

DIN EN 1888:2012-06 (E)

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

	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 A	13	
5.1.3 Test mass B	14	
5.1.4 Test mass C	15	
5.1.5 Test mass D	16	
5.1.6 Test mass D0	17	
5.1.7 Test mass F	18	
5.1.8 Test mass G	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 operating device (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 operating devices	72
C.2.5 Products covered by different requirements	73
Annex D (informative) A-deviation	74
Bibliography	75