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**Guidelines for older persons and persons
with disabilities — Shapes, dimensions
and patterns of raised parts of tactile
walking surface indicators for persons
who are blind or with seeing impairment**

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In the event of any doubts arising as to the contents,
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Contents

	Page
Introduction	1
1 Scope	1
2 Terms and definitions	1
3 Requirements	2
3.1 General principles	2
3.2 Shape, arrangement and dimensions	2
Annex JA (informative) Comparison table between JIS and corresponding International Standard	8

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by The Accessible Design Foundation of Japan (ADFJ)/ Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS T 9251:2001** is replaced with this Standard.

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Guidelines for older persons and persons with disabilities — Shapes, dimensions and patterns of raised parts of tactile walking surface indicators for persons who are blind or with seeing impairment

Introduction

This Japanese Industrial Standard has been prepared based on the first edition of **ISO 23599** published in 2012. Out of **ISO 23599**, this Standard aims for specifications of the shapes, dimensions and patterns of raised parts of tactile walking surface indicators for blind or vision-impaired persons, with some modifications of the technical contents and some additions of specifications not given in the corresponding International Standard based on the updated technologies, in order to correspond to the actual situation in Japan.

The portions with continuous sidelines or dotted underlines are the matters in which the contents of the corresponding International Standard have been modified. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard specifies the shapes, dimensions and patterns of raised parts of tactile walking surface indicators for blind or vision-impaired persons.

NOTE : The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 23599 : 2012 *Assistive products for blind and vision-impaired persons — Tactile walking surface indicators* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

2 Terms and definitions

For the purpose of this Standard, the following terms and definitions apply.

2.1 tactile walking surface indicator

attention pattern (e.g. risk of anterior hazards, notification for necessary change of direction) or guiding pattern of raised parts for blind or vision-impaired persons, to be detected through the soles of their shoes and by a long white cane

Tactile walking surface indicator can be constructed by using an integrated unit where raised parts on a plate are incorporated as a single unit (square grid), or by manufacturing discrete units and embedding them into the base plate according to the specific arrangement.

2.2 truncated domes or cones

raised parts used to call attention to hazards

2.3 flat-topped elongated bars

raised parts used to guide the direction of travel or indicating the inside of a platform

2.4 truncated, flat-topped

domes, cones or elongated bars with flat tops (the surface to be touched through the soles of their shoes or the like) (see Figure 1)

2.5 tactile walking surface indicator with domes or cones

indicator constructed of truncated domes or cones, calling attention to hazards

2.6 tactile walking surface indicator with bars

indicator constructed of flat-topped elongated bars, guiding the direction of travel

The longitudinal direction of flat-topped elongated bar indicates the direction of travel.

2.7 platform edge warning indicator with inside line [hereafter referred to as platform edge warning indicator¹⁾]

indicator made by arranging tactile walking surface indicator with domes or cones and flat-topped elongated bar, aimed at warning the edge of railway platform and indicate the inside of a railway platform (see Figure 4).

Note ¹⁾ It may be called “indicator with inside line”, more simply.

3 Requirements

3.1 General principles

The following items should be considered in designing and manufacturing tactile walking surface indicators.

- a) Truncated domes or cones and flat-topped elongated bars on indicators should have bevelled or rounded edges to decrease the likelihood of tripping and to enhance safety and negotiability for people with or without impaired mobility (see part A of Figure 1).
- b) Indicators should be manufactured by such materials and methods that slip-resistance, durability and detectability can be sufficiently maintained, with consideration for the environments where the indicators are to be used.
- c) Truncated domes or cones and flat-topped elongated bars on indicators should be manufactured by such materials and methods that they can be easily detected through the soles of their shoes and by a long white cane.

3.2 Shape, arrangement and dimensions

Tactile walking surface indicators shall be at least 300.0 mm square, including a joint.