able to be completed fast and opened to the public for their enjoyment.

A total of 200m^3 km ZERO laminated larch wood and CLT radiata pine from sustainable sources in the Basque Country were used to complete this project.







Turó de la Peira
Barcelona

Public
Construction

A multi-sport activity centre

This impressive 4,430m^2 footprint sports complex in the Turó de la Peira neighbourhood (Barcelona) is a perfect example of how Mass Timber in the form of Glulam beams, columns, heavy timber lattice girders and Cross Laminated Timber panels can be used to meet structural and aesthetic demands. Public swimming pools and sports centres are renowned for the rapid degradation of structural elements due to the higher than usual moisture content and the corrosive influence of chlorine. Moisture content in these situations demands careful management and timber is particularly suited to these as it is less prone to degradation than concrete or steel, this also results in the building staying presentable for longer and results in lower cosmetic and structural maintenance.

For the above reasons, and also for the sustainable and low carbon credentials delivered with wood construction, the architects Anna Noguera and Javier Fernández preferred a structural timber option. Along with these practical, “performance in service”, critical considerations, the other cascade benefits of using prefabricated timber elements was a reduction in building weight and speed of project completion. Significant industrial carpentry was undertaken off site so that when the large glulam portal frame elements arrived on site it was simply a matter of connecting them to the supporting structure.

The finished outcome was a fit for purpose, environmentally conscious and aesthetically pleasing public sector multi-sport activity centre.

A total of 840m^3 of km ZERO radiata pine. This has prevented the emission of more than 672 tonnes of CO_2 into the atmosphere, with an ecological footprint equivalent to zero. The use of Mass Timber resulted in 86 less vehicle movements to site.





Herri Eskola Alkiza
Gipuzkoa

Public
Construction

A new 700m^2 enhanced learning school building

The New Herri Eskola School in Alkiza was commissioned by the Basque Government, designed and directed by Pedro Izaskun and Miguel Angel Irazabalbeitia of Soroa Architects and architects Eba Erkizia and Juanan Herrarte.

Schools in particular benefit from the use of Mass Timber elements as it is proven that attention levels are heightened and sustained longer and there is also quantitative evidence data suggesting that building with natural materials such as wood in the learning environment reduces stress both for the students and the teachers. Building occupant well-being, regardless of the structure is now a key design consideration and along with the use of sustainable materials which have properties that improve the thermal insulation of the building and are more absorbent of noise levels makes timber a very natural choice in the construction of buildings of this type and for this end use application.

The project used a total of 330m^3 of Km ZERO Radiata pine. This has prevented the emission of 264 tonnes of CO_2 into the atmosphere and resulted in 35 less vehicle movements to site.


NEVERS
HASTETXEA





Nevers Ikastetxea
Durango
Bizkaia

Public
Construction

School Kindergarten refurbishment and extension in Durango

It is already established that Mass Timber in the form of CLT and Glulam and other complimentary engineered timber construction methods can bring new vitality to an established building and at the same time improve its thermal and sound performance attributes. Maurtua Architects elected to use CLT for this 880m^2 project for exactly those reasons and chose to expose the natural timber aspect of the superstructure wherever possible to add greater aesthetic appeal and induce calm into the learning and classroom access zones.

The finished outcome was the transformation of a somewhat cold and neutral teaching space into a warm, learning enhancing environment particularly suited to younger children, perfectly meeting the aspirations of the School Board.

The project used a total of 120m^3 of CLT Km ZERO radiata pine from local forests to the Basque, preventing the emission of 264 tonnes of CO_2 into the atmosphere. Using timber resulted in 12 less vehicle movements to site minimising disruption around the school area.







Bideona Winery
Álava

Private
Construction

An industrial, state of the art Rioja wine producing facility in Villabuena de Álava

Industrial enterprises such as the Bideona Winery are not only looking to demonstrate a commitment to sustainability and social values in the products made but carry these attributes through to the structures in which they are produced. This was a key design consideration for the winery owners and resulted in the awarding of a Green Certificate for the project; also the accolade of being the first winery to obtain this award.

The four large production pavilions with external design elevations that compliment the nearby urban centre of Villabuena de Álava and blend into the surrounding landscape, incorporated large engineered timber trusses, purlins, exposed beams and walls internally. The use of natural materials in the form of wood resulted in transforming what is usually a harsh functional industrial space into a biophilic production environment that compliments the natural Rioja wine making process perfectly. The prefabrication of the timber elements and the precise off-site industrial carpentry enabled a swift installation process thereby accelerating the 7,500m^2 winery into production within a 14 month window.

