

TOTO®

Ultramax®

MS854114E - Eco Ultramax
MS604124CEFG - Ultramax II
MS604124CUFG - Ultramax II 1G®

Beautifully engineered in a single unit, the Ultramax HET incorporates thoughtful innovation with simple elegant design and TOTO's dedication to respecting water. The Ultramax HET offers sleek lines, is simple to install, and features performance design that focuses on your comfort. Choose the Eco Ultramax which utilizes TOTO's E-max flushing system or the Universal Height Ultramax II with TOTO's Tornado Flush™ system, available in 1.28gpf or 1G options.



Performance dashboard

Features & functionality

- Wide 3" flush valve is 125% larger than conventional 2" flush valves
- Wide 2-1/8" computer designed, fully glazed trapway
- Sleek, high profile one-piece toilet
- Complete with SoftClose® seat, or upgrade to Washlet®
- ADA compliant (Ultramax II and Ultramax II 1G)

Visit TOTO for more product specifications:

- Eco Ultramax – [MS854114E](#)
- Ultramax II – [MS604124CEFG](#)
- Ultramax II 1G – [MS604124CUFG](#)

[See ecomedes for water & energy calculations](#)

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

Certifications, rating systems & disclosures:

- WaterSense® certified
- CALGreen® compliant
- Declare™ label
- Contributes to earning credits in LEED®

MasterFormat® #22 41 13.13

Check spec sheets for these products

[Eco Ultramax, Ultramax II, Ultramax II 1G](#)

For spec help call (888) 295-8134



TOTO PeoplePlanetWater Smart Fact:
The Drake High Efficiency Toilet employs the E-Max flushing system, a simple and quiet solution for effectively flushing, offering an additional water savings of 20%.

[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 – 005

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.

Ecoform, LLC
11903 Black Road
Knoxville, TN 37932
(865) 850-1883
www.ecoform.com

NSF International
P.O. Box 130140, 789 N. Dixboro Road,
Ann Arbor, MI 48105, USA
www.nsf.org
734 769 8010



Certified Environmental Product Declaration
www.nsf.org

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

TOTO USA

1155 Southern Road
Morrow, GA 30260
www.totousa.com

Contact us

disposed (kg)												
Non-hazardous waste disposed (kg)	2.99E+01	1.20E+00	1.43E+00	2.93E+01	1.19E+00	1.51E+02	0.00E+00	0.00E+00	5.40E-01	0.00E+00	3.80E+01	3.26E+01
High-level radioactive waste, conditioned, to final repository (kg)	4.32E-03	6.58E-04	4.05E-05	3.50E-04	0.00E+00	3.10E-01	8.83E-02	1.51E-02	1.62E-06	#NAME?	5.13E-06	5.02E-03
Intermediate- and low-level radioactive waste, conditioned, to final repository (kg)	2.45E-05	2.59E-07	1.34E-07	8.13E-07	0.00E+00	2.66E-03	8.55E-04	5.58E-05	1.55E-08	1.18E-09	2.67E-08	2.49E-05
Components for re-use (kg)	0	0	0	0	0	0	0	0	0	0	0	0
Materials for recycling (kg)	0	0	0	2.93E+01	0.00E+00	7.65E+01	0.00E+00	0.00E+00	7.25E+00	7.25E+00	7.25E+00	0.00E+00
Materials for energy recovery (kg)	0	0	0	0	0	0	0	0	0	0	0	0
Exported energy (MJ, LHV)	0	0	0	0	0	0	0	0	0	0	0	0
Carbon emissions and removals												
Biogenic Carbon Removal from Product (kg CO2)	0	0	0	0	0	0	0	0	0	0	0	0
Biogenic Carbon Emission from Product (kg CO2)	0	0	0	0.00E+00	0.00E+00	0.00E+00	0	0	0	0	0	0
Biogenic Carbon Removal from Packaging (kg CO2)	4.49E+00	0	0	0.00E+00	0	6.74E+00	0	0	0	0	0	4.49E+00
Biogenic Carbon Emission from Packaging (kg CO2)	0	0	4.49E+00	0.00E+00	0	6.74E+00	0	0	0	0	0	4.49E+00
Biogenic Carbon Emission from Combustion of Waste from Renewable Sources Used in Production Processes (kg CO2)	0	0	0	0	0	0	0	0	0	0	0	0
Calcination Carbon Emissions (kg CO2)	0	0	0	0.00E+00	0	0.00E+00	0	0	0	0	0	0
Carbonation Carbon Removals (kg CO2)	0	0	0	0	0	0	0	0	0	0	0	0
Carbon Emissions from Combustion of Waste from Renewable and Non-Renewable Sources used in Production Processes (kg CO2)	0	0	0	0	0	0	0	0	0	0	0	0



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

EPD

3rd-party reviewed

Transparency Report (EPD)

3rd-party verified

Validity: 08/31/2024 – 08/30/2029
TOTO – 20240831 – 005

MATERIAL HEALTH

Material evaluation

Self-declared

LCA

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.

Ecoform, LLC
11903 Black Road
Knoxville, TN 37932
(865) 850-1883
www.ecoform.com

NSF International
P.O Box 130140, 789 N.Dixboro Road,
Ann Arbor, MI 48105, USA
www.nsf.org
734 769 8010



Certified Environmental Product Declaration
www.nsf.org

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

LCA 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

TOTO USA

1155 Southern Road
Morrow, GA 30260
www.totousa.com

Contact us

LCA & material health results & interpretation

Ultramax®

Eco Ultramax® 1.28gpf

Ultramax II 1G®

Ultramax® II 1.28gpf

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.

