

INTERNATIONAL STANDARD

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Inland navigation vessels — Demountable signal masts for push-tows — Mounting attachment

*Bateaux de navigation intérieure — Mâts de signalisation amovibles pour
convois poussés — Ferrures d'attache*



Reference number
ISO 7236:1991(E)

Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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Inland navigation vessels — Demountable signal masts for push-tows — Mounting attachment

1 Scope

This International Standard specifies the main dimensions, design, technical requirements and materials of the lower part of demountable signal masts and mast stands for fixing signal masts, for push-tow inland navigation vessels.

NOTE 1 Demountable signal masts are located while in navigation on some barges of a push-tow in accordance with regulations valid for the corresponding navigation zone. When the signal masts normally fitted to the barges of a push-tow are not required, they are to be stored on the pushing vessel. In the case of demountable signal masts higher than the maximum height of 6,5 m, it is necessary for these masts to be collapsible and an integral part of the push barge.

2 Definitions

For the purposes of this International Standard, the following definitions apply.

2.1 lower part of a signal mast: Part of a mast used for clamping the mast to the mast stand (2.2).

2.2 mast stand: Arrangement rigidly connected to the barge deck allowing quick installation and dismantling of the barge mast.

3 Dimensions and design

3.1 The lower part of signal masts shall have dimensions and design in accordance with figure 1, figure 2 and figure 3. Other dimensions and design of signal masts are not stated in this International Standard and are left to the manufacturer's discretion.

The outside diameter of the lower part of a mast, if made of aluminium alloy tubes, shall be 80 mm and, if made of steel tubes, shall be 82,5 mm, over a length of 1 200 mm, in accordance with figure 1.

3.2 The mast stand design and dimensions shall be identical to those indicated in figure 4, figure 5 and figure 6.

3.3 When designing, the design shown in figure 5 may be improved to ensure sufficiently tight fastening of a mast.

4 Technical requirements

4.1 The lower part of the mast shall be of welded tubular design.

4.2 The lower part of the mast shall be fitted with a bearing pin in accordance with figure 2 or, by special order (if a 90° turn of the mast is needed), it shall be fitted with two crossing bearing pins in accordance with figure 3.

4.3 The mast stands shall be of welded steel design, since they are welded to the structure on the barge deck.

4.4 The screws and nuts used for signal masts and mast stands shall be made of stainless steel or other non-corrosive materials.

4.5 Where signal masts are equipped with electric signal lanterns, the electric installation shall be made in accordance with the rules of the appropriate classification society.

4.6 The surface coating (paint) of signal masts and mast stands shall be applied in accordance with national standards.

4.7 The mass of signal masts (without lanterns) made of aluminium alloy tubes shall be a maximum of 16 kg. The mass of signal masts (without lanterns) made of steel tubes or other material shall be a maximum of 40 kg.

4.8 The axis of the bearing pin (see figure 4) shall be perpendicular to the longitudinal vertical central plane of the vessel.

5 Materials

5.1 The lower part of signal masts shall be made of aluminium alloy or steel.

5.2 The material of other parts of signal masts is not specified by this International Standard: it is left to the manufacturer's discretion.

5.3 The mast stand shall be made of steel.

Dimensions in millimetres

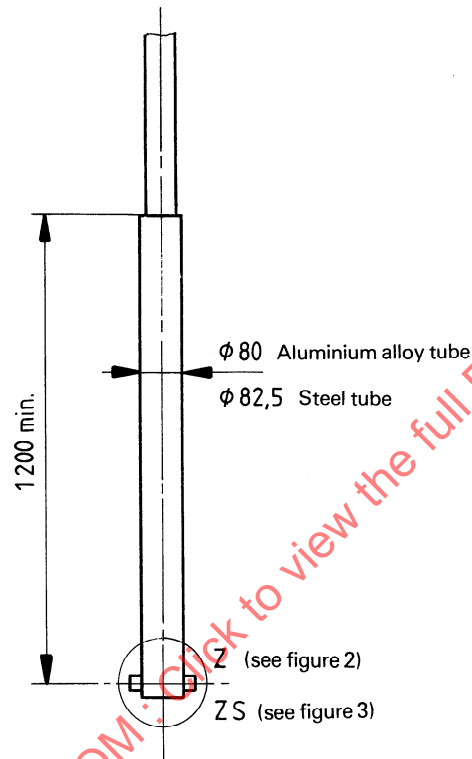


Figure 1 — Lower part of signal mast

Dimensions in millimetres

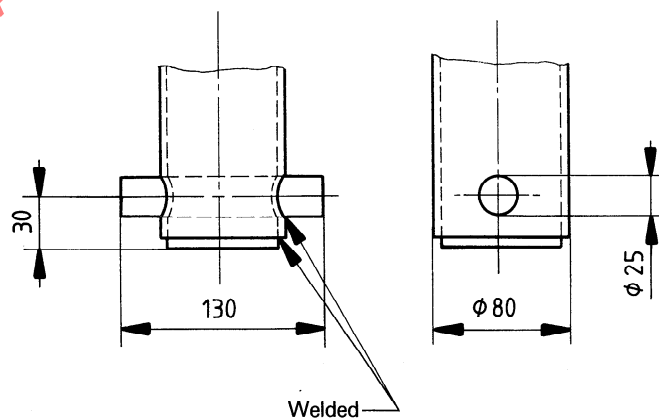


Figure 2 — Extremity of mast lower end (figure 1, detail Z)

