



AB 904



TÜVRheinland®

Zał. nr 4 PO-TÜV-2

Raport z badań nr: 26631505/2014

Test Report No.:

Strona Page: 1

Stron Pages: 40

Załączniki Annex: 1

<b>Zleceniodawca:</b> <i>Client:</i>	<b>SSFP B.V.</b> Valschermkade 18, 1059 CD Amsterdam	
<b>Przedmiot badania:</b> <i>Test item:</i>	<b>Attachment Slides</b>	
<b>Producent / Klient zew.:</b> <i>Manufacturer / ext. Customer:</i>	<b>SSFP B.V.</b> Valschermkade 18, 1059 CD Amsterdam	
<b>Oznaczenie:</b> <i>Identification:</i>	<b>Patrz -&gt; Identyfikacja przedmiotu badań</b> <i>See -&gt; Identification of test item</i>	<b>Nr seryjny:</b> <i>Serial no.:</i> -
<b>Przyjęcie towaru nr:</b> <i>Receipt no.:</i>	<b>P/14/114</b> P/14/115	<b>Data przyjęcia:</b> <i>Date of receipt:</i> 20.03.2014
<b>Miejsce kontroli:</b> <i>Testing location:</i>	<b>TÜV Rheinland Polska Sp. z o.o.</b> ul. Lutycka 11, 60-415 Poznań	
<b>Podstawa badań:</b> <i>Test specification:</i>	<b>EN 71-1:2011+A2:2013</b> EN 71-2:2011 EN 71-8:2011	
<b>Wynik badania:</b> <i>Test Result:</i>	<b>Przedmiot badania odpowiada w/w podstawie(om) badawczej(ym).</b> <i>The test item passed the test specification(s).</i>	
<b>Opracowane / Compiled by:</b> Laboratorium Badawcze TÜV Rheinland Polska <b>LABORATORIUM MECHANICZNE</b> <b>SPECJALISTA</b> ds. badań mechanicznych <i>Maciej Żukowski</i> M. Żukowski	<b>Autoryzowane / Authorized by:</b> Laboratorium Badawcze TÜV Rheinland Polska <b>LABORATORIUM MECHANICZNE</b> <b>KIEROWNIK</b> ds. technicznych w Pracowni Mechanicznej <i>Wojciech Sajewicz</i> W. Sajewicz	
24.03.2014	M. Żukowski	24.03.2014 W. Sajewicz
<b>data</b> <i>Date</i>	<b>nazwisko</b> <i>Name</i>	<b>podpis</b> <i>Signature</i>
<b>Inne / Other Aspects:</b>		
<i>Construction Details =&gt; see Identification of test item and Photodocumentation</i>		
<i>Szczegóły konstrukcyjne =&gt; patrz Identyfikacja przedmiotu badań oraz Dokumentacja fotograficzna</i>		
<i>Based on Test Report No. 26631481.001/2013 dated 06.09.2013.</i>		
<i>W oparciu o Raport z badań nr 26631481.001/2013 z dnia 06.09.2013</i>		
<b>Skróty:</b>	<i>P(ass) = zgodne z podstawami kontroli</i> <i>F(ail) = niezgodne z podstawami kontroli</i> <i>N/A = nie dotyczy</i> <i>N/T = nie badano</i>	<b>Abbreviations:</b> <i>P(ass) = passed</i> <i>F(ail) = failed</i> <i>N/A = not applicable</i> <i>N/T = not tested</i>

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*This test report relates to the a. m. test samples. Without permission of the test center this test report is not permitted to be duplicated in extracts.*  
*This test report does not allow use marks and logo of TÜV Rheinland Group. Abbreviation A – accredited method, P – subcontracted method.*

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## Identyfikacja przedmiotu badań

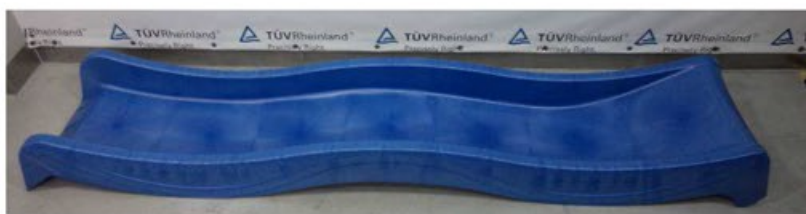
*Identification of test item*

### Attachment Slides

The product is intended for use by children ages 3 to 10 years. The toy requires self-assembly by an adult. The product is made of plastic. The slide may be used by one child. Maximum child's weight is 50 kg.

*Produkt przeznaczony dla dzieci w wieku od 3 do 10 lat. Zabawka wymaga samodzielnego montażu przez osobę dorosłą. Wyrób wykonany z tworzywa sztucznego. Zabawka przeznaczona do użytkowania przez jedną osobę. Maksymalna waga dziecka 50 kg.*

- 1) 2\_324\_xxx HDPE wave slide for assembly height 1,2 – 1,25 m  
 2\_324\_xxx Ślizg HDPE do podestu 1,2 – 1,25 m



Img.1 2\_324\_xxx HDPE wave slide for assembly height 1,2 – 1,25 m

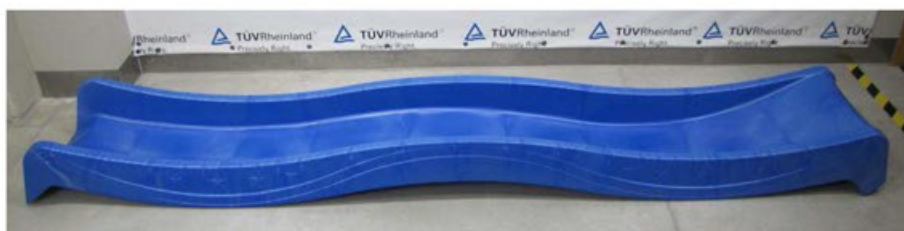
Dimensions (height / width / depth): 2200 / 490 / 200 mm

Weight: 7,16 kg

*Wymiary (wysokość / szerokość / długość): 2200 / 490 / 200 mm*

*Waga: 7,16 kg*

- 2) 2\_334\_xxx HDPE wave slide for assembly height 1,45 - 1,5 m  
 2\_334\_xxx Ślizg HDPE do podestu 1,45 - 1,5 m



Img.1 2\_334\_xxx HDPE wave slide for assembly height 1,45 - 1,5 m

Dimensions (height / width / depth): 2650 / 490 / 200 mm

Weight: 8,52 kg

*Wymiary (wysokość / szerokość / długość): 2650 / 490 / 200 mm*

*Waga: 8,52 kg*

## EN 71-1:2011+A2:2013

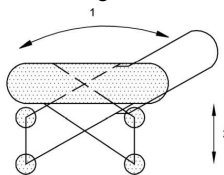
4. General Requirements			
4.1 Material cleanliness (see A.3) <sup>A</sup>			
Wymagania / requirements	Spostrzeżenia / remarks		
Toys and materials used in toys shall be visually clean and free from infestation. The material shall be assessed visually by the unaided eye rather than under magnification.	Material is clean and free from infestation. <i>Tworzywo czyste, nieporażone biotycznie.</i>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T	
	2_324_xxx HDPE wave slide for assembly height 1,2 – 1,25 m		P
	2_334_xxx HDPE wave slide for assembly height 1,45 - 1,5 m		P
4.2 Assembly (see A.4) <sup>A</sup>			
Wymagania / requirements	Spostrzeżenia / remarks		
<p>If a toy is intended to be assembled by a child, the requirements in this European Standard apply to each unit made available to the child and to the assembled toy. The requirements for the assembled toy do not apply to toys where the assembling provides a significant part of the play value of the toy.</p> <p>If a toy is intended to be assembled by an adult, the requirements apply to the assembled toy.</p> <p>Toys intended to be assembled shall be accompanied by detailed assembly instructions, if appropriate. The instructions shall indicate whether it is necessary that an adult assemble the toy or whether the proper assembly shall be checked by an adult before use.</p>	<p>The toy requires self-assembly by adult. <i>Wyrób wymaga montażu przez osobę dorosłą.</i></p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T	
	2_324_xxx HDPE wave slide for assembly height 1,2 – 1,25 m		P
	2_334_xxx HDPE wave slide for assembly height 1,45 - 1,5 m		P
4.3 Flexible plastic sheeting (see A.5 and A.16) <sup>A</sup>			
Wymagania / requirements	Spostrzeżenia / remarks		
<p>Toys with flexible plastic sheeting shall conform to the following requirements:</p> <p>Sheets without any backing and of an area greater than 100 mm x 100 mm shall:</p> <p>a) have an average thickness of 0,038 mm or more when tested according to 8.25.1 (plastic sheeting, thickness), or</p> <p>b) be perforated with defined holes so that a minimum of 1 % of the area has been removed over any area of 30 mm x 30 mm.</p> <p>For plastic balloons, the requirements in 4.3 a) apply to double layers of plastic sheeting (i.e. the thickness is measured without inflating or destroying the balloon).</p>	<p>The toy does not have any plastic sheeting. <i>Zabawka nie posiada elastycznych elementów z folii w swojej konstrukcji.</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T	
4.4 Toy bags			
Wymagania / requirements	Spostrzeżenia / remarks		
	<p>Not applicable <i>Nie dotyczy</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T	

