

**Offshore containers and associated lifting sets - Part 2: Lifting sets - Design, manufacture and marking**

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

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 12079-2:2006 sisaldab Euroopa standardi EN 12079-2:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 29.05.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 12079-2:2006 consists of the English text of the European standard EN 12079-2:2006.</p> <p>This document is endorsed on 29.05.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
--	---

<p><b>Käsitlusala:</b> This part of EN 12079 specifies requirements for lifting sets for use with containers in offshore service.</p>	<p><b>Scope:</b> This part of EN 12079 specifies requirements for lifting sets for use with containers in offshore service.</p>
---	---

**ICS** 55.180.10

**Võtmesõnad:**

ICS 55.180.10

English Version

## Offshore containers and associated lifting sets - Part 2: Lifting sets - Design, manufacture and marking

Conteneurs pour utilisation en mer et dispositifs de levage associés - Partie 2: Dispositifs de levage - Conception, construction et marquage

Offshore-Container und zugehörige Anschlaggarnituren - Teil 2: Anschlaggarnituren - 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.

CEN members are the national standards bodies of 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.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

## Contents

Page

Foreword .....	3
1 Scope .....	4
2 Normative references .....	4
3 Terms and definitions .....	4
4 Symbols .....	5
5 Technical requirements .....	5
5.1 General requirements .....	5
5.2 Dimensions and strength of lifting Sets .....	6
5.3 Chain slings .....	6
5.4 Wire rope slings .....	6
5.5 Shackles .....	7
5.6 Materials .....	7
5.6.1 Impact Testing .....	7
5.6.2 Welding .....	7
5.6.3 Materials used in wire rope slings .....	7
5.6.4 Galvanising .....	7
5.6.5 Material certificates .....	7
6 Certification .....	8
6.1 Preparation of certificates .....	8
6.2 Single component certificates .....	8
6.3 Sling certificates .....	8
7 Marking .....	9
Annex A (normative) Determination of working load limit (WLL min) of the lifting set .....	10
Annex B (informative) Example of identification tag for chain slings .....	12
Bibliography .....	14

## Foreword

This document (EN 12079-2:2006) 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.

EN 12079-1:2006 and EN 12079-3:2006 supersede 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 lifting sets for use with containers in offshore service.

Other parts of the standard are:

EN 12079-1, *Offshore containers and associated lifting sets - Part 1: Offshore container - 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 818-4:1996, *Short link chain for lifting purposes — Safety — Part 4 — Chain slings — Grade 8*

EN 1677-1, *Components for slings — Safety — Part 1: Forged steel components, Grade 8*

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

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

EN 13414-1, *Steel wire rope slings - Safety - Part 1: Slings for general lifting service*

EN 13889, *Forged steel shackles for general lifting purposes - Dee shackles and bow shackles - Grade 6 – Safety*

EN ISO 15613, *Specification and qualification of welding procedures for metallic materials - Qualification based on pre-production welding test (ISO 15613:2004)*

## 3 Terms and definitions

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

### 3.1

#### **lifting set**

items of integrated lifting equipment used to connect the offshore container to the lifting appliance. This can comprise one or multi leg slings (with or without a top leg) and shackles, whether assembly secured or not.