Dimensions in millimetres

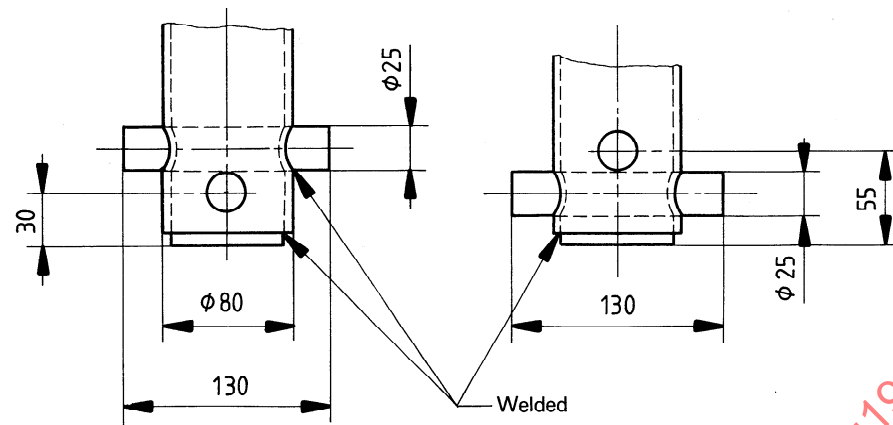


Figure 3 — Extremity of mast lower end in special design (figure 1, detail ZS)