4.5 Glass (see 5.7 and A.6)						
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T				
	Not applicable <i>Nie dotyczy</i>					
4.6 Expanding materials (see A.7)						
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T				
	Not applicable <i>Nie dotyczy</i>					
4.7 Edges						
Wymagania / requirements	Spostrzeżenia / remarks	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T				
<p>Accessible edges shall not present an unreasonable risk of injury.</p> <p>a) Edges of metal or glass are considered as potentially hazardous sharp edges if they are sharp as determined according to 8.11 (sharpness of edges). If the edges fail the test, they shall be assessed to determine whether they present an unreasonable risk of injury taking into account the foreseeable use of the toy. Regardless of the manner in which the edges are finished, they shall be tested according to 8.11.</p> <p>NOTE Edges may be folded, rolled or spiralled in order to make them inaccessible, or protected by a coating of plastic or other similar material.</p> <p>b) In overlap joints, the edges of the sheet metal shall conform to item 4.7 a) when the sheet metal has a thickness of 0,5 or less and the clearance to the underlying surface is greater than 0,7 mm.</p> <p>c) Edges of metal including fastenings (e.g. screw heads) and of rigid polymeric material shall be free from burr capable of causing wounds or abrasion.</p> <p>Flashings on pliable polymeric materials (e.g. polyolefins) are not considered as burr.</p> <p>d) Where it is essential for the functioning of the toy, hazardous sharp functional edges may be used in toys intended for children of 36 months and over. The potential danger presented by such edges shall be drawn to the attention of the user (see 7.6). However, the sharpness of edges of pieces intended to serve as electric conductors, microscope slides and cover slips do not need to be drawn to the attention of the user.</p>	<p>Accessible edges do not present an unreasonable risk of injury.</p> <p><i>Dostępne krawędzie nie powodują nadmiernego ryzyka zranienia.</i></p> <table border="1"> <tr> <td>2_324_xxx HDPE wave slide for assembly height 1,2 – 1,25 m</td> <td>P</td> </tr> <tr> <td>2_334_xxx HDPE wave slide for assembly height 1,45 - 1,5 m</td> <td>P</td> </tr> </table>	2_324_xxx HDPE wave slide for assembly height 1,2 – 1,25 m	P	2_334_xxx HDPE wave slide for assembly height 1,45 - 1,5 m	P	
2_324_xxx HDPE wave slide for assembly height 1,2 – 1,25 m	P					
2_334_xxx HDPE wave slide for assembly height 1,45 - 1,5 m	P					

<b>4.8 Points and metallic wires (see A.9)</b>	
<i>Wymagania / requirements</i>	<i>Spostrzeżenia / remarks</i>
<p>Metallic wires and accessible points shall not present an unreasonable risk of injury.</p> <p>a) Points are considered as potentially hazardous sharp points if they are sharp as determined according to 8.12 (sharpness of points). If the points fail the test, they shall be assessed to determine whether they present an unreasonable risk of injury taking into account the foreseeable use of the toy (see also 5.1 c)). Points of pencils and similar writing and drawing implements are not considered as sharp points.</p> <p>b) Where it is essential for the functioning of the toy, hazardous sharp functional points may be used in toys intended for children of 36 months and over. The potential danger presented by such points shall be drawn to the attention of the user (see 7.6). However, the sharpness of points of pieces intended to serve as electrical conductors do not need to be drawn to the attention of the user.</p> <p>c) Metallic wires and other metallic components that are designed and intended to be bent, for example, in order to change the shape or position of a toy or part of a toy (e.g. in soft-filled toys), shall not break and produce hazardous sharp points, or protrude through any surface covering of the toy, when tested according to 8.13.2 (metallic wires and other metallic components intended to be bent).</p> <p>d) Metallic wires that are not designed to be bent but are likely to occasionally or accidentally be bent during play shall not break and produce hazardous sharp points, or protrude through any surface covering of the toy, when tested according to 8.13.3 (metallic wires likely to be bent).</p> <p>e) Splinters on surfaces and accessible edges of toys shall not present an unreasonable risk of injury taking into account the foreseeable use of the toy.</p>	<p>No metallic components with sharp points and wires.  <i>Brak elementów metalowych posiadających ostre punkty oraz krawędzie.</i></p> <div style="text-align: right;"> <input type="checkbox"/> <b>P</b>  <input type="checkbox"/> <b>F</b>  <input checked="" type="checkbox"/> <b>N/A</b>  <input type="checkbox"/> <b>NT</b> </div>

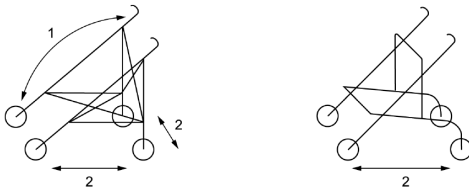
<b>4.9 Protruding parts (see A.10)</b>		
<i>Wymagania / requirements</i>	<i>Spostrzeżenia / remarks</i>	
<p>Tubes and rigid components in the form of projections which constitute a puncture hazard to a child shall be protected. This protection shall not be removed when tested according to 8.4.2.3 (tension test, protective components).</p> <p>The ends of spokes on toy umbrellas shall be protected. If the protection is removed when tested according to 8.4.2.3 (tension test, protective components), the ends of the spokes shall be free from hazardous sharp edges and hazardous sharp points when tested according to 8.11 (sharpness of edges) and 8.12 (sharpness of points). In addition, if the protection is removed, the spokes shall have a diameter of 2 mm or more and shall have ends with no burr and a smooth, rounded and approximately spherical finish.</p>	<p>There are no protruding parts which may cause a puncture hazard to a child.</p> <p><i>Brak wystających końców elementów konstrukcyjnych zabawki mogących powodować zagrożenie dla dziecka.</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
<b>4.10 Parts moving against each other</b>		
<b>4.10.1 Folding and sliding mechanisms (see A.11)</b>		
<i>Wymagania / requirements</i>	<i>Spostrzeżenia / remarks</i>	
<p>The requirements in 4.10.1 do not apply to toys with a potential sitting surface width of less than 140 mm.</p> <p>Toys with folding and sliding mechanisms shall conform to the following requirements:</p> <p>a) Toy pushchairs and perambulators incorporating a handle or other structural member which can fold down over a child, shall have at least one main locking device and at least one secondary locking device, both of which shall act directly on the folding mechanism.</p> <p>At least one of the locking devices shall automatically engage when the toy is erected.</p> <p>When tested according to 8.18.2 a) (toy pushchairs and perambulators), the toy shall not collapse nor shall either of the locking devices fail or disengage.</p> <p>Two devices of the same construction (e.g. locking rings), one on the left-hand side and one on the right-hand side of the toy, are considered to be one locking device.</p> <p>If it is possible to partially erect a toy pushchair or perambulator without one of the locking devices being engaged, the test of 8.18.2 a) (toy pushchairs and perambulators) shall be performed in this orientation.</p> <p>An example of a toy pushchair or perambulator covered by 4.10.1 a) is illustrated in Figure 7.</p> <p>NOTE Partially erect means erected in such a way that the user might wrongly believe the toy to be fully erect.</p>	<p>Not applicable</p> <p><i>Nie dotyczy</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T

- b) Toy pushchairs and perambulators that do not otherwise constitute a hazard of a handle or other structural member folding down over a child, shall have at least a locking device or a safety stop, which may be manual in operation.
- When tested according to 8.18.2 b) (toy pushchairs and perambulators) the toy shall not collapse nor shall the locking device or safety stop fail or disengage.
- If it is possible to partially erect a toy pushchair or perambulator without a locking device being engaged, the test of 8.18.2 b) shall be performed in this orientation (see also Note in 4.10.1 a)).
- Examples of toy pushchairs covered by 4.10.1 b) are illustrated in Figure 8.



Key  
 1 handle movement  
 2 chassis movement

Figure 7 — Example of toy pushchair or perambulator covered by 4.10.1 a)



Key  
 1 handle movement  
 2 chassis movement

Figure 8 — Examples of toy pushchairs covered by 4.10.1 b)

- c) Folding devices on other collapsible toys (e.g. ironing boards, folding chairs and tables etc.) which may have a scissor-like action:
- 1) shall have a safety stop or locking device. When tested according to 8.18.3 (other collapsible toys), the toy shall not collapse nor shall the locking device fail or disengage, and
  - 2) shall have a clearance of 12 mm or more between moving parts which constitute a scissor-like action.
- d) Toys other than those covered by 4.10.1 a), b) or c), with folding or sliding mechanisms intended to bear or capable of bearing the mass of a child and capable of injuring fingers, shall be so constructed that the space between moving elements shall also allow a 12 mm diameter rod to be inserted if it allows a 5 mm diameter rod to be inserted.



