DIN EN 1273:2024-02 (E)

Child care articles - Baby walking frames - Safety requirements and test methods (includes Amendment:2023)

Contents

Page

European foreword 5

Introduction 6

1 Scope 7

2 Normative references 7

3 Terms and definitions 7

4 Test equipment 8
4.1 Test masses 8
4.1.1 Test mass A 8
4.1.2 Test mass B 8
4.1.3 Test mass C 8
4.1.4 Test mass D 9
4.2 Small parts cylinder 10
4.3 Feeler gauge 10
4.4 Test probes for finger entrapment 11
4.4.1 Test probes with hemispherical end 11
4.4.2 Shape assessment probe 12
4.5 Test platform for stability test 12
4.6 Test equipment for dynamic stability 13
4.6.1 Test platform 13
4.6.2 Spacer 13
4.7 Test equipment for prevention of fall down steps test 13
4.7.1 Test platform 13
4.7.2 Steel cable 14
4.7.3 Pulley 14
4.7.4 Aluminium angle 14
4.7.5 Rigid plate 14
4.7.6 Structural characteristics for the test equipment 14
4.8 Foam 15

5 General requirements and test conditions 15
5.1 Product conditioning 15
5.2 Test conditions 15
5.3 Application of forces 15
5.4 Tolerances 16
5.5 Order of tests 16

6 Chemical hazards (see A.2) 16
6.1 General 16
6.2 Migration of certain elements (see A.2) 16
6.3 Formaldehyde (see A.2) 17
6.4 Colourants (see A.2) 17
6.5 Aniline (see A.2) 17

7 Thermal hazards (see A.3) 18
7.1 Requirement 18
7.2 Test method 18

8 Mechanical hazards (see A.4) 18
8.1 Entrapment hazards (see A.4.1) 18
8.1.1 Requirements 18
8.1.2 Test methods 19
8.2 Hazards due to moving parts (see A.4.2) 19
8.2.1 General 19
8.2.2 Requirements for compression points 19
8.2.3 Requirements for shear points 19
8.3 Protective function of the seat 19
8.3.1 General 19
8.3.2 Crotch strap 19
8.3.3 Removable seats 19
8.3.4 Seat height 20
8.4 Hazards due to height adjustment and folding of the product 20
8.4.1 Requirements 20
8.4.2 Test methods for height adjustment and folding mechanisms 21
8.5 Strangulation hazards due to cords, ribbons and similar parts (see A.4.3) 21
8.5.1 Requirements 21
8.5.2 Test method 22
8.6 Choking and ingestion hazard (see A.4.4) 22
8.6.1 Requirements 22
8.6.2 Test methods 22
8.7 Suffocation hazards from plastic packaging (see A.4.5) 23
8.7.1 Plastic packaging 23
8.7.2 Plastic decals 24
8.8 Hazards from edges, corners and protruding parts (see A.4.6) 24
8.9 Hazards from inadequate structural integrity (see A.4.7) 24
8.9.1 Static strength 24
8.9.2 Dynamic strength 25
8.10 Hazards from inadequate stability (see A.4.8) 25
8.10.1 Static stability 25
8.10.2 Dynamic stability 25
8.11 Hazards due to falling down stairs (see A.4.9) 26
8.11.1 Requirements 26
8.11.2 Test method 26
8.11.3 Tip over test 30
8.12 Parking devices 31
8.12.1 Requirements 31
8.12.2 Test method 31

9 Product information 32
9.1 General 32
9.2 Marking of the product 33
9.3 Purchase information 33
9.4 Instructions for use 34

Annex A (informative) Rationales 36

A.1 Introduction 36
A.2 Chemical hazards (see Clause 6) 36
A.3 Thermal hazards (see Clause 7) 36
A.4 Mechanical hazards (see Clause 8) 36
A.4.1 Entrapment hazards (see 8.1) 36
A.4.2 Hazards due to moving parts (see 8.2) 37
A.4.3 Strangulation hazards (see 8.5) 37
A.4.4 Choking and ingestion hazards (see 8.6) 37
A.4.5 Suffocation hazards (see 8.7) 37
A.4.6 Hazardous edges, corners and protruding parts (see 8.8) 37
A.4.7 Hazards from inadequate structural integrity (see 8.9) 37
A.4.8 Hazards from inadequate stability (see 8.10) 37
A.4.9 Hazards due to falling down stairs (see 8.11) 37

Annex B (normative) Test platform for tip over test 38

Annex C (!Informative") Warnings 39

Annex D (informative) A-deviations 60

Annex ZA !(Informative) Relationship between this European Standard and the safety requirements of Directive 2001/95/EC aimed to be covered 61