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## Shipbuilding — Inland navigation vessels — Draught scales

*Construction navale — Bateaux de navigation intérieure — Échelles de tirant d'eau*

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Reference number  
ISO 7606 : 1988 (E)

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7606 was prepared by Technical Committee ISO/TC 8, *Shipbuilding and marine structures*.

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# Shipbuilding — Inland navigation vessels — Draught scales

## 1 Scope

This International Standard specifies types, dimensions, locations, indication method and colour requirements for the draught scales used on inland navigation vessels.

## 2 Types

Depending on their components, the following types of draught scales are set:

- type 1, determining the draught by signs and digits (see figure 1);
- type 2, determining the draught by digits (see figure 2).

Whether of type 1 or 2, draught scales shall conform to the international regulations valid for given navigation areas.

## 3 Dimensions

### 3.1 Measurement base and scale division

The lower edge of the keel or of the hull shall be taken as the measurement base.

Draught scales shall be marked both by decimetres and every two centimetres. Each odd (or each even) decimetre shall be numbered.

### 3.2 Dimensions of signs and digits

Basic dimensions of signs and digits shall be in compliance with those indicated in figures 1 and 2. The true dimensions of signs

and digits shall be determined based on plans or else signs and digits shall be placed directly on the shell-plate in compliance with their projection from a template.

NOTE — The dimensions of signs and digits and their spacing indicated in figures 1 and 2 are the dimensions of their projection on the centreline plane.

### 3.3 Location

Draught scales are situated on the vessel's hull depending on the vessel length, its draught and the navigation area.

Vertically, the draught scales shall be located 100 mm to 300 mm above the plane of maximum draught and 0 to 300 mm below the plane of light draught, taking account of the allowable trim; draught scales, where not contiguous at the stern, shall have sufficient overlap.

Horizontally, the draught scales shall be located on the stern and sternpost: where no sternpost is fitted such draught scales shall be located at or near the stern.

### 3.4 Dimensional accuracy

The dimensional accuracy of signs and digits from the lower edge of the keel up to their lower edge shall be:

± 2 mm for vessels of length between perpendiculars less than 50 m;

± 3 mm for vessels of length between perpendiculars equal to or more than 50 m.

### 3.5 Dimensional tolerance

The tolerance on the height of signs and digits shall be not more than ± 1 mm.

#### 4 Indication method

The indication methods of signs and digits shall be as given in table 1. Examples of some of the methods are given in figure 3.

**Table 1 — Indication methods of signs and digits**

Code	Indication method
01	Signs and digits are cut from sheet steel and then fixed to the shell-plating by electric welding.
02	Signs and digits are cut out in a steel plate which is then welded to the shell-plating.
03	Signs and digits are formed by built-up electric welding on the shell-plating.
04	Signs and digits are marked by beads welded along their inner and outer contours.
05	Signs and digits on vessels with a steel hull are made by cutting in on the shell-plating, and painted.
06	Signs and digits on vessels with a metal hull are made by centrepunching and painting.
07	Signs and digits on vessels with a wooden hull are made by cutting out and painting, or by raised signs and digits fixed to hull, or by painting only.
08	Signs and digits on vessels with a plastic hull are made of plastic and glued to the shell-plating.
09	Signs and digits are made by printing on an adhesive tape glued to the shell-plating.
<p>NOTE — The methods 05 and 07 are only allowed if the shell-plating at that place is reinforced to at least the same depth of groove which in any case shall not be more than 50 % of the thickness of shell-plating.</p>	

#### 5 Painting

The colour of signs and digits shall be in contrast to the background (e.g. black on a light background, white or yellow on a dark background, red on a white background, etc.).

#### 6 Designation

Draught scales which meet the requirements of this International Standard shall be designated by the following indications, in order:

- a) name: draught scale;
- b) reference to this International Standard: ISO 7606;
- c) type: 1 or 2, according to clause 2;
- d) indication method code, according to table 1.

