DIN EN 14960-1:2020-04 (E)

Inflatable play equipment - Part 1: Saf ety requirements and test methods

Contents

Page

European foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 6

4 Safety requirements 10
4.1 Materials 10
4.1.1 Fabrics 10
4.1.2 Thread 10
4.1.3 Netting 10
4.1.4 Ropes 11
4.1.5 Zips 11
4.1.6 Dangerous substances and decorative finishes 11
4.2 Design 11
4.2.1 Anchorage 11
4.2.2 Structural integrity 12
4.2.3 Access/egress 13
4.2.4 Blowers 16
4.2.5 Entrapment 16
4.2.6 Hard objects, sharp angles and edges 21
4.2.7 Electrical installations 21
4.2.8 Siting 21
4.2.9 Containment 23
4.2.10 Wall heights on slopes 24
4.2.11 Run-out 25
4.2.12 Ventilation 25
4.3 Number of users 25
4.4 Supervision 26

5 Test methods and reports 26

6 Information to be provided by the supplier/manufacturer 26
6.1 General product information 26
6.2 Pre-information 27
6.3 Installation information 27
6.4 Operating information 27
6.5 Inspection and maintenance information 28

7 Inspection, maintenance and alteration 28
7.1 Inspection 28
7.1.1 General 28
7.1.2 Routine Inspection 28
7.1.3 Annual inspection 29
7.2 Maintenance 29
7.2.1 General 29
7.2.2 Routine maintenance 29
7.2.3 Corrective maintenance 30

7.3 Alteration **30**
8 Marking **30**
9 Documentation **31**
Annex A (normative) **Calculation of number of anchor-points** **32**
Annex B (informative) **The Beaufort Scale of wind force** **33**
Annex C (normative) **Test method for grounding** **34**
Annex D (normative) **Test methods for entrapment** **35**
D.1 General **35**
D.2 Head and neck entrapment **35**
D.3 Entrapment of clothing (Toggle test) **42**
D.4 Finger entrapment **44**
Annex E (normative) **Test method for tear strength** **46**
E.1 Maximum value tongue tear, apparatus **46**
E.2 Preparation of test specimens **46**
E.3 Conditioning **46**
E.4 Preconditioning **47**
E.5 Characteristics of test atmospheres **47**
E.6 Methods of conditioning **47**
E.7 Procedure **47**
E.8 Calculation and expression of results **48**
E.9 Test report **50**
Bibliography **51**