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# International Standard



# 4175

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

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## Shipbuilding — Shipborne barges, series 1 — Main dimensions

*Construction navale — Barges embarcables à bord des navires, série 1 — Principales dimensions*

First edition — 1979-09-15

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UDC 629.122.3 : 629.123.5

Ref. No. ISO 4175-1979 (E)

Descriptors : shipbuilding, barges, dimensions, dimensional tolerances

## Foreword

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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 4175 was developed by Technical Committee ISO/TC 8, *Shipbuilding*, and was circulated to the member bodies in June 1978.

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

Austria	Ireland	Poland
Belgium	Italy	Romania
Brazil	Japan	Spain
Bulgaria	Korea, Dem. P. Rep. of	Sweden
Czechoslovakia	Korea, Rep. of	Turkey
Finland	Mexico	United Kingdom
France	Netherlands	USA
Germany, F.R.	Norway	USSR
India	Philippines	Yugoslavia

No member body expressed disapproval of the document.

# Shipbuilding — Shipborne barges, series 1 — Main dimensions

## 1 Scope and field of application

This International Standard specifies the main dimensions and the dimensions of the principal constructional elements of shipborne barges, series 1.

## 2 Definition

**shipborne barges, series 1** : Barges which are handled aboard a barge carrier by special ship crane, by elevator or by a system based on the floating-dock principle.

## 3 Barge dimensions

The main dimensions of series 1 barges shall be in accordance with table 1.

Table 1

Series	Main dimensions				Maximum draught in fresh water $T_{\max}$	Maximum displacement $D$
	Length $L$	Width $B$	Height			
			Depth at ends $H$	Mid-depth overall $H_1$		
	mm	mm	mm	mm		
IA	18 745	9 500	3 658	4 267	2 730	463
IB	18 745	9 500	2 658	3 267	2 060	345
IC	18 745	9 500	1 958	2 567	1 600	263

#### 4 Dimensions of principal constructional elements

To provide interchangeability when stowing and handling barges aboard a barge carrier by a ship crane, the dimensions of the principal constructional elements are specified in table 2.

Projections extending above the deck between lifting posts shall not exceed 152 mm. Projections above the deck in all other areas shall be limited to 610 mm. Any projections above those specified will interfere with the lifting frame of the shipboard crane.

Table 2

Dimensions in millimetres

Series	Distance between centres of posts			Distance from centre of post		Maximum height of posts G	Protrusion of posts below bottom J
	longitudinally A	transversely C	diagonally D	to side F	to end E		
IA	15 850	8 877	18 166	311	1 448	4 394	127
IB	15 850	8 877	18 166	311	1 448	3 394	127
IC	15 850	8 877	18 166	311	1 448	2 694	127