<b>4.10.2 Driving mechanisms (see A.12)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.10.3 Hinges (see A.13)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.10.4 Springs (see A.14)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.11 Mouth-actuated toys and other toys intended to be put in the mouth (see A.15)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.12 Balloons (see 4.3 and A.16)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.13 Cords of toy kites and other flying toys (see A.17)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.14 Enclosures</b>		
<b>4.14.1 Toys which a child can enter (see A.18)<sup>A</sup></b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.14.2 Masks and helmets (see A.19)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.15 Toys intended to bear the mass of a child (see A.20)</b>		
<b>4.15.1 Toys propelled by a child or by other means</b>		
<b>4.15.1.1 General</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	

<b>4.15.1.2 Warnings and instructions for use</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.15.1.3 Strength</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.15.1.4 Stability</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.15.1.5 Braking</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.15.1.6 Transmission and wheel arrangement</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.15.1.7 Adjustable seat pillar and handlebar stem minimum insertion marks</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.15.1.8 Electrically-driven ride-on toys</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.15.2 Toy bicycles (see A.20)</b>		
<b>4.15.2.1 General</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.15.2.2 Warnings and instructions for use</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.15.2.3 Braking requirements</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	

<b>4.15.3 Rocking horses and similar toys (see A.21)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.15.4 Toys not propelled by a child</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.15.5 Toy scooters (see A.49)</b>		
<b>4.15.5.1 General</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.15.5.2 Warnings and instructions for use</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.15.5.3 Strength</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.15.5.4 Adjustable and folding steering tubes</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.15.5.5 Braking</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.15.5.6 Wheel size</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.15.5.7 Protruding parts</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.16 Heavy immobile toys</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	

<b>4.17 Projectiles (see A.22)</b>		
<b>4.17.1 General</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.17.2 Projectile toys without stored energy</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.17.3 Projectile toys with stored energy</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.17.4 Bows and arrows</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.18 Aquatic toys and inflatable toys (see A.23)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.19 Percussion caps specifically designed for use in toys and toys using percussion caps (see A.24)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.20 Acoustics (see A.25)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.21 Toys containing a non-electrical heat source</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.22 Small balls (see 5.10 and A.48)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.23 Magnets (see A.51)</b>		
<b>4.23.1 General</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	

<b>4.23.2 Toys other than magnetic/electrical experimental sets intended for children over 8 years</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.23.3 Magnetic/electrical experimental sets intended for children over 8 years</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.24 Yo-yo balls (see A.52)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.25 Toys attached to food (see A.55)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>5 Toys intended for children under 36 months</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
<p>Toys intended for children under 36 months shall in addition to relevant requirements of Clause 4 conform to the following requirements, where applicable.</p> <p>NOTE According to Directive 2009/48/EC the following safety requirements apply regarding cleaning and washing: "A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The toy must fulfil the safety requirements also after having been cleaned in accordance with this point and the manufacturer's instructions." The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned. This information is not exhaustive and Directive 2009/48/EC and the associated guidance documents should be consulted for further details.</p>	<p>The toy is not intended for children under 36 months. The toy is intended by manufacturer for use by children in age 3 – 10.</p> <p>During testing according to point 5.1 toys did not produce any sharp edges/points or any parts which, whatever their position, fit entirely in the cylinder.</p> <p><i>Zabawka nie przeznaczona dla dzieci poniżej 36 miesięcy.</i></p> <p><i>Rekomendowany przez producenta wiek dzieci, dla których zabawka jest przeznaczona to 3 – 10 lat.</i></p> <p><i>Podczas badań zgodnie z punktem 5.1 nie pojawiły się ostre punkty lub krawędzie ani żadne małe części mieszczące się w cylindrze do badań.</i></p>	

<b>5.1 General requirements (see A.26)</b>	
<i>Wymagania / requirements</i>	<i>Spostrzeżenia / remarks</i>
<p>The requirements in 5.1 do not apply to the following:</p> <ul style="list-style-type: none"> <li>– paper, fabric, elastics, yarn, strings and fuzz;</li> <li>– crayons, chalks, pencils and similar writing and drawing implements without removable components;</li> <li>– balloons;</li> <li>– modelling clay and similar products.</li> </ul> <p>However, tightly packed stuffed components made of fabric and/or yarn are not excluded from the general requirements of 5.1.</p> <p>The general requirements are as follows:</p> <p>a) Toys and removable components of toys shall not, whatever their position, fit entirely in the cylinder when tested according to 8.2 (small parts cylinder) (see A.26).</p> <p>b) When tested according to 8.3 (torque test), 8.4.2.1 (tension test, general), 8.5 (drop test), 8.7 (impact test) and 8.8 (compression test), toys shall not produce any parts which, whatever their position, fit entirely in the cylinder when tested according to 8.2 (small parts cylinder), or exhibit accessible hazardous sharp edges (see 8.11, sharpness of edges), or accessible hazardous sharp points (see 8.12, sharpness of points), and toys with springs shall continue to conform to the requirements in 4.10.4 (springs). Toys that contain magnets or magnetic components shall also fulfil the requirements given in 4.23.2 b) and c) with the addition that release of magnets or magnetic components with a magnetic flux index less than <math>50 \text{ kG}^2\text{mm}^2</math> (<math>0,5 \text{ T}^2\text{mm}^2</math>) is not permitted if the released magnets fit entirely in the cylinder when tested according to 8.2 (small parts cylinder).</p> <p>c) Metal points and wires with a cross section of 2 mm or less that do not necessarily present a sharp point according to 8.12 (sharpness of points) are considered to be potentially hazardous sharp points. They shall therefore be assessed to determine whether they present an unreasonable risk of injury taking into account the foreseeable use of the toy (see also A.9).</p> <p>d) Large and bulky toys shall be tested according to 5.1 b) above with the exclusion of 8.5 (drop test) and with the inclusion of a test according to 8.6 (tip over test).</p>	<p>⇒ See EN 71-1:2011+A2:2013 point 5.</p> <p>⇒ <i>Patrz EN 71-1:2011+A2:2013 punkt 5.</i></p> <div style="text-align: right;"> <input type="checkbox"/> <b>P</b>  <input type="checkbox"/> <b>F</b>  <input checked="" type="checkbox"/> <b>N/A</b>  <input type="checkbox"/> <b>NT</b> </div>

<p>The requirement in 5.1 e) does not apply to large and bulky toys and books and other items of paper and paperboard.</p> <p>e) Glued wooden toys and toys with glued-on plastic decals shall be tested according to 8.9 (soaking test) before being tested according to 5.1 b). Flakes of paint that have come loose from painted toys are exempt from being tested according to 8.2 (small parts cylinder). Thick surface coatings such as varnish are not exempt.</p> <p>f) The casing of toys intended for children too young to sit up unaided, shall not crack when tested according to 5.1 b). A crack may be accepted if it clearly does not create a hazard (see also A.26).</p> <p>g) For foam toys and toys containing accessible foam components, clamps and test fixtures used to perform the tests shall not damage the toy or component such as to affect the results when tested according to 8.3 (torque test) and 8.4.2.1 (tension test, general).</p>		
<b>5.2 Soft-filled toys and soft-filled parts of a toy (see A.27)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>5.3 Plastic sheeting (see A.28)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>5.4 Cords, chains and electrical cables in toys (see A.29)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>5.5 Liquid-filled toys (see A.30)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>5.6 Speed limitation of electrically-driven ride-on toys</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>5.7 Glass and porcelain (see 4.5 and A.6)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	

<b>5.8 Shape and size of certain toys (see A.31)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>5.9 Toys comprising monofilament fibres (see A.32)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>5.10 Small balls (see also 4.22 and A.48)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>5.11 Play figures</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>5.12 Hemispheric-shaped toys (see A.50)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>5.13 Suction cups (see A.54)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>5.14 Straps intended to be worn fully or partially around the neck (see A.53)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	




<b>6 Packaging (see A.56)</b>	
<i>Wymagania / requirements</i>	<i>Spostrzeżenia / remarks</i>
<p>The requirement in Clause 6 a) does not apply to:</p> <ul style="list-style-type: none"> <li>– shrunk-on film packaging, which is normally destroyed when the packaging is opened by the user;</li> <li>– perforated plastic sheeting and bags made of perforated sheets which conform to the requirements in 4.3 b);</li> <li>– plastic sheeting with backing or of an area equal to, or less than, 100 mm × 100 mm.</li> </ul> <p>The packaging of toys shall conform to the following requirements:</p> <p>a) Plastic sheeting and bags made of flexible plastics with an opening perimeter greater than 380 mm used for external or internal packaging, shall have an average sheet thickness of 0,038 mm or more when tested according to 8.25.1 (plastic sheeting, thickness).</p> <p>b) Bags made of flexible plastics with an opening perimeter greater than 380 mm shall not have a drawstring or cord as a means of closing.</p> <p>c) The requirements in 5.10 (small balls) apply to packaging and packaging components that are small balls regardless of the intended age group of the toy.</p> <p>d) Regardless of the intended age group of the toy, any separable part of its packaging, which is a small ball or that has a cylindrical shape with a rounded end shall not pass entirely through template E when tested according to 8.32.1 (small balls and suction cups). This requirement does not apply to parts with a major dimension of 64 mm or more, or parts that are attached to another part of the packaging with an attachment that does not break when tested according to 8.3 (torque test) and 8.4.2.1 (tension test, general).</p> <p>e) The requirements in 5.12 (hemispheric shaped toys) apply to hemispheric-shaped containers that are part of the packaging for toys intended for children under three.</p>	<p>For testing the product has been sent packed in plastic bag with thickness more than 0,038 mm.</p> <p><i>Do badań dostarczono wyrób zapakowany są w torbę foliową o grubości powyżej 0,038 mm.</i></p> <div style="text-align: right;"> <input checked="" type="checkbox"/> <b>P</b>  <input type="checkbox"/> <b>F</b>  <input type="checkbox"/> <b>N/A</b>  <input type="checkbox"/> <b>NT</b> </div>