An example of designation of a draught scale determining the draught by digits (type 2), made by built-up electric welding on the shell plating (code 03):

**Draught scale ISO 7606 - 2 - 03**

Dimensions in millimetres

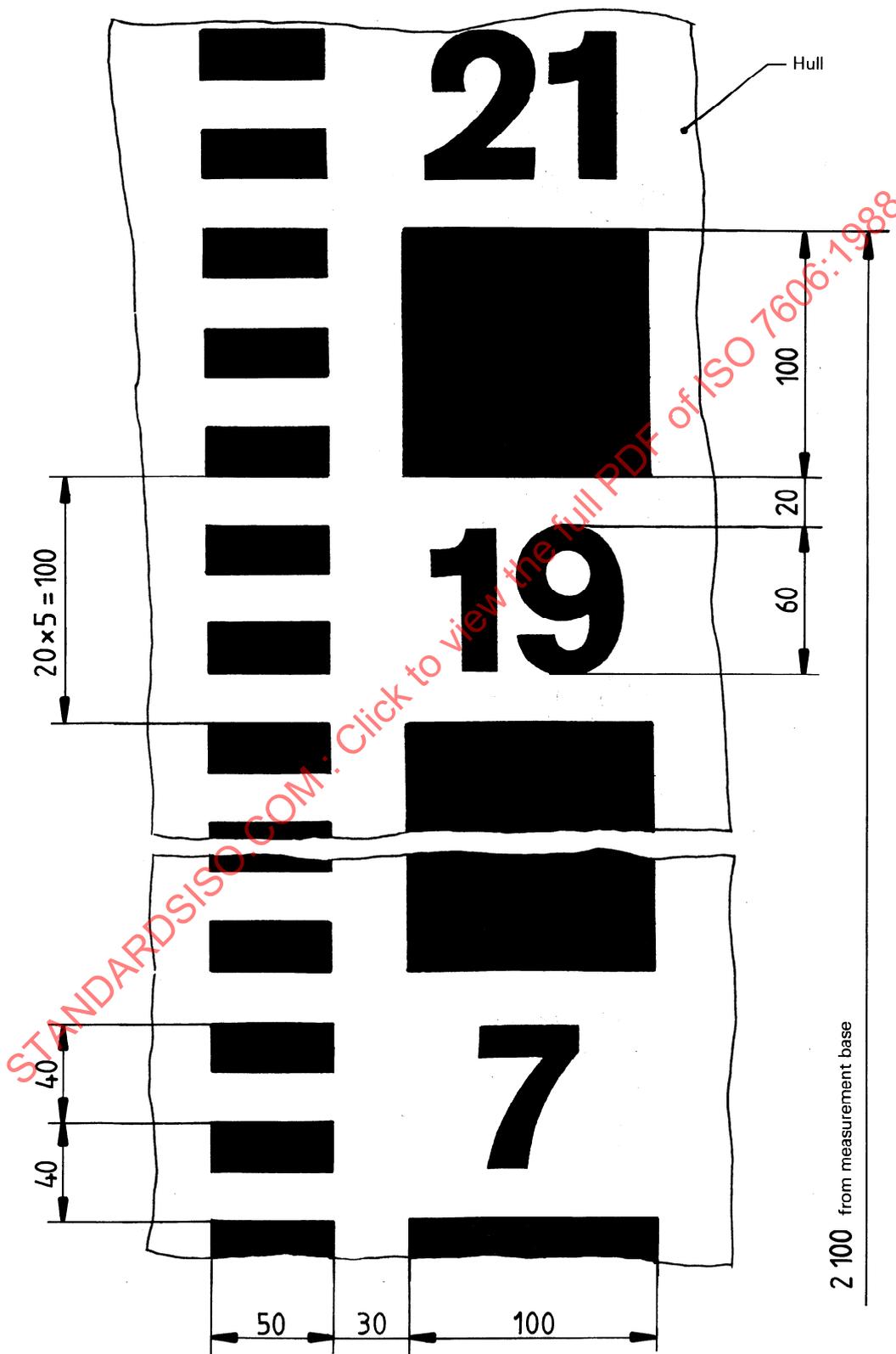


Figure 1 — Type 1 draught scale

Dimensions in millimetres

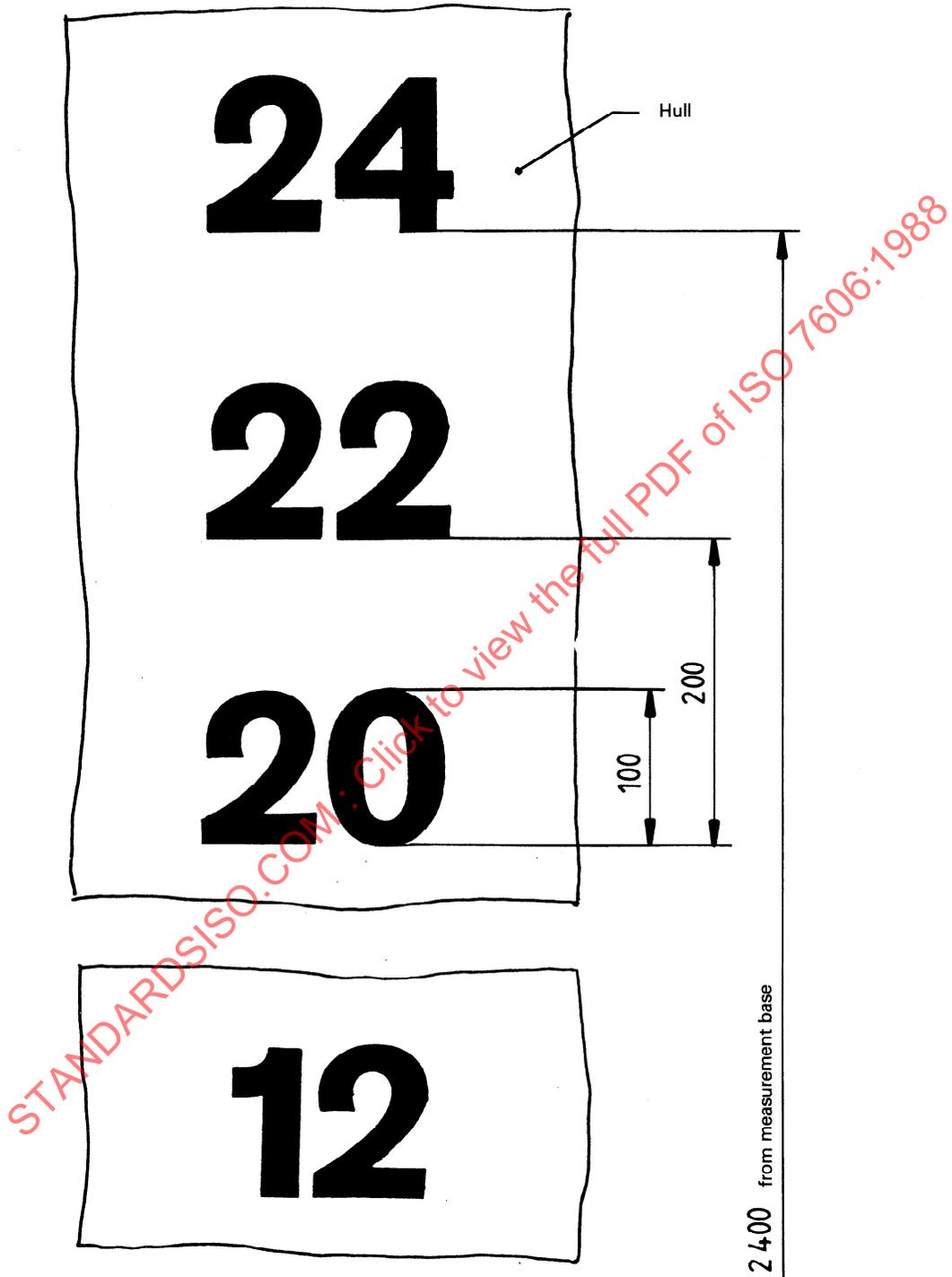


Figure 2 — Type 2 draught scale