



Transparency and Carbon Neutral Initiatives
2019



Buildings use 13.6% of all potable water, which is roughly 15 trillion gallons of water per year.

Sloan's high-efficiency toilet flushometers can help cut down a building's water use by 30% or more.

We've been committed to the environment from the start

Water is essential to life. With that ideology in mind, Sloan has meticulously developed a wide array of water-efficient products. By reducing our water footprint and sustainably sourcing materials, we strive to make sure our products are safe for the environment and the countless people who use them.

At Sloan, our commitment to sustainability is embodied in three key areas: environmental impact, people's safety and wellness and product verification.

Water savings highlights

Water saving since 1906

Our first Royal® Flushometer was invented as a water savings device.

Reclaimed water

Reclaimed water flushometers use no potable water and help reduce your building's carbon footprint.

20% baseline reductions

Many of Sloan's products not only help you meet LEED's 20% baseline reductions, but can also help you achieve extra points as outlined in LEED WE credit 2.

Passionately preserving the environment

The actions we take today to protect the environment can have a monumental impact tomorrow, and at Sloan, we're doing all we can to build a brighter future for everyone.



We're transparent about how our products are made through their entire life cycle

What are Environmental Product Declarations?

An EPD is an objective, transparent report that communicates how much a product's composition impacts the environment across its entire life cycle.

EPDs provide information on a product's carbon footprint, acidification, depletion of fossil fuel, smog generation and recycled content.

Why are EPDs important?

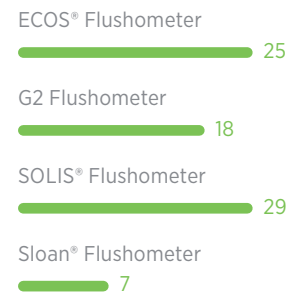
An EPD is like a nutrition label for a building product. Instead of identifying impacts like calories and daily recommended allowances, an EPD identifies life cycle impacts like global warming, ozone depletion, water and air pollution and greenhouse gas emissions. EPDs are meticulous, third-party examinations that offer holistic evidence of a product's drive towards sustainability.

How can Sloan products help your project?

To achieve a LEED v4 Materials and Resources credit - EPD for BD+C, a project team must specify 20 different products that have an EPD, each of which are sourced from at least five different manufacturers. For EPD for ID+C, a project team must specify 10 different products sourced from at least three different manufacturers.

Sloan's EPDs are produced in accordance with international standards and verified by an independent third party to ensure the data we communicate is credible, resulting in full LEED Material and Resource credits for your project.

Sensor flushometers with EPDs



For a full list of Sloan EPD products
[See page 14](#)



ECOS Sensor Flushometer

Water efficiency, hygiene and reliability combined to deliver long life and dependable performance. Reduces water volume by up to 30%. Available in dual-flush or single-flush high-efficiency options.

We offset our carbon footprint

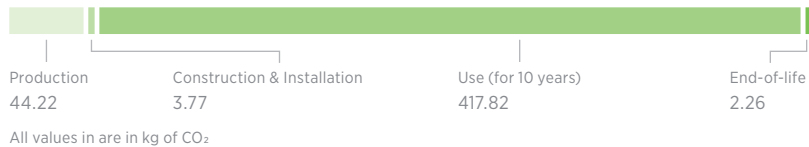
What is a carbon footprint?

Every manufactured product has a carbon footprint—a quantity of carbon generated and released into the atmosphere during its life cycle, the process of sourcing, manufacturing, transporting and using it. This footprint can be expressed in two ways:

1. **Cradle-to-gate:** This includes every step, from raw material sourcing to manufacturing to installation.
2. **Cradle-to-grave:** The entire life cycle of the product, including maintenance, water use and ultimate disposal.

Carbon footprint of a Sloan sensor flushometer

468.07 kg of CO₂ are created in the life cycle of a 1.28 gpf sensor flushometer



Sloan combo packages that are Carbon Neutral



For a full list of Sloan Carbon Neutral products See page 14



1.1 gpf Combinations

Sloan has created a broad line up of 1.1 gpf flushometer and fixture combinations to meet the challenges of low-pressure water systems where evacuation performance and drain line carry can be an issue.

High-efficiency water saving

High-efficiency toilet (HET) systems with 1.1 gpf save 31% more water than a 1.6 gpf toilet.

Why are carbon neutral products important?

