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

Shipbuilding — Inland vessels — Deck rail

Construction navale — Bateaux de navigation intérieure — Garde-corps

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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 3674 was drawn up by Technical Committee ISO/TC 8, Shipbuilding, and circulated to the Member Bodies in February 1975.

It has been approved by the Member Bodies of the following countries: iteh.ai)

Austria

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The Member Bodies of the following countries expressed disapproval of the document on technical grounds:

> Germany Ireland

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Shipbuilding — Inland vessels — Deck rail

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This International Standard specifies the types, designs and 1976 the deck. basic dimensions of ship deck handrail hereinafter called s/sist/30075ec5-8813-4c49-9c9edeck rail).

1 SCOPE AND FIELD OF APPLICATION 4.3 Tiltable deck rail should be easy to release and tilt on

2 FIELD OF APPLICATION

- 2.1 The deck rails specified are intended for use on vessels of all types for inland waterways.
- 2.2 The International Standard does not apply to special deck rails designed for particular purposes, for example for fastening of wood loaded on the deck of a ship, solid deck rail formed by overlapping plating, etc.

3 CLASSIFICATION

Deck rails are classified in conformity with table 1.

4 GENERAL CHARACTERISTICS

- 4.1 As a rule, solid deck rail is fitted to the deck or the plating of a ship by welding.
- 4.2 Detachable deck rail is fitted to the deck by means of clamps or receptacles so that it may be easily dismantled.

6df8f43cca43/iso-36744147(In passageways, detachable sections shall be fitted with devices which secure against spontaneous release. Chains may also be used instead of detachable sections.

> 4.5 Weldable steel with a minimum tensile strength of 350 N/mm² shall be used for all steel sections of deck rail.

TABLE 1

Tube	solid	
Tube	detachable	
Network	solid	
	detachable	
Chain	detachable	
	tiltable	
Rope	detachable	
	tiltable	

5 TUBE DECK RAIL

5.1 Deck rail of this type shall be made according to figure 1.

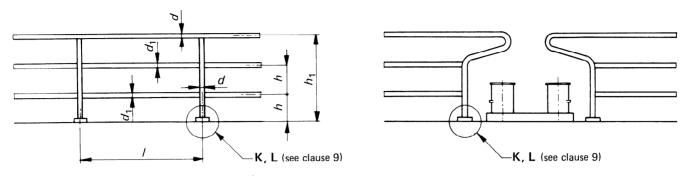


FIGURE 1 - Diagram of tube deck rail

NOTE — For solid deak rail, the method of fitting stanchions according to detail K shall be chosen. For detachable deck rail, the method of fitting stanchions according to detail L shall be chosen.

5.2 Dimensions of the elements of tube deck rail shall correspond to those indicated in table 2.

	TABLE 2									
	iTeh STANDAR Dimensions in millimetres									
	Stee	(otanda	rds	.ite	h.ai)					
	d	d ₁	3674:	976	,					
h	tps://standards.i 33,7 (1")	teh.ai/catalog/sta 2163[31/23]ca	n 333 ls 13/isu- 300	/1i000 3674 - 900	075ec5-8813-4c4 [97(000 to 1 800	9-9c9e-				

6 NETWORK DECK RAIL

6.1 Structurally, network deck rail may be made in two versions according to figure 2.

Dimensions in millimetres

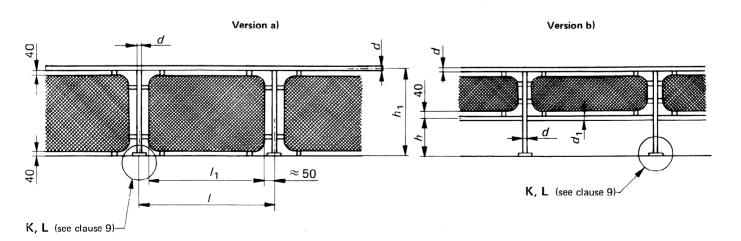


FIGURE 2 — Diagram of network deck rail

NOTE-For solid deck rail, the method of fitting stanchions according to detail K shall be chosen. For detachable deck rail, the method of fitting stanchions according to detail L shall be chosen.

6.2 Dimensions of the elements of network deck rail shall correspond to those indicated in table 3.

TABLE 3

Dimensions in millimetre							
Steel tube		5 6	<i>h</i>	,			
d	<i>d</i> ₁		<i>h</i> ₁	'	/1		
33 7 /1") 21,3 (1/2")	550	1 100	1 100 to 1 400	1 000 to 1 300		
33,7 (1	7 21,3 (1/2)	450	900				

7 CHAIN DECK RAIL

- 7.1 The chain shall withstand an ultimate load of 9 kN minimum. The chain shall end at each stanchion and be suspended by means of spring hooks or plain hooks. The maximum sag of the chain shall not be more than 50 mm. The stanchions shall be capped.
- 7.2 Deck rail of this type shall be made according to figure 3.

