



**NSAI**  
Standards

Irish Standard  
I.S. EN 71-8:2011

## Safety of toys - Part 8: Activity toys for domestic use

## I.S. EN 71-8:2011

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWIFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

*This document replaces:*  
EN 71-8:2003+A4:2009

*This document is based on:*  
EN 71-8:2011

*Published:*  
6 October, 2011

This document was published under the authority of the NSAI and comes into effect on:  
6 October, 2011

**ICS number:**

97.200.50

**NSAI**  
1 Swift Square,  
Northwood, Santry  
Dublin 9

T +353 1 807 3800  
F +353 1 807 3838  
E standards@nsai.ie  
W NSAI.ie

**Sales:**  
T +353 1 857 6730  
F +353 1 857 6729  
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

English Version

## Safety of toys - Part 8: Activity toys for domestic use

Sécurité des jouets - Partie 8: Jouets d'activité à usage familial

Sicherheit von Spielzeug - Teil 8: Aktivitätsspielzeug für den häuslichen Gebrauch

This European Standard was approved by CEN on 3 September 2011.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

## Contents

Page

Foreword.....	4
1 Scope (see A.1) .....	6
2 Normative references .....	6
3 Terms and definitions .....	6
4 Requirements .....	10
4.1 General (see A.2).....	10
4.1.1 Assembly .....	10
4.1.2 Static strength.....	10
4.1.3 Maximum height (see A.3) .....	10
4.1.4 Corners and edges (see A.4) .....	10
4.1.5 Protruding parts.....	10
4.1.6 Diameter of ropes and other means of suspension.....	10
4.2 Barriers, handrails and ladders and similar means of access to activity toys .....	11
4.2.1 Barriers and handrails preventing a child from falling down (see A.5) .....	11
4.2.2 Ladders and similar means of access to activity toys (see A.6) .....	11
4.3 Entrapment (see A.7).....	13
4.3.1 Head and neck entrapment.....	13
4.3.2 Entrapment of clothing and hair .....	13
4.3.3 Entrapment of feet .....	14
4.3.4 Entrapment of fingers .....	14
4.4 Stability of activity toys other than slides, swings and activity toys with crossbeams, and see-saws .....	15
4.4.1 General.....	15
4.4.2 Stability of activity toys with a free height of fall of 600 mm or less.....	15
4.4.3 Stability of activity toys with a free height of fall of more than 600 mm.....	15
4.5 Slides (see A.8) .....	15
4.5.1 Stability of slides .....	15
4.5.2 Retaining sides for slides (see A.9) .....	15
4.5.3 Starting, sliding and run-out sections on slides .....	16
4.6 Swings (see A.10) .....	18
4.6.1 Stability of swings and other activity toys with crossbeams .....	18
4.6.2 Strength of crossbeams, swing devices and suspension connectors .....	19
4.6.3 Swings intended for children under 36 months .....	19
4.6.4 Minimum clearance between adjacent swing elements, and adjacent structures .....	19
4.6.5 Lateral stability of swing elements .....	20
4.6.6 Minimum clearance between swing elements and the ground (see A.11).....	21
4.6.7 Suspension connectors and swing devices .....	21
4.6.8 Impact, geometry and design of swing elements.....	22
4.7 See-saws.....	23
4.7.1 Stability of see-saws .....	23
4.7.2 Seat/stand height.....	23
4.7.3 Restraint of motion.....	23
4.7.4 Pinching and crushing of fingers and toes.....	23
4.7.5 Hand supports.....	23
4.8 Carousels and rocking activity toys (see A.12) .....	23
4.9 Paddling pools .....	24
4.9.1 Static strength of paddling pools with non-inflatable walls.....	24
4.9.2 Paddling pools with inflatable walls .....	24
5 Warnings, markings, and instructions .....	24
5.1 Warnings and markings .....	24
5.1.1 General.....	24