The project used a total of 600m^3 of km ZERO radiata pine from local forests local to the Basque region. This has prevented the emission of 480 tonnes of CO_2 into the atmosphere.





Muros de Nalón
Asturias

Residential

A 20 apartment social housing complex to “Passivhaus Classic Standard” in North West Spain

At Egoin we are pleased to have participated in the first Passivhaus residential project in Northern Spain, collaborating with the company Iguar and the architect Cristina Fernández Somoano from the Building Service of the Directorate General for Housing. The project consists of a 1,600m^2 building comprising of 20 subsidised housing units in the town of Muros de Nalón (Asturias).

Designing and delivering projects to Passivhaus standard is a very demanding process. Attention to detail in all aspects of the design which includes, but not limited to, the orientation of the building, building fabric, junction detailing, airtightness and appropriate heat recovery and ventilation measures are just some of the considerations. Mass timber in the form of Cross Laminated Timber and Glulam suits Passivhaus projects well, as the material and the precision manufactured elements result in a very air tight, thermally positive structure from the outset. These features can be further enhanced to work towards the target Passivhaus standard. The completed building delivered a near Zero Energy rated certified structure under the Passivhaus Classic Standard.

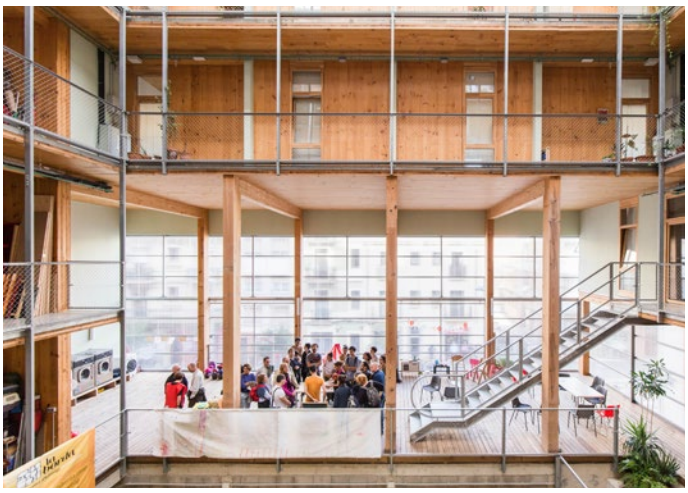
The project used a total of 445m^3 of km ZERO radiata pine from local forests local to the Basque region. This has prevented the emission of 350 tonnes of CO_2 into the atmosphere and resulted in 46 less vehicle movements to site.

Recognition

- Passivhaus Classic certified structure.
- Near Zero energy rated certification.

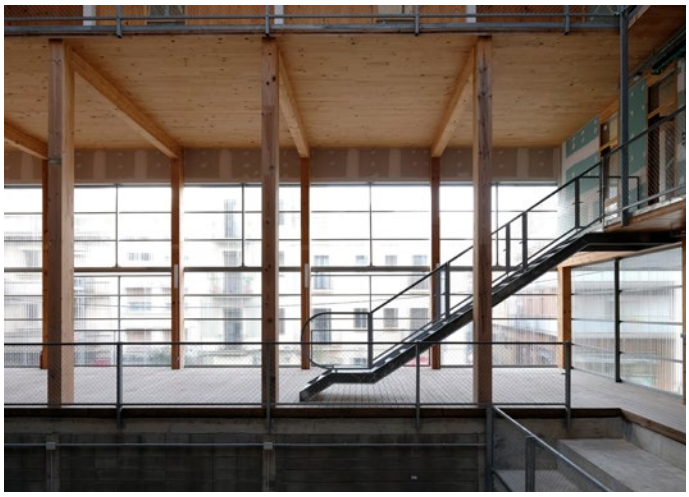














La Borda
Barcelona

Residential

Mid rise multi family Cooperative Housing apartment complex in Barcelona

The La Borda Housing Cooperative is a project designed by the architects' Cooperative Lacol. The objective was to create affordable housing on land made available by Barcelona City Council, and to ensure environmental sustainability from the build method and in use.

Cooperative Lacol chose wood as the primary superstructure for the project. This 3,000m^2 building was constructed on the former factory site of Can Batlló. It was a significant pioneering success as at 25.5 metres in height, it is the tallest building designed in wood in this region. The aesthetic design and the delivered sustainable credentials has resulted in this project winning many architectural awards.

