

Australian Standard[®]

**Offshore containers and associated
lifting sets**

**Part 3: Periodic inspection, examination
and testing
(EN 12079-3:2006, MOD)**



This Australian Standard® was prepared by Committee ME-025, Lifting Tackle. It was approved on behalf of the Council of Standards Australia on 23 March 2009. This Standard was published on 19 May 2010.

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PREFACE

This Standard was prepared by the Standards Australia Committee ME-025, Lifting Tackle.

The objective of this Standard is to improve the alignment of Australian and international practice with regard to inspection, examination and testing of offshore containers and associated lifting sets.

The terms ‘normative’ and ‘informative’ are used in this Standard to define the application of the annex or appendix to which they apply. A normative annex or appendix is an integral part of a Standard, whereas an informative annex or appendix is only for information and guidance.

This Standard is an adoption, with national variations, of EN 12079-3:2006, *Offshore containers and associated lifting sets, Part 3: Periodic inspection, examination and testing*. The variations for application in Australia are listed in Appendix ZA.

As this Standard is reproduced from a European Standard, the following applies:

- (a) Its number appears on the cover and title page.
- (b) In the source text ‘EN 12079’ should read ‘AS EN 12079’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

Listed below are Australian and Australian/New Zealand Standards with similar scopes (not identical) to the documents referenced in the European Standard*.

<i>Reference to International or European Standard</i>	<i>Australian or Australian/New Zealand Standard</i>	
EN		
473	Non-destructive testing—Qualification and certification of NDT personnel—General principles	AS 3998
571-1	Non-destructive testing—Penetrant testing, Part 1: General principles	AS 2062
818-4	Short link chain for lifting purposes—Safety, Part 4: Chain slings—Grade 8	AS 3775.1
818-6	Short link chain for lifting purposes—Safety, Part 6: Chain slings—Specification for information for use and maintenance to be provided by the manufacturer	AS 3775.2
970	Non-destructive examination of fusion welds—Visual examination	AS 3978, AS/NZS 1554.1, AS/NZS 1554.4, AS/NZS 1554.5, AS/NZS 1554.6, AS/NZS 1665
1289	Non-destructive examination of welds—Penetrant testing of welds—Acceptance levels	AS/NZS 1554.1, AS/NZS 1554.4, AS/NZS 1554.5, AS/NZS 1554.6

* Appendix ZA lists where Australian and Australia/New Zealand Standards may be used.

<i>Reference to International or European Standard</i>	<i>Australian or Australian/New Zealand Standard</i>
EN	
1290 Non-destructive examination of welds—Magnetic particle examination of welds	AS/NZS 1554.1, AS/NZS 1554.4, AS/NZS 1554.5, AS/NZS 1554.6, AS 1171
1291 Non-destructive testing of welds—Magnetic particle testing of welds—Acceptance levels	AS/NZS 1554.1, AS/NZS 1554.4, AS/NZS 1554.5, AS/NZS 1554.6
1435 Non-destructive examination of welds—Radiographic examination of welded joints	AS/NZS 1554.1, AS/NZS 1554.4, AS/NZS 1554.5, AS/NZS 1554.6, AS 2177
1712 Non-destructive examination of welds—Ultrasonic examination of welded joints—Acceptance levels	AS/NZS 1554.1, AS/NZS 1554.4, AS/NZS 1554.5, AS/NZS 1554.6
1714 Non destructive examination of welds—Ultrasonic examination of welded joints	AS/NZS 1554.1, AS/NZS 1554.4, AS/NZS 1554.5, AS/NZS 1554.6, AS 2062
12079-1 Offshore containers and associated lifting sets, Part 1: Offshore containers—Design, manufacture and marking	AS EN 12079.1
12079-2 Offshore containers and associated lifting sets, Part 2: Lifting sets—Design, manufacture and marking	AS EN 12079.2
12517-1 Non-destructive testing of welds—Part 1: Evaluation of welded joints in steel, nickel, titanium and their alloys by radiography—Acceptance levels	AS/NZS 1554.1, AS/NZS 1554.4, AS/NZS 1554.5, AS/NZS 1554.6
13414-2 Steel wire rope slings—Safety—Part 2: Specification for information for use and maintenance to be provided by the manufacturer	AS/NZS 1666.2
30042 Arc-welded joints in aluminium and its weldable alloys—Guidance on quality levels for imperfections	AS/NZS 1665
ISO	
3834-2 Quality requirements for fusion welding of metallic materials Part 2: Comprehensive quality requirements	AS/NZS ISO 3834.2
5817 Welding—Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded)—Quality levels for imperfections	AS/NZS 1554.1, AS/NZS 1554.4, AS/NZS 1554.5, AS/NZS 1554.6

