

TGL-5-R2-03

Flushing Toilets

The average water consumption in Bangkok metropolitan is about 320-340 liters per capita per day. In addition, for average flushing water in toilet is about 13 liters per flush. If each person flush four times a day, the average usage of flush water could be 52 liters per capita per day which equal to 30 percent of water consumption as mentioned. Water consumption has been substantially increased according to the rapid growth of population, when limitation of raw water for water supply still remains. Developing of green label criteria for water-economizing flush toilets ensure a mean to provide the reliable information to the consumer for raising awareness on usage of water economizing product in order to reduce water consumption which could be approximately 24 liters per capita per day.

Category Definition

This category includes vitreous china sanitary appliances as defined in the following sub-categories:

- a) water-closet bowls and its components
- b) flushing type squatting water-closet pan and its components

Green Label Requirements

To be authorized to carry the Green Label, a product must meet both the general requirements and the specific requirements listed below:

A. General Requirements

The products must:

1. be certified to the applicable Thai Industrial Standards as follows :
 - TISI 792, *Standard for Vitreous China Sanitary Appliances : Water-Closet Bowls;*
 - TISI 794, *Standard for Vitreous China Sanitary Appliances : Squatting Water-Closet Pans;*
 - TISI 1014, *Standard for Fittings for Water-Closet Flushing Cisterns;*
 - TISI 1093, *Standard for Flush Valves for Water-Closets;*

or if not certified, must have passed the standardized National Industrial Standard product quality test or other standardized test of product quality; and

2. be manufactured, transported and disposed in a manner meeting requirements of all applicable governmental acts and regulations.

In the event of any conflict arising, the original criteria in Thai is to be final authority.

B. Product Specific Requirements

1. Single Flush Toilets must use 6.0 liters or less of water per flushing cycle ;
 2. Dual Flush Toilets
 - 2.1 Full flush toilets must use 6.0 liters or less of water per flushing cycle.
 - 2.2 Reduced flush toilets must use 3.0 liters or less of water per flushing cycle.
 - 2.3 The product must have passed the Color Dilution Testing Methodology (Testing Methodology number 6.5)
- N.B. Dual Flush must have been designed for flushing toilets, flushing cisterns and its components.
3. The product must be accompanied by detailed instructions to the consumers outlining proper installation, maintenance and usage to ensure fully protected from leakage and maximum water savings; and
 4. The type and content of the plastic materials used in the product shall be marked which included water-out set, water-in set and ball valve.