

Specification for

Weathertight and spraytight doors (steel)

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Foreword

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

The principal performance and construction requirements for steel weathertight doors are given in the International Convention on Load Lines 1966, Regulation 12, which states:

“All access openings in bulkheads at ends of closed superstructures shall be fitted with doors of steel or other equivalent material, permanently and strongly attached to the bulkhead, and framed, stiffened and fitted so that the whole structure is of equivalent strength to the unpierced bulkhead and weathertight when closed. The means of securing these doors weathertight shall consist of gaskets and clamping devices or other equivalent means and shall be permanently attached to the bulkhead or to the doors themselves, and the doors shall be so arranged that they can be operated from both sides of the bulkhead.”

Doors complying with Regulation 12 are required by Regulations 17(1) and 18(2) and (3) of the above Convention to be fitted in openings in exposed machinery casings and in companionways or deckhouses which give access to spaces within an enclosed superstructure deck or freeboard deck. For the purposes of the Regulations two positions for weathertight doors are given and are designated Position 1 and Position 2 (see Clause 2).

The rules of regulatory bodies and classification societies determine the strength of the structure to which weathertight doors are fitted. The International Association of Classification Societies (IACS) has recently reviewed and amended strength requirements for structures and the weathertight doors specified in this standard comply with their latest requirements.

In the case of steel spraytight doors, these are intended for installation in positions where conformity to the Load Line Convention is not mandatory but where some degree of weatherproof integrity is required by the nature of the compartment to be protected.

The plate thicknesses for doors specified in this standard are in accordance with BSI recommendations for metric plate and strip materials which will normally be available from steel mills and stockholders.

This standard makes reference to the following British Standards:

BS 970, *Wrought steels in the form of blooms, billets, bars and forgings — Part 1: Carbon and carbon manganese steels, including free cutting steels.*

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

BS 2871, *Copper and copper alloys, tubes — Part 2: Tubes for general purposes.*

BS 4190, *ISO metric black hexagon bolts, screws and nuts.*

BS 4320, *Metal washers for general engineering purposes.*

BS 4360, *Weldable structural steels — Part 2: Metric units.*

BS 4464, *Spring washers for general engineering and automobile purposes (metric series).*

BS 4480, *Plain bearings. Metric series — Part 1: Bronze oil-retaining bushes.*

BS 4929, *Steel hexagon prevailing-torque type nuts — Part 1: Metric series.*

Reference is also made to the following ISO Recommendation:

ISO/R 1226, *Symbolic designation of direction of closing and faces of doors, windows and shutters.*

NOTE Users of this British Standard, Marine Series, should note that while observing the requirements of the standard they should at the same time, ensure compliance with such 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.

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Summary of pages

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

