

The Healthy Latrine



An estimated 2.4 billion people live without adequate sanitation.

Improvements in sanitation can lead to significant impacts, not only on health, but also on social and economic development. We work with local institutions and households to construct aspirational sanitation solutions using locally available materials.

One of the most economical solutions we provide is The Healthy Latrine. We've worked alongside community members to build over 20,000 Healthy Latrines for families in developing countries. Over 128,000 people have had their dignity and safety restored through improved sanitation from Water Mission solutions.

For more info, contact Sean McSwain, Project Manager – Partnership Support, at 843.769.7395 or smcswain@watermission.org.



The Healthy Latrine

Sustainable Sanitation Solution

- An aspirational sanitation facility appropriate for both rural and suburban settings.
- Superstructure is constructed using locally available materials and protects users privacy.
- Consists of:
 - Vented deep-pit latrine on a concrete slab
 - Fiber-reinforced concrete privacy structure
- Pour-flush toilet ensures separation of waste from user, providing the highest level of safety
- Uses a customized modern toilet bowl allowing for a complete flush with minimal water
- Modern toilet utilizes one liter of water to flush the bowl
- Properly sited and well-lined pits ensure waste is adequately treated before being released to the environment
- Each pit is estimated to last 15 years, after which plumbing can be re-routed to a new pit

Latrine Specifications

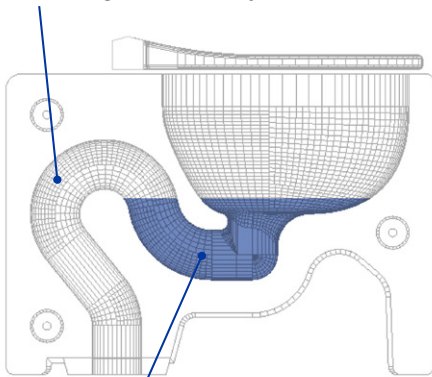
- 8' deep pit, rock lined or with concrete collar
- 4.5'x 4.5'x4" cover slab (with rebar) for pit
- 4.5'x 4.5'x2" slab as latrine floor
- 40" width x 44" depth x 87" height for concrete structure; (semi-circular back wall and 8" x 16" side windows 68" from floor)
- 24" x 72" wooden door
- Includes a pour-flush toilet



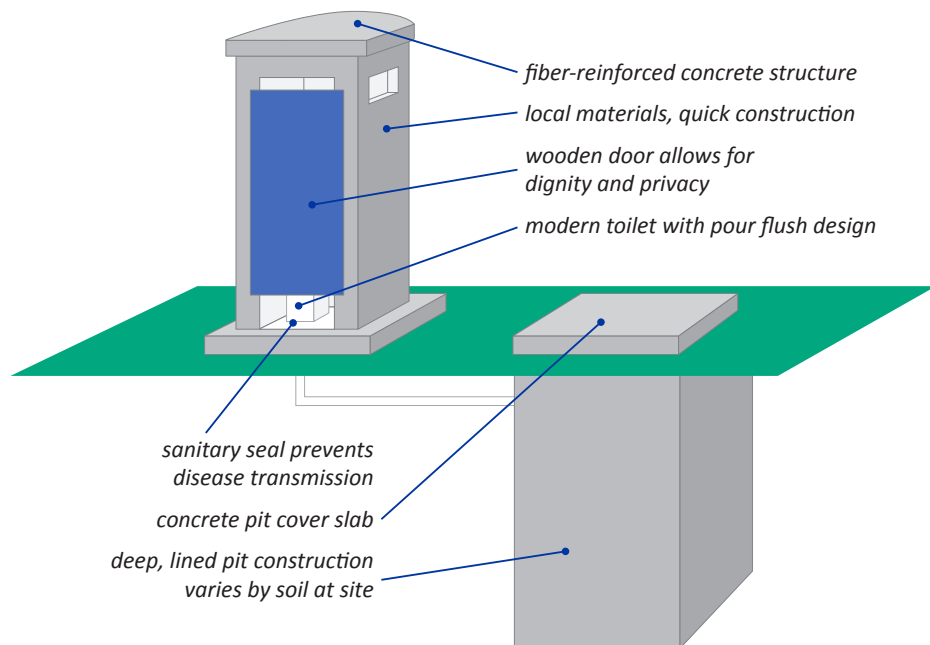
The provided aluminum forms are assembled and used as a mold for the concrete structure. A vegetable oil is applied prior to pouring the concrete, making it easier to release the forms once the concrete has set.



siphon improves flush efficiency, decreasing the amount of water needed



water seal creates a physical barrier that separates waste from the environment, preventing the transmission of disease and eliminating odor



fiber-reinforced concrete structure

local materials, quick construction

wooden door allows for dignity and privacy

modern toilet with pour flush design

sanitary seal prevents disease transmission

concrete pit cover slab

deep, lined pit construction varies by soil at site