

DIN EN 1130:2020-02 (E)

Children's furniture - Cribs - Safety requirements and test methods

Contents		Page
European foreword		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	6
4	General test conditions	7
4.1	Preliminary preparation	7
4.2	Application of Forces	7
4.3	Tolerances	8
4.4	Definition of the protected volume	8
5	Test equipment	8
5.1	General	8
5.2	Test mass	8
5.3	Entrapment test probes	8
5.3.1	Finger probes with hemispherical end	8
5.3.2	Finger probe for mesh	9
5.3.3	Other probes	9
5.3.4	Small head probe	9
5.3.5	Large head probe	10
5.3.6	Shape assessment probe	10
5.4	Side impactor	11
5.5	Stops	12
5.6	Small parts cylinder	12
5.7	Test platform	13
5.7.1	Mattress support	13
5.7.2	Test mattress	13
5.8	Test bar	13
5.9	Test plate	13
5.10	Template for V-shaped openings	14
5.11	Feeler gauge	15
5.12	Aluminium oxide abrasive paper	15
6	Chemical hazards (see A.2)	15
6.1	Migration of certain elements	15
6.2	Formaldehyde	16
7	Flammability hazards (see A.3)	16
8	Mechanical hazards	16
8.1	Crib base inclination	16
8.2	Entrapment hazards from gaps and openings (see A.4)	16
8.2.1	Finger entrapment hazards	16
8.2.2	Other entrapment hazards	17
8.2.3	Entrapment hazards outside the crib	17
8.2.4	Test method for holes, gaps and openings	17
8.3	Hazards from moving parts	20
8.3.1	Shearing and crushing hazards	20
8.3.2	Hazards due to body weight	21
8.3.3	Hazards due to unintentional folding of the crib	21
8.4	Hazards due to the movements of the product (see A.5)	21
8.4.1	Hazards due to the movement of cradles and suspended cribs	21

8.4.2	Castors and wheels	22
8.4.3	Locking system for foldable or adjustable legs and feet	23
8.5	Falling hazards	23
8.5.1	Height of sides and ends	23
8.5.2	Hazards due to inadvertent release of adjustable sides	23
8.5.3	Locking system for adjustment in height or angle of the base	24
8.5.4	Stability (see A.6)	24
8.5.5	Structural integrity of suspended cribs	25
8.6	Entanglement hazards (see A.7)	26
8.6.1	Requirements	26
8.6.2	Test method	26
8.7	Choking and ingestion hazards (see A.8)	27
8.7.1	Requirements	27
8.7.2	Test methods	27
8.8	Suffocation hazards	28
8.8.1	Hazards due to the deflection of the base	28
8.8.2	External suffocation hazards (see A.9)	29
8.8.3	Plastic packaging	29
8.9	Hazards from sharp points and edges	29
8.9.1	General requirement	29
8.9.2	Requirement on attachment devices for suspended cribs (see A.9)	29
8.10	Hazards due to bedside sleeping (see A.11)	29
8.10.1	Hazards due to the drop side (see A.12)	29
8.10.2	Hazards from bedside sleepers disengagement (see A.13)	29
8.10.3	Bedside sleeper attachment system	30
8.11	Structural integrity	31
8.11.1	Connecting screws	31
8.11.2	Static strength	31
8.11.3	Strength of sides, structural members of the sides, ends and corners	32
8.11.4	Vertical static load	33
9	Mattresses	34
10	Product information (see A.14)	34
10.1	General	34
10.2	Marking	34
10.3	Purchase information	35
10.4	Instructions for use	36
10.4.1	General	36
10.4.2	Warnings	36
10.4.3	Information for all cribs	36
10.4.4	Information for suspended cribs	37
10.4.5	Information for bedside sleepers	38
Annex A (informative) Rationale		39
A.1	General	39
A.2	Rationale for Chemical Requirements (Clause 6)	39
A.3	Rationale for requirements on ignitability and flash effect (Clause 7)	39
A.4	Requirements for entrapment hazards (8.2)	40
A.5	Requirements for hazards due to the movement of cradles and suspended cribs (8.4.1) ..	40
A.6	Requirements for stability (8.5.4)	40
A.7	Requirements for entanglement hazards (8.6)	40
A.8	Requirements for choking hazards and ingestion hazards (8.7)	41
A.9	Requirements for external suffocation hazards (8.8.2)	41
A.10	Requirements on attachment devices of suspended cribs (8.9.2)	41
A.11	Requirements for bed side sleepers (8.10)	41
A.12	Requirements for drop sides (8.10.1)	42
A.13	Requirements for hazards due to bedside sleepers disengagement (8.10.3)	42
A.14	Product information (Clause 9)	42
Annex B (informative) A-deviations		43
Bibliography		45