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# International Standard



# 4146

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

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## Shipbuilding — Inland vessels — Manholes

*Construction navale — Bateaux de navigation intérieure — Trous d'homme*

First edition — 1980-05-01

*To be withdrawn*

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**Descriptors :** shipbuilding, inland navigation, access openings, classifications, designations, dimensions.

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

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.

International Standard ISO 4146 was developed by Technical Committee ISO/TC 8, *Shipbuilding*, and was circulated to the member bodies in March 1978.

It has been approved by the member bodies of the following countries :

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|----------------|----------------|----------------|
| Austria        | Ireland        | Spain          |
| Belgium        | Italy          | Turkey         |
| Brazil         | Korea, Rep. of | United Kingdom |
| Bulgaria       | Mexico         | USSR           |
| Czechoslovakia | Netherlands    | Yugoslavia     |
| France         | Poland         |                |
| India          | Romania        |                |

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Germany, F.R.  
Japan  
Sweden