Concentrations of carbon dioxide and other greenhouse gases in the atmosphere have increased since the beginning of the Industrial Revolution¹ and have caused the Earth's surface temperature to rise.²

At Sloan, we're actively offsetting the embodied carbon in our products and implementing carbon reduction strategies across our enterprise to reduce our carbon footprint.

How do we calculate our carbon footprint?

We utilized data from our EPDs to identify exactly how much carbon is generated when producing our products. Then, leveraging this data, we proudly partnered with Arbor Day to purchase an equal number of reforestation credits in order to offset the carbon we've generated.



2.5 trees for every 1 flushometer

For every Sloan flushometer produced, Sloan plants 2.5 trees to offset production.



How does Sloan offset our embedded carbon footprint?

There are several methods to offset your carbon footprint, but for Sloan, credits through reforestation efforts were the natural decision. All of our current and future forestry carbon credits are listed with the American Carbon Registry, which oversees the registration and verification of our carbon offsets.

Our carbon offsetting process meets the strict guidelines of the British Standards Institute (BSI) PAS 2060 standard. This standard sets the requirements for achieving and demonstrating carbon neutrality.

Sloan recognizes that our responsibility to take care of our planet goes beyond water conservation. Our carbon offset process counteracts carbon damage to the environment, helping us and you reduce our carbon footprint.

“Sloan is working hard to reduce our greenhouse gas emissions, and we’re the only manufacturer in the industry offering carbon neutral products as well.”

Patrick Boyle
Director of Corporate
Sustainability

Royal® Reclaimed Flushometer

Incorporating reclaimed water use in dense, urban areas is a key strategy for expanding potable water savings in the built environment. The Royal Reclaimed Flushometer helps increase water efficiency while minimizing the carbon footprint associated with the energy required to extract, treat and pump potable water from treatment facilities.

1. IPCC (Intergovernmental Panel on Climate Change). 2013. *Climate change 2013: The physical science basis. Working Group I contribution to the IPCC Fifth Assessment Report*. Cambridge, United Kingdom: Cambridge University Press.

2. U.S. Environmental Protection Agency. *Climate Change Science: Causes of Climate Change*. Retrieved January 14, 2019 from <https://archive.epa.gov/epa/climate-change-science/causes-climate-change.html>

Making products with people in mind

We're taking a holistic view of how our products impact both the environment and the wellness of people who make and use them. That's why, unlike our competitors, we disclose the material composition in many of our high-efficiency products.



We're open about what's inside our products

What are Health Product Declarations?

A Health Product Declaration (HPD) provides a transparent account of the materials and substances contained within our products, as well as any potential human health effects they might have.

These findings are then compared to a set of safer chemical data lists like GreenScreen that government agencies have established.

Why are HPDs important?

Architects and designers are now looking beyond water and energy performance and are paying more attention to how a building may impact the health of its occupants.

HPDs encourage the specification of products and materials that have disclosed their inventoried chemical ingredients by way of an accepted methodology. HPDs also promote selected products that have been verified to minimize the use and generation of harmful substances.

How can Sloan products help your project?

To achieve LEED v4 Materials and Resources credit—HPD for BD+C, your project team must permanently install at least 20 different products from five different manufacturers who have an HPD in compliance with the Health Product Declaration Open Standard. For HPD for ID+C, your project team must install at least 10 different products from at least three different manufacturers.

HPDs also qualify for other green building rating systems, including Living Building Challenge (LBC) and WELL.

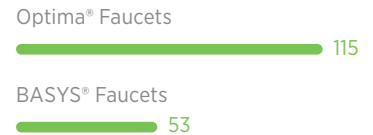
All of Sloan's Health Product Declarations are listed in the Health Product Declaration Collaborative Public Repository and can help you earn additional LEED credits.



Striving for more

Sloan is the only plumbing manufacturer offering HPDs.

Sloan Faucets with HPDs



For a full list of Sloan HPD products
[See page 14](#)



Featured Sloan HPD Faucet: Optima EAF-275

Intelligent electronics and touch-free applications with solar technology. Ideal for applications that require a reliable sensor activated faucet and efficient water savings.

Touch free sustainability

AC powered and other electronic faucets are touch free and use as little as 0.18 gallons per cycle.

Verifying our products are sustainable

Our products are made to last. We take the necessary steps to ensure our products are sustainable throughout their life cycles.



We're dedicated to the long term

What are Declare Labels?

Declare Labels were developed by the International Living Future Institute (IFLI) to help architects and designers find products for Living Building Challenge (LBC) projects.

