SUSTAINABILITY

The RIBA is committed to meeting the challenges of climate change and resource depletion, and raising the understanding of sustainability within the profession internationally. The RIBA also believes that environmental and social sustainability and ethics are vital elements of good design. This information is helpful to the RIBA and the industry in understanding current practice and informing how the profession might better meet the challenge of climate change. Please try to complete the questions where possible, data entries are currently optional, however by 2024 these will be mandatory for all projects.

Try to be succinct and factual in your answers, e.g. bullet points for narrative answers.

Please note, entrants must complete all mandatory fields in order to successfully ‘Save & Continue’ this page. You can use arbitrary text or data in order to fill the field, then save and return at a later date.

Our Sustainability Criteria are based on UN Standards, for more information please follow the link below:


Required unless stated otherwise

PROJECT DATA

Project name
RIBA International Project

Intended use of building
Maximum 50 words.
Gross floor area

m²

Gross conditioned floor area

m²

Cost (£)

☐ I consent for information on this form to be published and made publicly available.
Sharing information for benchmarking is valuable to the industry. If you answer 'No', then only your answer to the 'Summary' question will be published.

Information

For use here, Gross Internal Floor Area (GIFA) is the same as 'Total Usable Floor Area' (TUFA) as defined by UK building regulations Part L: 'the total area of all enclosed spaces measured to the internal face of the external walls. In this convention. The area of sloping surfaces such as staircases, galleries, raked auditoria and tiered terraces should be taken as their area on plan. Areas that are not enclosed such as open floors, covered ways and balconies are excluded.'

SUMMARY

Outline the strategy, drivers, concept, and performance of the building in terms of sustainability.

E.g. Building performance objectives. How has sustainability strategy informed the architectural concept, building form, construction, systems, and building use? Where there any special project objectives, challenges, or constraints? Was the design reviewed against the impacts of future climate change (e.g. future weather, flood risk, overheating risk)? Are there any innovations in sustainable construction?

Maximum 150 words. This answer will be published.
NET ZERO OPERATION CARBON

Explain the key operation energy and carbon emissions strategies.

E.g. Building fabric and 'fabric first design', building systems, renewable energy generation, energy storage, smart appliance and electric vehicle integration, climate change resilience, grid decarbonisation, building automation and control systems, costs and expected savings and payback periods, impact on maintenance costs. And, whether the building enables sustainable lifestyles, e.g. responsive controls, low carbon travel.

Maximum 300 words.

Regulated only

kWh/m²/yr

Primary energy (all)

kWh/m²/yr PE

All

kWh/m²/yr

Carbon emissions (all)
Confirm the basis for the results provided in the breakdown

Are they modelled/predicted or actual performance from monitoring? If they are modelled, please give details of the methodology and software used. E.g. Passive House PHPP model, bespoke dynamic model based on x, y, z, or only Part L compliance calculation. If they are from actual monitoring, please give details of the approach and duration. What is the basis for your carbon calculation?

Maximum 100 words.

Provide a breakdown of the building's operation energy and carbon performance

If actual monitoring data is available, please provide instead of modelled data.

Regulated only
optional

kWh/m²/yr

Primary energy
optional

kWh/m²/yr PE

All
optional

kWh/m²/yr

Heating
optional

kWh/m²/yr
### Cooling

optional

kWh/m²/yr

### Ventilation

optional

kWh/m²/yr

### Lighting

optional

kWh/m²/yr

### Total

optional

kWh/m²/yr

### Sub-metering results

optional

kWh/m²/yr per sub-meter

### Total

optional

kWh/yr

### Peak generation

optional

kWP

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**Information**

'Total final energy demand' is the total/gross amount of energy used by the building per m² of conditioned floor area, including energy from both the grid and renewables.

'Other / unregulated' e.g. Power sockets including computers, cooking, pumps.
'Net final energy demand' is the 'total final energy demand' less any energy demand reductions from renewables and other reduction technologies such as energy storage. It is the 'metered' energy and o can be negative in an energy net-positive building.

Provide details of the building fabric performance.

U-values to be provided as area weighted for all of that element, building-wide.

**Whole envelope**
optional

\[ \text{W/m}^2\text{k} \]

**Exterior walls**
optional

\[ \text{W/m}^2\text{k} \]

**Roofs**
optional

\[ \text{W/m}^2\text{k} \]

**Exterior floors and soffits**
optional

\[ \text{W/m}^2\text{k} \]

**Exterior doors**
optional

\[ \text{W/m}^2\text{k} \]

**Exterior windows and glazing systems**
optional

\[ \text{W/m}^2\text{k (Uw)} \]

https://awards.architecture.com/Project/3475/InternationalSustainability
W/m²k (Uf)

optional

W/m²k (Ug)

Rooflights
optional

W/m²k (Uw)

optional

W/m²k (Uf)

optional

W/m²k (Ug)

Airtightness of the building
optional

Compression

optional

m³/hr m² @ 50Pa

optional

ACH @ 50Pa

Overall Thermal Bridging Heat Transfer Coefficient (Y-value)
optional

Compression

optional

W/m²k
NET ZERO EMBODIED CARBON

Explain the key whole-life performance strategies

Including:

- Whole life energy and carbon. E.g. Whole Life Carbon (WLC) assessment, embodied carbon assessments, Environmental Product Declarations (EPD’s), recycled content, local materials.
- Materials Life-cycle. E.g. robust long life materials, design for end of life / cradle-to-cradle, Life Cycle Analysis (LCA), replacement and maintenance cycles.
- Responsible Sourcing: E.g. responsible sourcing (e.g. FSC timber), avoid non-renewable materials, ethical sourcing.

Mandatory for projects over £1m in value. Maximum 300 words.

