



NSAI
Standards

Irish Standard
I.S. EN 1888-1:2018+A1:2022

Child care articles - Wheeled child conveyances - Part 1: Pushchairs and prams

I.S. EN 1888-1:2018+A1:2022

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 1888-1:2018+A1:2022

Published:

2022-04-20

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

2022-05-08

ICS number:

97.190

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 1888-1:2018+A1:2022 is the adopted Irish version of the European Document EN 1888-1:2018+A1:2022, Child care articles - Wheeled child conveyances - Part 1: Pushchairs and prams

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 1888-1:2018+A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2022

ICS 97.190

Supersedes EN 1888-1:2018

English Version

Child care articles - Wheeled child conveyances - Part 1: Pushchairs and prams

Articles de puériculture - Voitures d'enfant - Partie 1 :
Poussettes et landaus

Artikel für Säuglinge und Kleinkinder - Transportmittel
auf Rädern für Kinder - Teil 1: Kinderwagen und
Kinderwagenaufsätze

This European Standard was approved by CEN on 23 April 2018 and includes Amendment 1 approved by CEN on 24 January 2022.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, 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		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	6
4	General requirements and test conditions	9
4.1	Samples	9
4.2	Principle of the most onerous condition	9
4.3	Tolerances for test equipment	9
4.4	Test conditions	10
4.5	Determination of the protected volume	10
4.5.1	Protected volume of seat units	10
4.5.2	Protected volume of pram bodies having a length greater than 800 mm	12
4.5.3	Protected volume for pram bodies having a maximum internal length of 800 mm and car seats	13
4.6	Determination of the junction line	13
4.7	Determination of the occupant space	14
4.7.1	Determination of occupant space for seat unit and car seat	14
4.7.2	Determination of occupant space for pram body having a length less than 800 mm	14
4.7.3	Determination of occupant space for pram body having a length greater than 800 mm	14
5	Test equipment	15
5.1	Test masses	15
5.1.1	General	15
5.1.2	Test mass A	15
5.1.3	Test mass B	16
5.1.4	Test mass C	16
5.1.5	Test mass D	17
5.1.6	Test mass D₀	18
5.1.7	Test mass F	18
5.1.8	Test mass G	19
5.1.9	Test bar	20
5.2	Test probes	21
5.2.1	Finger probes	21
5.2.2	Hip probe	23
5.2.3	Large head probe	24
5.2.4	Conical probes	25
5.3	Angle measuring device	25
5.4	Test ball	27
5.5	Hinged board	27
5.6	Small parts cylinder	27
5.7	Bite tester	28
5.8	Test surface	29
5.9	Rectangular stops	29
5.10	Irregular surface test equipment	30

5.10.1	Obstacles.....	30
5.10.2	Articulating arms (see Annex B)	31
6	Chemical hazards (see A.2)	31
7	Thermal hazards (see A.3)	31
8	Mechanical hazards (see A.4).....	32
8.1	Protective function (see A.4.2)	32
8.1.1	Suitability of vehicle	32
8.1.2	Minimum internal height of pram body	35
8.1.3	Restraint system and fasteners	36
8.2	Entrapment hazards (see A.4.3).....	39
8.2.1	Holes and openings.....	39
8.2.2	Entrapment between the handle and the pram body.....	39
8.3	Hazards from moving parts (see A.4.4)	39
8.3.1	General	39
8.3.2	Shearing hazards (see A.4.4)	40
8.3.3	Crushing hazards, requirement (see A.4.4)	40
8.3.4	Wheels	41
8.3.5	Locking mechanism(s).....	41
8.4	Entanglement hazards (see A.5).....	44
8.4.1	Requirements.....	44
8.4.2	Test method.....	45
8.5	Choking and ingestion hazards (see A.6).....	46
8.5.1	Requirements.....	46
8.5.2	Test methods.....	46
8.6	Suffocation hazards (see A.7).....	48
8.6.1	Internal lining of the pram body and seat unit	48
8.6.2	Plastic packaging	48
8.7	Hazardous edges and protrusions (see A.8)	48
8.8	Parking and braking devices (see A.9)	49
8.8.1	Requirements.....	49
8.8.2	Test methods.....	49
8.9	Stability (see A.10)	53
8.9.1	Stability of vehicle	53
8.9.2	Longitudinal stability of a pram body with carrying handles	57
8.9.3	Stability hazards due to the position of swivelling wheels Error! Bookmark not defined.	
8.10	Structural integrity (see A.11)	58
8.10.1	Carrying handles and handle anchorage points of pram bodies and detachable seat units.....	58
8.10.2	Strength and durability of attachment devices for pram bodies or seat units or car seats.....	58
8.10.3	Irregular surface test	59
8.10.4	Dynamic strength	60
8.10.5	Wheel strength	62
8.10.6	Handle strength.....	62
9	Durability of marking.....	66
10	Product information.....	66
10.1	General	66
10.2	Marking of product	66
10.3	Purchase information (A.12).....	67
10.4	Instructions for use.....	68