Declare labels answer three questions: Where does the product come from? What is the product made of? Where does the product go at the end of its life cycle?

Why are Declare Labels important?

Declare Labels identify if the product in question contains any of IFLI's banned chemicals found on their Red List, a database of chemicals and elements known to pose serious risk to human health and the greater ecosystem.

What are Red List Free, LBC Compliant and Declared?

- Red List Free products' ingredients are 100% disclosed to 100 ppm and do not contain any Red List chemicals.
- LBC Compliant products meet the written requirements of the Living Building Challenge, but rely on one or more Exceptions to demonstrate compliance.
- Declared products' ingredients are 100% disclosed to 100 ppm, but contain one or more Red List chemicals that are not covered by an existing Exception.
- All Red List chemicals show up as red text on the label and a small number of other hazard lists show up as orange text.

LEED and WELL Alignment

Declare Labels have been approved as a compliance pathway for the LEED Materials and Resources — HPD credit. The label must indicate that all ingredients have been disclosed down to 100 ppm. In 4.1, this is only true for LBC Compliant labels; Red List Free and Declared labels are automatically okay.

Red List Free or LBC Compliant Declared products have also been approved as a compliance pathway for WELL Feature 26 for Enhanced Material Safety.

10×

Sloan reports all intentionally added ingredients plus residuals at 1000 ppm. This is above the required disclosure of 100 ppm.

Sloan Urinal fixtures that have a Declare Label and are Red List Free

Waterfree Urinals

6 Declare

6 Red List Free

Hybrid Urinals

3 Declare

3 Red List Free

For a full list of Sloan Declare Label and Red List Free products
[See page 14](#)



HEU and Hybrid Urinals

Hybrid and high-efficiency urinals help save thousands of gallons of fresh water every year with efficient removal of liquid waste and no odor or clogs.

Going Platinum

Waterfree urinals and solar powered faucets helped USGBC's Headquarters attain 40% water reductions and achieve LEED® 2009 Platinum certification.

How to get credit for your sustainable project

We've worked diligently to ensure the sustainability of our products, and we want to make sure your project reaps those benefits.



Leadership in Energy and Environmental Design (LEED)

LEED is an internationally recognized green building certification system, developed by the U.S. Green Building Council (USGBC), providing third-party verification that a building was designed and built using strategies aimed at improving performance.

Sloan Product Points

- Water Efficiency
- Materials & Resources – EPD and HPD
- Multi-Attribute Optimization point



Living Building Challenge (LBC)

Developed by the International Living Future Institute (ILFI), the LBC is comprised of seven performance categories called Petals: Place, Water, Energy, Health & Happiness, Materials, Equity and Beauty. Petals are subdivided into 20 Imperatives, which address specific issues through detailed requirements. An LBC projects must meet a series of ambitious performance requirements over a minimum of 12 months of continuous occupancy to be certified.

Sloan Product Compliance

- Sloan's Declare labeled products meet the Red List Free and LBC Compliant criteria



Green Globes

The Green Globes system was based on the Building Research Establishment's Environmental Assessment Method (BREEAM) by the Canadian Standards Association. It is owned and operated by the Green Building Initiative and used in the United States and Canada.

Sloan Product Points

- Water and Materials & Resources categories



Building Research Establishment's Environmental Assessment Method (BREEAM)

Launched in 1990, by the Building Research Establishment (BRE) it is a sustainability assessment method that is used to masterplan projects, infrastructure and buildings, set standards for the environmental performance of buildings through the design, specification, construction and operation phases and can be applied to new developments or refurbishment schemes.

Sloan Product Points

- Water and Materials categories

A bright future

We've been committed to sustainability since our inception, focusing upon the environmental impact of our products, the safety and wellness of our users and the ongoing elevation of our standards.

We look forward to continuing to shape this industry and to working alongside you to help provide sustainable products designed with our future in mind.

Sustainability Highlights



Our manual flushometers are made from 90%+ recycled material and are 100% recyclable.



We've been a Platinum Level Member of the U.S. Green Building Council since 2003.



Royal® Reclaimed Flushometers help buildings reach higher sustainability goals by saving potable water.



Arbor Day Foundation partnership offsets our carbon usage by planting approximately 2.5 trees per flushometer produced.



Sloan's largest manufacturing operation will be a zero landfill facility by 2022, meaning none of our waste will end up in a landfill.



