



BSI Standards Publication

## Child care articles — Wheeled child conveyances

---

Part 1: Pushchairs and prams

This is a preview of "BS EN 1888-1:2018+A1...". [Click here to purchase the full version from the ANSI store.](#)

## National foreword

This British Standard is the UK implementation of EN 1888-1:2018+A1:2022. It supersedes BS EN 1888-1:2018, which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to CEN text carry the number of the CEN amendment. For example, text altered by CEN amendment A1 is indicated by A1 A1.

The UK participation in its preparation was entrusted to Technical Committee CW/1, Safety of child use and child care products.

A list of organizations represented on this committee can be obtained on request to its committee manager.

### Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

© The British Standards Institution 2022  
Published by BSI Standards Limited 2022

ISBN 978 0 539 16472 5

ICS 97.190

### Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 January 2019.

### Amendments/corrigenda issued since publication

Date	Text affected
31 July 2022	Implementation of CEN amendment A1:2022

This is a preview of "BS EN 1888-1:2018+A1...". [Click here to purchase the full version from the ANSI store.](#)

**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**

<b>Contents</b>	<b>Page</b>
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 <i>A</i> .....	15
5.1.3 Test mass <i>B</i> .....	16
5.1.4 Test mass <i>C</i> .....	16
5.1.5 Test mass <i>D</i> .....	17
5.1.6 Test mass <i>D</i> <sub>0</sub> .....	18
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.....	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

This is a preview of "BS EN 1888-1:2018+A1...". [Click here to purchase the full version from the ANSI store.](#)

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

This is a preview of "BS EN 1888-1:2018+A1...". [Click here to purchase the full version from the ANSI store.](#)

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

This is a preview of "BS EN 1888-1:2018+A1...". [Click here to purchase the full version from the ANSI store.](#)

## 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.

This is a preview of "BS EN 1888-1:2018+A1...". Click here to purchase the full version from the ANSI store.

## 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**