

DIN EN 1888-1:2019-05 (E)

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

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	
	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	22
5.2.3	Large head probe	23
5.2.4	Conical probes	24
5.3	Angle measuring device	24
5.4	Test ball	26
5.5	Hinged board	26
5.6	Small parts cylinder	26
5.7	Bite tester	27
5.8	Test surface	28
5.9	Rectangular stops	28
5.10	Irregular surface test equipment	29
5.10.1	Obstacles	29
5.10.2	Articulating arms (see Annex B)	30

6	Chemical hazards (see A.2)	30
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	34
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)	45
8.5.1	Requirements	45
8.5.2	Test methods	46
8.6	Suffocation hazards (see A.7)	47
8.6.1	Internal lining of the pram body and seat unit	47
8.6.2	Plastic packaging	47
8.7	Hazardous edges and protrusions (see A.8)	47
8.8	Parking and braking devices (see A.9)	48
8.8.1	Requirements	48
8.8.2	Test methods	48
8.9	Stability (see A.10)	52
8.9.1	Stability of vehicle	52
8.9.2	Longitudinal stability of a pram body with carrying handles	56
8.9.3	Stability hazards due to the position of swivelling wheels	56
8.10	Structural integrity (see A.11)	57
8.10.1	Carrying handles and handle anchorage points of pram bodies and detachable seat units	57
8.10.2	Strength and durability of attachment devices for pram bodies or seat units or car seats	57
8.10.3	Irregular surface test	58
8.10.4	Dynamic strength	59
8.10.5	Wheel strength	61
8.10.6	Handle strength	61
9	Durability of marking	65
10	Product information	65
10.1	General	65
10.2	Marking of product	65
10.3	Purchase information (A.12)	66
10.4	Instructions for use	67
	Annex A (informative) Rationales	69
A.1	General	69
A.2	Chemical hazards (see Clause 6)	69
A.3	Thermal hazards (see Clause 7)	69
A.4	Mechanical hazards (see Clause 8)	69
A.4.1	General	69
A.4.2	Protective function (see 8.1)	69
A.4.3	Entrapment hazards (see 8.2)	69

A.4.4	Hazards from moving parts (see 8.3)	70
A.5	Entanglement hazards (see 8.4)	71
A.6	Choking and ingestion hazards (see 8.5)	72
A.7	Suffocation hazards (see 8.6)	72
A.8	Hazardous edges and protrusions (see 8.7)	72
A.9	Parking and braking devices (see 8.8)	72
A.10	Stability (see 8.9)	72
A.11	Structural integrity (see 8.10)	72
A.12	Purchase information (see 10.3)	73
Annex B (informative)	Examples of articulated arms to maintain the vehicle on the rig for the irregular surface test	74
Annex C (informative)	Guideline for the application of 8.3.5.1.1.3 "Unintentional release of locking mechanism(s)"	76
C.1	Relevant definitions	76
C.2	Guidelines for the application of 8.3.5.1.1.3 "Unintentional release of locking mechanism(s)"	76
C.2.1	General	76
C.2.2	Products fitted with one single operating device (products that may be fold using only one hand)	76
C.2.3	Products fitted with two operating devices	77
C.2.4	Products having three or more operating devices	78
C.2.5	Products covered by different requirements	78
Annex D (informative)	Examples of moving parts of the canopies inside 100 mm from the pivot point	80
D.1	Case A	80
D.2	Case B	81
D.3	Case C	82
Annex E (informative)	Translation of Warnings in different European languages	83
Annex F (informative)	A-deviations	109
Annex G (informative)	Child restraint systems: arrangement of approval marks	110
Bibliography	111