EN ISO IEC

17020	General criteria for the operation of various types of bodies performing inspection	AS/NZS ISO/IEC 17020
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Titles of Standards listed above are as follows:

AS

1171	Non-destructive testing—Magnetic particle testing of ferromagnetic products, components and structures
1666	Wire-rope slings
1666.2	Part 2: Care and use
2062	Non-destructive testing—Penetrant testing of products and components
2177	Non-destructive testing—Radiography of welded butt joints in metal
3775	Chain slings—Grade T
3775.1	Part 1: Product specification
3775.2	Part 2: Care and use
3978	Non-destructive testing—Visual inspection of metal products and components
3998	Non-destructive testing—Qualification and certification of personnel
4544	Non-destructive testing—Eddy current testing for the detection of surface flaws - Ferromagnetic and non-ferromagnetic metallic products

AS EN

12079	Offshore containers and associated lifting sets
12079.1	Part 1: Offshore containers—Design, manufacture and marking
12079.2	Part 2: Lifting sets—Design, manufacture and marking

AS/NZS

1554	Structural steel welding
1554.1	Part 1: Welding of steel structures
1554.4	Part 4: Welding of high strength quenched and tempered steels
1554.5	Part 5: Welding of steel structures subject to high levels of fatigue loading
1554.6	Part 6: Welding stainless steels for structural purposes
1665	Welding of aluminium structures

AS/NZS/ISO/IEC

17020	General criteria for the operation of various types of bodies performing inspection
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AS/NZS/ISO

3834	Quality requirements for fusion welding of metallic materials
3834.2	Part 2: Comprehensive quality requirements (ISO 3834-2:2005)
9712	Non-destructive testing—Qualification and certification of personnel

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Offshore containers and associated lifting sets

Part 3:

Periodic inspection, examination and testing (EN 12079-3:2006, MOD)

1 Scope

This part of EN 12079 specifies requirements for the periodic inspection, examination and testing of offshore freight and service containers, built in accordance with EN 12079-1, with maximum gross mass not exceeding 25000 kg and their associated lifting sets, intended for repeated use to, from and between offshore installations and ships. Inspection requirements following damage and repair of offshore containers are also included.

Other parts of the standard are:

EN 12079-1, *Offshore containers and associated lifting sets - Part 1: Offshore container – Design, manufacture and marking*

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

Guidance as to the knowledge and experience required by those responsible for carrying out periodic inspection and testing is given in Annex A 'Recommended knowledge and experience of staff responsible for inspection of offshore containers'.

Guidance on pre-trip inspections is given in Annex B 'Recommended knowledge and experience of staff responsible for inspection of lifting sets intended for use with offshore containers'.

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 12079-1:2006, *Offshore containers and associated lifting sets — Part 1: Offshore containers — Design, manufacture and marking*

EN 12079-2:2006, *Offshore containers and associated lifting sets — Part 2: Lifting sets — Design, manufacture and marking*

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

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

EN 818-4:1996, *Short link chain for lifting purposes - Safety - Part 4:Chain slings - Grade 8*

EN 818-6, *Short link chain for lifting purposes - Safety - Part 6:Chain slings - Specification for information for use and maintenance to be provided by the manufacturer*

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 testing of welds - Magnetic particle testing of welds - Acceptance levels*

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