Offshore containers and associated lifting sets - Part 1: Offshore container - Design, manufacture and marking

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EESTI STANDARDI EESSÕNA **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN 12079-1:2006 sisaldab Euroopa standardi EN 12079-1:2006 ingliskeelset teksti. Käesolev dokument on jõustatud 29.05.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 12079-1:2006 consists of the English text of the European standard EN 12079-1:2006. This document is endorsed on 29.05.2006 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

Käsitlusala: This part of EN 12079 specifies requirements for the design, manufacture and marking of offshore freight and service containers with maximum gross mass not exceeding 25000 kg, intended for repeated use to, from and between offshore installations and ships.	**Scope:** This part of EN 12079 specifies requirements for the design, manufacture and marking of offshore freight and service containers with maximum gross mass not exceeding 25000 kg, intended for repeated use to, from and between offshore installations and ships.

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Offshore containers and associated lifting sets - Part 1: Offshore container - Design, manufacture and marking

Conteneurs pour utilisation en mer et dispositifs de levage associés - Partie 1: Conception, construction et marquage

Offshore-Container und zugehörige Anschlaggarnituren - Teil 1: Offshore-Container - Auslegung, Herstellung und Kennzeichnung

This European Standard was approved by CEN on 9 March 2006.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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Foreword

This document (EN 12079-1:2006) has been prepared by Technical Committee CEN/TC 280 “Offshore containers and associated lifting sets”, the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2006, and conflicting national standards shall be withdrawn at the latest by October 2006.

This document, together with EN 12079-3:2006, supersedes EN 12079:1999.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

1 Scope

This part of EN 12079 specifies requirements for the design, manufacture and marking of offshore freight and service containers with maximum gross mass not exceeding 25000 kg, intended for repeated use to, from and between offshore installations and ships.

This part of EN 12079 specifies only transport related requirements.

Other parts of the standard are:

EN 12079-2, Offshore containers and associated lifting sets - Part 2: Lifting sets – Design, manufacture and marking

EN 12079-3, Offshore containers and associated lifting sets - Part 3: Periodic inspection, examination and testing

2 Normative references

The following referenced documents are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 287-1, *Qualification test of welders — Fusion welding — Part 1: Steels*

EN 473, *Non destructive testing - Qualification and certification of NDT personnel - General principles*

EN 571-1, *Non destructive testing - Penetrant testing - Part 1: General principles*

EN 970, *Non-destructive examination of fusion welds — Visual examination*

EN 1289, *Non-destructive examination of welds - Penetrant testing of welds - Acceptance levels*

EN 1290, *Non-destructive examination of welds - Magnetic particle examination of welds*

EN 1291, *Non-destructive examination of welds - Magnetic particle testing of welds - Acceptance levels*

EN 1435, *Non-destructive examination of welds - Radiographic examination of welded joints*

EN 1712, *Non-destructive examination of welds - Ultrasonic examination of welded joints - Acceptance levels*

EN 1714, *Non-destructive examination of welds - Ultrasonic examination of welded joints*

EN 10002-1, *Metallic materials — Tensile testing — Part 1: Method of test at ambient temperature*

EN 10025-1, *Hot rolled products of structural steels - Part 1: General technical delivery conditions*

EN 10025-2*, Hot rolled products of structural steels - Part 2: Technical delivery conditions for non-alloy structural steels*

EN 10025-3, *Hot rolled products of structural steels - Part 3: Technical delivery conditions for normalized/normalized rolled weldable fine grain structural steels*

EN 10025-4, *Hot rolled products of structural steels - Part 4: Technical delivery conditions for thermomechanical rolled weldable fine grain structural steels*

EN 10045-1, *Metallic materials — Charpy impact test — Part 1: Test method*

EN 10164, *Steel products with improved deformation properties perpendicular to the surface of the product - Technical delivery conditions*

EN 10204, *Metallic products — Types of inspection documents*

EN 10210-1, *Hot finished structural hollow sections of non-alloy and fine grain structural steels - Part 1: Technical delivery requirements*

EN 10219-1, *Cold formed welded structural hollow sections of non-alloy and fine grain steels - Part 1: Technical delivery requirements*

EN 10250-2, *Open die steel forgings for general engineering purposes — Part 2: Non-alloy quality and special steels*

EN 10250-3, *Open die steel forgings for general engineering purposes — Part 3: Alloy special steels*

EN 12517-1, *Non-destructive testing of welds - Part 1: Evaluation of welded joints in steel, nickel, titanium and their alloys by radiography - Acceptance levels*

EN 30042, *Arc-welded joints in aluminium and its weldable alloys - Guidance on quality levels for imperfections (ISO 10042:1992)*

EN ISO 5817, *Welding - Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) - Quality levels for imperfections (ISO 5817:2003)*

EN ISO 7500-1, *Metallic materials - Verification of static uniaxial testing machines - Part 1: Tension/compression testing machines - Verification and calibration of the force-measuring system (ISO 7500-1:2004)*

EN ISO 9606-2, *Qualification test of welders - Fusion welding - Part 2: Aluminium and aluminium alloys (ISO 9606-2:2004)*

EN ISO 15607, *Specification and qualification of welding procedures for metallic materials - General rules (ISO 15607:2003)*

EN ISO 15609-1, *Specification and qualification of welding procedures for metallic materials - Welding procedure specification - Part 1: Arc welding (ISO 15609-1:2004)*

EN ISO 15614-1, *Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 1: Arc and gas welding of steels and arc welding of nickel and nickel alloys (ISO 15614-1:2004)*

EN ISO 15614-2, *Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 2: Arc welding of aluminium and its alloys (ISO 15614-2:2005)*

ISO 209-1, *Wrought aluminium and aluminium alloys - Chemical composition and forms of products — Part 1: Chemical composition*

ISO 1161, *Series 1 freight containers — Corner fittings — Specification*

ISO 1496-1, *Series 1 freight containers — Specification and testing — Part 1: General cargo containers for general purposes*

ISO 1496-3, *Series 1 freight containers — Specification and testing — Part 3: Tank containers for liquids, gases and pressurized dry bulk*

ISO 1496-4, *Series 1 freight containers — Specification and testing — Part 4: Non-pressurized containers for dry bulk*

International Maritime Dangerous Goods (IMDG Code)

ATEX Directive 94/9/EC

3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply.

3.1
offshore container
portable unit for repeated use in the transport of goods or equipment handled in open seas to, from and between fixed and/or floating installations and ships.

NOTE The unit incorporates permanently installed equipment for lifting and handling and may include equipment for filling, emptying, cooling, heating, etc.

Offshore containers are subdivided into 3 categories:

3.1.1
offshore freight container
offshore container built for the transport of goods

NOTE Examples of offshore freight containers are:

- general cargo container: A closed container with doors;
- cargo basket: An open top container for general or special cargo;
- tank container: A container for the transport of dangerous or non-dangerous fluids;
- bulk container: A container for the transport of solids in bulk;
- special container: A container for the transport of special cargo e.g. garbage containers, equipment;
- boxes, gas cylinder racks.

3.1.2
offshore service container
offshore container built and equipped for a special service task, usually as a temporary installation e.g. laboratories, workshops, stores, power plants, control stations

3.1.3
offshore waste skip
open or closed offshore container used for the storage and removal of waste

NOTE Normally constructed from flat steel plate forming the load bearing sections of the container, with bracing in the form of steel profiles e.g. channel or hollow section, being fitted horizontally and/or vertically around sides and ends. In addition to the pad eyes for the lifting set, these containers may have side mounted lugs suitable for use with the lifting equipment mounted on a skip lift vehicle.