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# International Standard



# 7221

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

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## Shipbuilding and marine structures — Shipborne barges, series 1, on barge carriers — Principal technical requirements

*Construction navale et structures maritimes — Barges de la série 1 embarquées à bord des navires porte-barges — Exigences techniques principales*

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (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 7221 was developed by Technical Committee ISO/TC 8, *Shipbuilding and marine structures*, and was circulated to the member bodies in September 1983.

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

Austria	France	Mexico
Belgium	India	Romania
Bulgaria	Italy	Sweden
Czechoslovakia	Japan	United Kingdom
Egypt, Arab Rep. of	Korea, Dem. P. Rep. of	USA
Finland	Korea, Rep. of	USSR

No member body expressed disapproval of the document.

# Shipbuilding and marine structures — Shipborne barges, series 1, on barge carriers — Principal technical requirements

## 1 Scope and field of application

This International Standard specifies the principal technical requirements for shipborne barges, series 1, during their loading, unloading and transport on board barge carries.

## 2 Reference

ISO 4175, *Shipbuilding — Shipborne barges, series 1 — Main dimensions*.

## 3 Conditions of lifting

Shipborne barges, series 1, shall be built so that their strength is sufficient to permit repeated lifting by lifting posts with the barge fully loaded.

## 4 Stacking

Lifting posts of shipborne barges, series 1A, 1B and 1C, shall be equal in strength and withstand the mass loading of four

barges, series 1A, fully loaded while stacked in a barge carrier's hold. In this case, the inertia loadings arising from oscillating and linear translatory motion of the barge carrier and any uneven distribution of load in a barge should be taken into account.

## 5 Securing the barges in the hold and on deck of the barge carrier

To secure the barges in the hold and on deck of the barge carrier they shall be fitted with special accessories and devices (supporting surfaces, lifting post fittings). The arrangement and construction of these accessories and devices shall be in accordance with ISO 4175.

## 6 Deck openings

All deck openings (including hatch openings) where operationally appropriate shall be provided with adequate weather-tight protection devices to prevent the ingress of rain or sea water.