7 Warnings, markings and instructions for use (see A.33) <sup>A</sup>	
Wymagania / requirements	Spostrzeżenia / remarks
<p>NOTE The text of this note is for information only and the indents do not constitute requirements of this European Standard. The information is not exhaustive and Directive 2009/48/EC and the associated guidance documents should be consulted for further details.</p> <ul style="list-style-type: none"> <li>- Toys made available on the market must bear the CE marking. The CE marking is subject to the general principles set out in Article 30 of Regulation (EC) No 765/2008. The CE marking must be affixed visibly, legibly and indelibly to the toy, to an affixed label or to the packaging. In the case of small toys and toys consisting of small parts, the CE marking may alternatively be affixed to a label or an accompanying leaflet. Where, in the case of toys sold in counter displays, that is not technically possible, and on condition that the counter display was originally used as packaging for the toy, the CE marking may be affixed to the counter display. Where the CE marking is not visible from outside a packaging, it shall as a minimum be affixed to the packaging. Where specific legislation does not impose specific dimensions, the CE marking must be at least 5 mm high.</li> <li>- The manufacturer's <sup>2</sup> name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy. This requirement applies also to the name and address etc. of any importer<sup>3</sup>.</li> <li>- Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.</li> <li>- Manufacturers and importers must ensure that the toy is accompanied by instructions and safety information in a language or languages easily understood by consumers, as determined by the Member State concerned.</li> <li>- A Member State may, within its territory, stipulate that warnings and safety instructions shall be written in a language or languages easily understood by consumers, as determined by that Member State.</li> <li>- Information relating to the age grading of toys and, in particular, which toys are intended for children under 36 months and which toys are not, can be found in CR 14379, the CPSC Age determination guidelines, CEN Guide 11 and the European Commission's Guidance Documents.</li> </ul>	<p>Marking fulfills the standard requirements. <i>Oznakowanie spełnia wymagania normy.</i></p>

P  
 F  
 N/A  
 N/T

<b>7.1 General<sup>A</sup></b>	
<i>Wymagania / requirements</i>	<i>Spostrzeżenia / remarks</i>
<p>Warnings on toys shall not be misleading or incorrect. Toys intended for children under 36 months shall comply with the requirements in Clause 5. A warning on a toy or its packaging does not release the manufacturer or his authorized representative from the obligation to meet these requirements.</p> <p>A toy shall not bear a warning that conflicts with the intended use of the toy, as determined by virtue of its function, dimension and characteristics.</p> <p>The warnings shall be preceded by the words "Warning" or "Warnings", as appropriate (i.e. instead of repeating the word "Warning" before each warning when several of the warnings in Clause 7 are present, the word "Warnings" may be used once). The word "Warning" or "Warnings" may be followed by punctuation, e.g. an exclamation mark.</p> <p>The manufacturer shall mark the warnings in a clearly visible, easily legible and understandable and accurate manner on the toy, on an affixed label or on the packaging. In addition, if appropriate, the warnings shall be included in the instructions for use which accompany the toy.</p> <p>In the following clauses, the location of the warnings is therefore indicated (on the toy itself, on the packaging, in the instructions for use, on an accompanying leaflet). Warnings which determine the decision to purchase the toy shall appear on the consumer packaging or be otherwise clearly visible to the consumer before the purchase.</p> <p>Small toys that are sold without packaging (for example from a display box or from a vending machine) shall have the appropriate warnings affixed to them. In all cases the warning shall be clearly legible at the point of sale. It is not sufficient to place the warning(s) only on a display box.</p> <p>NOTE The requirement that warnings must be clearly visible to the consumer at the time of purchase applies also in cases where the purchase is made on-line (e.g. internet) or by catalogue or by other means where the buyer does not have access to the toy at the time of purchase.</p> <p>In the following sub-clauses a requirement, that a toy shall carry a warning shall mean that the warning shall appear on the toy itself.</p>	<p>⇒ See PN-EN 71-1:2011+A2:2013 point 7.</p> <p>⇒ <i>Patrz PN-EN 71-1:2011+A2:2013 punkt 7.</i></p> <p> <input checked="" type="checkbox"/> <b>P</b>  <input type="checkbox"/> <b>F</b>  <input type="checkbox"/> <b>N/A</b>  <input type="checkbox"/> <b>N/T</b> </p>

<b>7.2 Toys not intended for children under 36 months (see 4.22 and A.34)<sup>A</sup></b>	
<i>Wymagania / requirements</i>	<i>Spostrzeżenia / remarks</i>
<p>The provisions in 7.2 do not apply to toys which, on account of their function, dimensions, characteristics, properties or other cogent grounds, are clearly unsuitable for children under 36 months. Toys which are not intended for but might be dangerous for children under 36 months shall be accompanied by a warning, such as:</p> <p>"Warning. Not suitable for children under 36 months" or "Warning. Not suitable for children under three years"</p> <p>together with a brief indication of the specific hazard calling for this restriction. The hazard is the potential source of harm. Harm means physical injury or any other damage to health, including long term health effect.</p> <p>When more than one hazard is present, at least one of the principal hazards shall be indicated.</p> <p>If the hazard (the potential source of harm) cannot be considered to be obvious to consumers, the hazard indication shall be supplemented by a clear description of the harm in order to explain the warning as a whole (e.g. "Long cord. Strangulation hazard" or "Small ball. Choking hazard").</p> <p>The harm may be referred to using e.g. the terms "Choking hazard" and "Strangulation hazard" since this is well established. However, it is never sufficient to indicate the harm alone (choking, strangulation etc.). In cases where it is well known which harm a product characteristic can cause (for example that "small parts" can cause choking) it is sufficient to indicate the hazard alone. It is, however, always permitted to mention both the hazard and the harm (e.g. "Small parts. Choking hazard").</p> <p>Examples of acceptable warnings, together with brief indications of the specific hazard and, in the second example, a clear description of the harm, are:</p> <p>"Warning. Not suitable for children under 36 months. Small parts"</p> <p>"Warning. Not suitable for children under 36 months. Long cord. Strangulation hazard"</p> <p>The manufacturer shall provide appropriate information about the hazard(s) through the examples mentioned above or through other sentences that achieve the same result. The age warning shall be clearly legible at the point of sale of the product and shall appear either on the toy itself or on its packaging. The indication of the specific hazard may appear in a leaflet or in the instructions for use, instead of on the toy or on the packaging.</p> <p>The phrase: "Not suitable for children under 36 months" or "Not suitable for children under three years" may be substituted by the symbol as specified in Figure 17.</p>	<p>Toys are accompanied by suitable warnings.  <i>Zabawki zawierają odpowiednie ostrzeżenia.</i></p> <div style="text-align: right;"> <input checked="" type="checkbox"/> <b>P</b>  <input type="checkbox"/> <b>F</b>  <input type="checkbox"/> <b>N/A</b>  <input type="checkbox"/> <b>N/T</b> </div>

 <p>Figure 17 — Age-warning symbol</p> <p>The age warning symbol shall be accompanied by the word "Warning".</p> <p>The details of the design shall be as follows:</p> <ul style="list-style-type: none"> <li>- the circle and the stroke shall be red;</li> <li>- the background shall be white;</li> <li>- the age range and the outline of the face shall be black;</li> <li>- the symbol shall have a diameter of at least 10 mm and the proportions between its different elements shall be such as those prescribed in Figure 17.</li> </ul> <p>The symbol shall be used to indicate only "0 to 3" years and not for any other age-grade warning to avoid misinterpretation of the symbol.</p>		
<b>7.3 Latex balloons (see 4.12 and A.16)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable Nie dotyczy	
<b>7.4 Aquatic toys (see 4.18 and A.23)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable Nie dotyczy	
<b>7.5 Functional toys (see A.35)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable Nie dotyczy	
<b>7.6 Hazardous sharp functional edges and points (see 4.7 and 4.8)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable Nie dotyczy	
<b>7.7 Projectiles (see 4.17.3 c) and 4.17.4 c))</b>		
<b>7.7.1 Toys with projectiles which are able to discharge an object other than that provided with the toy</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable Nie dotyczy	
<b>7.7.2 Toys capable of discharging a projectile with a kinetic energy greater than 0,08 J</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable Nie dotyczy	

<b>7.8 Imitation protective masks and helmets (see 4.14.2 and A.19)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>7.9 Toy kites (see 4.13)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>7.10 Roller skates, inline skates, skateboards and certain other ride-on toys (see 4.15.1.2 and A.20)</b>		
<b>7.10.1 Roller skates, inline skates and skateboards</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>7.10.2 Ride-on toys without a braking device</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>7.10.3 Electrically-driven ride-on toys</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>7.10.4 Instructions for use</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>7.11 Toys intended to be attached to or strung across a cradle, cot, or perambulator (see 5.4 f)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>7.12 Liquid-filled teethingers (see 5.5)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>7.13 Percussion caps specifically designed for use in toys (see 4.19)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>7.14 Acoustics (see 4.19 and 4.20 f)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	