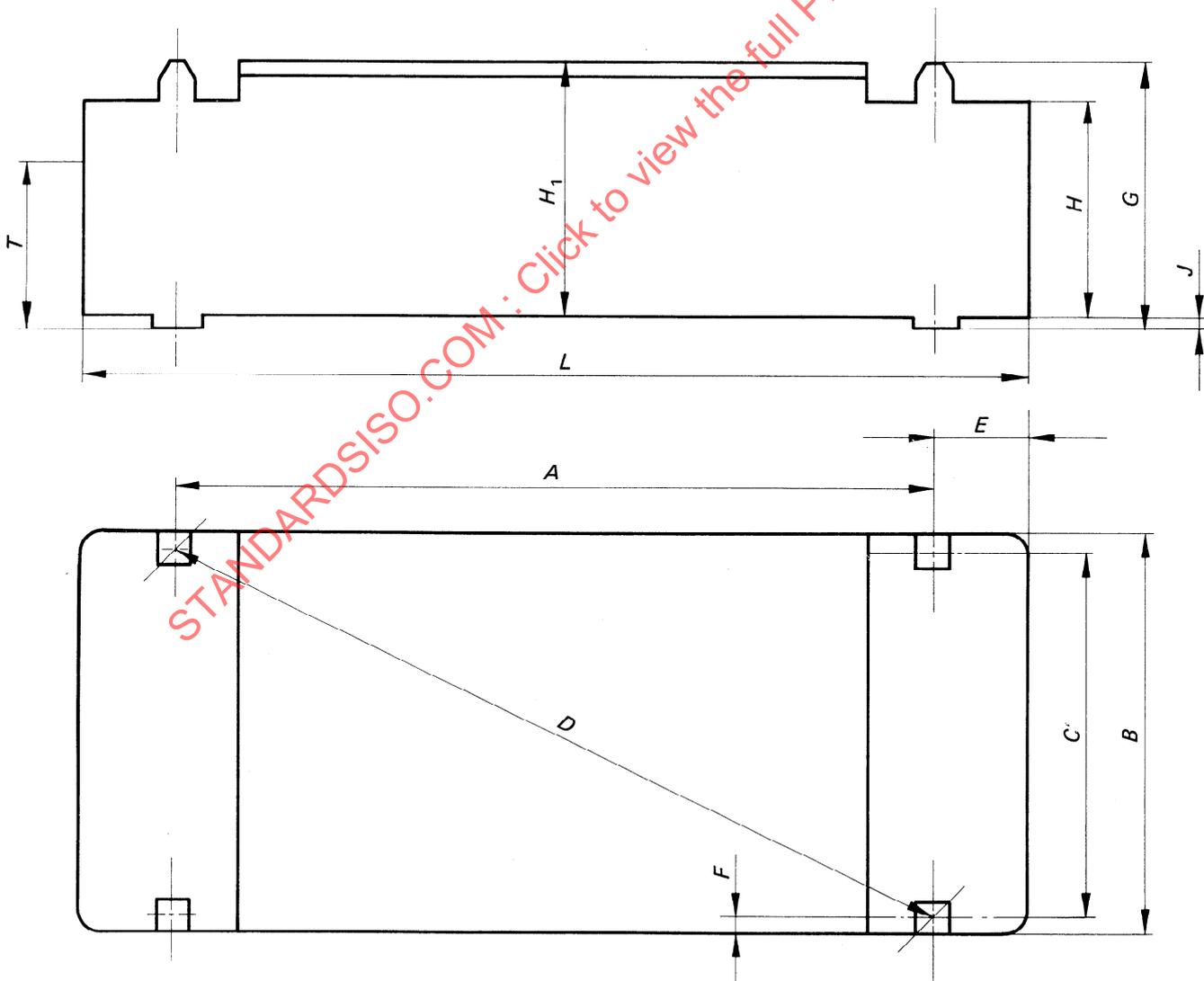


Figure 1 — Main dimensions and dimensions of principal constructional elements

## 5 Wedging surfaces

The barges shall have wedging surfaces in the deck end for fixing them in the hold of the barge carrier.

Each wedging surface shall be capable of withstanding a force of 1,78 MN applied horizontally. This force may be applied on each of the two top surfaces or each of the two bottom surfaces, but not on all four surfaces simultaneously. The location and dimensions of the wedging surfaces shall be in accordance with figure 2.

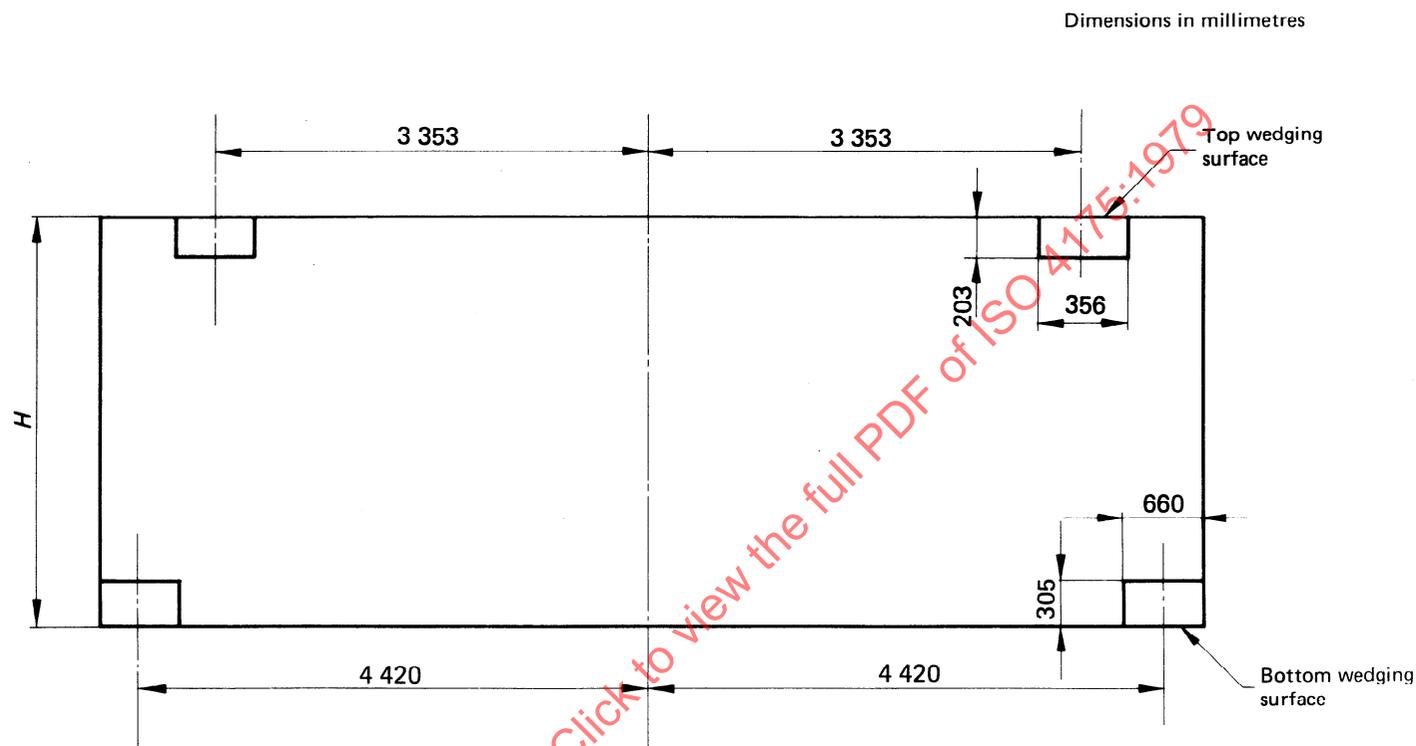


Figure 2 Location and dimensions of wedging surfaces

## 6 Tolerances

Table 3 specifies the tolerances for those dimensions which determine the interchangeability of the barges with respect to their handling by ship crane and stacking in the hold of the barge carrier.

NOTE — Dimensions for which tolerances are not specified in this International Standard may be tolerated in accordance with national shipbuilding standards.

Table 3

Values in millimetres

Series	Tolerance on :					
	<i>L</i>	<i>B</i>	<i>A</i>	<i>C</i>	<i>D</i>	<i>G</i>
IA	± 6	± 6	± 6	± 6	+ 12 - 6	± 6
IB	± 6	± 6	± 6	± 6	+ 12 - 6	± 6
IC	± 6	± 6	± 6	± 6	+ 12 - 6	± 6

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