



PAVING THE WAY FOR GREENER BUILDINGS

GROHE DRIVES BUILDINGS' ENVIRONMENTAL FOOTPRINT REDUCTION THROUGH INNOVATIVE SOLUTIONS.

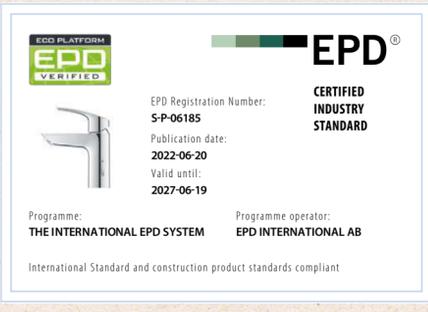
Nearly 40% of global carbon emissions are building- and construction-related. As an industry pioneer, GROHE is addressing the problem on different levels to foster the sustainable transformation of this sector. The sanitary brand helps its clients with transparent data as well as circular products and resource-efficient technologies to choose solutions which have a positive impact on the footprint of their project while offering the same comfort experience.

1 ENVIRONMENTAL PRODUCT DECLARATIONS (EPD) PRODUCT PASS DISCLOSES ENVIRONMENTAL IMPACT

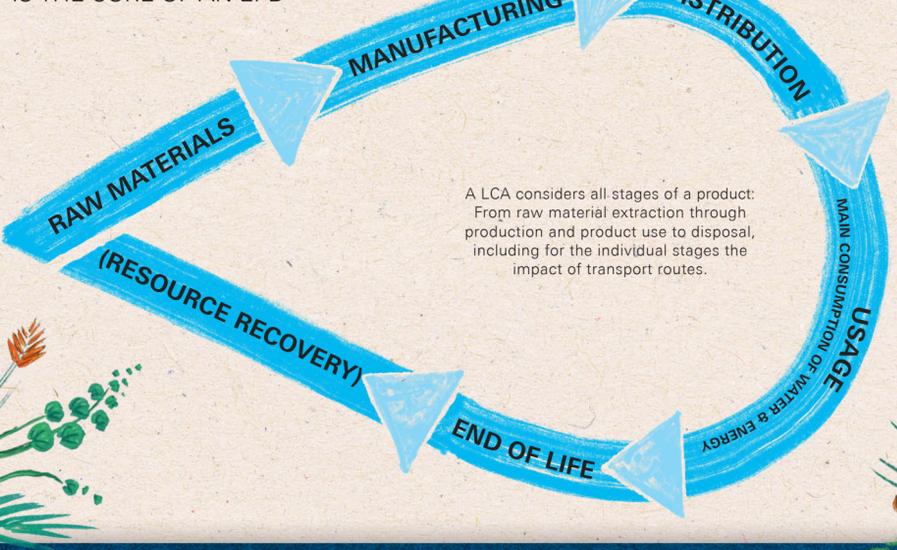
An EPD is a comprehensive, **independently verified** and **registered "product pass"**. It reports **comparable, transparent data** on the entire **environmental life cycle impact** of a product. EPDs comply with ISO 14025 and, for construction products, services and processes, with EN 15804.

In 2022, GROHE released **EPDs for 18 product groups** covering basin and kitchen mixers, thermostats, shower rail sets, hand showers, installation systems and flush plates.

In providing customers with transparency about the ecological footprint of its products, GROHE helps them to make informed statements about the environmental impact of buildings, which is often a cornerstone for sustainability certifications such as DGNB, LEED or BREEAM, or even a prerequisite for new building permits in many European cities.



A LIFE CYCLE ASSESSMENT (LCA) IS THE CORE OF AN EPD



2 CRADLE TO CRADLE CIRCULAR ECONOMY AIMS FOR A BETTER WORLD WITHOUT WASTE

Cradle To Cradle Certified® products are designed and manufactured with the intent of using the components in the end-of-life-phase for the creation of new products.



GROHE has already launched five best-selling products as *Cradle to Cradle Certified*®. This includes faucets for kitchen and bathroom, a shower rail set and the GROHE Blue filters of our supplier BWT.