Dimensions in millimetres

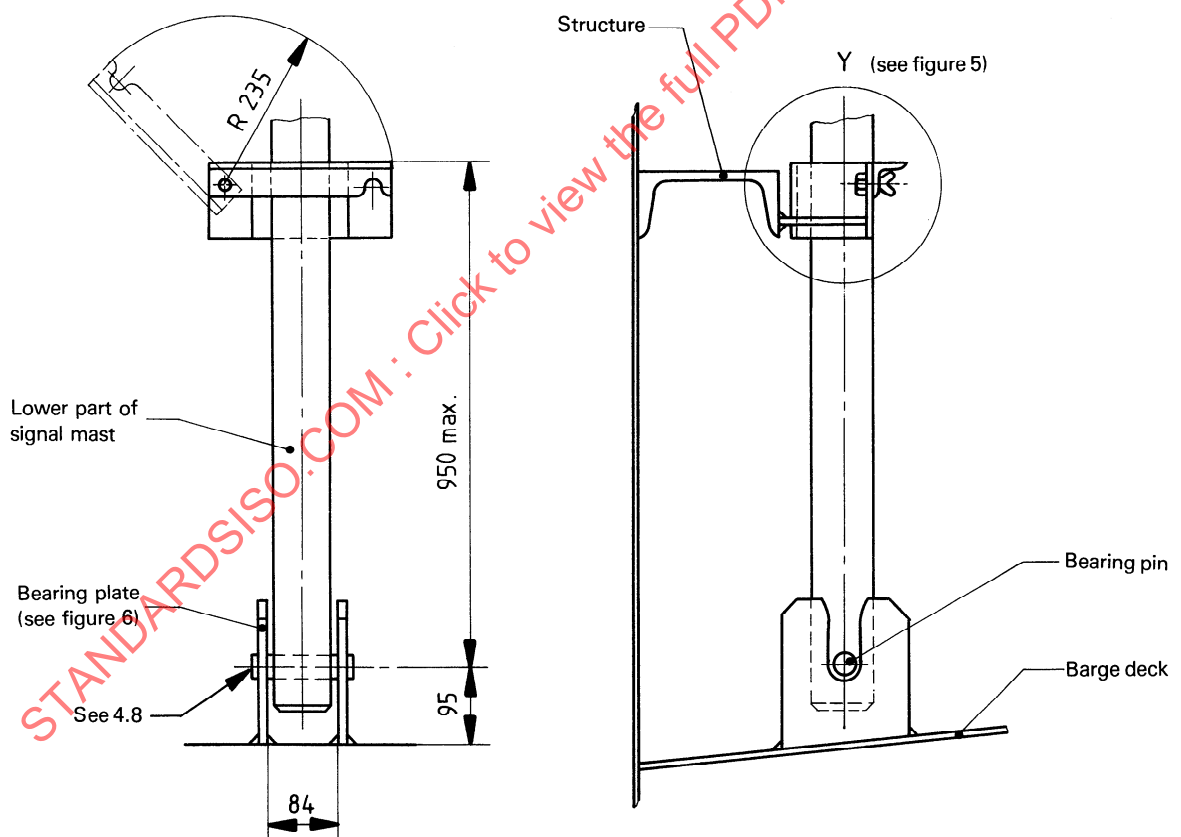


Figure 4 — Mast stand

Dimensions in millimetres

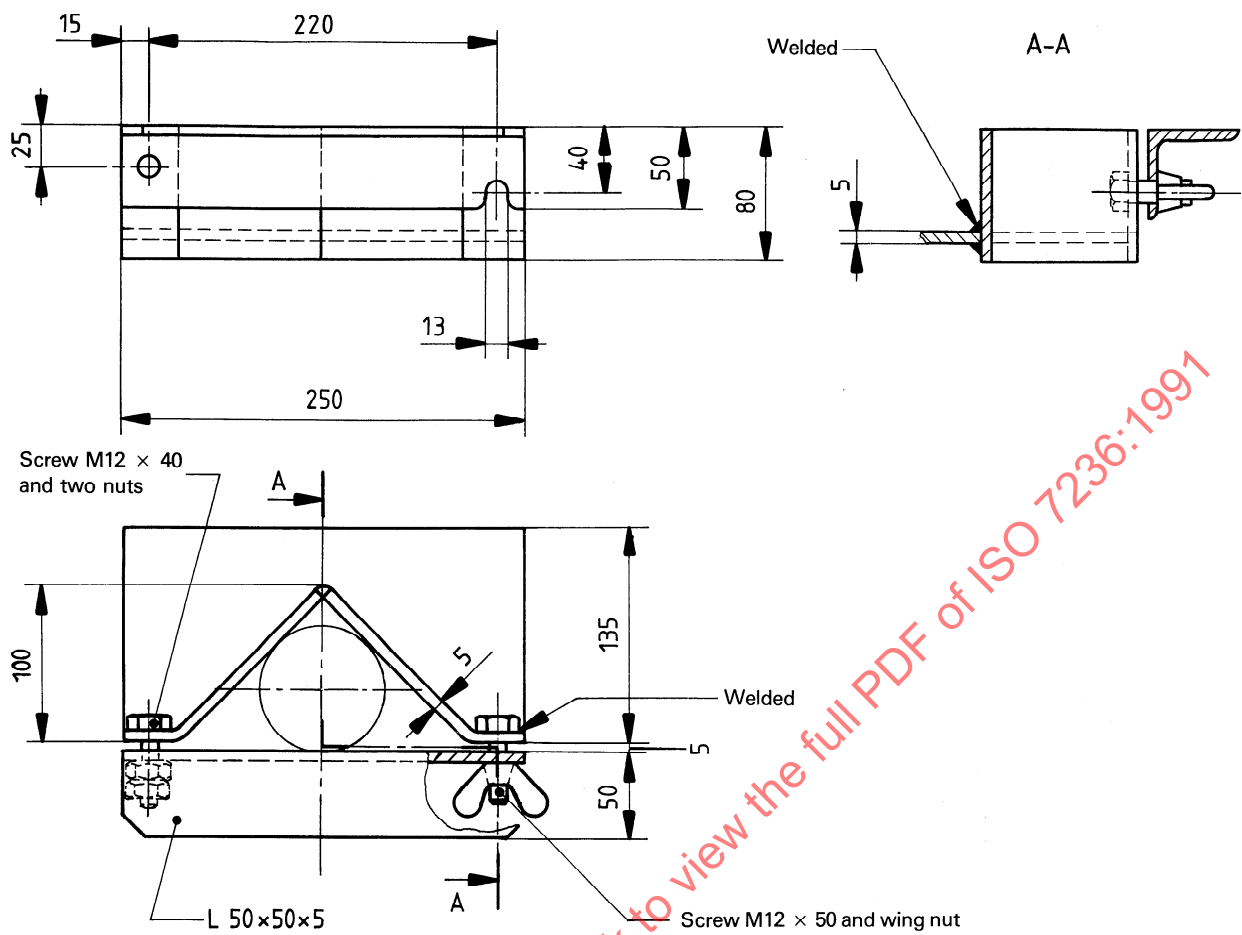


Figure 5 — Detail Y of figure 4

Dimensions in millimetres

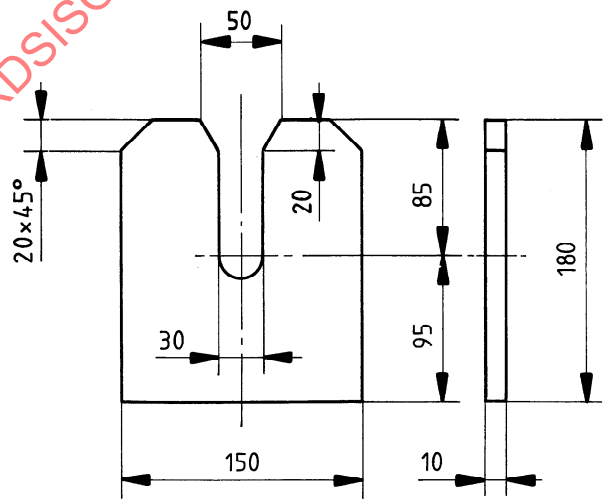


Figure 6 — Bearing plate