



NSAI
Standards

Irish Standard
I.S. EN 131-6:2019

Ladders - Part 6: Telescopic ladders

I.S. EN 131-6:2019

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:

EN 131-6:2019

Published:

2019-02-27

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

2019-03-17

ICS number:

97.145

NOTE: If blank see CEN/CENELEC cover page

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

I.S. EN 131-6:2019 is the adopted Irish version of the European Document EN 131-6:2019, Ladders - Part 6: Telescopic ladders

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

For relationships with other publications refer to the NSAI web store.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This page is intentionally left blank

EUROPEAN STANDARD

EN 131-6

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2019

ICS 97.145

Supersedes EN 131-6:2015

English Version

Ladders - Part 6: Telescopic ladders

Échelles - Partie 6: Échelles télescopiques

Leitern - Teil 6: Teleskopleitern

This European Standard was approved by CEN on 26 November 2018.

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.

CEN members are the national standards bodies of 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 United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword.....	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Functional dimensions	6
4.1 General dimensions.....	6
4.2 Specific dimensions.....	6
4.3 Top rung clearance l_6	6
4.4 Outside width b_4	7
5 Requirements	7
5.1 General requirements.....	7
5.2 Distance between rungs/steps.....	7
5.3 Additional requirements for the top of leaning ladders.....	8
5.4 Locking of the rung/step sections.....	8
5.5 Design.....	8
5.6 Base width b_2	8
6 Testing	8
6.1 General.....	8
6.2 Ladder preconditioning.....	9
6.2.1 General.....	9
6.2.2 Drop test.....	9
6.3 Strength test of stiles.....	9
6.4 Bending test of stiles.....	11
6.5 Lateral deflection test of the ladder.....	11
6.6 Bottom stile ends test.....	11
6.7 Vertical load on rungs, steps and platforms.....	11
6.7.1 General.....	11
6.7.2 Rungs and steps.....	11
6.7.3 Platform.....	12
6.7.4 Rungs/steps strength test – unlocked position.....	13
6.7.5 Torsion test of rungs/steps.....	13
6.7.6 Pull out test of rung/step.....	14
6.8 Test of opening restraints and hinges of standing telescopic ladders.....	14
6.9 Base slip test for leaning ladders.....	14
6.10 Test of locking mechanism.....	14
6.10.1 Cyclic test of locking mechanism.....	14
6.10.2 Static test of locking mechanism.....	15
6.10.3 Cyclic test of hinge joints.....	15
6.11 Feet/End cap pull test.....	16
6.12 Asymmetrical bending test.....	16
6.13 Test methods for plastic ladders.....	16
6.14 Test methods for plastic rung/step brackets.....	16
6.15 Durability.....	16
6.16 Opening and closing cycle test.....	16

7	Marking and user instructions	17
7.1	General	17
7.2	Marking	17
7.3	User instruction	17
7.4	List of items to be inspected	17
7.5	Storage.....	18
	Annex A (normative) Test sequence.....	19
	Annex B (informative) Deviations	20
B.1	General	20
B.2	Deviations from the Netherlands.....	20
B.3	Deviations from Sweden	21
	Bibliography	22

EN 131-6:2019 (E)

European foreword

This document (EN 131-6:2019) has been prepared by Technical Committee CEN/TC 93 “Ladders”, the secretariat of which is held by DIN.

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 August 2019, and conflicting national standards shall be withdrawn at the latest by August 2019.

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

This document supersedes EN 131-6:2015.

In comparison with the previous edition, the following technical modifications have been made:

- a) strength test in position of use;
- b) durability test for the complete ladder added;
- c) asymmetrical bending test added;
- d) requirements specified in more detail and aligned with the EN 131 series.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

This European Standard is one of a series about ladders. The other standards of this series are listed in Clause 2 and in the Bibliography.

According to the CEN-CENELEC Internal Regulations, the national standards organisations 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.

1 Scope

This document specifies the general design features, requirements and test methods and defines terms for leaning and standing telescopic ladders.

Ladders with extension elements are not covered by this part of EN 131.

This part of the standard is intended to be used in conjunction with EN 131-1, EN 131-2, EN 131-3 and if applicable EN 131-4.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 131-1:2015, *Ladders — Part 1: Terms, types, functional sizes*

EN 131-2:2010+A2:2017, *Ladders — Part 2: Requirements, testing, marking*

EN 131-3:2018, *Ladders — Part 3: Marking and user instructions*

EN 131-4:2007, *Ladders — Part 4: Single or multiple hinge-joint ladders*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 131-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

telescopic ladder

ladder consisting of three or more rung/step sections with telescopic stiles

3.2

hinge-joint telescopic ladder

ladder including one or more hinge-joint devices with at least one predetermined lockable position

3.3

rung/step section

section of ladder that consists of one rung/step connected to two telescopic stiles

3.4

rung/step bracket

part that attaches the rung/step to the stile

3.5

rung/step section locking mechanism

mechanism that locks a rung/step section

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-