EN 1888-1:2018+A1:2022 (E)

Annex A (informative) Rationales	70
A.1 General	70
A.2 Chemical hazards (see Clause 6)	70
A.3 Thermal hazards (see Clause 7)	70
A.4 Mechanical hazards (see Clause 8)	70
A.4.1 General	70
A.4.2 Protective function (see 8.1)	70
A.4.3 Entrapment hazards (see 8.2)	70
A.4.4 Hazards from moving parts (see 8.3)	71
A.5 Entanglement hazards (see 8.4)	72
A.6 Choking and ingestion hazards (see 8.5)	73
A.7 Suffocation hazards (see 8.6)	73
A.8 Hazardous edges and protrusions (see 8.7)	73
A.9 Parking and braking devices (see 8.8)	73
A.10 Stability (see 8.9)	73
A.11 Structural integrity (see 8.10)	73
A.12 Purchase information (see 10.3)	74
Annex B (informative) Examples of articulated arms to maintain the vehicle on the rig for the irregular surface test	75
Annex C (informative) Guideline for the application of 8.3.5.1.1.3 “Unintentional release of locking mechanism(s)”	77
C.1 Relevant definitions	77
C.2 Guidelines for the application of 8.3.5.1.1.3 “Unintentional release of locking mechanism(s)”	77
C.2.1 General	77
C.2.2 Products fitted with one single <i>operating device</i> (products that may be fold using only one hand)	77
C.2.3 Products fitted with two operating devices	78
C.2.4 Products having three or more <i>operating devices</i>	79
C.2.5 Products covered by different requirements	79
Annex D (informative) Examples of moving parts of the canopies inside 100 mm from the pivot point	81
D.1 Case A	81
D.2 Case B	82
D.3 Case C	83
Annex E (informative) Translation of Warnings in different European languages	84
Annex F (informative) A-deviations	110
Annex G (informative) Child restraint systems: arrangement of approval marks	111
Bibliography	112

European foreword

This document (EN 1888-1:2018+A1:2022) has been prepared by Technical Committee CEN/TC 252 “Child care articles”, the secretariat of which is held by AFNOR.

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 2022, and conflicting national standards shall be withdrawn at the latest by October 2022.

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 A1 EN 1888-1:2018 A1.

This document includes Amendment 1 approved by CEN on 01 January 2022.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

In comparison with this EN 1888:2012, the significant technical changes relate to the following issues:

- a) chemical hazards;
- b) entrapment hazards;
- c) hazards from moving parts;
- d) entanglement hazards;
- e) parking device test method;
- f) stability of the vehicle;
- g) introduction of an informative Annex E giving relevant translations for warning sentences;
- h) introduction of an informative Annex D giving information on the assessment of moving parts of canopies;
- i) introduction of an informative Annex G giving information on the arrangement of approval marks for car seats.

In November 2014, the European Working Group decided to split EN 1888 into different parts to clearly treat in a different way, new products or new functions of wheeled child conveyances.

EN 1888 is currently composed with the following parts:

- EN 1888-1, *Child care articles — Wheeled child conveyances — Part 1: Pushchairs and prams*;
- EN 1888-2, *Child care articles — Wheeled child conveyances — Part 2: Pushchairs for children above 15 kg up to 22 kg*.

EN 1888 therefore becomes EN 1888-1 and is only applicable to *pushchairs* and *prams*. It will be used as a reference in future parts.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

EN 1888-1:2018+A1:2022 (E)

1 Scope

This document specifies the safety requirements and test methods for *pushchairs and prams*, designed for the carriage of one or more children, up to 15 kg each and up to 20 kg for any *integrated platform* on which a child can stand.

This document does not cover toys, baby carriers fitted with wheels; *pushchairs and prams* propelled by a motor and *pushchairs and prams* designed for children with special needs.

Where a *pushchair or pram* or any part of the *pushchair or pram* has several functions or can be converted into another function it is due to comply with relevant standard(s).

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 71-1, *Safety of toys — Part 1: Mechanical and physical properties*

EN 71-2:2020, *Safety of toys — Part 2: Flammability*

EN 71-3, *Safety of toys — Part 3: Migration of certain elements*

3 Terms and definitions

For the purposes of this document, the following terms and definitions 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

wheeled child conveyance

vehicle designed for the carriage of one or more children which can be manually steered while being pushed or pulled

3.2

pushchair

vehicle comprising a *chassis* and one or more *seat units* or *car seats*

Note 1 to entry: Referred to as the “vehicle” for the purpose of this standard.

3.3

pram

vehicle comprising a *chassis* and one or more *pram bodies*

Note 1 to entry: Referred to as the “vehicle” for the purpose of this standard.

3.4

integrated platform

A1 integral part of the vehicle designed to support a child in a standing position **A1**

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](#)
-