Provide a breakdown of the building’s whole life embodied carbon performance.

Design life

optional

years

Embodied / whole-life carbon

optional

KgCO2eq/m2

Design life

optional

years
Embodied / whole-life carbon
optional

KgCO2eq/m2

Design life
optional

years

Embodied / whole-life carbon
optional

KgCO2eq/m2

Design life
optional

years

Embodied / whole-life carbon
optional

KgCO2eq/m2

Design life
optional

years

Confirm the basis for the results provided in the breakdown.

E.g. Whole-life carbon methodology, Environmental Product Declarations (EPD's).

Required if breakdown is completed. Maximum 100 words.
SUSTAINABLE WATER CYCLE

Explain the key sustainable water strategies.

Including


Provide details of water metrics used to assess the building

Optional. Maximum 100 words.
Explain the key sustainable connectivity and local transport strategies.

Including

- Green transport plan including digital connectivity, high quality Digital Connectivity to avoid need for unnecessary travel, site selection with good proximity to public transport, high quality pedestrian links to local amenities, high quality provision for Cyclists, infrastructure for electric vehicles as a priority, car sharing spaces, suitable onsite personal storage.

Maximum 300 words.

Provide details of key transport metrics used to assess the building

E.g. kgCO2e per person per year.

Optional. Maximum 100 words.

SUSTAINABLE LAND USE & ECOLOGY

Explain the key ecology strategies.

Including

- Land use - Building and site re-use, Brownfield site selection, sustainable remediation of site pollution, Retain existing natural features, mixed use development with density appropriate to local context.
- Ecology. E.g. enhancing local/native biodiversity, create or restoring habitats, creating productive landscaping (e.g. local food production).
Maximum 300 words.

Provide details of land use and ecology metrics used to assess the building

E.g. Species enhancement of site before and after development.

Optional. Maximum 100 words.

GOOD HEALTH & WELLBEING

List key strategies to support and health and wellbeing of occupants?

E.g.

- Basic Needs (good daylighting, indoor air quality, responsive controls, inclusivity and accessibility); Comfort (visual and thermal comfort, acoustic comfort, appropriate occupant density, functionality of internal space); Well-being (expression and identity, privacy and security, places of social interaction, societal and community benefits).
- Ecological Health. E.g. were steps taken to avoid materials or emissions harmful to humans and/or ecosystems during manufacture.

Optional. Maximum 300 words.
Provide details of health and wellbeing metrics used to assess the building

E.g. Well-building Standard score, average daylight factor, indoor air quality monitoring results.

Optional. Maximum 100 words.

SUSTAINABLE COMMUNITIES

Explain the key ecology strategies.

Including:

- Placemaking that expresses identity and territory, secure places for privacy, places for social interaction, vibrant mixed use places, high quality permeable links to social amenities, High quality pedestrian public realm, inclusive Places for community interaction, Secure Places with overlooking.

Maximum 300 words.
Provide details of social value metrics used to assess the building and site.

E.g. increased footfall, increased rental values, subjective quality attitude survey.

Optional. Maximum 100 words.

SUSTAINABLE LIFE CYCLE VALUE

Explain the key sustainable life cycle value strategies.

Including

- Align Capex with Opex budgets to allow whole life cycle approach, Soft Landings Graduated to Handover and aftercare, Measure energy costs, Measure management and maintenance costs, Measure overall running costs, Measure added value of occupant health and wellbeing, Measure added value of asset.

Maximum 300 words.

Provide details of sustainable life cycle value metrics used to assess the building.

E.g. RICS Methodology of operational cost measurement- £/m².

Optional. Maximum 100 words.
VERIFICATION AND BENCHMARKING

What assessment methods, certification standards, or relevant benchmarks for buildings of this type are you using to assess the sustainable performance of this building?

Mandatory for projects over £1m in value. Maximum 300 words.

What procedures have been used to ensure targeted performance is met, and how they contributed to achieving the teams intended building performance?

Eg. Robust handover strategy, procurement route, Soft Landings, maintenance strategy, commissioning, follow-up commissioning (1 year on), occupant education, building energy monitoring.

Mandatory for projects over £1m in value. Maximum 300 words.
Have you carried out post occupancy evaluation (POE) to see whether the building is performing as intended?

If so, how have you collected user feedback, what have you learnt, and what impact has it had on the operation and performance of the building? If not, do you intend to?

Mandatory for projects over £1m in value. Maximum 300 words.

Have you or do you intend to freely disseminate / publishing of information on the building performance?

If so, please provide links to the published information.

Mandatory for projects over £1m in value. Maximum 100 words.

FURTHER INFORMATION

Is there anything else you would like to tell us about your project and its environment and social impact?

Optional. Maximum 150 words.
DEADLINE

Submissions must be completed by 23:59 on 31 October 2019 GMT

Early bird discount is available until 23:59 on 30 September 2019

IMPORTANT INFORMATION

International Awards are open to any qualified architect. You will need to provide evidence of the project director’s membership of an organisation such as the RIBA, or registration with an architecture registration board. If you are not a member of any such organisation, we will need details of your qualification certificate and the academic institute you graduated from. Learn how to join the RIBA here. (https://www.architecture.com/join-riba/practices-outside-the-uk)

RIBA Members receive a 25% discount.
Learn more about joining the RIBA (https://www.architecture.com/join-riba/individual-chartered-membership)

Please note you must have applied for membership or be a RIBA member to qualify for the discount.

Make sure only one person or computer is logged in to your account.

All forms must be completed in English.

HAVE A QUESTION?

If you have any further questions about joining the RIBA or are having trouble with your entry please go to Help & Contact (https://www.architecture.com/awards-and-competitions-landing-page/awards/help-and-contact).