DAIKIN

DAIKIN APPLIED (UK) LTD

Technically better...

Understanding BREEAM

How Daikin Applied (UK) AHUs can aid certification

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What is BREEAM?

BREAAM (Building Research Establishment Environmental Assessment Method) is a rating system developed by the Building Research Establishment (BRE) in 1990. It is used to specify and measure the sustainability performance of buildings, ensuring that projects meet sustainability goals and continue to perform optimally over an extended period.

A BREAAM assessment uses recognised measures of performance, which are set against established benchmarks, to evaluate a building's environmental impact across 10 categories including, energy, water, waste, pollution, transport, and ecology. The categories are weighted based on their environmental impact, meaning measures in one sub-category can count for more than that of another, however, a building must achieve a minimum score in each category to achieve certification.

What are the benefits of BREEAM?

Compliance with local and national sustainability regulations (up to 70% of local authorities require BREAAM certification). Demonstrates a commitment to sustainability.

Improved occupant health and wellbeing.

BREAAM certification can improve the overall value of a building due to its increased marketability because of improved sustainability and energy reduction.

Reduced operating costs through improved energy and water efficiency.

Is BREEAM mandatory?

BREEAM is not mandatory for all buildings in the UK, however, it is often required for certain developments, especially large commercial or public buildings. Certain funders, clients or stakeholders may request BREEAM certification as a condition of their involvement in a project. For example, the UK government has requested BREEAM certification for its own buildings and for those for which they have provided significant funding.

Categories for BREEAM Certification

Management

BRE encourages developers to adopt sustainable management practices throughout a building's life cycle, including **design, construction, and aftercare**. This helps to ensure that builders follow the sustainability goals they set in advance and guarantees these goals will remain in place during the operation of the building.

Energy

Evaluation of the efforts to enhance a building's energy efficiency and reduce the building's carbon emissions will be at the forefront for BREEAM certification. Developers must implement solutions that promote the sustainable use of energy throughout a building's life span. This can be achieved by **optimising HVAC equipment for energy efficiency and low carbon footprint** whilst also considering lighting and appliances carefully with regard to energy consumption.

Health & Wellbeing

BRE recognises that a building's overall design can affect the health, wellbeing, and comfort of occupants and builders are encouraged to develop measures that will ensure a positive impact. This can include things such as the amount of natural light available within the buildings, access to outdoor spaces, **indoor air quality, thermal comfort, and acoustics**.

Pollution

The objective is to measure and evaluate efforts to prevent and control pollution, including light and **noise pollution**, flooding, water, and air emissions. Reducing pollution can be achieved through measures such as **air filtration systems**, low-emission vehicles and monitoring **indoor air quality**.

Waste

The waste category focuses on sustainable management and possible reuse of a building's construction and operation waste. It encourages developers to implement measures to help reduce the amount of waste materials that are directly produced from the building. Our systems are designed to be **easily adaptable, upgradable, and refurbishable** to meet future building demands.

Materials

The materials category is concerned with the materials used for the design, construction, maintenance, and repair of a building and all its associated equipment. It encourages builders to utilise materials sourced responsibly and have a low embodied carbon impact throughout their life cycle.

Water

The objective is to assess various measures that promote sustainable land use and protection, with the main core of the objective being active consideration of the surrounding land and the biodiversity of the main site. To obtain a high rating under this category, builders are encouraged to develop a biodiversity management system as well as procedures to improve local ecology. Incorporating more green spaces, wildlife habitats and green roofs.

Land Use
& Ecology

The objective is to assess various measures that promote sustainable land use and protection, with the main core of the objective being active consideration of the surrounding land and the biodiversity of the main site. To obtain a high rating under this category, builders are encouraged to develop a biodiversity management system as well as procedures to improve local ecology. Incorporating more green spaces, wildlife habitats and green roofs.

Transport

The transport category emphasises the importance of a building's occupants having access to sustainable methods of transport.

Innovation

The innovation category provides builders with the opportunity to demonstrate exemplary performance and innovation in areas that go beyond the requirements of a specific credit area. I.e. integrating innovative products and processes.

Achieve up to
68 credits
with Daikin Applied AHUs

Despite a benchmark being set for each category granting certification, there are multiple levels of certification that can be obtained.

Integration of Daikin technologies will contribute to the overall sustainability level of the building and enable you to **reach a BREAAM Excellent or Outstanding score**. Our knowledge and portfolio of products will help you to **achieve your BREEAM objectives while staying within budget**.

BREEAM rating	% score
Outstanding ★ ★ ★ ★ ★	≥85
Excellent ☆ ★ ★ ★ ★	≥70
Very good ☆ ☆ ★ ★ ★	≥55
Good ☆ ☆ ☆ ★ ★	≥45
Pass ☆ ☆ ☆ ☆ ★	≥30
Unclassified ☆ ☆ ☆ ☆ ☆	<30

Materials

Mat01: Environmental impact of materials - up to 6 credits
Mat03: Responsible sourcing of materials - 4 credits available
Mat04: Insulation - 1 credit available
Mat05: Designing for durability & resilience - 1 credit available
Mat06: Material efficiency - 1 credit available

Management

Man01: Project brief & design – 4 credits available
Man02: Life cycle cost & service life plan– 4 credits available
Man04: Commissioning & handover – 4 credits available
Man05: Aftercare – 3 credits available

Energy

Ene01: Reduction of energy use & CO2 – up to 15 credits
Ene04: Low carbon design – 3 credits available.
Ene08: Energy efficiency equipment - 2 credits available.