Sloan's Franklin Park facility has registered for and will certify to the Alliance for Water Stewardship (AWS) Standard. The first comprehensive global standard defining the responsible use of water for individual facilities within a single watershed.

To view our full offerings of sustainable products
[visit \[sloan.com/sustainability\]\(https://www.sloan.com/sustainability\)](https://www.sloan.com/sustainability)

Sloan offers more sustainable products per category than any other plumbing manufacturer.

	EPD Products	M&R EPD Credits LEED 4	M&R EPD Credits LEED 4.1	GreenGlobes M&R Credits	BREEAM Materials Credits	HPD Products	M&R HPD Credits LEED 4
Flushometers							
Royal® Manual	36	1	1.5	1	1	24	1
Sloan® Manual	9	1	1.5	1	1	9	1
Regal® Manual	4	1	1.5	1	1	-	1
GEM-2® Manual	11	1	1.5	1	1	11	1
SOLIS® Sensor	29	1	1.5	1	1	17	1
ECOS® Sensor	25	1	1.5	1	1	16	1
G2 Sensor	18	1	1.5	1	1	11	1
Sloan® Sensor	7	1	1.5	1	1	7	1
Water Closet Fixtures							
Wall Hung	10	1	1.5	1	1	10	1
Floor Mounted	10	1	1.5	1	1	10	1
Urinal Fixtures							
Washdown	13	1	1.5	1	1	13	1
Waterfree	-	-	-	-	-	-	-
Hybrid	-	-	-	-	-	-	-
Lavatory Fixtures							
Wall Mounted	7	1	1.5	1	1	7	1
Drop-in	7	1	1.5	1	1	7	1
Undermount	3	1	1.5	1	1	3	1
Wheelchair	5	1	1.5	1	1	5	1
Combo Packages (Flushometer & Fixture)							
Wall Hung Water Closet	18	1	1.5	1	1	18	1
Floor Mounted Water Closet	42	1	1.5	1	1	42	1
Floor Mounted ADA Water Closet	21	1	1.5	1	1	21	1
Washdown Urinal	42	1	1.5	1	1	54	1
Faucets							
BASYS®	53	1	1.5	1	1	53	1
Optima®	115	1	1.5	1	1	115	1
Shower Heads							
Standard	-	-	-	-	-	-	-
Institutional	-	-	-	-	-	-	-
Hand Dryers							
XLERATOR®	16	1	-	1	1	-	-
XLERATORReco®	20	1	-	1	1	-	-

M&R HPD Credits LEED 4.1	Declare Label Products°	Red List Free Products°	Carbon Neutral Products	Water Efficiency Products	LEED v4 & 4.1 O+M Credits	LEED v4 & 4.1 BD+C Credits	LEED v4 & 4.1 ID+C Credits	M&R Optimization Credits
1	32	13	67	208	3* or 5+*	2* or 6†	4* or 12†	1.5
1	-	-	-	71	3* or 5+*	2* or 6†	4* or 12†	-
1	-	-	-	4	3* or 5+*	2* or 6†	4* or 12†	-
1	-	-	-	13	3* or 5+*	2* or 6†	4* or 12†	-
1	-	-	-	44	3* or 5+*	2* or 6†	4* or 12†	-
1	-	-	-	30	3* or 5+*	2* or 6†	4* or 12†	-
1	-	-	-	28	3* or 5+*	2* or 6†	4* or 12†	-
1	-	-	-	91	3* or 5+*	2* or 6†	4* or 12†	-
1	-	-	1	-	-	-	-	1.5
1	-	-	1	-	-	-	-	1.5
1	-	-	3	-	-	-	-	1.5
-	6	6	-	-	5	6	12	-
-	3	3	-	-	5	6	12	-
1	-	-	2	-	-	-	-	1.5
1	-	-	2	-	-	-	-	1.5
1	-	-	1	-	-	-	-	1.5
1	-	-	2	-	-	-	-	1.5
1	-	-	8	17	3	2	4	1.5
1	-	-	16	49	5	2	4	1.5
1	-	-	8	25	3	2	4	1.5
1	-	-	15	101	5	6	12	1.5
1	-	-	8	-	-	-	-	1.5
1	-	-	22	69	5	2	4	1.5
-	-	-	-	6	4	1	2	-
-	-	-	-	4	4	1	2	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

*Sloan Urinals. † Sloan Water Closets. °Credits are equivalent to HPD Credits but cannot be combined



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