Had this structure been built using traditional building media such as concrete and or steel, the carbon footprint of the materials, the build programme and the longer term negative carbon profile of buildings of this type would have been significantly greater. Constructing this in Mass Timber in the form of CLT and Glulam beams results not only in a building that is built from renewable resources, acts as a carbon sink and inherently performs better from a thermal perspective but also delivers a healthier living environment for the occupants.

The project used a total of 700m^3 of km ZERO radiata pine from forests local to the Basque region. This has prevented the emission of 560 tonnes of CO_2 into the atmosphere. Building this project with Mass Timber resulted in 72 less vehicle movements to site.

Recognition

- 2019 Architecture Award from the Barcelona Building Construmat (BBConstrumat).
- 2019 Special Prize for Innovation from the European Responsible Housing Awards.


Boyacá







Cornellá Social Housing Barcelona

Residential

Mid-rise multi-family residential social housing apartment complex in Barcelona

The project was instructed by the Metropolitan Institute for Land Development and Asset Management of Barcelona (AMB /IMPSOL) and designed by Peris+Toral Arquitectes.

The Architects chose Mass Timber in the form of CLT and Glulam beam solutions in the design of the 21-metre-high, 5 storey development, delivering 85 affordable housing units in the Town of Cornellá (Barcelona). This 8,300m^2 project is the largest residential building constructed in wood in the area.

A project of this type and scale in timber always raises many challenges in the form of fire compartmentalisation, acoustic transmission between apartments and the usual questions surrounding cost compared to traditional build, which for this profile of building would naturally default to concrete. With the key performance aspects above addressed the significant benefits of building with Mass Timber could be extolled to the client as follows:

Mass Timber is lighter which reduces the concrete foundation piling and thereby saves time and cost. The building comes to site in large prefabricated dry panel elements resulting in whole walls and floor slabs being installed quickly and it is documented that a 20-30% improvement can be made in the build programme by using Mass Timber, significantly reducing prelim costs. Thermal performance of the structure is enhanced due the precision manufactured elements that form the building kit which fit tightly together at the building envelope junctions. Vehicle movements to site are massively reduced as is waste generation and removal due to the off site manufactured process of Mass Timber elements.

The project used a total of 2,100m^3 km ZERO radiata pine from forests local to the Basque region. This has prevented the emission of 1,600 tonnes of CO_2 into the atmosphere. Building this project with Mass Timber resulted in 216 less vehicle movement to site.













Musika Eskola Usurbil
Gipuzkoa

Public
Construction

Refurbishment and extension of historically important Music School in Usurbil, Gipuzkoa

The project was instructed by Usurbil Town Council and the design of the refurbishment, renovation and extension of the Music school was undertaken by 0S3 Arquitectura studio.

Mass Timber in the form of CLT and Glulam panels and beams were used for the new floor slabs and roof elements, and these were complemented by larch frames and slatted panels to the external façade. In accordance with the brief the project demanded empathetic and complimentary design that would enhance the protected original historical 19th century villa which became the music school but over time had become unsuitable for this intended purpose. The desire was to reinstate the music academy and develop a social meeting space around it through the creation of a connection between the internal and external space and integration with the landscape. The outcome is a stunning modern, yet architecturally aligned structure with the original building providing a visually pleasing space for social interaction both indoors and outdoors.

With a commitment to the use of sustainably sourced timber, the building extends its ecological credentials through the use of renewable technologies in the form of geothermal heating and green roofs. The two storey building enhances the natural connectivity between the old and the new structures using timber internally and externally and at the same time provides a user friendly welcoming environment for not only the music school but as a local destination for other social gatherings.







Orueta Etxea
Bizkaia

Private
Residential

Private Family Home encompassing Passivhaus Classic Standards & km ZERO disciplines

This project was designed by Emiliano López Mónica Rivera Arquitectos with the engagement of Eco-Passive architecture specialist Iñaki del Prim who provided guidance on meeting Passivhaus Classic Certification.

The desire with this project was to deliver an exemplar eco-friendly, low energy demand, single family residential home using wherever possible, locally sourced building materials. The timber used for structural and aesthetic purposes was sourced from local forests and in this unique case were forests planted by the owner´s grandfather; the gravel and limestone for the foundations were from local quarries at Ereño and Markina. No concrete was employed in the foundations or the superstructure.