<b>7.15 Toy bicycles (see 4.15.2.2)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>7.16 Toys intended to bear the mass of a child (see 4.15.1.2, 4.15.2.2, 4.15.3 and 4.15.4)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>7.17 Toys comprising monofilament fibres (see 5.9)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>7.18 Toy scooters (see 4.15.5.2)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>7.19 Rocking horses and similar toys (see 4.15.3 and A.21)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>7.20 Magnetic/electrical experimental sets (see 4.23.3 and A.51)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>7.21 Toys with electrical cables exceeding 300 mm in length (see 5.4 i)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>7.22 Toys with cords or chains intended for children of 18 months and over but under 36 months (see 5.4 b), 5.4 c) and 5.4 g))</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	

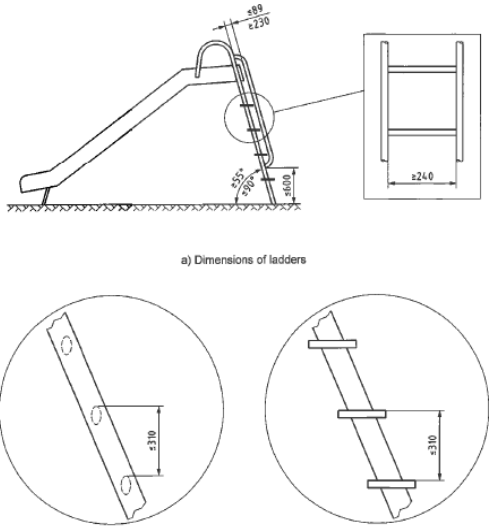
## EN 71-8:2011

4. Requirements						
4.1 General (see A.2)						
4.1.1 Assembly <sup>A</sup>						
Wymagania / requirements	Spostrzeżenia / remarks					
Activity toys shall be assembled using self-locking mechanisms which, to avoid unintentional disassembling due to dynamic forces during use, may include spring washers and/or self-locking nuts. NOTE Self-taping screws or nails are considered as self-locking devices.	Only slides have been sent for testing. <i>Do badań przestano wyłącznie ślizgi.</i>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> NT				
4.1.2 Static strength <sup>A</sup>						
Wymagania / requirements	Spostrzeżenia / remarks					
Activity toys other than swings and paddling pools, when tested according to 6.3.1 (strength of activity toys other than swings and paddling pools), shall not collapse such that they do not continue to comply with the relevant requirements of EN 71-1.	The item fulfills the standard requirements. <i>Wyrób spełnia wymagania normy.</i>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> NT				
	<table border="1"> <tr> <td>2_324_xxx HDPE wave slide for assembly height 1,2 – 1,25 m</td> <td>P</td> </tr> <tr> <td>2_334_xxx HDPE wave slide for assembly height 1,45 - 1,5 m</td> <td>P</td> </tr> </table>	2_324_xxx HDPE wave slide for assembly height 1,2 – 1,25 m	P	2_334_xxx HDPE wave slide for assembly height 1,45 - 1,5 m	P	
2_324_xxx HDPE wave slide for assembly height 1,2 – 1,25 m	P					
2_334_xxx HDPE wave slide for assembly height 1,45 - 1,5 m	P					
4.1.3 Maximum height (see A.3) <sup>A</sup>						
Wymagania / requirements	Spostrzeżenia / remarks					
When measured from the ground, there shall be no part of the activity toy where the child is able to climb, sit or stand above a height of 2500 mm.	The manufacturer defines the maximum height of assembling the slide as indicated in the table below. <i>Producent deklaruje, że maksymalna wysokość przykręcenia ślizgu wynosi jak podano w tabeli poniżej.</i>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> NT				
	<table border="1"> <tr> <td>2_324_xxx HDPE wave slide for assembly height 1,2 – 1,25 m</td> <td>P</td> </tr> <tr> <td>2_334_xxx HDPE wave slide for assembly height 1,45 - 1,5 m</td> <td>P</td> </tr> </table>	2_324_xxx HDPE wave slide for assembly height 1,2 – 1,25 m	P	2_334_xxx HDPE wave slide for assembly height 1,45 - 1,5 m	P	
2_324_xxx HDPE wave slide for assembly height 1,2 – 1,25 m	P					
2_334_xxx HDPE wave slide for assembly height 1,45 - 1,5 m	P					
4.1.4 Corners and edges (see A.4) <sup>A</sup>						
Wymagania / requirements	Spostrzeżenia / remarks					
Exposed edges shall be rounded. Corners and exposed edges on moving parts shall have a minimum radius of 3 mm. This requirement does not apply to swing elements with a mass of 1000 g or less, the corners and edges of which shall be rounded.	⇒ See PN-EN 71-1:2011+A2:2013, p. 4.7 ⇒ <i>Patrz PN-EN 71-1:2011+A2:2013, p. 4.7</i>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> NT				
4.1.5 Protruding parts <sup>A</sup>						
Wymagania / requirements	Spostrzeżenia / remarks					
Protruding parts such as bolt ends, threaded bolt ends and other protrusions shall be recessed or be protected in such a way that they do not constitute a hazard to users of the equipment. This requirement is applicable when protrusions are situated on accessible moving parts and in places where the user is running, sliding, climbing, sitting or lying down.	⇒ See PN-EN 71-1:2011+A2:2013, p. 4.9 ⇒ <i>Patrz PN-EN 71-1:2011+A2:2013, p. 4.9</i>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> NT				



4.1.6 Diameter of ropes and other means of suspension		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
4.2 Barriers, handrails and ladders and similar means of access to activity toys		
4.2.1 Barriers and handrails preventing the child from falling down (see A.5) <sup>A</sup>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
<p>Any platform 1000 mm or more from the ground shall be equipped with a barrier on all sides that face outwards from the toy.</p> <p>Openings in the barriers to give access to slides, climbing structures and ladders are allowed.</p> <p>The minimum height of the barrier shall be 600 mm.</p> <p>For barriers with an uneven top design, a ruler of (200 ± 5) mm shall be used for measuring minimum height. Place the ruler horizontally on top of the barrier. Measure the vertical distance between the platform and the bottom of the ruler. The distance shall in no place be less than 600 mm.</p> <p>NOTE Special requirements apply to slides (see 4.5.2 and 4.5.3)</p> <p>After testing according to 6.4 (dynamic strength of barriers and handrails), no part of the barrier or handrail shall collapse so that the toy does not comply with the relevant requirements of EN 71-1.</p>	<p>Only slides have been sent for testing. <i>Do badań przesłano wyłącznie ślizgi.</i></p>	

#### 4.2.2 Ladders and similar means of access to activity toys (see A.6)<sup>A</sup>

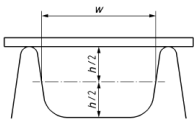
Wymagania / requirements	Sposzczenia / remarks	
<p>The requirements in 4.2.2 do not apply to activity toys with a platform height of 600 mm or less.</p> <p>Ladders and similar means of access to activity toys shall comply with the following requirements:</p> <ol style="list-style-type: none"> <li>any opening shall comply with 4.3.1 (head and neck entrapment);</li> <li>where a ladder or a stair is used, the lateral width of the tread or rung shall be 240 mm or more (see Figure 3 a));</li> <li>the distance between the upper surfaces of the treads or rungs shall not exceed 310 mm when measured vertically as indicated in Figure 3 b). This requirement does not apply to the vertical distance between the ground and the upper surface of the first step;</li> <li>the surface of the tread shall not be slippery. This can be achieved by corrugation of the steps or by the use of non-slippery types of materials;</li> <li>when ladders are provided with rungs, the cross-sectional dimension of the rungs shall be not less than 16 mm and not more than 45 mm;</li> <li>the depth of treads on closed step ladders shall be 120 mm or more;</li> <li>the inclination for ladders that are fixed to a toy shall be between 55° and 90° to the horizontal;</li> <li>ladders any part of which reaches a height of 1200 mm or more from the ground shall be provided with handrails from a height of not more than 600 mm from the ground to the top of the platform (see Figure 3 a)). This requirement does not apply to ladders with rungs.</li> </ol>  <p>a) Dimensions of ladders</p> <p>b) Details of a step ladder</p> <p>Figure 3 — Ladders</p>	<p>Only slides have been sent for testing. Do badań przesłano wyłącznie ślizgi.</p>	<p><input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T</p>