GROHE EUROSMART KITCHEN

GROHE BAUEDGE S-SIZE

GROHE EUROSMART S-SIZE



The **GROHE Blue filters** of our supplier BWT are *Cradle to Cradle Certified*® at the Bronze level. GROHE collects the used filters and passes them on to BWT, where 99% of materials are recycled.

EPD AND CRADLE TO CRADLE WHAT IS THE DIFFERENCE?

ENVIRONMENTAL PRODUCT DECLARATIONS

Environmental product declarations, which function like a product passport, aid **objective comparisons of the environmental impact** of specific products. As assessed by the European Union, this facilitates the improvement of buildings' sustainability and the reduction of their CO₂ footprints.

CRADLE TO CRADLE

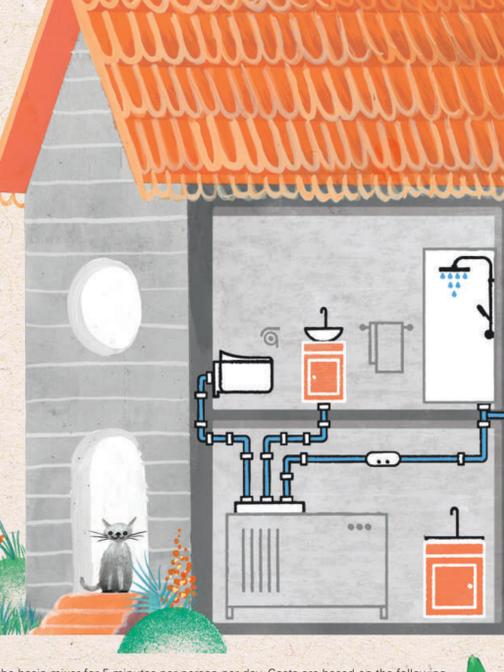
The *Cradle to Cradle Certified*® product standard is the world's leading, rigorous norm for designing and manufacturing safe, circular and responsible materials and products. To achieve a certification, a product is evaluated in terms of the following five categories: material health, material reutilization, renewable energy, water stewardship, and social fairness. To obtain the certificate, limit values must be met and measurable targets must be achieved.

Each product is then designated a level of achievement: basic, bronze, silver, gold, or platinum.

3 GROHE'S SUSTAINABLE TECHNOLOGIES MANY EASY WAYS TO SAVE RESOURCES

There is potential for saving in every building – whether it's water, energy or even toilet paper. GROHE has identified this potential early on, which is why many bathroom or kitchen are equipped with GROHE's future-proof technologies to make saving valuable resources easier than ever. And the best thing: Users can enjoy a carefree water experience without compromising on performance.

The integrated flow restrictor in **GROHE's EcoJoy technology**, which is available for numerous shower and faucet models in almost all styles and price ranges, automatically reduces water consumption by up to 50%. The **GROHE EcoButton** in showers nudges users towards mindful water usage. If they want full flow, they need to press a button. **GROHE Touchless Faucets** stop the water flow when the hands are retracted from the faucet and therefore reduce the water flow by up to 70% while improving hygiene. The **GROHE Blue** system saves around 800 single-use plastic bottles each year* while providing sparkling, medium and still water that is filtered and chilled directly from the kitchen tap. **GROHE SilkMove ES technology** prevents unnecessary production of hot water by supplying cold water with the faucet lever in the middle position of the fitting: This can save an apartment building with 1,000 units** over 270,000 € per year.



* Based on a family of four
** Calculation based on the following parameters: Household of 4 people using the basin mixer for 5 minutes per person per day. Costs are based on the following estimate: Energy cost (electricity) 0,29 €/kWh, water cost 0,0035 €/litre. Assumption of flow rates: Old product flow rate: 8 l/min. New product flow rate: 5 l/min.
* New basin mixer equipped with GROHE SilkMove ES energy-saving functionality and water-saving EcoJoy technology. GROHE does not guarantee the accuracy and correctness of the results, as the calculation depends on many unforeseeable factors and is therefore non-binding. In particular, it depends on water and energy prices, consumer behavior and the technical installations on site.

Please find the EPDs for GROHE and for French FDDES [here](#).

Find more information on GROHE's sustainability engagement at www.grohe-x.com/sustainability