Health & Wellbeing

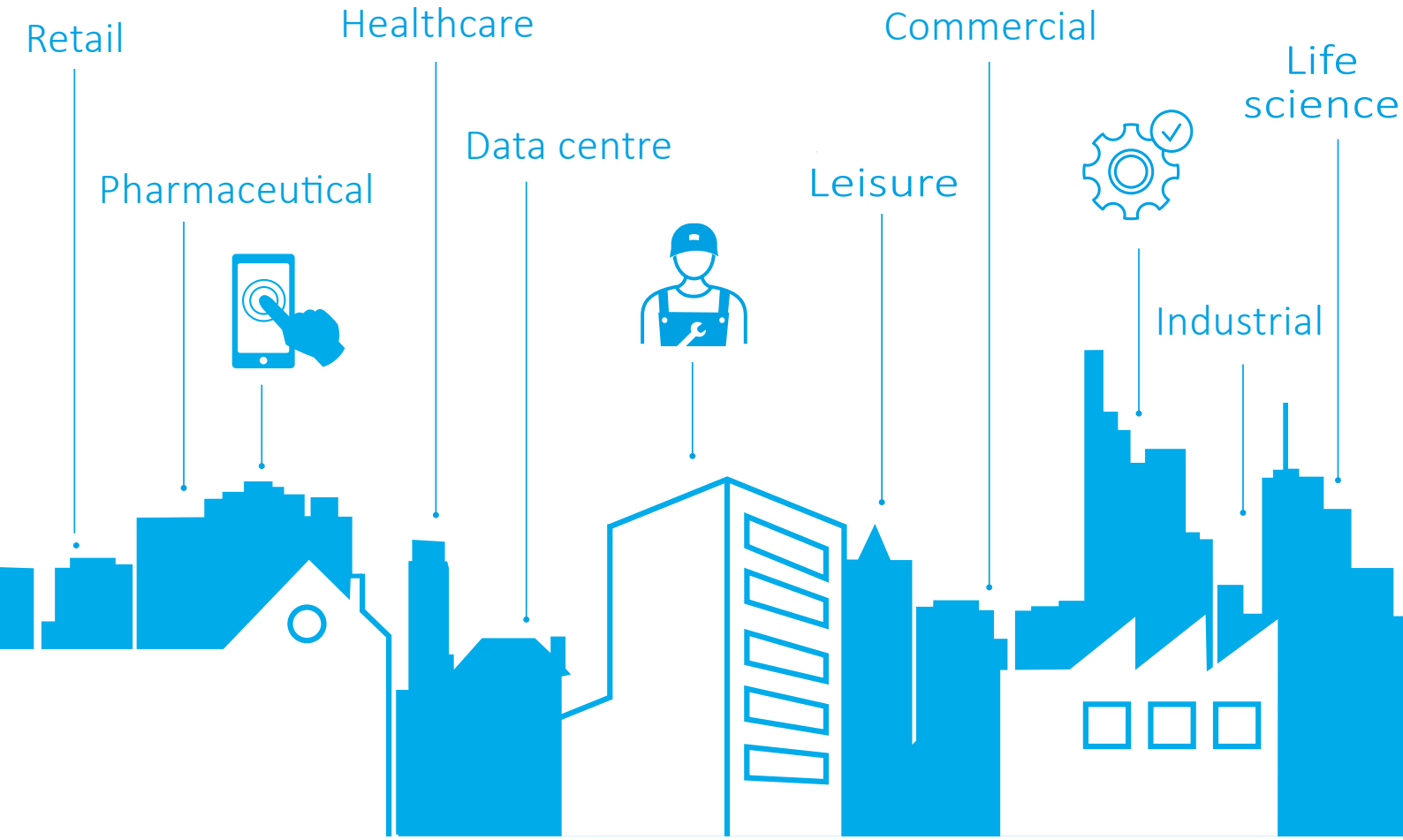
Hea02: Indoor air quality – 5 credits available
Hea04: Thermal comfort – 3 credits available
Hea05: Acoustic performance – 4 credits available
Man05: Aftercare – 3 credits available

Pollution

Pol01: Impact of refrigerants – 3 credits available
Pol05: Noise attenuation – 1 credit available

Waste

Wst06: Functional adaptabilitiy – 1 credit available.



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Daikin Europe N.V. participates in the Eurovent Certified Performance programme for Fan Coil Units and Variable Refrigerant Flow systems. Daikin Applied Europe S.p.A participates in the Eurovent Certified performance programme for Liquid Chilling Packages, Hydronic Heat Pumps and Air handling Units. Check ongoing validity of certificate: www.eurovent-certification.com

Environmental management system certificate Nr. 50 100 9310/4. Quality management system certificate Nr. 50 100 9493/3 and 9493/4

ISO 45001 Occupational Health and Safety Management