



**NSAI**  
Standards

Irish Standard  
I.S. EN 1947:2014

# Fire-fighting hoses - Semi-rigid delivery hoses and hose assemblies for pumps and vehicles

## I.S. EN 1947:2014

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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*This document is based on:*

EN 1947:2014

*Published:*

2014-07-09

*This document was published under the authority of the NSAI and comes into effect on:*

2014-07-26

ICS number:

13.220.10

23.040.70

NOTE: If blank see CEN/CENELEC cover page

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EUROPEAN STANDARD

EN 1947

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2014

ICS 13.220.10; 23.040.70

Supersedes EN 1947:2002+A1:2007

English Version

## Fire-fighting hoses - Semi-rigid delivery hoses and hose assemblies for pumps and vehicles

Tuyaux de lutte contre l'incendie - Tuyaux de refoulement  
semi-rigides et flexibles pour pompes et véhicules

Feuerlöschschläuche - Formstabile Druckschläuche und  
Einbände für Pumpen und Feuerwehrfahrzeuge

This European Standard was approved by CEN on 28 May 2014.

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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## EN 1947:2014 (E)

<b>Contents</b>	<b>Page</b>
Foreword.....	3
Introduction .....	4
1 Scope .....	5
2 Normative references .....	5
3 Terms and definitions .....	5
4 Classification.....	6
4.1 General.....	6
4.2 Classification by types (hose construction) .....	6
4.3 Classification by class (materials for lining and cover) .....	7
4.4 Classification by category .....	7
5 Dimensions, tolerances and maximum mass.....	7
5.1 Inside diameter and maximum mass .....	7
5.2 Length and tolerances on length .....	8
5.3 Concentricity .....	8
6 Performance requirements of finished hose .....	8
6.1 Hydrostatic requirements .....	8
6.1.1 Deformation under maximum working pressure.....	8
6.1.2 Deformation under proof pressure .....	8
6.1.3 Minimum burst pressure .....	9
6.1.4 Kink pressure .....	9
6.2 Adhesion.....	9
6.3 Accelerated ageing .....	9
6.4 Abrasion resistance .....	9
6.4.1 Abrasion resistance of class 5 and class 6 hoses .....	9
6.4.2 Abrasion resistance of classes 1, 2, 3 and 4 hoses .....	10
6.5 Low temperature flexibility .....	10
6.6 Hot surface resistance .....	10
6.7 Ozone resistance .....	10
6.8 Bending and crush resistance .....	10
6.9 UV-resistance (xenon arc lamp) .....	10
6.10 Loss in mass on heating.....	10
6.11 Deformation under crushing (type C only) .....	10
7 Frequency of testing .....	11
8 Marking .....	11
9 Hose assemblies.....	12
Annex A (normative) Test for hose assemblies .....	13
A.1 Test piece .....	13
A.2 Procedure .....	13
Annex B (normative) Frequencies of testing (type test and production test) .....	14
Annex C (informative) Frequencies of testing (batch test) .....	15
Bibliography .....	16

## Foreword

This document (EN 1947:2014) has been prepared by Technical Committee CEN/TC 192 "Fire and Rescue Service Equipment", 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 January 2015 and conflicting national standards shall be withdrawn at the latest by January 2015.

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 1947:2002+A1:2007.

This revised standard now references EN 15889:2011, *Fire-fighting hoses - Test methods*, which includes the test methods formerly in annexes within EN 1947.

Requirements for semi-rigid hoses for use with fixed systems are given in EN 694; those for non-percolating layflat hoses for fixed systems are given EN 14540.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

**EN 1947:2014 (E)**

**Introduction**

These semi-rigid delivery hoses are used by the fire service and incorporates those hoses used manually to control and extinguish fires.

The hose requires to be fitted with couplings to form a hose assembly which is fitted onto reels on fire fighting vehicles.

## 1 Scope

This European Standard specifies the requirements and test methods for semi-rigid hoses for use on fire-fighting vehicles and trailer pumps. The hoses are intended for use at a maximum working pressure of 1,5 MPa for normal pressure hoses (category I) and 4,0 MPa for high pressure hoses (category II). The hoses are further subdivided into types and classes (see Clause 4).

This European Standard applies to hoses for fire-fighting purposes intended for use at ambient conditions within the temperature range  $-20\text{ °C}$  to  $+60\text{ °C}$ .

NOTE 1 Hoses for use at ambient temperatures below  $-20\text{ °C}$  can be supplied if they have been tested at the specified lower temperature in accordance with 6.5 and identified by their marking in Clause 8 h).

Hoses conforming to this standard are intended for use with fire hose couplings conforming to the relevant national standards for couplings.'

Requirements are also given for hose assemblies (see Clause 9) where these are fitted by the hose manufacturer.

NOTE 2 All pressures are expressed in megapascals. 1 MPa = 10 bar.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 15889:2011, *Fire-fighting hoses - Test methods*

EN ISO 176:2005, *Plastics - Determination of loss of plasticizers - Activated carbon method (ISO 176:2005)*

EN ISO 1307, *Rubber and plastics hoses - Hose sizes, minimum and maximum inside diameters, and tolerances on cut-to-length hoses (ISO 1307:2006)*

EN ISO 1402, *Rubber and plastics hoses and hose assemblies - Hydrostatic testing (ISO 1402:2009)*

EN ISO 4671:2007, *Rubber and plastics hoses and hose assemblies - Methods of measurement of the dimensions of hoses and the lengths of hose assemblies (ISO 4671:2007)*

EN ISO 7326:2008, *Rubber and plastics hoses - Assessment of ozone resistance under static conditions (ISO 7326:2006)*

EN ISO 8033, *Rubber and plastics hoses - Determination of adhesion between components (ISO 8033:2006)*

EN ISO 8330, *Rubber and plastics hoses and hose assemblies - Vocabulary (ISO 8330:2007)*

EN ISO 10619-2:2011, *Rubber and plastics hoses and tubing - Measurement of flexibility and stiffness - Part 2: Bending tests at sub-ambient temperatures (ISO 10619-2:2011)*

## 3 Terms and definitions

For the purposes of this document the following term and definition apply, together with those for working pressure, proof pressure and burst pressure given in EN ISO 8330.

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