



Green By Design

PermaFLOW™ Drain – Contribution to Sustainability and Green Building

What is Sustainable or Green Building?

There are numerous definitions for both terms, but in short, it is “Common Sense” building. It is building structures that conserve energy, water efficiency, indoor environmental quality (air emissions), protect the environment, conserve natural resources, provide a healthy living environment, improve quality of life, is maintainable for longevity, and is economical. For existing structures green cleaning and green maintenance procedures play an important role.

LEED FOR NEW CONSTRUCTION

WE Credit 1.1 – Water Efficient Landscaping – Recycle Waste Water
WE Credit 1.2: Water Efficient Landscaping: No Potable Water Use
WE Credit 3.1: Water Use Reduction 20% Reduction
WE Credit 3.2: Water Use Reduction: 30% Reduction
EQ Credit 5: Indoor Chemical & Pollutant Source Control
ID Credit 1–1.4: Innovation in Design

LEED FOR EXISTING BUILDINGS

WE Credit 2: Additional indoor plumbing fixture and fitting efficiency
EQ Prerequisite 3 – Green Cleaning
EQ Credit 3.1: Green Cleaning: High performance cleaning program
EQ Credits 3.4 – 3.6: Green Cleaning: Purchase of sustainable cleaning products and materials
EQ Credit 3.7: Green Cleaning: Sustainable cleaning equipment
Innovation Credit 1: Innovation in operations

LEED FOR COMMERCIAL INTERIORS

Indoor Chemical and Pollutant Source Control
Water Efficiency
Innovation

LEED FOR SCHOOLS

WE Credit 2: Innovative Wastewater Technologies
WE Credit 3.1: Water Use Reduction

NAHB

WATER EFFICIENCY

4.1.11 Innovative wastewater technology
4.2 Innovative Options

INDOOR ENVIRONMENTAL QUALITY

5.3 Moisture management (Vapor, rainwater, plumbing, HVAC)
6.1 Provide manual to owners/occupants on the use and care of the home



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PermaFLOW™ addresses several of these primary objectives.

PermaFLOW™ eliminates blockages in the trap restricts sink use. The opportunity for secondary damage including flooding and damage to other apartments/offices is also reduced.	Improves quality of life, Economical ID 1-1.4, NAHB 4.1.11, 4.2, 5.3
The PermaFLOW™ is transparent so one can easily inspect their system	Maintainable for longevity EQ 3
PermaFLOW™'s self cleaning features reduce maintenance	Economical Improves quality of life Green Cleaning - EQ 3
The PermaFLOW™ wiper cleans without disassembly – exposure to sewer gases, biofilm or fungal growth, and inhaled gases from chemical cleaners is eliminated	Indoor environmental quality Provides a healthy living environment EQ 3
Complements other “Green” practices such as installing low flow faucets – should solids settle, the wiper mechanically lifts the solids into the flow stream for dispersal.	Assists water conservation Maintainable for longevity WE 3.1, 3.2
Chemicals are not required reducing the opportunity for poisonings and other personal safety issues due to burns to eyes and skin	Provides a healthy living environment, Economical EQ 3, 5
Chemicals are not required for cleaning, eliminating damage to piping, metal sinks, garbage disposals and eliminates contamination of gray water	Economical, Maintainable for longevity WE 1.1, 1.2, 3.1, 3.2 EQ 3, 5
PermaFLOW™ eliminates the need for chemicals, the purchase of mechanical cleaning devices and reduces service calls	Provides a healthy living environment Economical EQ 3, 5
Emergencies such as excessive debris in the drain, can be by-passed in the PermaFLOW™ providing continued operation	Improves quality of life, Economical
PermaFLOW™ materials have a low environmental impact during manufacture	Protects the environment
The materials can be recycled	Protects the environment, Conserves natural resources
PermaFLOW™'s long life cycle, reduces materials in landfills	Protects the environment
The "Rescue" feature makes it possible to remove lost articles without disassembly which eliminates exposure to sewer gasses and messy cleanups	Improves quality of life, Economical

References: LEED® for New Construction and Major Renovations, LEED® for Existing Buildings, LEED® for Commercial Interiors, LEED® for Schools, NAHB Model GREEN Home Building Guidelines, Home Remodeling Green Building Guidelines, (Build It Green), New Home Construction Green Building Guidelines, (Build It Green), Multifamily Green Building Guidelines, (Build It Green)