



NORTHCONE

Titel	LCA & SUSTAINABILITY CERTIFICATE				
Art nr	Applies to all lighting poles	Dokument Nr.	F-01-012 95	Författare	Anders Blomqvist
Beskrivning		Revision	004	Datum	2019-05-19

LCA & sustainability certificate

Introduction

Northcone's lighting poles are unique with their low material consumption and long, durable service life.

To support this, as well as measure the company's overall footprint on the environment, the accredited Environmental Investigation Company Miljögiraffen has conducted a comprehensive study and LCA analysis. The study conducted according to LCA ISO 14040 looks at the entire flow from raw material (magnelis in the post, foundation and

wedge ring), to our manufacturing, transportation, installation use and finally reuse. For each step, the footprint and environmental impact are calculated.

The study shows that Northcone's lighting poles are significantly more environmentally friendly than other alternatives on the market. A short summary is shown below. For a complete analysis, see "Environmental report" at www.northcone.se

Minimal leaching from the post itself

The leaching of zinc to nature is almost non-existent. The extremely low leaching of materials contributes to the immediate environment of the pillar not being affected by heavy metals. Sensitive ecosystems, species worthy of protection and wet environments can be found near roads and their drainage systems.

Low environmental impact from the factory

The factory in Borlänge only uses electricity from eco-labeled hydropower or wind power. Manufacturing also does not use any wet varnish, which is a process that otherwise requires solvents. The lacquered alternatives are offered via powder lacquer or thermal lacquer. These two methods are more environmentally friendly as they take place in closed systems without solvents.

Recycling

When the post has finally reached the end of its service life, all material is recyclable, and a new one can be made from an old post. The low weight of the post also provides environmental benefits for transport to and from the factory.

Total impact

If you look at the total environmental impact according to the methods ReCiPe (total impact), IPCC GWP 100 (climate impact) and USEtox (toxins), the study shows that Northcone's lighting poles in total have as much as 10 -50% lower environmental impact compared to traditional poles.



NORTHCONE

Titel	LCA & SUSTAINABILITY CERTIFICATE				
Art nr	Applies to all lighting poles	Dokument Nr.	F-01-01295	Författare	Anders Blomqvist
Beskrivning		Revision	004	Datum	2019-05-19

Environmental classifications in the industry.

Northcone meets the requirements in Sunda Hus, Byggvarubedömningen and Basta.

Northcone's environmental policy

Northcone's environmental policy shall provide guidance in the environmental work and contribute to us achieving continuous improvement and reduced environmental impact from our operations. We shall exceed applicable laws, ordinances and other regulations.

1. Environmental work must be a natural part of every employee's daily work.
2. We will strive to continuously reduce our total environmental impact, with a focus on reducing energy consumption and harmful emissions as well as increasing recycling.
3. By developing new environmentally friendly technology and environmentally friendly products, the company shall create profitability and at the same time reduce its environmental impact.
4. The company also sets environmental requirements for contractors and suppliers and together tries to develop solutions for environmentally friendly technology and resource management.

Environmental organization at Northcone

As of 2019, Northcone environmental issues are run by a special environmental manager, Anders Blomqvist. Through the environmental manager, coordination, and integration in the business and with suppliers is increased. Environmental work, which began as early as 2017, includes projects and activities related to all activities in the company.

To achieve harmonization and standardization of our quality work in the long term, an integration in connection with our business development is underway.



Johanneshov den 29 april 2019

John Löwbäck

VD Northcone AB