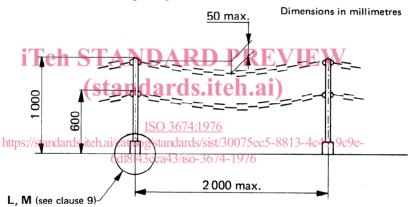


FIGURE 3 — Diagram of chain deck rail

NOTE — For detachable deck rail, the method of fitting stanchions according to detail L shall be chosen. For tiltable deck rail, the method of fitting stanchions according to detail M shall be chosen.

7.3 The fixing of chains on stanchions and handrail shall be carried out according to figure 4.

Dimensions in millimetres

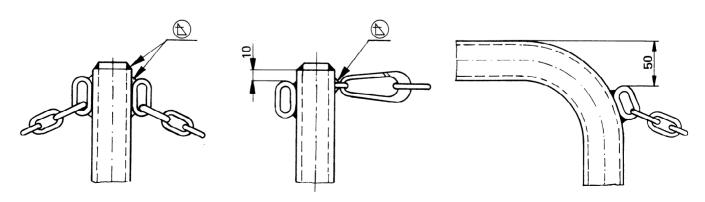


FIGURE 4 — Methods of fixing the chains on stanchions and handrail

8 ROPE DECK RAIL

8.1 The minimum diameter of the steel rope shall be 6 mm.

The rope is tensioned by means of tighteners and is usually anchored to the deck, superstructure walls, etc.

8.2 Deck rail of this type shall be made according to figure 5.

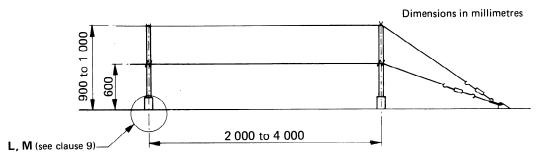


FIGURE 5 - Diagram of rope deck rail

NOTE — For detachable deck rail, the method of fitting stanchions according to detail L shall be chosen.

For tiltable deck rail, the method of fitting stanchions according to detail M shall be chosen.

With rope deck rail 900 mm high, it is possible to use the version with an upper rope only.

8.3 Installation of eyes for rope guiding shall be made according to figure 6

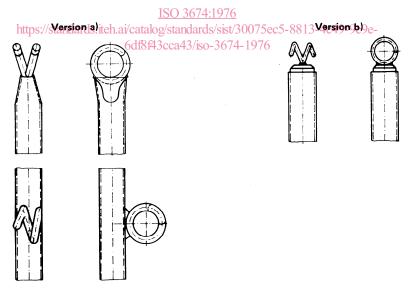
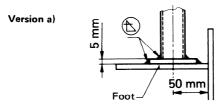


FIGURE 6 - Installation of eyes for rope guiding

9 STANCHION FIXING DETAILS

9.1 Detail K, for solid fixing of stanchions, can be executed in the three versions indicated in figure 7.



NOTE - Deck rail stanchions may be also welded directly to the deck without using feet.

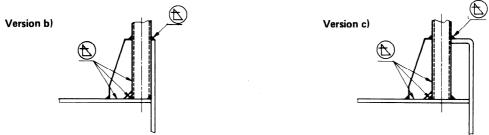


FIGURE 7 - Installation of solid deck rail stanchions

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9.2 Detail L, for fitting detachable deck rails, can be executed in the two versions indicated in figure 8.

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6df8f43cca43/iso-3674-1976 Version b) Version a)

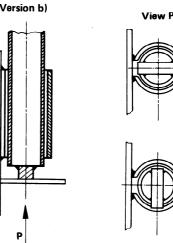


FIGURE 8 - Installation of detachable deck rail stanchions

9.3 Detail M for fitting of tiltable deck rail stanchions, can be executed in the two versions indicated in figure 9.

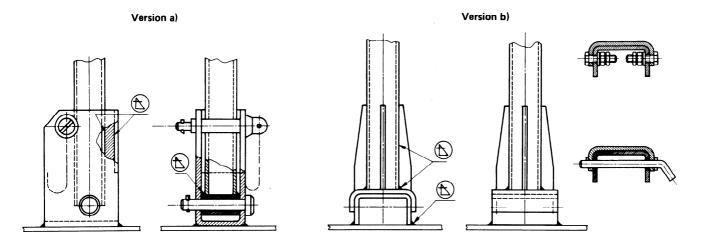


FIGURE 9 - Installation of tiltable deck rail stanchions

9.4 The method of fixing detachable deck rail stanchions in receptacles shall be chosen in accordance with figure 10.

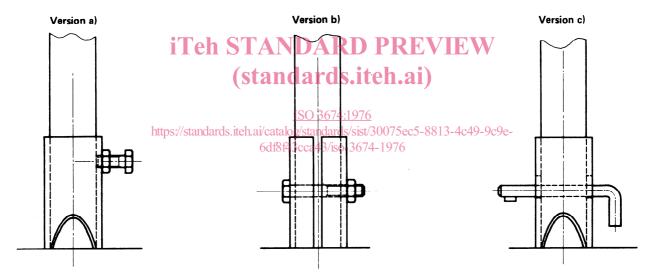


FIGURE 10 - Methods of fixing detachable stanchions in receptacles

Receptacles for stanchions of 33,7 mm (1") tubes shall be made of steel tubes of 42,4 mm (1 1/2") diameter.