
**Ships and marine technology —
Marine environment protection — Oil
booms —**

**Part 1:
Design requirements**

*Navires et technologie maritime — Protection de l'environnement
marin — Barrages de rétention de pétrole —*

Partie 1: Exigences de conception





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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2. www.iso.org/directives

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT), see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 8, *Ships and marine technology*, Subcommittee SC 2, *Marine environment protection*.

ISO 17325 consists of the following parts, under the general title *Ships and marine technology — Marine environment protection — Oil booms*:

— *Part 1: Design requirements*

The following parts are under preparation:

— *Part 2: Strength and performance requirements*

— *Part 3: End connectors*

— *Part 4: Auxiliary equipment*

Introduction

Oil booms can be classified in two major types:

- fence booms typically provide a stiffened barrier designed to float vertically in the water; and
- curtain booms are provided with flexible material for the underwater portion of the membrane (called the skirt).

There are other types of booms, such as special purpose booms and sorbent booms, which are not the subject of this part of the International Standard.

All parts of ISO 17325 will give some general guidelines for manufacturers as well as users with regard to subjects associated with producing, purchasing, and using such types of equipment. It will not define any specific type and size of boom for a particular application, as many variables have to be taken into consideration.

This part of ISO 17325 specifies the basic design requirements, general function, designations and marking of oil booms. It further specifies minimum information regarding design, dimensions and materials of oil booms to be provided by the manufacturer.

This International Standard has been developed after considering the below standards and national legislative requirements.

The American Society for Testing and Materials (ASTM) Committee F-20 has prepared two standards relating to boom connectors. ASTM F1093 specifies static laboratory tests of the strength of an oil spill response boom under tensile loading. ASTM F1523 provides a guide on the selection of a containment boom that may be used to control spills of oil and other substances that float on the water.

The Japanese Industrial Standard JIS F 9900 (Parts 1 and 2) provides the necessary conditions and specifications for the design, manufacture, etc. of oil booms.

