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Accessible design — Shape and colour of a flushing button and a call button, and their arrangement with a paper dispenser installed on the wall in public restroom

Conception accessible — Forme et couleur d'un bouton de rinçage et d'un bouton d'appel et leur combinaison avec un distributeur de papier installé sur le mur de toilettes publiques

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Foreword

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 173, *Assistive products for persons with disability*, Subcommittee SC 7, *Accessible design*.

Introduction

Regarding public restrooms, products for the facility have been improved and new functions have been added in toilet compartments which make public restrooms more accessible to users. On the other hand, types of operating buttons have been diversified and they are placed in random locations. Also, operating methods have been diversified and the difficulty of discrimination and the use of the buttons have been raised as an issue. As users use toilet compartments alone in most cases unless s/he needs an attendant, it is impossible to ask someone the whereabouts of a flushing button and a call button or ask for help. Especially, persons with visual disabilities have difficulty to find a flushing button and a call button when the arrangement of these buttons differs with places. This problem is not limited only to persons with disabilities, but also to older persons. This International Standard aims to solve problems which older persons and persons with disabilities encounter when they use public restrooms.

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Accessible design — Shape and colour of a flushing button and a call button, and their arrangement with a paper dispenser installed on the wall in public restroom

1 Scope

This International Standard specifies shapes and colours of a flushing button and a call button of lavatory which are installed on the wall and their arrangement with a paper dispenser. This International Standard is only applicable in case of installing a flushing button and/or a call button on the wall of seat-type lavatory in public restrooms (general toilet compartments and toilet compartments with various functions) used by an unspecified large number of people, except restrooms with a big paper holder where it is difficult to place a flushing button and a call button above the holder, and Type A toilet with lateral transfer from both sides of ISO 21542.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 21542:2011, *Building construction — Accessibility and usability of the built environment*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
public restroom
restroom used by an unspecified large number of people, installed in highly public buildings and facilities such as railroad stations, airports, parks, assembly halls, hospitals, department stores, hotels, and offices

3.2
general toilet compartment
compartment set up with seat-type lavatory without special consideration for wheelchair users

3.3
toilet compartment with various functions
large compartment set up with seat-type lavatory with consideration for wheelchair users and babies and/or small children

3.4
flushing button
push-button switch of toilet flushing equipment

3.5
call button
push-button switch for assistance alarm

3.6
paper dispenser
equipment to house toilet paper

4   Figuration of a flushing button and a call button

The figuration of a flushing button shall be a round or oval shape. The figuration of a call button shall be easily distinguishable from the flushing button (for example, quadrangle, rectangle, or triangle) by touch. The sizes of a flushing button and a call button shall be easy to push by a finger, as well as a palm or top of a hand.

The height of a button should be stuck out from the surrounding surface so that persons with visual disabilities can recognize the button by the touch.

5   Colour and contrast of a flushing button and a call button

The colours of a flushing button and a call button and its contrast with the surrounding colours are defined as follows.

NOTE   The surrounding mentioned in this International Standard is the area adjacent to a flushing button and a call button.

5.1   Colours of buttons

The colours of a flushing button and a call button shall be different enough to be distinguishable from each other.