5.1.2	Paddling pools .....	25
5.2	Assembly and installation instructions .....	25
5.3	Maintenance .....	26
6	Test methods .....	27
6.1	General .....	27
6.2	Stability .....	27
6.2.1	Stability of activity toys with a free height of fall of 600 mm or less (see 4.4.2 and 4.8) .....	27
6.2.2	Stability of activity toys with a free height of fall of more than 600 mm (see 4.4.3) .....	29
6.2.3	Stability of slides (see 4.5.1) .....	29
6.2.4	Stability of swings and other activity toys with crossbeams (see 4.6.1) .....	30
6.2.5	Stability of see-saws (see 4.7.1) .....	31
6.3	Static strength .....	32
6.3.1	Strength of activity toys other than swings and paddling pools (see 4.1.2 and 4.8) .....	32
6.3.2	Strength of swings (see 4.6.2) .....	34
6.4	Dynamic strength of barriers and handrails (see 4.2.1) .....	35
6.4.1	Principle .....	35
6.4.2	Apparatus .....	35
6.4.3	Procedure .....	36
6.5	Test for head and neck entrapment (see 4.3.1) .....	36
6.5.1	Head and neck entrapment in accessible completely bound openings (see 4.3.1 a) and 4.3.1 c)) .....	36
6.5.2	Head and neck entrapment in partially bound and V-shaped openings (see 4.3.1 d)) .....	38
6.6	Toggle test (see 4.3.2) .....	41
6.6.1	Principle .....	41
6.6.2	Apparatus .....	41
6.6.3	Procedure .....	42
6.7	Measurements of sliding and run-out sections on slides (see 4.5.3) .....	45
6.7.1	Measurement of inclination of the sliding section on slides (see 4.5.3 f)) .....	45
6.7.2	Measurement of the minimum angle between the sliding section and the run-out section on slides (see 4.5.3 g)) .....	45
6.8	Diameter of ropes and other means of suspension (see 4.1.6) .....	47
6.9	Determination of impact from swing elements (see 4.6.8.2) .....	48
6.9.1	Principle .....	48
6.9.2	Apparatus .....	48
6.9.3	Preparations .....	49
6.9.4	Testing .....	50
6.10	Static load test for paddling pools with non-inflatable walls (see 4.9.1) .....	51
Annex A	(informative) Rationale .....	52
A.1	Activity toys (see scope) .....	52
A.2	General requirements (see 4.1) .....	52
A.3	General requirements (maximum height) (see 4.1.3) .....	52
A.4	Corners and edges (see 4.1.4) .....	52
A.5	Barriers (see 4.2) .....	53
A.6	Ladders and similar means of access to activity toys (see 4.2.2) .....	53
A.7	Entrapment (see 4.3) .....	53
A.8	Slides (see 4.5) .....	53
A.9	Retaining sides for slides (see 4.5.2) .....	53
A.10	Swings (see 4.6) .....	54
A.11	Clearance between swing elements and the ground for crossbeams with a maximum height of 1 200 mm (see 4.6.6) .....	54
A.12	Rocking activity toys and similar toys (see 4.8) .....	55
A.13	Stability of swings and other activity toys with crossbeams (see 6.2.4.1.1) .....	55
Annex B	(informative) Significant technical changes between this European Standard and the previous version .....	56
Annex ZA	(informative) Clauses of this European Standard addressing essential requirements or other provisions of EU Directives .....	58
Bibliography	.....	59

## Foreword

This document (EN 71-8:2011) has been prepared by Technical Committee CEN/TC 52 "Safety of toys", the secretariat of which is held by DS.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2012 and conflicting national standards shall be withdrawn at the latest by March 2012.

This document supersedes EN 71-8:2003+A4:2009.

Annex B provides details of significant technical changes between this European Standard and the previous edition.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this European Standard.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This European Standard constitutes the eight part of the European Standard on safety of toys. It should be read in conjunction with Part 1.

This European Standard for safety of toys consists of the following parts:

- *Part 1: Mechanical and physical properties*
- *Part 2: Flammability*
- *Part 3: Migration of certain elements*
- *Part 4: Experimental sets for chemistry and related activities*
- *Part 5: Chemical toys (sets) other than experimental sets*
- *Part 7: Finger paints — Requirements and test methods*
- *Part 8: Activity toys for domestic use*
- *Part 9: Organic chemical compounds — Requirements*
- *Part 10: Organic chemical compounds — Sample preparation and extraction*
- *Part 11: Organic chemical compounds — Methods of analysis*

NOTE 1 In addition to the above parts of EN 71, the following guidance documents have been published: CEN Report, CR 14379:2002, *Classification of toys - Guidelines*, CEN Technical Report CEN/TR 15071:2005, *Safety of toys - National translations of warnings and instructions for use in EN 71*, and CEN Technical Report CEN/TR 15371:2009, *Safety of toys - Replies to requests for interpretation of EN 71-1, EN 71-2, and EN 71-8*.

NOTE 2 Different legal requirements may exist in non-EU countries.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

## 1 Scope (see A.1)

This European Standard specifies requirements and test methods for activity toys for domestic use often attached to or incorporating a *crossbeam*, and similar toys intended for children under 14 years to play on or in and often intended to bear the mass of one or more children.

This European Standard also specifies requirements for:

- separately sold accessories for, and components of *activity toys*;
- separately sold swing elements that are ready for use on or in combination with an *activity toy*;
- construction packages for *activity toys* including components used to build *activity toys* according to a scheduled building instruction.

The scope of this European Standard excludes:

- playground equipment intended for public use dealt with in EN 1176;
- bow-mounted rocking *activity toys* such as rocking horses and similar toys, which are covered by specific requirements in EN 71-1;
- toy pools with maximum depth of water over 400 mm measured, between the overflow level and the deepest point within the pool;
- toy trampolines.

NOTE 1 Requirements for toy trampolines and non-aquatic inflatable toys are being elaborated.

NOTE 2 There is an enhanced risk of drowning in toy pools where the depth of water is in excess of 400 mm.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 71-1, *Safety of toys — Mechanical and physical properties*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

**3.1 activity toy**  
toy for domestic use, in which the support structure remains stationary while the activity is taking place and which is intended for the performance by a child of any of the following activities: climbing, jumping, swinging, sliding, rocking, spinning, paddling, crawling and creeping, or any combination thereof

NOTE Examples of such toys are *swings*, *slides*, carousels, climbing frames, playhouses and tents, *paddling pools*, non-aquatic inflatable toys. In contrast, ride-on vehicles are not considered as *activity toys*.



This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
  - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-