4.3 Entrapment (see A.7)					
4.3.1 Head and neck entrapment <sup>A</sup>					
Wymagania / requirements	Spostrzeżenia / remarks				
<p>Activity toys shall be constructed so that no openings create head and neck entrapment hazards either by head first or feet first passage.</p> <p>NOTE Hazardous situations in which this type of entrapment can be encountered include the following:</p> <ul style="list-style-type: none"> <li>– completely bound openings through which a user can slide head first or feet first;</li> <li>– partially bound or V-shaped openings; and</li> <li>– shearing and moving openings.</li> </ul> <p>When choosing materials, the manufacturer shall take into account the entrapment hazards that can occur due to distortion of material during use.</p> <p>a) All accessible completely bound openings with a lower edge of 600 mm or more above the ground, or above any other surface which is of such a size that it will support a child, shall, if they allow passage of probe C (see Figure 17), also allow passage of probe D (see Figure 18), when tested according to 6.5.1 (head and neck entrapment in accessible completely bound openings).</p> <p>b) Accessible rigid circular openings with a lower edge of 600 mm or more above the ground, or above any other surface which is of such a size that it will support a child, shall not have an internal diameter between 130 mm and 230 mm.</p> <p>c) Partially bound and V-shaped openings with a lower edge of 600 mm or more above the ground, or above any other surface which is of such a size that it will support a child, shall be constructed so that either:</p> <ol style="list-style-type: none"> <li>3) the opening is not accessible as defined in Figure 20, when tested according to 6.5.2.3 a) (head and neck entrapment in partially bound and V-shaped openings); or</li> <li>4) the tip of template E (see Figure 19) contacts the base of the opening, when tested according to 6.5.2.3 b) (head and neck entrapment in partially bound and V-shaped openings).</li> </ol> <p>d) Non-rigid members (for example ropes) shall not overlap if by doing so they create openings that do not comply with the requirements in 4.3.1 a).</p> <p>e) Openings between flexible parts of suspended bridges and any rigid side members shall not be less than 230 mm in diameter under the most onerous condition of loading. Both loaded and unloaded situations shall be considered.</p>	<p>There are no openings in slides which may cause risk of entrapment of the head, neck.</p> <p><i>W ślizgach nie występują miejsca mogące powodować zakleszczenie głowy, szyi użytkownika.</i></p> <table border="1"> <tr> <td>2_324_xxx HDPE wave slide for assembly height 1,2 – 1,25 m</td> <td>P</td> </tr> <tr> <td>2_334_xxx HDPE wave slide for assembly height 1,45 - 1,5 m</td> <td>P</td> </tr> </table>	2_324_xxx HDPE wave slide for assembly height 1,2 – 1,25 m	P	2_334_xxx HDPE wave slide for assembly height 1,45 - 1,5 m	P
2_324_xxx HDPE wave slide for assembly height 1,2 – 1,25 m	P				
2_334_xxx HDPE wave slide for assembly height 1,45 - 1,5 m	P				

P  
 F  
 N/A  
 N/T

4.3.2 Entrapment of clothing and hair <sup>A</sup>						
Wymagania / requirements	Spostrzeżenia / remarks					
<p>a) Slides, fireman's poles and roofs shall be constructed so that hazardous situations in which clothing or hair can be entrapped are not created. Such situations may be created by:</p> <ol style="list-style-type: none"> <li>1) gaps or V-shaped openings in which parts of clothing can become entrapped while, or immediately before, the user is undergoing a forced movement;</li> <li>2) protrusions; and</li> <li>3) spindles/rotating parts.</li> </ol> <p>When tested according to 6.6 (toggle test), entrapment of the toggle or chain shall not occur.</p> <p>Application of the toggle test, as described in 6.6, is restricted to the free space, as practical experience has shown that natural material and connections between different parts can vary over time.</p> <p>NOTE 1 When using elements of circular cross-section, special consideration should be given to avoid clothing and hair entanglement. This can be achieved by using spacers or similar devices.</p> <p>b) Slides and fireman's poles shall be constructed so that openings located within the free space do not entrap the toggle or chain when tested according to 6.6 (toggle test),</p> <p>c) Roofs shall be constructed so that they do not entrap the toggle or chain when tested according to 6.6 (toggle test).</p> <p>d) Spindles and rotating parts shall have means of preventing entanglement of clothing or hair.</p> <p>NOTE 2 Prevention of entanglement can be achieved by use of suitable covering or shields.</p>	<p>There are no gaps in slides which may cause risk of entrapment of the clothing or hair.</p> <p><i>W ślizgach nie występują miejsca mogące powodować zakleszczenie ubrań lub włosów.</i></p> <table border="1"> <tr> <td>2_324_... HDPE wave slide for assembly height 1,2 – 1,25 m</td> <td>P</td> </tr> <tr> <td>2_334_... HDPE wave slide for assembly height 1,45 - 1,5 m</td> <td>P</td> </tr> </table>	2_324_... HDPE wave slide for assembly height 1,2 – 1,25 m	P	2_334_... HDPE wave slide for assembly height 1,45 - 1,5 m	P	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
2_324_... HDPE wave slide for assembly height 1,2 – 1,25 m	P					
2_334_... HDPE wave slide for assembly height 1,45 - 1,5 m	P					
4.3.3 Entrapment of feet <sup>A</sup>						
Wymagania / requirements	Spostrzeżenia / remarks					
	<p>Not applicable</p> <p><i>Nie dotyczy</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T				

<b>4.3.4 Entrapment of fingers<sup>A</sup></b>						
<i>Wymagania / requirements</i>	<i>Spostrzeżenia / remarks</i>					
<p>The requirements in 4.3.4 do not apply to weather-induced dry cracks in solid wood.</p> <p>Activity toys shall be constructed so that hazardous situations in which entrapment can occur are not created</p> <p>Holes, slots and gaps in any rigid material that are within the reach of a child during use of the toy, when the body of the child is in a forced movement, shall not allow a 7 mm diameter rod to be inserted to a depth of 10 mm or more, unless a 12 mm diameter rod can also be inserted. If an activity toy is intended for children under 36 months, the accessible holes, slots or gaps in any rigid material that are within the reach of a child during use of the toy, when the body of the child is in a forced movement, shall not allow a 5 mm diameter rod to be inserted to a depth of 10 mm or more unless a 12 mm diameter rod can also be inserted. Specific requirements for chains are given in 4.6.7 (suspension connectors and swing devices).</p>	<p>No risk of entrapment of the fingers.</p> <p><i>Brak miejsc mogących powodować zagrożenie zakleszczenia palców.</i></p> <table border="1"> <tr> <td><i>2_324_... HDPE wave slide for assembly height 1,2 – 1,25 m</i></td> <td><b>P</b></td> </tr> <tr> <td><i>2_334_... HDPE wave slide for assembly height 1,45 - 1,5 m</i></td> <td><b>P</b></td> </tr> </table>	<i>2_324_... HDPE wave slide for assembly height 1,2 – 1,25 m</i>	<b>P</b>	<i>2_334_... HDPE wave slide for assembly height 1,45 - 1,5 m</i>	<b>P</b>	<input checked="" type="checkbox"/> <b>P</b> <input type="checkbox"/> <b>F</b> <input type="checkbox"/> <b>N/A</b> <input type="checkbox"/> <b>N/T</b>
<i>2_324_... HDPE wave slide for assembly height 1,2 – 1,25 m</i>	<b>P</b>					
<i>2_334_... HDPE wave slide for assembly height 1,45 - 1,5 m</i>	<b>P</b>					
<b>4.4 Stability of activity toys other than slides, swings and activity toys with crossbeams, and see-saws</b>						
<b>4.4.1 General<sup>A</sup></b>						
<i>Wymagania / requirements</i>	<i>Spostrzeżenia / remarks</i>					
	<p>Not applicable</p> <p><i>Nie dotyczy</i></p>	<input type="checkbox"/> <b>P</b> <input type="checkbox"/> <b>F</b> <input checked="" type="checkbox"/> <b>N/A</b> <input type="checkbox"/> <b>N/T</b>				
<b>4.4.2 Stability of activity toys with a free height of fall of 600 mm or less<sup>A</sup></b>						
<i>Wymagania / requirements</i>	<i>Spostrzeżenia / remarks</i>					
	<p>Not applicable</p> <p><i>Nie dotyczy</i></p>	<input type="checkbox"/> <b>P</b> <input type="checkbox"/> <b>F</b> <input checked="" type="checkbox"/> <b>N/A</b> <input type="checkbox"/> <b>N/T</b>				
<b>4.4.3 Stability of activity toys with a free height of fall of more than 600 mm<sup>A</sup></b>						
<i>Wymagania / requirements</i>	<i>Spostrzeżenia / remarks</i>					
	<p>Not applicable</p> <p><i>Nie dotyczy</i></p>	<input type="checkbox"/> <b>P</b> <input type="checkbox"/> <b>F</b> <input checked="" type="checkbox"/> <b>N/A</b> <input type="checkbox"/> <b>N/T</b>				
<b>4.5 Slides (see A.8)</b>						
<b>4.5.1 Stability of slides</b>						
<i>Wymagania / requirements</i>	<i>Spostrzeżenia / remarks</i>					
<p>Slides supplied with anchors and intended to be permanently fixed (e.g. in concrete) when in use according to the manufacturer's instructions, shall not be subjected to stability tests.</p> <p>Slides supplied with removable ground anchors shall be tested with anchors fixed to the standing surface according to the manufacturer's instructions.</p> <p>Slides not supplied with anchors shall be subjected to stability tests.</p> <p>Slides shall not tip over when tested according to 6.2.3 (stability of slides).</p>	<p>Only slides have been sent for testing.</p> <p><i>Do badań przesłano wyłącznie ślizgi.</i></p>	<input type="checkbox"/> <b>P</b> <input type="checkbox"/> <b>F</b> <input checked="" type="checkbox"/> <b>N/A</b> <input type="checkbox"/> <b>N/T</b>				

