INTERNATIONAL STANDARD 1175

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

Shipbuilding — Dimensions and sectional properties of aluminium alloy sections for marine use

Construction navale — Dimensions et caractéristiques des sections des profilés en alliages d'aluminium pour usage maritime

Second edition — 1976-08-15

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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.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; those documents have subsequently been transformed into International Standards. As part of that process, in 1973 Technical Committee ISO/TC 8, *Shipbuilding,* reviewed ISO Recommendation R 1175-1970 and found it suitable for transformation. International Standard ISO 1175-1974 therefore replaced ISO Recommendation R 1175-1970.

ISO Recommendation R 1175-1970 had been approved by the Member Bodies of the following countries :

Australia	Israel	Spain
Belgium	Italy	Sweden
Czechoslovakia	Japan	Thailand
Egypt, Arab Rep. of	Netherlands	Turkey
France	New Zealand	United Kingdom
Germany	Norway	Yugoslavia
Greece	Philippines	
India	Poland	

The Member Body of the following country had expressed disapproval of the Recommendation on technical grounds, and also disapproved its transformation into an International Standard :

U.S.S.R.

ISO 1175-1976, the second edition of this International Standard, contains the new sub-clauses 3.6 and 3.7, which were circulated, in the form of an Addendum, to the Member Bodies in September 1974.

This Addendum has been approved by the Member Bodies of the following countries :

Australia	France	Romania
Austria	Germany	South Africa, Rep. of
Belgium	Mexico	Turkey
Bulgaria	Netherlands	United Kingdom
Czechoslovakia	Norway	U.S.S.R.

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

Italy
Poland

This second edition cancels and replaces ISO 1175-1974.

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Shipbuilding – Dimensions and sectional properties of aluminium alloy sections for marine use

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies dimensions, sectional properties and masses per unit length of aluminium alloy sections, with and without welding flange, for marine use.

2 CLASSIFICATION

The dimensions, sectional properties and masses per unit length of the following types of aluminium alloy section are given in clause 3 :

- tee bars without welding flange;
- tee bars with welding flange;
- bulb plates without welding flange;
- bulb plates with welding flange;
- bulb angle,
- symmetrical bulb plates with trapezoidal head without welding flange,
- asymmetrical bulb plates with trapezoidal head without welding flange.

3 DIMENSIONS, SECTIONAL PROPERTIES AND MASSES PER UNIT LENGTH

The calculated masses in kilograms per metre, shown in the tables, are based on an average density of 2,65 kg/dm^3.

Where $e_{NA} > A$, the neutral axis lies in the plate.

Where $e_{NA} < \frac{A + t}{2}$, the neutral axis is closer to the outer face of the tee bar or bulb plate than to the upper face of the plate.