

Pure competence in air.

# ENERGY EFFICIENT ZERAX<sup>®</sup> FANS CONTRIBUTE TO BREEAM CERTIFICATION

Building & Industry



SCHAKO Group



**BREEAM is one of the most common and internationally recognised certification schemes for sustainability in buildings.**

**With the BREEAM, BRE Group established a green building sustainability rating system for assessing the environmental performance of buildings.**

### **BREEAM facts**

**BREEAM stands for Building, Research, Establishment, Environmental, Assessment, Method.**

**BREEAM is the British sustainability certification scheme for buildings and is administered by the BRE Group.**

**BREEAM was established in 1990.**

**BREEAM is used worldwide.**

**BREEAM is the trusted mark of sustainability for buildings and communities.**

**A building earns one of six BREEAM rating levels: Outstanding, Excellent, Very good, Good, Pass, Acceptable.**



# HOW NOVENCO CONTRIBUTES TO BREEAM CERTIFICATION

**Rambøll has created reports and associated documentation packages that make it easy for BREEAM assessors to assess NOVENCO Building & Industry's specific contribution to sustainable building certification scheme, BREEAM for New Construction.**

**The documentation describes how NOVENCO® ZerAx® fans contribute to BREEAM International New Construction, Technical Manual 2016, SD233 2.0.**

## GREEN IMPACT

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

The table on the next page shows the list of the BREEAM-credits in the three categories for which NOVENCO Building & Industry's products can contribute to the achievement of credits in the BREEAM scheme. The possible credits listed are the total possible in the category, and the credits for which NOVENCO can contribute, are shown for each building type in each credit. It is important to notice that it is not ZerAx fan alone that ensures the credits in each issue, the credits only indicate where ZerAx fan can influence the credits 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 CO<sub>2</sub> 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 is making it easier to implement the Novenco ZerAx fans into BREEAM assessed buildings. By providing all documentation in one easily accessible place, Novenco makes it simple for the project teams to make qualified design choices and for the BREEAM assessor to register and document the required parameters. This is a good example of how the sustainability assessment process can be smoother and thereby more effective and widely used.



*Trine Bindslev Tree,  
Senior Sustainability  
Consultant at Rambøll*

## Are you a BREEAM assessor?

**If you are a BREEAM assessor 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](mailto:info@novenco-building.com) or +45 70 77 88 99**

# CREDIT OVERVIEW

The below table shows the list of the BREEAM-credits in the six categories for which NOVENCO® ZerAx® can contribute positively to the BREEAM-certification of buildings.

BREEAM criteria	Description	Credits
<b>Management</b>		
<b>Man 02</b>	Life cycle cost and service life planning	<b>All</b> 1- 4
<b>Man 04</b>	Commissioning and handover	<b>All</b> 1- 4
<b>Health and wellbeing</b>		
<b>Hea 02</b>	Indoor air quality	<b>All</b> 1- 5
<b>Hea 05</b>	Acoustic performance	<b>Res, ResInsL</b> 1- 4 <b>Off, Ind, Re, Edu, ResInsS</b> 1- 2
<b>Energy</b>		
<b>Ene 01</b>	Reduction of energy use and carbon emissions	<b>All</b> 1- 15
<b>Ene 07</b>	Energy efficient laboratory systems	<b>Off, Ind, Re, Edu</b> 1- 5
<b>Materials</b>		
<b>Mat 01</b>	Life cycle impacts	<b>Res, Off, Re, Edu, ResInsL, ResInsS</b> 1- 6 <b>Ind</b> 1- 3
<b>Mat 03</b>	Responsible sourcing of construction products	<b>All</b> 1- 4
<b>Mat 06</b>	Material efficiency	<b>All</b> 1
<b>Waste</b>		
<b>Wst 06</b>	Functional adaptability	<b>Off, Ind, Re, Edu</b> 1
<b>Pollution</b>		
<b>Pol 05</b>	Reduction of noise pollution	<b>All</b> 1

**Res** - Residential

**Off** - Office

**Ind** - Industrial

**Re** - Retail

**Edu** - Education

**ResInsL** - Residential institution (long term stay)

**ResInsS** - Hotels & Residential institution (short term stay)

# ZERAX<sup>®</sup> - DESIGNED FOR LIFETIME

The engineering of the NOVENCO<sup>®</sup> ZerAx<sup>®</sup> 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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