

TOTO®

Drake® II

CST454CUFG – 1G®

CST454CEFG – 1.28gpf

Adaptable and tastefully designed, TOTO's Drake II Tornado Flush™ two-piece HET is accessible to everyone from all walks of life. Available in Drake II 1G or Drake II 1.28gpf option, this traditional style of toilet is easy to install and transport, and gives the comfort you have come to expect in TOTO's performance design, saving you water beautifully.



Performance dashboard

Features & functionality

- Tornado Flush™ flushing system
- Powerful siphon jet, quiet flush every time
- Sleek, high profile two-piece design
- CeFIONtect™: Super smooth, ion barrier glazing keeps your toilet bowl cleaner with every flush
- Universal Height
- 12" Rough-in

Visit TOTO for more product specifications:

[CST454CUFG](#), [CST454CUFRG](#), [CST454CUF](#)
[CST454CEFG](#), [CST454CEFRG](#), [CST454CEF](#)

Environment & materials

Improved by:

- Lower water use
- 50% of all electricity from renewable resources
- Kiln exhaust heat reused to power product dryers
- Upcycling of post industrial porcelain waste into ceramic floor tile

Certification & rating systems:

- WaterSense® certified
- Declare™ label: 1G®, 1.28gpf
- CALGreen® compliant
- Contributes to earning credits in LEED®

MasterFormat® #22 41 13.13



TORNADO® FLUSH
The dual-nozzle propulsion system allows more water to be directed at the siphon for a more powerful flush that maximizes cleaning action.

- Uses only 1.28 GPF or less
- State-of-the-art, hole-free rim design for easier cleaning
- Dual-nozzle bowl cleansing

[See LCA, interpretation & rating systems](#)

[See materials, interpretation & rating systems](#)



SM Transparency Report (EPD)™ + Material Health Overview™

EPD LCA

3rd-party reviewed

Transparency Report (EPD)

3rd-party verified

Validity: 08/31/2024 – 08/30/2029
TOTO – 20240831 – 004

MATERIAL HEALTH Material evaluation

Self-declared

This environmental product declaration (EPD) was externally verified by Jack Geibig (Ecoform) on behalf of NSF according to ISO 14044; ISO 21930:2017; SM Part A: LCA calculation rules and report requirements, 2023; the reference PCR; and ISO 14025:2006.

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SUMMARY
Reference PCR
SM Part B: Residential toilets, v3.0

Regions; system boundaries
North America; Cradle-to-grave

Functional unit
One single toilet in an average residential environment without an electronic bidet seat, over the estimated service life of the building

LCIA methodology; LCA software; LCI database
TRACI 2.1; SimaPro Analyst 9.5; ecoinvent and USLCI databases

In accordance with ISO 14044 and the referenced PCR, the life cycle assessment was conducted by Sustainable Minds and critically reviewed by Jack Geibig (Ecoform) on behalf of NSF.

Public LCA
LCA background report of TOTO
Faucets, Flush Valves, and Residential Toilets, 2024

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[Contact us](#)

LCA & material health results & interpretation

Drake® II

- Drake® II 1.28gpf
- Drake® II 1G®
- EPD additional content
- Material health**

Evaluation programs

Declare

Declare labels are issued to products disclosing ingredient inventory, sourcing, and end of life options. Declare labels are based on the Manufacturers Guide to Declare, administered by the International Living Future Institute.

How it works

Material ingredients are inventoried and screened against the [Living Building Challenge](#) (LBC) Red List which represents the 'worst in class' materials, chemicals, and elements known to pose serious risks to human health and the greater ecosystem.

The Declare product database and label are used to select products that meet the Living Building Challenge's stringent materials requirements, streamlining the materials specification and certification process.

Assessment scope and results

Declare™

Inventory threshold: 100 ppm

Declare level:

The Declare product database and label are used to select products that meet the LBC's stringent materials requirements, streamlining the materials specification and certification process.

