

# KONE AND LEED – BUILDING DESIGN AND CONSTRUCTION (BD+C)\*

## Helping customers to succeed in green building certifications

KONE’s eco-efficient people flow solutions for LEED-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.

In 2003 KONE became the first elevator company to join the U.S. Green Building Council (USGBC). We are also a member of the Green Building Councils of several European and Asian countries.

### What is LEED ?

Leadership in Energy and Environmental Design (LEED) is an internationally recognized green building rating system. Developed by the USGBC, the LEED v4 BD+C certification system provides building owners and operators with a concise framework for identifying and implementing practical and measurable green building design, construction, operations, and maintenance solutions.

### LEED V4 BD+C

### How KONE supports its customers

- Providing detailed information about LEED v4 BD+C certification schemes
- Helping to reduce on-site energy consumption and overall building carbon footprint
- Helping to meet applicable LEED v4 BD+C prerequisites and contribute to achieving LEED credits

ENERGY AND ATMOSPHERE			
		REQUIREMENTS	HOW KONE CAN HELP
Fundamental commissioning and verification	Prerequisite	Prepare and maintain an operation and maintenance plan that contains the necessary information to operate the building efficiently.	KONE can provide user guides and maintenance plans for its solutions.
Minimum energy performance	Prerequisite	Meet mandatory requirements for elevators: -Car lighting -Car fan -Standby mode -Air conditioner	KONE can design solutions to meet requirements and provide visual and technical evidence when required.
Fundamental refrigerant management	Prerequisite	Do not use chlorofluorocarbon (CFC)-based refrigerants in new heating, ventilating, air conditioning, and refrigeration (HVAC&R) systems.	KONE equipment does not use CFC refrigerants.
Optimize energy performance	Credit	Demonstrate overall building energy consumption reduction in the proposed building compared with the baseline building.	KONE solutions can be included in a project’s energy simulation providing the “Exceptional Calculation Method” is applied. KONE can support this by providing energy-efficiency calculations.
Enhanced refrigerant management	Credit	Reduce ozone depletion and support early compliance with the Montreal Protocol while minimizing direct contributions to climate change.	KONE can provide equipment that has low ozone depletion potential (ODP) and low global warming potential (GWP).

\*LEED BD+C: Healthcare and School not covered

## MATERIALS AND RESOURCES

		REQUIREMENTS	HOW KONE CAN HELP
Construction and Demolition Waste Management	Prerequisite	Develop and implement a construction and demolition waste management plan.	KONE can fulfill the requirements of the Construction Waste Management plan established for the project. KONE also has its own set of guidelines for waste handling and recycling at installation sites.
Building Product Disclosure and Optimization - Environmental Product Declaration	Credit	Use at least 20 different permanently installed products with Environmental Product Declaration (EPD) sourced from at least five different manufacturers.	KONE EPDs provide information about the environmental performance of elevators throughout their life cycle. Third-party verifications are available for a limited number of solutions.
Building Product Disclosure and Optimization – Sourcing of Raw Materials	Credit	Use at least 20 different permanently installed products from at least five different manufacturers that have publicly released a report which includes environmental impacts of extraction operations and activities associated with the manufacturer’s products.	KONE can provide a sustainability report that complies with Global Reporting Initiative guidelines. KONE’s annual report describes matters in line with the UN Global Compact’s Communication of Progress process.

## INDOOR ENVIRONMENTAL QUALITY

		REQUIREMENTS	HOW KONE CAN HELP
Low emitting materials	Credit	Achieve the threshold level of compliance with emissions, VOC content of materials and testing methods.**	KONE can support customers in selecting compliant finishing materials for the elevator car and provide evidence that the materials selected comply with technical requirements. KONE uses the minimum possible amount of chemicals during installation.
Construction indoor air quality management plan	Credit	Develop and implement an indoor air quality (IAQ) management plan for the construction and preoccupancy phases of the building.	KONE can fulfill the requirements of the Indoor Air Quality Management plan established for the project.

\*\* Requirements may vary depending on whether the Option 1 or Option 2 Budget Calculation Method is followed in the project.

## INNOVATION

		REQUIREMENTS	HOW KONE CAN HELP
Innovation	Credit	Achieve significant, measurable environmental performance using a strategy not addressed in the LEED green building rating system.	KONE can provide documentation on innovative solutions on a project-by-project basis.