

# 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.

## 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

## WHAT IS LEED ?

Leadership in Energy and Environmental Design, LEED, is globally used green building rating system. Developed by the U.S. Green Building Council (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

| ENERGY AND ATMOSPHERE                      |                         |  |   |
|--|-------------------------|--|---|
|  | PREREQUISITE/<br>CREDIT | 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 guide and maintenance plan for its solutions.   |
| MINIMUM ENERGY PERFORMANCE                 | Prerequisite            | Meet mandatory requirements for elevators: <ul style="list-style-type: none"> <li>- Car lighting</li> <li>- Car fan</li> <li>- Standby mode</li> </ul> | KONE can design solutions to meet requirements and provide visual and technical evidences, when specified.  |
| 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 to project's energy simulation, if "Exceptional Calculation Method" is followed. KONE can support this by providing energy efficiency calculations. |

\*LEED BD+C: Healthcare not covered

## MATERIALS AND RESOURCES

|  | PREREQUISITE/<br>CREDIT | 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 Construction Waste Management plan established for the project. KONE has also its own waste management 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 Environmental Product Declarations (EPDs) provide information about the environmental performance of elevators throughout their lifecycle. Third party verification exists currently for limited scope 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 Sustainability Report compliant with Global Reporting Initiative's. KONE describes on its report matters yearly in line with the UN Global Compact's Communication of Progress process.                  |

## INDOOR ENVIRONMENTAL QUALITY

|   | PREREQUISITE/<br>CREDIT | 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 the project to select compliant finishing materials for the elevator car and provide evidences. KONE uses minimum amount of chemicals during the 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 Indoor Air Quality Management plan established for the project.  |

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

## INNOVATION

|            | PREREQUISITE/<br>CREDIT | 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 support providing documentation for innovative solutions on project basis. |

## KONE CORPORATION

[www.kone.com](http://www.kone.com)