- LBC Red List Free [?]
- LBC Red List Approved [?]
- Declared [?]

Click the label to see the full declaration.

● **Drake® II 1.28gpf Two-Piece Toilet**

● **Drake® II 1G® Two-Piece Toilet**



What's in this product and why

Declare level

'Declared' is awarded to products when all the ingredients name and CAS numbers have been disclosed. 100% disclosure qualifies the product for the LEED v4 building product disclosure and optimization - material ingredients credit option 1.

What's in the product and why

Manufacturing in the United States means that robust human labor, safety and environmental rules and regulations were followed. In addition, local sourcing of raw materials means that less smog and air pollution are generated as a result of transport. The ceramic body and glaze makes up ~92-93% of the total mass of the toilet. Therefore, manufacturing and transportation of the ceramic create the greatest human health impacts when compared to the overall manufacture of the entire toilet. By specifying a Drake II toilet manufactured in the United States, the consumer helps mitigate these human health impacts.

Red List materials

The toilet trip lever handle is plated with chrome (Hexavalent Chromium VI). Chromium material is used as a decorative finish in applications where corrosion-resistance and durability are required. During the chrome plating process health hazards have been identified and are managed according the OSHA Guidelines. Process controls are used to protect the environment and the production workers wear personal protection equipment. After the plating process the chrome surface is inert and does not pose any health risks. The trip lever in the final form does not represent any hazards to the user.

TOTO continues to investigate alternative finishes in order to reduce and/or eliminate Chromium VI on the toilet trip levers. Standard versions of the Drake II use parts containing PVC (Polyvinyl Chloride), a plastic commonly used within the plumbing industry. The primary health concern is during the production process when the raw material components are in a powder or pelletized form. If inhaled or ingested the results can be toxic and potentially carcinogenic. In the final form, materials are inert and not a hazard to the users of the toilet.

As part of TOTO's efforts to reduce health impacts, PVC-free versions of the Drake II are available. PVC parts have been removed and replaced with materials of compatible functional strength and chemical resistance. These alternative parts are sourced within the continental United States. It should be noted that there are no legislative or regulatory mandates to remove this material from a product, however, as part of our goal to mitigate adverse health impacts, TOTO has decided to move beyond compliance by voluntarily eliminating this compound.

Where it goes at the end of its life

TOTO encourages consumers to recycle their used toilet and toilet parts. Contact your local municipality for recycling programs.

How we're making it healthier

Goals and plans for improvement

- Utilize alternative materials to PVC, removing this compound from tank parts in all TOTO models.
- With no compromise to beauty, functionality or durability, TOTO intends to offer alternative finishes for trip levers that do not require Chromium VI.

[See how we make it greener](#)

References

Declare

- TOTO USA, Declare label for Drake II 1G
- TOTO USA, Declare label for Drake II 1.28gpf

Manufacturer's Guide to Declare

A comprehensive guide providing information about the program, the assessment methodology, how to submit material data to obtain a Declare label and how they are used to meet the Health & Happiness and Materials Petals of the Living Building Challenge.

Rating systems

LEED BD+C: New Construction | v4 - LEED v4

Building product disclosure and optimization

Material Ingredients

Credit value options 1 product each

1. Reporting 2. Optimization 3. Supply Chain Optimization

LEED BD+C: New Construction | v4.1 - LEED v4.1

Materials and resources

Material Ingredients

Credit value options 1 product each

1. Reporting 2. Optimization 3. Supply Chain Optimization

Living Building Challenge

Materials petals imperatives

10. Red List Free 12. Responsible Industry 13. Living Economy Sourcing

WELL Building Standard®

Air and Mind Features

- X07 Materials Transparency

- X08 Materials Optimization

Collaborative for High Performance Schools National Criteria

EQ C7.1 Material Health Disclosures

- Performance Approach 2 points

- Prescriptive Approach 2 points

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