



NSAI
Standards

Irish Standard
I.S. EN 1888:2012

Child care articles - Wheeled child conveyances - Safety requirements and test methods

I.S. EN 1888:2012

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:
EN 1888:2003

This document is based on: EN 1888:2012
Published: 30 March, 2012

This document was published under the authority of the NSAI and comes into effect on:
30 March, 2012

ICS number:
97.190

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

English Version

Child care articles - Wheeled child conveyances - Safety requirements and test methods

Articles de puériculture - Voitures d'enfant - Exigences de sécurité et méthodes d'essai

Artikel für Säuglinge und Kleinkinder - Transportmittel auf Rädern für Kinder - Sicherheitstechnische Anforderungen und Prüfungen

This European Standard was approved by CEN on 16 December 2011.

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



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 General requirements and test conditions	8
4.1 Samples	8
4.2 Principle of the most onerous condition.....	8
4.3 Tolerances for test equipment	9
4.4 Test conditions	9
4.5 Determination of the protected volume.....	9
4.5.1 Protected volume of seat units	9
4.5.2 Protected volume of pram bodies having a length greater than 800 mm.....	11
4.5.3 Protected volume for pram bodies having a maximum internal length of 800 mm and car seats.....	12
4.6 Determination of the junction line.....	12
5 Test equipment	13
5.1 Test masses	13
5.1.1 General.....	13
5.1.2 Test mass <i>A</i>	13
5.1.3 Test mass <i>B</i>	14
5.1.4 Test mass <i>C</i>	15
5.1.5 Test mass <i>D</i>	16
5.1.6 Test mass <i>D</i> ₀	17
5.1.7 Test mass <i>F</i>	18
5.1.8 Test mass <i>G</i>	19
5.1.9 Test bar	20
5.2 Test probes.....	20
5.2.1 Finger probes	20
5.2.2 Hip probe	21
5.2.3 Large head probe.....	22
5.3 Angle measuring device	22
5.4 Test ball	24
5.5 Hinged board.....	24
5.6 Small parts cylinder.....	25
5.7 Bite tester	25
5.8 Test surface.....	27
5.9 Rectangular stops.....	27
5.10 Irregular surface test equipment.....	27
5.10.1 Obstacles.....	27
5.10.2 Articulating arms (see Annex B)	28
6 Chemical hazards (see A.2).....	29
7 Thermal hazards (see A.3).....	29
8 Mechanical hazards (see A.4)	29
8.1 Protective function (see A.4.2).....	29
8.1.1 Suitability of vehicle	29
8.1.2 Minimum internal height of pram body	33
8.1.3 Restraint system and fasteners	34
8.2 Entrapment hazards (see A.4.3).....	37