Eco Ultramax

Ultramax II

Ultramax II 1G



What's in this product and why

Declare level

'Declared' is awarded to products when all the ingredients have been self-disclosed to promote transparency.

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 an Ultramax 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 to 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 Ultramax 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 Ultramax 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 Eco Ultramax MS854114E
- TOTO USA, Declare label for Ultramax II MS604114CEFG
- TOTO USA, Declare label for Ultramax II 1G® MS604114CUFG

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

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

EPD LCA

3rd-party reviewed NSF

Transparency Report (EPD)

3rd-party verified NSF

Validity: 08/31/2024 – 08/30/2029
TOTO – 20240831 – 005

MATERIAL HEALTH 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.

Ecoform, LLC
11903 Black Road
Knoxville, TN 37932
(865) 850-1883
www.ecoform.com

NSF International
P.O Box 130140, 789 N.Dixboro Road,
Ann Arbor, MI 48105, USA
www.nsf.org
734 769 8010



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 of TOTO
Faucets, Flush Valves, and Residential Toilets, 2024

TOTO USA
1155 Southern Road
Morrow, GA 30260
www.totousa.com

Contact us

How we make it greener

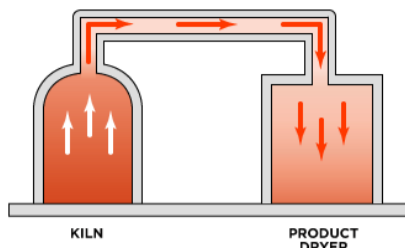
Ultramax®

Expand all

PRODUCTION



↓ **15%**
Less Natural Gas



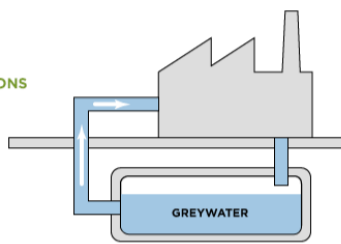
Waste heat from the kilns is routed to the product dryer. This reduces 15% natural gas consumption.



TOTO is taking additional steps at its other facilities, outside of Vietnam, Indonesia, and India, to reduce potential environmental impacts. For example, TOTO's Morrow plant matches 100% of its electricity usage through [Georgia Power Simple Solar](#) and helps grow solar energy. 14 million kilowatt hours of green energy helps reduce 18.5 million pounds of carbon dioxide equivalents each year.

↓ **0.45M** GALLONS
Total Greywater used each month

↓ **1,620** KWH
Reduced energy each month



In another example of TOTO's energy savings outside of Vietnam and Indonesia, 0.45 million gallons per month of greywater is used in [TOTO Morrow's operations](#). 1,620 of kWh in energy per month is reduced due to less potable water.



65% of all cardboard used is 100% recycled content.

CONSTRUCTION



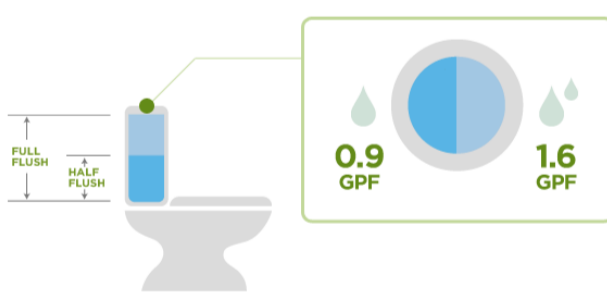
↑ **INCREASES** ↓ **50%**
Fill rate of a trailer = Reduced transportation cost

One-piece toilets are shipped with every other toilet upside down, increasing the fill rate of a truck trailer and cutting transportation cost in half.

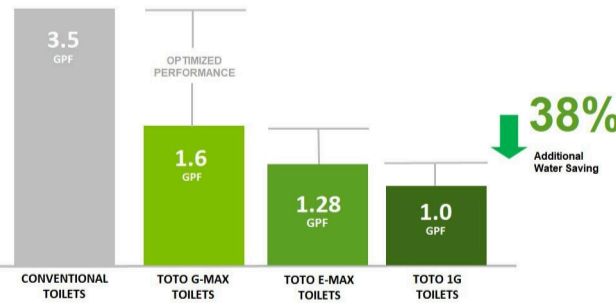


UPS parcel shipments are carbon neutral. TOTO is a registered SmartWay® Transport Partner.

USE



The dual flush system reduces water in the use phase.



Utilizing the same proven engineering as our legendary 1.6 GPF G-Max flushing system, the 1.28 GPF E-Max and 1.0 GPF ultra-low flushing systems, such as Tornado Flush™ and Siphon Jet Flush, reinforce TOTO's performance reputation while offering an additional water savings of 20% and 38% respectively.

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

EPD	LCA
3rd-party reviewed	NSF
Transparency Report (EPD)	
3rd-party verified	NSF
Validity: 08/31/2024 – 08/30/2029 TOTO – 20240831 – 005	
MATERIAL HEALTH	Material evaluation
Self-declared	NSF

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.

Ecoform, LLC
11903 Black Road
Knoxville, TN 37932
(865) 850-1883
www.ecoform.com

NSF International
P.O. Box 130140, 789 N.Dixboro Road,
Ann Arbor, MI 48105, USA
www.nsf.org
734 769 8010



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 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

TOTO USA
1155 Southern Road
Morrow, GA 30260
www.totousa.com

Contact us