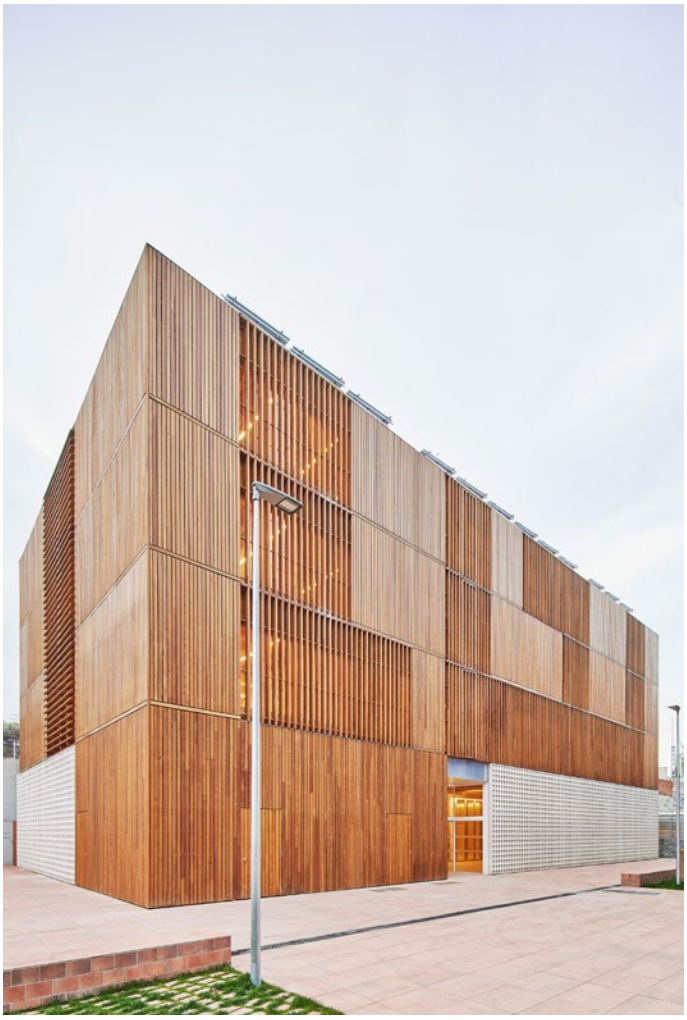
Egoin engaged with this project from conceptualisation to turnkey completion, undertaking the design and engineering of the building, manufacturing the Mass Timber elements and installing the superstructure.

With many of the internal surface planes exposed or finished with a translucent lime wash coat over the timber surface the owner's experience is much like "living inside a tree" explains Emiliano López.Combining the design disciplines of energy efficiency and aesthetic appeal under the requirements of Passivhaus Certification. Orueta Etxea is a project with exceptional architectural aesthetic appeal and has obtained Class A energy rating, with an energy consumption of 22.43kWh/m^2 per year and emissions of 3.83kg of CO_2 /m^2 per year. The contracted power with the electricity company is 4.6kW.

Recognitions

- Passivhaus Classic Standards











Casal Porta Trinitat
Barcelona

Public
Construction

A community centre and destination for social gatherings

This community building was designed by Barcelona-based studio Haz Arquitectura and is intended to be one in a series of similar projects serving the same purpose of social gathering destinations for local community groups.

The design brief was to create a building with minimal ecological footprint and a meeting space that is welcoming and calm and in the words of Manuel Sánchez-Villanueva, architect at the Haz Arquitectura studio “a wooden building where people feel at home”. With these objectives in mind the main timber superstructure of the building internally was left exposed and careful attention was given to the use of natural light coming into the communal and meeting room spaces. Externally, an aesthetically appealing slatted Larch façade was applied and complemented by the use of the same durable timber species vertically and horizontally achieving solar shading across the windows. The total superstructure with a useable floor area of 2,376m^2 comprised of Mass Timber in the form of CLT and Glulam, along with the use of ribbed slabs; even the staircase used a pre-fabricated CLT system. All timber elements were designed, engineered, manufactured, and installed by Egoin. The use of offsite manufactured components significantly sped up the build programme and massively reduced on site waste. The installation of solar panels on the roof generates 60,000W of electrical power per year, bringing the building’s energy consumption very close to zero.

The project used a total of 660m^3 of km ZERO radiata pine and larch from forests local to the Basque region. This has prevented the emission of 530 tonnes of CO_2 into the atmosphere and through the use of Mass Timber resulted in 68 less vehicle movements to site.

egoin WOOD GROUP

Barrio Olagorta, S/N
48311 Natxitua, Bizkaia
+34 946 27 60 00

ONLY FOR POSTAL
17 Carlisle Street, First Floor
London, W1D 3BU (United Kingdom)

info@egoin.com
info@egoin.co.uk
www.egoin.com