

KONE & BREEAM UK NEW CONSTRUCTION (NC) 2018

HELPING CUSTOMERS TO SUCCEED IN GREEN BUILDING CERTIFICATIONS

KONE's eco-efficient People Flow® solutions for BREEAM UK New Construction (NC) 2018 certified buildings help to combat climate change and contribute to the development of next-generation green buildings. Using our eco-efficiency expertise, we provide in-depth analysis of traffic patterns as well as the energy consumption and potential carbon footprint reduction of our solutions over their entire operational lifespan.

WHAT IS BREEAM UK NC 2018?

BREEAM (Building Research Establishment's Environmental Assessment Method) is an internationally recognised green building rating system. Developed by Building Research Establishment (BRE), BREEAM helps clients manage and mitigate risk through demonstrating sustainability performance during planning, design, construction, operation or refurbishment.

BREEAM UK NC 2018 CREDITS

ENE06: Energy efficient transport systems – FIRST CREDIT One credit is achieved when all assessment criteria are fulfilled

REQUIREMENTS

HOW KONE CAN HELP

Conduct an analysis of the transport demand for the building to determine the optimum number and size of lifts, escalators and moving walks.

KONE can provide a dedicated traffic analysis report using its people flow expertise and tools.

Estimate the energy consumption of the design lift, escalator and moving walks in accordance with ISO 25745 Energy performance of lifts, escalators and moving walks, comparing the designed solution with another system fitted for purpose.

KONE can provide energy efficiency calculations in accordance with ISO 25745 methodology.

Consider the use of regenerative drive in case where it produces an energy saving greater than the additional standby energy used to support the drives.

KONE can provide evidence of the potential energy savings enabled by the regenerative drive.

Specify the lift with the lowest energy consumption.

KONE can provide an energy efficiency report for its solutions.

ENE06: Energy efficient transport systems – SECOND CREDIT Once the first credit has been achieved, one further credit can be obtained by specifying the following energy efficient features for each lift

REQUIREMENTS

HOW KONE CAN HELP

Adopt standby solutions, for example for the lifts car lighting, user displays and ventilation fans.

KONE can provide technical information for:

Adopt car lighting and display lighting providing an average lamp efficacy (across all fittings in the car) of >70 luminaire lumens per circuit Watt.

- Standby solutions
- Car lighting lamp efficacy - standby mode
- Drive
- Energy saving enabled by the regenerative drive

Adopt a drive with variable speed and variable frequency.

Adopt regenerative drive where its use is demonstrated to save energy, unless it can be demonstrated that this is not financially viable, accounting for payback over the service life of the installation.

ADDITIONAL BREEAM UK NC 2018 CATEGORIES RELEVANT TO KONE

CREDIT		REQUIREMENTS	HOW KONE CAN HELP
HEA02	INDOOR AIR QUALITY	Listed product types need to meet the emission limits (for formaldehyde, volatile organic compounds and carcinogens), testing and additional requirements.	KONE can support customers in selecting compliant finishing materials for the lift car and provide evidence that the materials selected comply with technical requirements.
MAT02	ENVIRONMENTAL IMPACT FROM CONSTRUCTION PRODUCTS – ENVIRONMENTAL PRODUCT DECLARATION (EPD)	Specify materials with a low environmental impact over the full life cycle.	KONE Environmental Product Declarations (EPDs) provide information about the environmental performance of KONE solutions throughout their lifecycle. Many of KONE volume lifts have externally verified EPD. The declarations can be used by customers in obtaining green building certifications and when calculating the carbon footprint of the building.
MAT03	RESPONSIBLE SOURCING OF CONSTRUCTION PRODUCTS	All timber and timber-based products used on the project are legally harvested and traded timber.	KONE can support customers on request in selecting compliant wood-based finishing materials for the lift car and provide evidence that the materials selected comply with the requirements.
MAT05	DESIGNING FOR DURABILITY AND RESILIENCE	Adopt adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation.	KONE can provide materials for the lift car that meet durability and resilience requirements.
MAN04	COMMISSIONING AND HANDOVER	Ensure users awareness regarding the 'green features' of their building and how to interface with them.	KONE can provide user guides for its solutions.
WST01	CONSTRUCTION WASTE MANAGEMENT	Reduce waste generation and encourage its diversion from landfill through good design and construction practices.	KONE can fulfill the requirements of the Construction Waste Management plan established for the project.