4.5.2 Retaining sides for slides (see A.9)		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Retaining sides for slides shall comply with the following requirements (see Figure 5):</p> <p>a) for slides with a starting section height of more than 1000 mm measured from the ground, the height (h) of the retaining sides shall be 100 mm or more;</p> <p>b) for slides with a starting section height of 1000 mm or less measured from the ground, the height (h) of the retaining sides shall be 50 mm or more.</p> <p>Retaining sides are not required for the run-out section of slides.</p>  <p><b>Key</b> h height of the retaining sides w width of the slide</p> <p>Figure 5 — Height of retaining sides</p>	<p>The height of the retaining sides is 120 mm. <i>Wysokość ścianek wynosi 120 mm.</i></p>	<input checked="" type="checkbox"/> <b>P</b> <input type="checkbox"/> <b>F</b> <input type="checkbox"/> <b>N/A</b> <input type="checkbox"/> <b>N/T</b>

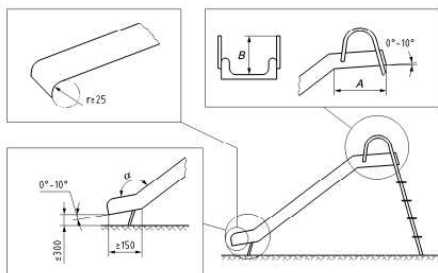
<b>4.5.3 Starting, sliding and run-out sections on slides</b>					
<i>Wymagania / requirements</i>	<i>Spostrzeżenia / remarks</i>				
<p>NOTE For attachment slides, a platform may be regarded as the starting section.</p> <p>The starting, sliding and run-out sections of slides shall comply with the following requirements (see Figure 6):</p> <p>a) the starting section for slides with a starting section height of less than 1000 mm measured from the ground shall have at least the same width as the sliding section; a length of 150 mm or more; and an inclination of between 0° and 10° to the horizontal. The width is measured as indicated in Figure 5;</p> <p>b) the starting section for slides with a starting section height of 1000 mm or more measured from the ground shall have at least the same width as the sliding section; a length of 250 mm or more; and an inclination of between 0° and 10° to the horizontal. The width is measured as indicated in Figure 5;</p> <p>c) the starting section shall be provided with handrails in order to provide assistance to the child coming from the stair/ladder into the sitting position:</p> <p>5) for slides with a starting section height less than 600 mm, the height of the handrail shall be 100 mm or more;</p> <p>6) for slides with a starting section height of 600 mm or more but less than 1 000 mm, the height of the handrail shall be 150 mm or more;</p> <p>7) for slides with a starting section height of 1 000 mm or more but less than 1 800 mm, the height of the handrail shall be 350 mm or more;</p> <p>8) for slides with a starting section height of 1 800 mm or more, the height of the handrail shall be 500 mm or more;</p> <p>d) the run-out section of the slide shall have a length of 150 mm or more. The inclination of the run-out section shall be between 0° and 10° to the horizontal, and the height of the end of the run-out section shall be 300 mm or less from the ground;</p> <p>e) the finishing end of the run-out section shall have a minimum radius of 25 mm. This requirement does not apply to <i>slides</i> where the run-out section ends 50 mm or less from the ground;</p> <p>f) the sliding section of the slide shall not exceed an angle of inclination of 60° to the horizontal at any point when measured according to 6.7.1 (measurement of inclination of the sliding section on slides);</p>	<p>The manufacturer has provided in Instruction Manual the requirements regarding platform, which is supposed to be regarded as the starting section.</p> <p>The run-out section of the slide has a length of more than 150 mm, height of the end is 185 mm, inclination 1,36°.</p> <p>The finishing end of the run-out section is more than 25 mm.</p> <p>The maximum inclination of the sliding section of the slide related to the horizontal equals 49,9° in '2_324_xxx' and 49,5° in '2_334_xxx'.</p> <p>The minimum angle (<math>\alpha</math>) between the sliding section and the run-out section is more than 140°.</p> <p><i>Producent przedstawił w instrukcji montażu wymagania dotyczące podestu, który ma stanowić część startową.</i></p> <p><i>Sekcja wylotowa o długości powyżej 150 mm, wysokości końca 185 mm oraz kącie nachylenia 1,36°.</i></p> <p><i>Promień zaokrąglenia końcowej części sekcji wylotowej wynosi powyżej 25 mm.</i></p> <p><i>Maksymalne nachylenie sekcji ześlizgowej zjeżdżalni w stosunku do poziomu wynosi 49,9° w przypadku ślizgu '2_324_xxx' oraz 49,5° w przypadku '2_334_xxx'</i></p> <p><i>Minimalny kąt (<math>\alpha</math>) między sekcją ześlizgową i sekcją wylotową większy niż 140°.</i></p> <table border="1" data-bbox="783 1547 1358 1682"> <tbody> <tr> <td><i>2_324_xxx HDPE wave slide for assembly height 1,2 – 1,25 m</i></td> <td><b>P</b></td> </tr> <tr> <td><i>2_334_xxx HDPE wave slide for assembly height 1,45 - 1,5 m</i></td> <td><b>P</b></td> </tr> </tbody> </table>	<i>2_324_xxx HDPE wave slide for assembly height 1,2 – 1,25 m</i>	<b>P</b>	<i>2_334_xxx HDPE wave slide for assembly height 1,45 - 1,5 m</i>	<b>P</b>
<i>2_324_xxx HDPE wave slide for assembly height 1,2 – 1,25 m</i>	<b>P</b>				
<i>2_334_xxx HDPE wave slide for assembly height 1,45 - 1,5 m</i>	<b>P</b>				

 **P**  
 **F**  
 **N/A**  
 **N/T**

- g) the minimum angle ( $\alpha$ ) between the sliding section and the run-out section shall not be less than the values given in Table 1, when measured according to 6.7.2 (measurement of the angle between the sliding section and the run-out section on slides).

Table 1 — Minimum angle ( $\alpha$ ) between the sliding section and the run-out section in relation to the height of the starting section

Height of the starting section	Minimum angle ( $\alpha$ ) between the sliding section and the run-out section
Less than 600 mm	120°
600 mm or more but less than 1 000 mm	130°
1 000 mm or more but less than 1 800 mm	140°
More than 1 800 mm	150°



**Key**

- A** length of starting section:  
 ≥ 150 mm for slides with a starting section height of less than 1 000 mm (see 4.5.3 a));  
 ≥ 250 mm for slides with a starting section height of 1 000 mm or more (see 4.5.3 b)).
- B** height of handrails (see 4.5.3 c):  
 ≥ 100 mm for slides with a starting section height less than 600 mm;  
 ≥ 150 mm for slides with a starting section height of 600 mm or more but less than 1 000 mm;  
 ≥ 350 mm for slides with a starting section height of 1 000 mm or more but less than 1 800 mm;  
 ≥ 600 mm for slides with a starting section height of 1 800 mm.
- $\alpha$  minimum angle between the sliding section and the run-out section

Figure 6 — Requirements for slides

#### 4.6 Swings (see A.10)

##### 4.6.1 Stability of swings and other activity toys with crossbeams

###### 4.6.1.1 General

Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable Nie dotyczy	

###### 4.6.1.2 Swings and other activity toys with crossbeams more than 1200 mm above the ground

Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable Nie dotyczy	

###### 4.6.1.3 Swings and other activity toys with crossbeams 1200 mm or less above the ground

Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable Nie dotyczy	

##### 4.6.2 Static strength of crossbeams, swing devices and suspension connectors

Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable Nie dotyczy	



<b>4.6.3 Swings intended for children under 36 months</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.6.4 Minimum clearance between adjacent swing elements, and adjacent structures</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.6.5 Lateral stability of swing elements</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.6.6 Minimum clearance between swing elements and the ground (see A.11)</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.6.7 Suspension connectors and swing devices</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.6.8 Impact, geometry and design of swing elements</b>		
<b>4.6.8.1 General</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.6.8.2 Impact from swing elements</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.6.8.3 Geometry and design of swing elements</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.7 See-saws</b>		
<b>4.7.1 Stability of see-saws</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
<b>4.7.2 Seat/stand height</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	

4.7.3 Resistant of motion		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
4.7.4 Pinching and crushing of fingers and toes		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
4.7.5 Hand supports		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
4.8 Carousels and rocking activity toys (see A.12)		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
4.9 Paddling pools		
4.9.1 Static strength of paddling pools with non-inflatable walls		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
4.9.2 Paddling pools with inflatable walls		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	
5 Warnings, markings and instructions		
5.1 Warnings and markings		
5.1.1 General <sup>A</sup>		
Wymagania / requirements	Spostrzeżenia / remarks	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
<p>The activity toy or its packaging shall, where appropriate, carry warnings regarding the minimum and/or maximum user age, and minimum and/or maximum user weight, and whether the activity toy is intended for indoor or outdoor use.</p> <p>These warnings shall be preceded by the word: "Warning" or "Warnings", as appropriate, and be clearly visible to the consumer before the purchase.</p> <p>The activity toy or its packaging shall carry the following warning to be marked on the toy or its packaging. The warning shall be clearly visible at the time of purchase:</p> <p><b>"Warning. Only for domestic use."</b></p>	Warning conforms to the requirements. <i>Ostrzeżenie spełnia wymagania normy.</i>	
5.1.2 Paddling pools		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
	Not applicable <i>Nie dotyczy</i>	

