



Raport z badań nr: 26633398/2018

Test Report No.:

Strona Page: 1

Stron Pages: 34

Załączniki Annex: 1

Zleceniodawca: <i>Client:</i>	POL-POWER Sp. z o.o. ul. Poznańska 113A, 62-052 Komorniki		
Przedmiot badania: <i>Test item:</i>	Łóżeczka dziecięce mieszkaniowe <i>Children's cot for domestic use</i>		
Producent / Klient zew.: <i>Manufacturer / ext. Customer:</i>	POL-POWER Sp. z o.o. ul. Poznańska 113A, 62-052 Komorniki		
Oznaczenie: <i>Identification:</i>	STAR (Art. Num. 22-491-__-)	Nr seryjny: <i>Serial no.:</i>	None
Przyjęcie towaru nr: <i>Receipt no.:</i>	P/18/201	Data przyjęcia: <i>Date of receipt:</i>	18.04.2018
Miejsce kontroli: <i>Testing location:</i>	TÜV Rheinland Polska Sp. z o.o. ul. Lutycka 11, 60-415 Poznań		
Podstawa badań: <i>Test specification:</i>	PN-EN 716-1:2017-07 PN-EN 716-2:2017-07		
Wynik badania: <i>Test Result:</i>	Patrz dalsze punkty raportu <i>See next points of the report</i>		
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			nazwisko <i>Name</i>
			podpis <i>Signature</i>
Inne / Other Aspects:			
Badania weryfikacyjne ⇒ raport zawiera wyniki z Raportu z badań nr 26633353-1/2018 <i>Verification tests ⇒ the report includes results from Test Report No.: 26633353-1/2018</i>			
Szczegóły konstrukcyjne ⇒ patrz Identyfikacja przedmiotu badań i Dokumentacja fotograficzna <i>Construction details ⇒ see Identification of test item and Photo documentation</i>			
Skróty:	P(ass) = zgodne z podstawami kontroli F(ail) = niezgodne z podstawami kontroli N/A = nie dotyczy N/T = nie badano	Abbreviations:	P(ass) = passed F(ail) = failed N/A = not applicable N/T = not tested

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Raport z badań nr: 26633398/2018
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Stosowane przyrządy/urządzenia pomiarowe
Used measuring equipment

Pomiar <i>Measurement</i>	Numer urządzenia <i>Equipment no.</i>	Data następnej kalibracji <i>Next calibration date</i>
Dimensions / weight	A/37/W/P-H.1	05.2019
	A/136/W/P-H.1	03.2020
	A/137/W/P-H.1	03.2020
	A/166/W/P-H.1	03.2020
Static / dynamic tests	A/3/W/P-H.1	09.2019
	A/4/W/P-H.1	09.2019
	A/5/S/P-H.1	03.2019
	E/7/S/P-H.1	03.2019
	E/8/S/P-H.1	03.2019
	E/35/S/P-H.1	03.2019
	A/68/W/P-H.1	09.2019
	E/73/S/P-H.1	03.2019
	E/76/S/P-H.1	03.2019
	E/83/S/P-H.1	03.2019
	E/86/S/P-H.1	03.2019
	E/87/S/P-H.1	03.2019
	E/89/S/P-H.1	03.2019
	E/93/S/P-H.1	03.2019
	E/97/S/P-H.1	03.2019
	E/100/S/P-H.1	03.2019
	E/103/S/P-H.1	03.2019
	E/107/S/P-H.1	03.2019
	E/159/S/P-H.1	03.2019
Environmental conditions	A/148/W/P-H.1	09.2019

Identyfikacja przedmiotu badań

Identification of test item

Children's cot STAR (Art. Num. 22-491- -)

Konstrukcja łóżeczka wykonana z malowanego drewna litego (boki) i laminowanej płyty wiórowej (szczyty) o grubości 18 mm. Dno łóżeczka wykonane z 18 listew prostych o przekroju poprzecznym 32x10 mm mocowanych na podporach. Wysokość dna regulowana w trzech pozycjach (wymaga użycia narzędzi). Istnieje możliwość wyjęcia trzech szczebelków z jednego boku.

