



Institut luxembourgeois de la normalisation  
de l'accréditation, de la sécurité et qualité  
des produits et services

## **ILNAS-EN 13110:2012+A1:2017**

### **LPG equipment and accessories - Transportable refillable welded aluminium cylinders for liquefied petroleum gas (LPG) - Design and**

Equipements pour gaz de pétrole  
liquéfiés et leurs accessoires - Bouteilles  
soudées transportables et rechargeables  
en aluminium pour gaz de pétrole

Flüssiggas-Geräte und Ausrüstungsteile -  
Ortsbewegliche wiederbefüllbare  
geschweißte Flaschen aus Aluminium für  
Flüssiggas (LPG) - Auslegung und Bau

**01/2017**



## National Foreword

This European Standard EN 13110:2012+A1:2017 was adopted as Luxembourgish Standard ILNAS-EN 13110:2012+A1:2017.

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ILNAS-EN 13110:2012+A1:2017

**EUROPEAN STANDARD** **EN 13110:2012+A1**

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**LPG equipment and accessories - Transportable refillable  
welded aluminium cylinders for liquefied petroleum gas  
(LPG) - Design and construction**

Equipements pour gaz de pétrole liquéfiés et leurs  
accessoires - Bouteilles soudées transportables et  
rechargeables en aluminium pour gaz de pétrole  
liquéfié (GPL) - Conception et construction

Flüssiggas-Geräte und Ausrüstungsteile -  
Ortsbewegliche wiederbefüllbare geschweißte  
Flaschen aus Aluminium für Flüssiggas (LPG) -  
Auslegung und Bau

This European Standard was approved by CEN on 13 April 2012 and includes Amendment 1 approved by CEN on 3 January 2017.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## European foreword

This document (EN 13110:2012+A1:2017) has been prepared by Technical Committee CEN/TC 286 “Liquefied petroleum gas equipment and accessories”, the secretariat of which is held by NSAI.

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 July 2017, and conflicting national standards shall be withdrawn at the latest by July 2017.

This document includes Amendment 1 approved by CEN on 03 January 2017.

This document supersedes  EN 13110:2012 .

The start and finish of text introduced or altered by amendment is indicated in the text by tags  .

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 13110:2002.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

This standard has been submitted for reference into the RID and/or in the technical annexes of ADR (see [9] and [8]).

The main technical changes to this revision include the addition of:

- reference to the latest welding standards;
- the introduction of radioscopy as a permitted alternative to radiographic examination of welds;
- simplification of the marking requirements by reference to EN 14894; and
- environmental considerations recorded in Annex B.

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

## Introduction

This European Standard calls for the use of substances and procedures that may be injurious to health and/or the environment if adequate precautions are not taken. It refers only to technical suitability: it does not absolve the user from their legal obligations at any stage.

**A1** Protection of the environment is a key political issue in Europe and elsewhere. For CEN/TC 286, this is covered in CEN/TS 16765. This Technical Specification should be read in conjunction with this European Standard. **A1**

It is recommended that manufacturers develop an environmental management policy. For guidance see ISO 14000- series.

Provisions need to be restricted to a general guidance. Limit values are specified in national laws.

It has been assumed in the drafting of this European Standard that the execution of its provisions is entrusted to appropriately qualified and experienced people.

All pressures are gauged unless otherwise stated.

**NOTE** This European Standard requires measurement of material properties, dimensions and pressures. All such measurements are subject to a degree of uncertainty due to tolerances in measuring equipment etc. It may be beneficial to refer to the leaflet "measurement uncertainty leaflet" SP INFO 2000 27 [11].