8.2.1	Holes and openings	37
8.2.2	Entrapment between the handle and the pram body.....	38
8.3	Hazards from moving parts (see A.4.4).....	38
8.3.1	Requirements.....	38
8.3.2	Wheels	38
8.3.3	Locking mechanism(s).....	39
8.4	Entanglement hazards (see A.5)	42
8.5	Choking and ingestion hazards (see A.6)	43
8.5.1	Requirements.....	43
8.5.2	Test methods	43
8.6	Suffocation hazards (see A.7)	44
8.6.1	Internal lining of the pram body and seat unit	44
8.6.2	Plastic packaging	44
8.7	Hazardous edges and protrusions (see A.8).....	45
8.8	Parking and braking devices (see A.9).....	45
8.8.1	Requirements.....	45
8.8.2	Test methods	46
8.9	Stability (see A.10).....	49
8.9.1	Stability of vehicle	49
8.9.2	Longitudinal stability of a pram body with carrying handles	53
8.10	Structural integrity (see A.11).....	54
8.10.1	Carrying handles and handle anchorage points of pram bodies and detachable seat units.....	54
8.10.2	Strength and durability of attachment devices for pram bodies or seat units or car seats	54
8.10.3	Irregular surface test.....	55
8.10.4	Dynamic strength	56
8.10.5	Wheel strength.....	58
8.10.6	Handle strength	59
9	Durability of marking.....	62
10	Product information	62
10.1	General	62
10.2	Marking of product.....	62
10.3	Purchase information.....	63
10.4	Instructions for use	64
Annex A	(informative) Rationales.....	66
A.1	General	66
A.2	Chemical hazards (see Clause 6)	66
A.3	Thermal hazards (see Clause 7)	66
A.4	Mechanical hazards (see Clause 8).....	66
A.4.1	General	66
A.4.2	Protective function (see 8.1).....	66
A.4.3	Entrapment hazards (see 8.2).....	66
A.4.4	Hazards from moving parts (see 8.3).....	67
A.5	Entanglement hazards (see 8.4).....	67
A.6	Choking and ingestion hazards (see 8.5).....	67
A.7	Suffocation hazards (see 8.6).....	67
A.8	Hazardous edges and protrusions (see 8.7).....	67
A.9	Parking and braking devices (see 8.8)	68
A.10	Stability (see 8.9)	68
A.11	Structural integrity (see 8.10).....	68
Annex B	(informative) Examples of articulated arms to maintain the vehicle on the rig for the irregular surface test.....	69
Annex C	(informative) Guideline for the application of 8.3.3.1.1.3 "Unintentional release of locking mechanism(s)"	70
C.1	Relevant definitions	70
C.2	Guidelines for the application of 8.3.3.1.1.3 "Unintentional release of locking mechanism(s)"	70
C.2.1	General	70

C.2.2	Products fitted with one single <i>operating device</i> (products that may be fold using only one hand).....	70
C.2.3	Products fitted with two operating devices	71
C.2.4	Products having three or more <i>operating devices</i>.....	72
C.2.5	Products covered by different requirements	73
Annex D	(informative) A-deviation.....	74
Bibliography	75

Foreword

This document (EN 1888:2012) has been prepared by Technical Committee CEN/TC 252 “Child use and 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 September 2012, and conflicting national standards shall be withdrawn at the latest by March 2013.

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 1888:2003.

In comparison with this EN 1888:2003, the significant technical changes relates to the following issues:

- a) determination of a protected volume;
- b) clarification of the protective function;
- c) angles measurements test method;
- d) holes and openings;
- e) locking mechanisms;
- f) handle movement;
- g) introduction of a bite test;
- h) parking and braking devices;
- i) stability;
- j) handle strength;
- k) product information;
- l) introduction of rationales in Annex A.

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, 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.

1 Scope

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

This European Standard does not cover toys, shopping trolleys; baby carriers fitted with wheels; *wheeled child conveyances* propelled by a motor and *wheeled child conveyances* designed for children with special needs.

Where additional products are designed to be attached to a *wheeled child conveyance*, a hazard and risk analysis should be undertaken to identify any potential hazards.

Where a *wheeled child conveyance* or any part of the *wheeled child conveyance* has several functions or can be converted into another function it shall comply with the relevant standards.

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

EN 71-3:1994, *Safety of toys — Part 3: Migration of certain elements*

EN 1103, *Textiles — Fabrics for apparel — Detailed procedure to determine the burning behaviour*

3 Terms and definitions

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

3.1
wheeled child conveyance
vehicle designed for the carriage of one or more children consisting of a *chassis* to which a *pram body* (bodies) or *car seat(s)* or *seat unit(s)* or combination of these is (are) attached, which can be manually steered while being pushed or pulled

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

3.2
pram body
structure with essentially vertical and continuous sides and ends with an internal base designed to transport one or more children in a primarily horizontal position

3.3
seat unit
structure which may or may not be adjustable to achieve a reclining or recumbent position designed to support one or more children

3.4
car seat
group 0/0+ child restraint system complying with ECE44

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](#)
-