

Specification for

Aluminium shore gangways

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Foreword

This British Standard has been prepared under the direction of the Shipbuilding and Marine Standards Committee and is based on a proposal of the British Ship Research Association.

Ships require a means of ship to shore access which can be safely used by all persons. The aluminium shore gangway provides a lightweight convenient structure which can be used in a horizontal or inclined position up to an angle of 30° from the horizontal dependent on tidal or freeboard conditions. Special designs of step allow for a more severe angle to be employed than the 30° specified. The gangways described in this standard are not intended to carry wheeled traffic such as loaded trolleys, etc.

A lightweight gangway for “first person ashore” is described in Appendix A.

NOTE Users of this British Standard should note that while observing the requirements of the standard they should at the same time ensure compliance with any statutory requirements, rules and regulations as may be applicable to the individual ship concerned.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 10 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Amendments issued since publication

Amd. No.	Date of issue	Comments

This British Standard, having been prepared under the direction of the Shipbuilding and Marine Standards Committee, was published under the authority of the Executive Board on 28 April 1978

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The following BSI references relate to the work on this standard:
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1 Scope

This British Standard specifies requirements for three types of aluminium ship to shore gangway which are only for the use of persons to embark or disembark safely.

2 References

This standard makes reference to the following standards publications

BS 729, *Hot dip galvanized coatings on iron and steel articles*.

BS 1161, *Aluminium and aluminium alloy sections*.

BS 1470, *Wrought aluminium and aluminium alloys for general engineering purposes — plate, sheet and strip*.

BS 1473, *Wrought aluminium and aluminium alloys for general engineering purposes — rivet, bolt and screw stock*.

BS 1474, *Wrought aluminium and aluminium alloys for general engineering purposes — bars, extruded round tubes and sections*.

BS 1486, *Lubricating nipples — Part 1: Lubricating nipples and adaptors for use on machinery and vehicles*.

BS 2052, *Ropes made from coir, hemp, manila and sisal*.

BS 2901, *Filler rods and wires for gas-shielded arc welding — Part 4: Aluminium and aluminium alloys and magnesium alloys*.

BS 4360, *Weldable structural steels*.

BS 4928, *Man-made fibre ropes — Part 1: Polypropylene ropes (3-strand hawser laid and 8-strand plaited)*.

BS 4942, *Short link chain for lifting purposes — Part 2: Grade M non-calibrated chain*.

CP 118, *The structural use of aluminium*.

3 Definitions

For the purposes of this British Standard the following definitions apply.

3.1

gangway

a bridge structure to allow safe embarkation and disembarkation from ship to shore or access to another ship

3.2

side stringers

the longitudinal strength members of the gangway to which the cross-members, stanchions, roller or wheels and the lifting lugs etc. are attached

3.3

cross-members

the bars, angles or hollow sections which hold the side stringers in position, and provide support for the decking

3.4

decking

flat topped corrugated section or plate

3.5

footsteps

the bars, rounded hollow sections or hardwood battens fitted proud of the decking or deck plate level to give better foot grip when the gangway is inclined from the horizontal position

3.6

hand and intermediate guides

the tubes, bars, ropes or chains which protect people from falling from the gangway

3.7

nominal size

the length of the gangway between points of support (see Figure 1, Figure 2 and Figure 3)

4 Types of gangway

Three types of gangway are specified in this standard; they are as follows:

- a) type A, rigid-decking two-handrail gangway (see Figure 1);
- b) type B, hinged two-handrail gangway (see Figure 2);
- c) type C, rigid-narrow-decking two-handrail gangway (see Figure 3 and Appendix A).

NOTE The longer type A gangways with hinged or portable handguides may be made up of sections connected by rigid jointing. For gangways assembled in this way, the preferred number of sections is given in Table 3.

5 Materials

The materials shall comply with the requirements of Table 1. Other materials may be used provided they have equivalent strength and are compatible with the structural use of aluminium as specified in CP 118.

6 Dimensions

6.1 Gangways shall be designed to the nominal sizes shown in Table 2 or Table 3 for types A and B and Table 4 and Table 5 for type C.

6.2 The minimum width between side stringers shall be as indicated in Figure 1, Figure 2 and Figure 3.