

Pure competence in air.

ENERGY EFFICIENT ZERAX[®] FANS CONTRIBUTE TO LEED CERTIFICATION OF SUSTAINABLE BUILDINGS

Building & Industry

NOVENCO 

SCHAKO Group



U.S. Green Building Council created LEED to measure and define what green building means, and to provide a roadmap for developing sustainable buildings.

With the LEED, U.S. Green Building Council established a benchmark - a commonly agreed overall system for reducing environmental impact.

LEED facts

LEED stands for Leadership in Energy and Environmental Design.

LEED is the American sustainability certification scheme for buildings and is administered by the U.S. Green Building Council.

LEED was established in 1998.

LEED is used worldwide.

More than 135 countries in the world have LEED-certified buildings.

LEED certification is a globally recognized symbol of sustainability achievement and leadership.

A building earns one of four LEED rating levels: Certified, Silver, Gold or Platinum.



HOW NOVENCO CONTRIBUTES TO LEED CERTIFICATION

Rambøll has created reports and associated documentation packages that make it easy for LEED auditors to assess NOVENCO Building & Industry's specific contribution to LEED certification of sustainable buildings.
The documentation describes how NOVENCO® ZerAx® fans contribute to LEED v4 for Building Design and Construction.

GREEN IMPACT

As a conclusion, NOVENCO's highly efficient and energy-saving ZerAx® axial fans contribute positively to LEED certification of sustainable buildings. In collaboration with Danish leading engineering and consultancy company, Rambøll, we have documented how our products can help constructors and contractors achieve more points in the LEED certification.

The table on the next page shows the list of the LEED-credits in the three categories for which NOVENCO Building & Industry's products can contribute to the achievement of points in the LEED system. The possible points listed are the total possible points in the category, and the points for which NOVENCO can contribute are shown for each building type in each credit. It is important to notice that it is not the ZerAx fan alone that ensures the points in each credit, the points only indicate where the ZerAx fan can influence the point allocation.

ENERGY IN FOCUS. NATURALLY.

The ZerAx® fans have an additionally large impact on the energy consumption in the buildings.

The environmentally responsible EC⁺ concept with ZerAx® fans is the latest market response to growing demands for energy saving and the result of close cooperation between Danfoss and NOVENCO.

With overall efficiencies up to 85%, the EC⁺ solution is the most efficient, profitable and up-to-date available on the market. Conceived to increase efficiencies of HVAC systems, the EC⁺ concept offers to radically reduce use of energy in existing and new installations. Furthermore, the environmental impact is diminished and CO₂ emissions are significantly reduced.

All this makes the EC⁺ solutions strong and capable alternatives for maximization of the energy efficiencies of ventilation systems for the benefit of operators and the environment.



Novenco provides a well-documented and easy to work with product in the implementation of LEED certifications.

With all documentation for LEED in one place, Novenco creates a very transparent product – the Novenco ZerAx axial flow fans. This is exactly what is needed to make informed design choices in the future.



*Christine Collin,
Senior Sustainability Consultant at Rambøll*



Are you a LEED auditor?

If you are a LEED auditor on a specific project, you can receive Rambøll's detailed report and additional documentation package for NOVENCO's contribution to the building certification.

Contact us on info@novenco-building.com or +45 70 77 88 99

CREDIT OVERVIEW

The below table shows the list of the LEED-credits in the three categories for which NOVENCO® ZerAx® can contribute to the achievement of points in the LEED system.

LEED category and credits	Description	Available points
Energy and Atmosphere		
EA P1 Fundamental Commissioning and Verification	The intent of this credit is to support the design, construction and eventual operation of a project that meets the owner's project requirements for energy, water, indoor environmental quality and durability.	Pre-requisite
EA P2 Minimum Energy Performance	The intent of this credit is to reduce the environmental and economic harms of excessive energy use by achieving a minimum level of energy efficiency for the building and its systems.	Pre-requisite
EA C2 Optimize Energy Performance	The intent of this credit is to achieve increasing levels of energy performance beyond the pre-requisite standard to reduce negative environmental and economic damage associated with excessive energy use.	Sch 1 - 16 NC, CS, Re, DC, WaDC, Ho 1 - 18 He 1 - 20
Materials and Resources		
MR P2 Construction and Demolition Waste Management Planning	The intent of the credit is to reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, re-using and recycling materials.	Pre-requisite
MR C1 Building Life-Cycle Impact Reduction	The intent of the credit is to encourage adaptive re-use and optimize the environmental performance of products and materials. A Life Cycle Assessment (LCA) is completed for the building components with the purpose of reducing the life-cycle impact of the project.	NC, Sch, Re, DC, WaDC, He, Ho 2 - 5 CS 2 - 6
MR C2 Building Product Disclosure and Optimization - Environmental Product Declarations	This credit focuses on the quality of the data available when assessing the environmental impact of materials used in the building construction i.e. the availability of Environmental Product Declarations and the type of declaration. The intent is to encourage the use of products from manufacturers who have verified improved environmental life-cycle impacts.	All 1 - 2
MR C3 Building Product Disclosure and Optimization - Sourcing of Raw Materials	This credit focuses on the quality of the data available when assessing the environmental impact of materials used in the building construction. The intent is to encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts.	All 1 - 2
MR C4 Building Building Product Disclosure and Optimization - Material Ingredients	This credit focuses on disclosure of chemical compounds used in the production of NOVENCO's ZerAx fan. The aim is to identify and reduce potential health risks from building materials utilized in the construction of buildings.	All 1 - 2
MR C9 Construction and Demolition Waste Management	This credit focuses on reducing construction and demolition waste disposed of in landfills and incineration facilities by recovering, re-using and recycling materials.	All 1 - 2
Indoor Environmental Quality		
EQ P3 Minimum Acoustic Performance	This credit attempts to provide classrooms that facilitate teacher- to-student and student-to-student communication through effective acoustic design.	Pre-requisite
EQ C9 Acoustic Performance	This credit attempts to provide workspaces and classrooms that promote occupants' well-being, productivity, and communication through effective acoustic design.	NC, CS, Sch, Re, DC, WaDC, Ho 1 He 1 - 2

NC - New Construction
CS - Core and Shell
Sch - Schools

Re - Retail
DC - Data Centres
WaDC - Warehouse and Distribution Centers

Ho - Hospitality
He - Health Care

ZERAX[®] - DESIGNED FOR LIFETIME

The engineering of the NOVENCO[®] ZerAx[®] fans is an unprecedented achievement in NOVENCO history. The ZerAx revolutionises the design and performance of axial flow fans and is in fact an energy-saver of the future that redefines and heralds a new generation of fans.

The ZerAx is 98% recyclable, has unmatched fan efficiencies of 92% , low sound levels and product lifetimes of 20+ years. This makes it the best-in-class and ready to comply with future environmental legislation.



Fan efficiencies
up to 92%



Energy savings
of 20-50%



Lifetime
of 20+ years



98% recyclable



Low
sound levels



ROI's between
12-18 months



Zero
maintenance



Sustainable
production

Pure competence in air.

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