Wymiary gabarytowe: 1440 x 760 x 795 mm

Masa: 23,90 kg

The structure of children's cot made of painted solid wood (sides) and laminated chipboard (ends) with the thickness of 18 mm. The base made of 18 straight slats with the cross section of 32x10 mm inserted to the bed base's supports. The cot base is adjustable with three positions (require the use of a tool). It is possible to dismantle of three side components.

*Dimensions: 1440 x 760 x 795 mm**Weight: 23,90 kg*

Rys. 1 Children's cot STAR (Art. Num. 22-491-__-)

Fig. 1 Children's cot STAR (Art. Num. 22-491-__-)

EN 716-1:2017

4 Safety requirements		
4.1 General		
Wymagania / requirements	Spostrzeżenia / remarks	
With the exception of the requirements specified in 4.2, the requirements apply both before and after testing in accordance with EN 716-2.	⇒ Założenia normy uwzględniono. <i>The standard assumptions included.</i> ⇒ Patrz dalsze punkty raportu. <i>See further section of the report.</i>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
4.2 Materials		
4.2.1 Materials and surfaces		
Wymagania / requirements	Spostrzeżenia / remarks	
The manufacturer/importer/retailer shall provide verification that all accessible parts meet the relevant requirements from EN 71-3.	Not tested	<input type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T
4.2.2 Flammability of textiles, coated textiles and plastics. coverings		
Wymagania / requirements	Spostrzeżenia / remarks	
When tested in accordance with 5.4 of EN 71-2:2011+A1:2014, the maximum rate of spread of flame of textiles, coated textiles or plastic coverings shall be 30 mm/s. When tested in accordance with EN 1103, there shall be no flash-effect.	Nie dotyczy <i>Not applicable</i>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
4.3 Initial stability		
Wymagania / requirements	Spostrzeżenia / remarks	
When tested in accordance with EN 716-2:2017, 5.2, the cot shall not overturn.	⇒ Podczas badań zgodnie z EN 716-2:2017, 5.2, łóżeczko nie przewróciło się. <i>During the test acc. to EN 716-2:2017, 5.2 cot did not overturn.</i>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
4.4 Construction		
4.4.1 General		
4.4.1.1 Edges and protruding parts		
Wymagania / requirements	Spostrzeżenia / remarks	
Edges and protruding parts accessible during normal use shall be rounded or chamfered and free of burrs and sharp edges.	⇒ Dostępne krawędzie zaokrąglone. <i>Exposed edges were rounded.</i>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
4.4.1.2 Self-tapping screws		
Wymagania / requirements	Spostrzeżenia / remarks	
Self-tapping screws shall not be used to fasten any component that is designed to be removed or loosened when dismantling the cot for purposes of transportation or storage. NOTE Self-tapping screws include wood screws, particleboard screws and the like.	Nie dotyczy. Brak wkrętów do drewna użytych do zmontowania konstrukcji. <i>Not applicable. No self-tapping screws used to fasten the cot's components.</i>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
4.4.1.3 Labels and decals		
Wymagania / requirements	Spostrzeżenia / remarks	
Glued labels and decals shall not be used on the internal surfaces of cot sides and ends unless they are below the level of the cot base or mattress base.	⇒ Łóżeczko wyposażone w etykietę przyklejoną poniżej dna. <i>The cot is equipped with label glued below the level of the cot base.</i>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T

