

# ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

## ISO RECOMMENDATION

### R 1156

SHIPBUILDING DETAILS

WROUGHT ALUMINIUM ALLOYS FOR USE IN SHIPBUILDING

1st EDITION

November 1969

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## BRIEF HISTORY

The ISO Recommendation R 1156, *Shipbuilding details – Wrought aluminium alloys for use in shipbuilding*, was drawn up by Technical Committee ISO/TC 8, *Shipbuilding details*, the Secretariat of which is held by the Nederlands Normalisatie-Instituut (NNI).

Work on this question led to the adoption of a Draft ISO Recommendation.

In December 1968, this Draft ISO Recommendation (No. 1748) was circulated to all the ISO Member Bodies for enquiry. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Australia	India	Sweden
Austria	Israel	Thailand
Belgium	Italy	Turkey
Brazil	Japan	U.A.R.
Czechoslovakia	Netherlands	United Kingdom
France	Peru	U.S.S.R.
Germany	Poland	Yugoslavia
Greece	Spain	

One Member Body opposed the approval of the Draft :

U.S.A.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in November 1969, to accept it as an ISO RECOMMENDATION.

## SHIPBUILDING DETAILS

### WROUGHT ALUMINIUM ALLOYS FOR USE IN SHIPBUILDING

#### 1. SCOPE AND FIELD OF APPLICATION

This ISO Recommendation covers wrought aluminium alloys for structural and non-structural parts of ships, and for rivets used in shipbuilding.

All these alloys have been selected from ISO Recommendation R 209\*, *Composition of wrought products of aluminium and aluminium alloys – Chemical composition (per cent)*.

#### 2. ALUMINIUM ALLOYS

##### 2.1 For structural parts of ships

Al-Mg3  
Al-Mg3Mn  
Al-Mg3.5  
Al-Mg4  
Al-Mg4.5Mn  
Al-Si1Mg

##### 2.2 For non-structural parts of ships

Al 99.0	Al-Mg2.5
Al 99.5	Al-Mg3
Al 99.7	Al-Mg3Mn
Al 99.8	Al-Mg3.5
Al 99.0 Cu	Al-Mg4
Al-Mn1	Al-Mg4.5Mn
Al-Mn1 Cu	Al-Mg5
Al-Mg1	Al-Si1Mg
Al-Mg1.5	Al-MgSi
Al-Mg2	Al-Mg1SiCu

##### 2.3 For rivets used in shipbuilding

Al-Mg4  
Al-Mg5

NOTE. – For the marking of these aluminium alloy rivets, see ISO Recommendation R... \*\*, *Designation of light metal alloy and steel rivets*.

\* 2nd edition – 1968.

\*\* At present at the stage of draft proposal.