



# KATEPAL GREEN -ROOFING LINE

A BETTER CHOICE - NATURALLY





## KATEPAL GREEN PRODUCT FAMILY

Katepal Green is a choice that can reduce a building's carbon emissions. The products are made with renewable and recycled raw materials, and carbon-free "green" electricity was used during the manufacturing process. Katepal Green bitumen top sheets have a significantly smaller carbon footprint than comparable standard products. The carbon footprint of an ordinary bitumen roof is already competitive, but Katepal Green products go a step farther. When calculating carbon footprint, the emissions of every part of the building are important. The renewable and recycled materials used in Katepal Green products are top-quality, with durability and warranties equivalent to those provided by traditional bitumen top sheets. You can choose a more environmentally friendly product and still get the same quality and installation features. Katepal Green products have been tested in real-life situations from the very beginning, utilising feedback that comes directly from the field.

### **Legislative amendment: Carbon footprint of building products**

In 2017, the Finnish Ministry of the Environment published a roadmap for low-carbon construction. The purpose of this roadmap is to reduce the carbon footprint of construction – especially building materials – and promote the climate targets that apply to Finland's property sector.

The Ministry of the Environment's objective is to use legislation to control the whole life-cycle carbon footprint of buildings by the mid-2020s. In practice, this means setting carbon emission limits for buildings. Construction materials play a significant role in carbon emissions during the life-cycle of a building. The majority of emissions caused by construction materials and products occur during the manufacturing phase, and these are affected by, for example, the type of energy and raw materials used in the process. Replacing fossil-based materials with renewable and recycled raw materials is one of the best ways to influence the amount of carbon emissions caused by a product's raw materials.

### **Calculating carbon emissions**

Various calculation methods and standards are available for calculating carbon emissions. In order to ensure that the carbon emission values calculated for our products are as realistic and comparable as possible, we use an external consultant to perform our emissions calculations. The carbon emission values and other environmental impacts of products are published in Environmental Product Declaration (EPD) format. The EPD document is compiled according to the SFS-EN 15804:2019 standard and verified by a third party. Preparation of EPD documents for Katepal products is currently in progress.



The Ministry of the Environment has opened an emissions database for construction products as part of the low-carbon assessment method for buildings. This database contains generic carbon emissions values for different construction product groups. The values provided in the emissions database help building designers assess and compare the impact that different production products have on the carbon footprint of the entire building. The general emissions values for bitumen top sheets found in the database were jointly specified by manufacturers in the industry. Katepal was involved in the work done to produce these values.

### **Reducing carbon footprint is the sum of many factors**

Several methods have been used to reduce the carbon footprint of the Katepal Green product family. Some of the fossil-based bitumen has been replaced with a renewable wood-based raw material, which is tall oil at this time. Recycled PET bottles are used when manufacturing the supporting layers for Green products, and the product are also produced with environmentally friendly “green”

electricity. In the future, Katepal wants to further reduce the carbon footprint of Green products, and we’re actively looking for methods to achieve this goal.

### **Life-cycle of bitumen products**

The fact that a bitumen roof can be recycled at the end of its life-cycle also reduces its environment impacts. Bitumen roof waste can be turned into granules and used to replace some of the bitumen needed as a binding material in asphalt. Approximately 20,000 tons of bitumen can be recovered each year in Finland. Bitumen makes up around 50% of a bitumen roof, which means that about 10,000 tons of virgin bitumen can be replaced with recycled bitumen. In Finland, recycling of bitumen roof waste has been possible for several years. Following the Finnish Transport Infrastructure Agency’s decision in January 2021 to approve bitumen granules as a raw material for asphalt, real and extensive recycling use can begin at asphalt work sites this summer. The fact that it costs less to deliver bitumen roof waste to a recycling point than to a landfill or energy waste plant also encourages recycling.

**“ The Katepal Green product family represents the future of construction in terms of its low-carbon nature and use of renewable bio raw materials.”**



## 70 years on Finnish roofs

Katepal Oy is Finland's leading manufacturer of bitumen roofing materials and products. This family-owned company was established in 1949 and its factory is located in Lempäälä, near the city of Tampere. By choosing Katepal, you support 100% Finnish work.

Our products have CE marking, which means that they meet European product standards. We comply with the ISO 9001 quality system. We take environmental values into account in our operations.



**Manufactured  
in Finland**



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