4.4.1.4 Small parts		
Wymagania / requirements	Spostrzeżenia / remarks	
When tested in accordance with EN 716-2:2017, 5.5, no accessible part that can be detached shall fit wholly within the small parts cylinder.	⇒ Brak małych części. No small parts	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
4.4.1.5 Castors and wheels		
Wymagania / requirements	Spostrzeżenia / remarks	
Castors/wheels shall not be fitted except in the following configuration, either: a) two or more castors/wheels and at least two other support points, or, b) at least four castors/wheels, of which at least two can be locked.	Nie dotyczy. Brak kółek. Not applicable. No wheels or castors.	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
4.4.2 Holes, gaps and openings on the inside of the cot		
4.4.2.1 General		
Wymagania / requirements	Spostrzeżenia / remarks	
With the exception of the holes, gaps and openings specified in 4.4.2.2, 4.4.2.3, 4.4.2.4, 4.4.2.5, 4.4.2.6, 4.4.4.2 and 4.4.4.3 all other accessible holes, gaps and openings shall be less than 7 mm, between 12 mm and 25 mm, or between 45 mm and 65 mm when tested in accordance with EN 716-2:2017, 5.4.1.	⇒ Pozostałe otwory i szczeliny zgodne z wymaganiami normy. All other accessible holes, gaps and openings designed according to the standard requirements.	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
4.4.2.2 Assembly holes		
Wymagania / requirements	Spostrzeżenia / remarks	
There shall be no accessible holes between 7 mm diameter and 12 mm diameter, unless the depth is less than 10 mm.	⇒ Otwory montażowe zaprojektowane zgodnie z wymaganiami normy. Assembly holes designed according to the standard requirements.	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
4.4.2.3 Distance between cot base and sides and ends		
Wymagania / requirements	Spostrzeżenia / remarks	
When tested in accordance with EN 716-2:2017, 5.4.1, it shall not be possible for the 25 mm cone to pass between the cot base and the sides, and between the cot base and the ends.	⇒ Nie ma możliwości wciśnięcia próbника 25 mm pomiędzy dno łóżeczka a szczyt oraz pomiędzy dno łóżeczka a boczki, podczas testów zgodnie z EN 716-2:2017, punkt 5.4.1 It is not possible for the 25 mm cone to pass between the cot base and the sides, and between the cot base and the ends when tested in accordance with 5.4.1 of EN 716-2:2017.	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
4.4.2.4 Openings in mesh sides and ends		
Wymagania / requirements	Spostrzeżenia / remarks	
When the sides or ends are of mesh, it shall not be possible for the 7 mm cone as described in EN 716-2:2017, 4.1 to pass through the holes of the mesh.	Nie dotyczy Not applicable	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
4.4.2.5 Distance between slats of the cot base		
Wymagania / requirements	Spostrzeżenia / remarks	
When tested in accordance with EN 716-2:2017, 5.4.1, it shall not be possible for the 60 mm cone to pass between two adjacent slats of the cot base	⇒ Nie ma możliwości wciśnięcia próbника 60 mm pomiędzy listwy dna łóżeczka podczas testów zgodnie z EN 716-2:2017, punkt 5.4.1. It is not possible for the 60 mm cone to pass between the slats of the cot base when tested in accordance with 5.4.1 of EN 716-2:2017.	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T

4.4.2.6 Openings in mesh of the cot base		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
When tested in accordance with EN 716-2:2017, 5.4.1, it shall not be possible for the 85 mm cone to pass through a cot base made of mesh.	Nie dotyczy <i>Not applicable</i>	
4.4.3 Head entrapment on the outside of the cot		
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 following requirements do not apply to cots that have mesh or fabric sides/ends and a rigid leg or support system, when the lowest part of the opening is less than 100 mm from the floor.</p> <p>When tested in accordance with EN 716-2:2017, 5.4.2, completely bound openings on the outside (exterior) of the cot that allow passage of the small head probe, shall also allow the large head probe to pass completely through the bound opening.</p> <p>Completely bound openings that allow the large probe to pass completely through shall comply with the requirement for partially bound, V and irregular shaped openings when tested in accordance with EN 716-2:2017, 5.4.2.</p> <p>Partially bound, V and irregular shaped openings shall be constructed so that:</p> <p>a) portion B of the template does not enter the opening when tested in accordance with EN 716-2:2017, 5.4.2; or</p> <p>b) apex of portion A of the template contacts the base of the opening when tested in accordance with EN 716-2:2017, 5.4.2.</p>	<p>⇒ Brak miejsc zakleszczenia głowy na zewnątrz łóżeczka. <i>No head entrapment on the outside of the cot.</i></p>	
4.4.4 Shear and squeeze points		
4.4.4.1 Shear and squeeze points when setting up and folding		
Wymagania / requirements	Spostrzeżenia / remarks	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
If 4.4.4.2 or 4.4.4.3 are not applicable, shear and squeeze points that are created only when setting up or folding are permitted.	⇒ Brak miejsc przycięcia i przyciśnięcia. <i>No shear or squeeze points.</i>	
4.4.4.2 Shear and squeeze points under the influence of powered mechanisms		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
Where powered or spring loaded mechanisms are used, the distance between two accessible parts moving relative to each other shall always be greater than 18 mm or smaller than 5 mm.	Nie dotyczy <i>Not applicable</i>	
4.4.4.3 Shear and squeeze points during use		
Wymagania / requirements	Spostrzeżenia / remarks	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
There shall be no accessible shear and squeeze points which close to less than 18 mm unless they are always less than 5 mm before and during the last load application according to EN 716-2:2017, 5.9.1.	⇒ Brak miejsc przycięcia i przyciśnięcia pojawiających się podczas badań. <i>No accessible shear and squeeze points during the test load.</i>	