NOTE   A call button is usually coloured in red because it is used for the purpose of assistance alarm.
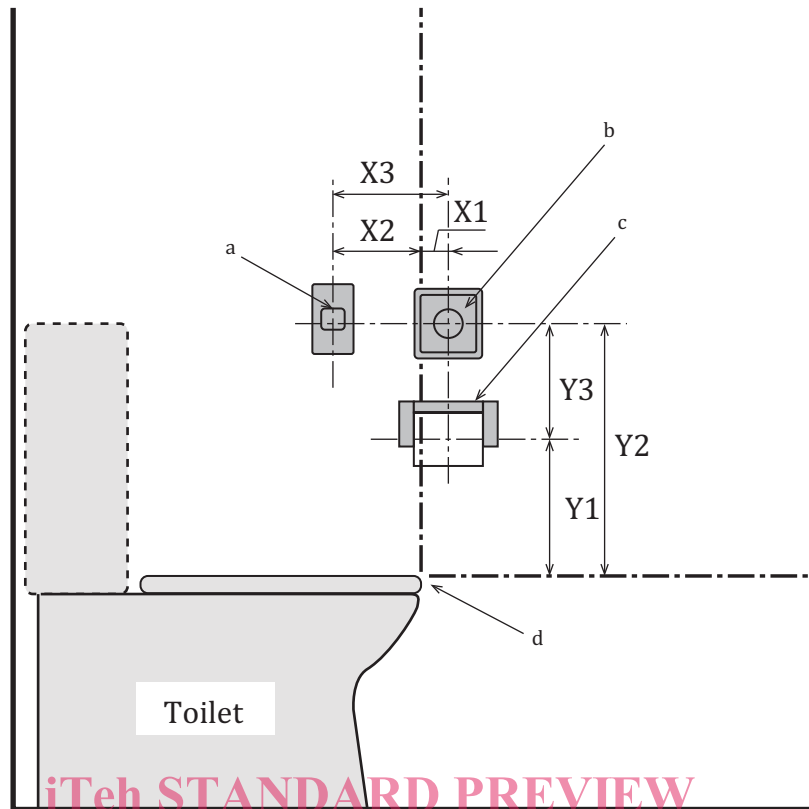
5.2   Contrast between the colours of a flushing button and a call button and the surrounding colours

The contrast between the colours of a flushing button and a call button and the surrounding colours shall be retained. (See visual contrast in ISO 21542:2011, B.7).

6   Arrangement of a flushing button, a call button, and a paper dispenser

Arrangement of a flushing button, a call button, and a paper dispenser is defined as follows:

a)   a flushing button, a call button, and a paper dispenser shall be arranged in a way that most users can operate and users with visual disabilities can recognize easily. Various postures such as sitting and standing shall be taken into consideration;

b)   a flushing button, a call button, and a paper dispenser shall be arranged in a group on either side of the wall;

c)   a flushing button shall be installed on the upper side of a paper dispenser. A call button shall be placed at the same height as a flushing button and placed toward the rear of a toilet seat;

d)   a flushing button, a call button, and a paper dispenser should be established in the position that satisfies the conditions given in Figure 1 and Table 1;

e)   if other pieces of equipment such as a handrail, a remote controller for washing equipment with warm water, and/or a wash basin are installed on the same surface of the wall with a flushing button, a call button, and a paper dispenser, those pieces of equipment shall be arranged in a way that they do not interfere the use and operation of a flushing button, a call button, and a paper dispenser;

f)   even if the dimensions do not conform to Figure 1 and Table 1 due to the figuration of a paper dispenser or the surface condition of the side wall of the compartment, the positional relationship described in c) shall be maintained;

g)   another call button or a pull cord should be placed at the minimum height of 100 mm and towards the front side of the flushing button in places where users can operate it easily even in a fallen posture.

Key

ᵃ   Call button.

ᵇ   Flushing button.

ᶜ   Paper dispenser.

ᵈ   Tip of the upper surface of a toilet seat.

Figure 1 — Arrangement of a flushing button, a call button, and a paper dispenser

Table 1 — Arrangement and sizes of a flushing button, a call button, and a paper dispenser

Dimensions in millimetres

Equipment	Horizontal distance from the tip of the upper surface of a toilet seat (base point)	Perpendicular distance from the tip of the puper surface of a toilet seat (base point)	Distance between the two
Paper dispenser	X1: Toward the head of a toilet seat: Approx 0 to 100	Y1: Toward the head of a toilet seat Approx 150 to 400	—
Flushing button		Y2: Toward the head of a toilet seat: Approx 400 to 550	Y3: Approx 100 to 200 (Perpendicular distance from a paper rolling equipment)
Call button	X2: Toward the rear of a toilet seat: Approx 100 to 200		X3: Approx 200 to 300 Horizontal distance from a flushing button