



StoraEnso

IQL Stratford Pavilion

London, UK

Partner of Stora
Enso

STRUCTURES

The Pavilion secured an 'Outstanding' score of 92% from the industry sustainability benchmark, BREEAM, at final certification. Fundamental to this achievement was the project's commitment to climate mitigation throughout design and construction. The building uses prefabricated cross-laminated (CLT) and glue-laminated timber (GLT) to significantly lower its embodied carbon compared to traditional buildings constructed with large amounts of steel and concrete.

Enjoying unrivalled views across London and the 560 acres of greenspace at the Park, the Pavilion is located yards from East Bank, where an increasing cluster of world-leading universities, arts and cultural institutions are basing themselves alongside an array of commercial, technology, manufacturing and retail businesses. Stratford is fast transforming into one of London's most exciting new destinations to visit, work, live and learn.*(see note below).

The Pavilion was designed by award-winning international contemporary [architects ACME](#). Conceived as a 'vertical piazza', it has stepped levels arranged on all sides in the form of stairs, balconies and amphitheatres that encourage exploration, providing several look out points and sitting places. The public is invited to enjoy views of the park from the public rooftop terrace. The building houses a visitors' centre for the Park, and D&D London's latest hospitality concept, Hauqen, a delicatessen, brasserie and café inspired by Alpine dining, with interiors designed by award-winning creative studio Afroditi.

Split over three floors, the Pavilion is an extremely lightweight timber structure that sits on top of a DLR tunnel with limited allowances for additional weight or foundations. Constructed using cross-laminated and glue-laminated timber panels, only shallow concrete foundations were needed. Timber has a much lower carbon footprint than more traditional materials and provides warmth and tactility to the interior. Elsewhere parametrically controlled timber fins have been used to clad the undersides of the projecting slabs to create a continuous soffit that invites and guides visitors to the roof. Native wildflower planting on the rooftop terrace and green spaces enhances the site's biodiversity, creating a food source for pollinators alongside a nesting box for bird and bat species.

Energy to the building includes a connection to the Stratford district heating and cooling network and external lighting has been designed to minimise light pollution. The Pavilion has achieved an 'Outstanding' BREEAM score of 92%. It is the second building at IQL to reach this exceptional standard, which places it in the top 1% of all newly constructed commercial buildings.

The opening of the Pavilion heralds a new era in the development of International Quarter London and the continued transformation of Stratford as a mixed-use destination for London. The Pavilion's completion will mark a milestone in the way that Endeavour Square is enjoyed by the public and surrounding communities. The site demonstrates Lendlease's commitment to Mission Zero, the United Nation's initiative, as a 1.5 degree aligned company, working towards being net zero carbon by 2025, and absolute zero by 2040. Using materials with low embodied carbon is a key step in Lendlease's journey to eliminate Scope 3 emissions and achieving its 2040 target.

Lendlease's Project Director for IQL, Kristy Lansdown, said: "The completion of the Pavilion is a real landmark moment for Stratford and recognises Lendlease's efforts in putting placemaking at the top of our agenda, whilst setting the highest standards of environmental performance in our buildings. This will have a long-lasting impact not just on the surrounding environment, but also on the enjoyment and wellbeing of those who visit the building. With its location overlooking the acres of green space of at Queen Elizabeth Olympic Park, stand-out architecture and public rooftop terrace with iconic views over London, café, fountains and seating area, it is a place where we hope local people and Londoners will gather to eat, drink and play."

The renewable materials company



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Peter Hawthorne, CEO of LCR, said: "At the heart of the ongoing evolution of IQL and Stratford is a commitment to creating a vibrant community, with an ecosystem of commercial, residential and leisure space. With its exciting and sustainable design, the Pavilion embodies that commitment to fostering a neighbourhood that can thrive.

Ultimately, it's crucial that similar regeneration projects across the country embrace the same ethos to providing public value and have people at the heart of their plans. This is what it will mean to 'build back better'."

Friedrich Ludewig, Founding Director at ACME, said: "We're thrilled to celebrate the opening of the Pavilion in Stratford, an innovative timber structure anchoring Endeavour Square. Having master-planned Queen Elizabeth Olympic Park and Bridges 15 years ago with their future legacy in mind, it's so exciting to contribute to placemaking in this part of London once again. The Pavilion's sculptural form is inclusive, inviting access and exploration from all sides. The highly sustainable building integrates landscape, is sensitive to the environment and maximizes the use of timber to get us closer to achieving net zero carbon. We're delighted that the restaurant interior fitout by Afrodit celebrates the building's timber structure. Stunning views from both inside the restaurant and from the public rooftop terrace remind us of this special location in east London - at the intersection of sport, nature and city. We look forward to the Pavilion's exterior becoming a meeting place for locals to use regularly, to relax as well as enjoy the views of the emerging and ever-changing landscape."

Mary Bowman, Landscape Architect/Partner at Gustafson Porter + Bowman said: "It's wonderful to see the whole of Endeavour Square come together. The water features and artwork are a real attraction especially for young children. The Pavilion amphitheatre and planted rooftop terrace are extensions of the public realm that offer visitors a whole new perspective. Inspired by the site's history as former railway lands, the new square is already full of school children, families and office workers enjoying the urban transformation."

Peter Tudor, Director of Park Operations and Venues at the London Legacy Development Corporation, said: "We're delighted that our Visitor Information Point is now part of this fantastic new Pavilion right on the gateway to the Park. As developments like IQL attract more and more people, it's vital that we have great facilities to help the millions of people who come here each year."

Address: 9 Endeavour Square, International Quarter London, E20 1JN

internationalquarter.london

Project details:

ACME – Concept, detail design, construction
 Arup – Structural Engineering
 Norman Disney & Young – MEP, Sustainability
 Buro Happold – Civil Engineering
 Meinhardt – Facade Consultant
 Lord Consultants – Access Consultant
 QUOD – Planning Consultant
 Gardiner & Theobald – Cost Consultant
 The Fire Surgery – Fire Consultant
 Gustafson Porter + Bowman – Landscape Architecture
 Hoare Lea – Acoustics
 FD Global – Wind Consultant
 Green Infrastructure – Ecology
 WSP – Waste, Security, Traffic
 Troika – Public Artwork

Text provided by Lendlease



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*Note. Before the 2012 Summer Olympics, the area in Stratford where Queen Elizabeth Olympic Park now stands was largely industrial and underutilized. It included old factories, warehouses, and contaminated land. The Olympics provided an opportunity to clean up and redevelop this space, transforming it into a vibrant area with new venues, green spaces, and community facilities. The regeneration efforts have continued since the Olympics, leading to further developments like the Pavilion at International Quarter London (IQL).



Prix Versailles 2022 Winner



'Outstanding' BREEAM score of 92% placing it in the top 1% of new buildings in the UK for sustainability



Structural Timber Awards 2021 Finalist - Low Energy Project of the Year - ARUP



Photo credit: B&K Structures

General

Delivery year

2021

Building type

Commercial

Area (m²)

1,516

Storeys

2

Products

Products and Services

Sylva™ CLT Floors and Roofs,
Sylva™ CLT Walls

Product quality

Non Visible Quality (NVI)

Product volume (m³)

3,786

The renewable materials company



StoraEnso

Team

Partner of Stora Enso

B&K Structures

Architect

ACME London

MEP Designer

Norman Disney & Young

Developer

Lendlease
London Continental Railways

Structural Engineer

Specialist Timber
Subcontractor (Design & Build)
– B&K Structures
Arup

Specialist Timber Subcontractor

Specialist Timber
Subcontractor (Design & Build)
– B&K Structures