4.4.5 Snag points		
Wymagania / requirements	Spostrzeżenia / remarks	
When tested in accordance with EN 716-2:2017, 5.10, the mass shall not be supported by any part accessible from inside the cot. Parts of cot sides and ends more than 1400 mm above the cot base are considered not accessible.	⇒ Brak punktów zahaczenia. No snag points.	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
4.4.6 Locking systems		
4.4.6.1 Locking systems for folding cots		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Folding cots that fold towards the inside shall be equipped with at least two locking systems fulfilling the requirements of 4.4.6.2.</p> <p>All other folding cots shall be equipped with a locking system fulfilling the requirements of 4.4.6.2 in order to prevent an unintentional folding.</p> <p>The cot shall not fold and the locking system shall fulfil its function when tested in accordance with EN 716-2:2017, 5.11.</p>	Nie dotyczy Not applicable	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
4.4.6.2 All locking systems		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>With the exception of the locks on castors/wheels, all locking systems shall:</p> <p>a) have a residual force of at least 50 N (tangential when relevant) for operation when tested in accordance with EN 716-2:2017, 5.11; or</p> <p>b) require at least two consecutive actions operating on different principles, the second being dependent on the first having been carried out and maintained; or</p> <p>c) require at least two separate but simultaneous actions operating on different principles; or</p> <p>d) have two operating devices separated by a distance of at least 850 mm and required to be operated simultaneously; or</p> <p>e) require the cot base to be lifted to allow folding of the cot.</p> <p>If the weight of the child on the cot base has a positive effect on the locking, this is accepted as an operating device.</p> <p>The locking system shall function before and after testing in accordance with EN 716-2:2017, 5.11.</p>	Nie dotyczy Not applicable	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
4.4.7 Cot base		
4.4.7.1 Folding mattress base and cot base		
Wymagania / requirements	Spostrzeżenia / remarks	
Any folding mattress base or cot base shall not fold when tested in accordance with EN 716-2:2017, 5.7.1.	Nie dotyczy. Dno łóżka mocowane do ramy. Not applicable. Cot base is fastened to the frame.	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T

4.4.7.2 Adjustable cot base		
Wymagania / requirements	Spostrzeżenia / remarks	
If the cot base is adjustable, adjustment from a higher position to a lower position shall require the use of a tool or operation of a locking system, which fulfils the requirements of 4.4.6.2.	⇒ Regulacja wysokości dna łóżka wymaga użycia narzędzi. <i>Adjustment of the cot base requires the use of tools.</i>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
4.4.7.3 Strength of the cot base		
Wymagania / requirements	Spostrzeżenia / remarks	
When tested in accordance with EN 716-2:2017, 5.7.2, no element of the cot base shall break, nor shall the cot base become dislodged and the function of the cot shall not be impaired.	⇒ Po badaniach nie stwierdzono uszkodzeń. <i>No damage after the test.</i>	<input type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
4.4.8 Sides and ends		
4.4.8.1 Movable sides		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>In the highest position, movable sides shall be provided with a locking system fulfilling the requirements of 4.4.6.2. The locking system shall engage automatically when the movable side is adjusted to its highest position.</p> <p>To avoid entrapment hazards when the movable side is in the lowest position one of the following conditions shall be met:</p> <p>a) The locking system shall fulfil the requirements of 4.4.6.2, and shall engage automatically when the movable side is in its lowest position; or</p> <p>b) in its lowest position, the lower component of the movable side is always above the bed base or mattress base; or</p> <p>c) when the movable side is in the lowest position the gap between the lower component of the movable side and the ground or any other component below is always greater than 223 mm.</p>	Nie dotyczy. Brak ruchomych boków <i>Not applicable. No movable sides.</i>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T