<b>5.2 Assembly and installation instructions<sup>A</sup></b>	
<i>Wymagania / requirements</i>	<i>Spostrzeżenia / remarks</i>
<p>The warnings, markings and information specified in 5.1 shall be repeated in the assembly and installation instructions.</p> <p>Any other purchase information or information provided on the labels of the activity toys shall be given in the installation instructions.</p> <p>Activity toys that require assembly by the consumer shall be accompanied by appropriate assembly instructions including drawings which shall enable a consumer to correctly assemble the activity toy.</p> <p>The assembly and installation instructions shall also, when appropriate, include the following:</p> <p>a) a recommendation to place the activity toy on a level surface at least 2 m from any structure or obstruction such as a fence, garage, house, overhanging branches, laundry lines or electrical wires;</p> <p>b) detailed instructions on how anchors are to be installed to prevent overturning or lifting of the support members when they are used as intended or in a foreseeable way, taking into account the condition of the soil normally encountered;</p> <p>c) instructions that anchors shall be placed level with or under the ground in order to reduce tipping hazards;</p> <p>d) the minimum clearance that needs to exist between the swing element(s) and the ground, and, where this is adjustable, instructions on how to achieve this minimum clearance;</p> <p>e) instructions that activity toys (for example paddling pools, swings, slides, climbing frames) shall not be installed over concrete, asphalt or any other hard surface;</p> <p>f) a recommendation on the orientation of the activity toy (e.g. slides) in relation to its exposure to the sun;</p> <p>g) information to keep the assembly and installation instructions for further reference;</p> <p>h) instructions that modifications made by the consumer to the original activity toy (for example the adding of an accessory) shall be carried out according to the instructions of the manufacturer. In particular, instructions shall be provided with a kit/accessory about the installation of rope/nets concerning the minimum diameter, the need for fixation at both ends, overall length, and positioning in relation to other structures.</p>	<p>Installation instruction meets the standard requirements.</p> <p><i>Instrukcja montażu spełnia wymagania normy.</i></p>

**P**  
 **F**  
 **N/A**  
 **N/T**

<b>5.3 Maintenance<sup>A</sup></b>		
<i>Wymagania / requirements</i>	<i>Spostrzeżenia / remarks</i>	
<p>Activity toys shall be accompanied by maintenance instructions drawing attention to the need of carrying out checks and maintenance of the main parts (crossbeams, suspensions, anchors, etc.) at regular intervals, pointing out that if these checks are not carried out the activity toy could overturn or otherwise become a hazard. Whenever practical, the instructions shall also be affixed to the activity toy.</p> <p>The maintenance instructions shall, when appropriate, also include the following recommendations pointing out that it is of particular importance that they be followed at the beginning of each season as well as at regular intervals during the usage season:</p> <p>a) to check all nuts and bolts for tightness and tighten when required;</p> <p>b) to oil all metallic moving parts;</p> <p>c) to check all coverings for bolts and sharp edges and replace when required;</p> <p>d) to check swing seats, chains, ropes and other means of attachments for evidence of deterioration;</p> <p>e) to replace defective parts in accordance with the manufacturer's instructions;</p> <p>f) to change the water of <i>padding pools</i> frequently (particularly in hot weather) or when noticeably contaminated.</p>	<p>Maintenance instruction conforms to the requirements.</p> <p><i>Instrukcja konserwacji spełnia wymagania normy.</i></p>	<input checked="" type="checkbox"/> <b>P</b> <input type="checkbox"/> <b>F</b> <input type="checkbox"/> <b>N/A</b> <input type="checkbox"/> <b>N/T</b>

## EN 71-2:2011

4.1 General requirements (see A.3)	
Wymagania / requirements	Spostrzeżenia / remarks
<p>NOTE 1 Words in <i>italics</i> are defined in Clause 3 (Terms and definitions). Additional information on the background and rationale for various requirements is given in Annex A.</p> <p>NOTE 2 According to Directive 2009/48/EC the following safety requirements apply regarding cleaning and washing: "A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy shall, to this end, be washable, except if it contains a mechanism that may be damaged if soaked and washed. The toy shall fulfil the safety requirements also after having been cleaned in accordance with this point from the Directive and the manufacturer's instructions.". The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned. This information is not exhaustive and Directive 2009/48/EC and the associated guidance documents should be consulted for further details.</p> <p>The following materials shall not be present in toys:</p> <ul style="list-style-type: none"> <li>– celluloid (cellulose nitrate), except when used in varnish, paint or glue, or in balls of the type used for table tennis or similar games, and</li> <li>– materials with the same behaviour in fire as celluloid (see A.3).</li> </ul> <p>Specific materials to which the test flame is applied in order to check compliance of the toy with requirements in 4.2 to 4.5 are considered to comply with the above requirements if the toy meets its appropriate requirements in 4.2 to 4.5:</p> <ul style="list-style-type: none"> <li>– materials with a piled surface which produce <i>surface flash</i> when a flame is applied to the tested material under the conditions described in 5.5.1 and 5.5.2. Piled surfaces showing no momentary area of flame over the area of the piled surface remote from the test flame are considered to meet this requirement;</li> <li>In addition, toys shall not contain <i>flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids</i> and flammable gels except as provided for below: <ul style="list-style-type: none"> <li>– <i>flammable liquids</i> and flammable gels supplied in sealed containers having a maximum volume of 15 ml per container;</li> <li>– <i>highly flammable liquids</i> and <i>flammable liquids</i> being entirely retained within a porous material in capillary channels of writing instruments;</li> <li>– <i>flammable liquids</i> with a viscosity greater than 260 · 10<sup>-6</sup> m<sup>2</sup>/s corresponding to a flow time of more than 38 s when determined in accordance with EN ISO 2431 using cup No. 6;</li> <li>– <i>highly flammable liquids</i> contained in <i>chemical toys</i>.</li> </ul> </li> </ul>	<p>Toy's material conforms to the requirements. <i>Materiał zabawki spełnia wymagania normy</i></p> <div style="text-align: right;"> <input checked="" type="checkbox"/> P  <input type="checkbox"/> F  <input type="checkbox"/> N/A  <input type="checkbox"/> N/T </div>

4.4 Toys intended to be entered by a child (see A.6)		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>These include for example toy tents, puppet theatres, wigwams and play tunnels.</p> <p>When tested in accordance with 5.4, the rate of spread of flame of the test sample shall not exceed 30 mm/s or the test sample shall self-extinguish.</p> <p>If the test sample has a rate of spread of flame greater than 20 mm/s when tested in accordance with 5.4, there shall be no flaming debris or molten drips.</p> <p>If the material has non-identical surfaces, both sides shall be tested.</p> <p>If the rate of spread of flame is between 10 mm/s and 30 mm/s, the appropriate part(s) of the toy and the packaging shall be permanently marked with the following warning: "<b>Warning. Keep away from fire.</b>".</p>	<p>Results: 0,4 mm/s. The material is self-extinguishing. <i>Wynik: 0,4 mm/s. Materiał samogasnący</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
A.3 General requirements (see 4.1)		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Materials with the same behaviour in fire as celluloid can be defined as those which readily catch fire after brief contact with a source of ignition and which continue to burn or to be consumed after removal of the ignition source. In this case, only materials that ignite instantaneously (at the time of contact with a source of ignition) and are very rapidly consumed should fall into this category. Plastics, paper, textiles, etc. will all burn, but should normally not be considered as materials with the same behaviour in fire as celluloid.</p> <p>In the context of the requirement for materials with the same behaviour in fire as celluloid, no validated test method has been established. However some evaluations made on a strip of celluloid material (8 cm long) coming from a table tennis ball have shown that, when a flame is applied under the conditions described in 5.5.1 and 5.5.2 to the lower edge of the strip placed vertically, it ignites instantaneously and shows a rate of spread of flame of approximately 400 mm/s.</p> <p>A piece of paper with a grammage (weight) of 80 g/m<sup>2</sup> and a dimension of 21 cm by 29,7 cm tested under the same conditions have shown a rate of spread of flame of approximately 110 mm/s.</p> <p>These values should be taken into consideration if further assessment of the material is required.</p>	<p>⇒ See also PN-EN 71-2 p. 4.1 ⇒ Patrz PN-EN 71-2 pkt 4.1</p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T

Załącznik nr 1 / Annex No 1

## Dokumentacja fotograficzna Photodocumentation

Fotografia / Photo 1  
2\_324\_xxx HDPE wave slide for assembly  
height 1,2 – 1,25 m



Fotografia / Photo 2  
2\_334\_xxx HDPE wave slide for assembly  
height 1,45 - 1,5 m



Fotografia / Photo 3  
2\_324\_xxx HDPE wave slide for assembly  
height 1,2 – 1,25 m



Fotografia / Photo 4  
2\_334\_xxx HDPE wave slide for assembly  
height 1,45 - 1,5 m



Fotografia / Photo 5  
 2\_324\_xxx HDPE wave slide for assembly  
 height 1,2 – 1,25 m



Fotografia / Photo 6  
 2\_334\_xxx HDPE wave slide for assembly  
 height 1,45 - 1,5 m



Fotografia / Photo 7  
 2\_324\_xxx HDPE wave slide for assembly  
 height 1,2 – 1,25 m



Fotografia / Photo 8  
 2\_334\_xxx HDPE wave slide for assembly  
 height 1,45 - 1,5 m



**Koniec raportu**  
 End