4.4.8.2 Distance between footholds and top of cot sides and ends										
Wymagania / requirements	Spostrzeżenia / remarks									
<p>With the mattress base in the lowest position, the minimum distance between the upper side of the mattress base and the upper edge of the cot side and end shall be at least 500 mm, when tested in accordance with EN 716-2:2017, 5.9.1 under load.</p> <p>With the mattress base and the sides/ends in the highest position, the minimum vertical distance between the upper side of the mattress base and the upper edge of the cot side and end shall be at least 200 mm.</p> <p>When tested in accordance with EN 716-2:2017, 5.3.3, the minimum distance between the top of any foothold and the upper edge of the cot side and end shall be at least 500 mm.</p> <p>If the mattress is not an integral part of the cot:</p> <ul style="list-style-type: none"> – the measurement shall be made from the mark of the maximum thickness of the mattress (see Clause 6 j) and the upper edge of the cot side and end; or – if the indication of the maximum thickness of the mattress is provided by a text, the measurement shall be made from the top surface of the cot base and the upper edge of the cot side and end, minus the maximum thickness of the mattress (see Clause 6 j). 	<p>⇒ Producent dostarczył łóżeczko bez materaca. <i>The manufacturer provided the cot without a mattress.</i></p> <p>⇒ Pomiar został wykonany mierząc wysokość od górnej powierzchni dna łóżka (boczne podpory) do górnej krawędzi boku łóżeczka. Wartość pomiaru pomniejszono o maksymalną grubość materaca dozwolonego przez producenta (100 mm). <i>The measurements were made from the top surface of the cot base (side support) and the upper edge of the cot side minus the maximum thickness of the mattress permissible by the manufacturer (100 mm).</i></p> <table border="1"> <thead> <tr> <th>LEVEL</th> <th>RESULT</th> </tr> </thead> <tbody> <tr> <td>I</td> <td>With the mattress base in the lowest position: 508 mm</td> </tr> <tr> <td>II</td> <td>With the mattress base in the medium position: 348 mm</td> </tr> <tr> <td>III</td> <td>With the mattress base in the highest position: 225 mm</td> </tr> </tbody> </table>	LEVEL	RESULT	I	With the mattress base in the lowest position: 508 mm	II	With the mattress base in the medium position: 348 mm	III	With the mattress base in the highest position: 225 mm	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
LEVEL	RESULT									
I	With the mattress base in the lowest position: 508 mm									
II	With the mattress base in the medium position: 348 mm									
III	With the mattress base in the highest position: 225 mm									
4.4.8.3 Strength of side and end components										
Wymagania / requirements	Spostrzeżenia / remarks									
<p>When tested in accordance with EN 716-2:2017, 5.8.1, 5.8.2 and 5.8.3, the slats or sides and ends and corners shall neither break nor become detached. The function of the cot shall not be impaired.</p> <p>When tested in accordance with EN 716-2:2017, 5.8.4, the threads of the mesh and other flexible materials, e.g. fabrics, plastics shall not break and the function of the cot shall not be impaired.</p>	<p>⇒ Brak uszkodzeń. Wymagania normy spełnione. <i>No damage. Requirements are fulfilled.</i></p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T								

4.4.8.4 Strength of frame and fastenings		
Wymagania / requirements	Spostrzeżenia / remarks	
When tested in accordance with EN 716-2:2017, 5.9.1 and 5.9.2, there shall be no breakage. The function of the cot shall not be impaired. The test in EN 716-2:2017, 5.9.2 is not applicable to folding cots.	⇒ Podczas badań, łóżeczko nie zostało uszkodzone. <i>During tests the cot was not damaged.</i>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
4.4.9 Cot rim		
Wymagania / requirements	Spostrzeżenia / remarks	
No filling shall be removed from the cot rim when tested in accordance with EN 716-2:2017, 5.6, bite test.	Nie dotyczy <i>Not applicable</i>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
4.5 Final stability		
Wymagania / requirements	Spostrzeżenia / remarks	
When tested in accordance with EN 716-2:2017, 5.12, the cot shall not overturn.	⇒ Podczas badań zgodnie z EN 716-2:2017, 5.2 łóżeczko nie przewróciło się. <i>During the test acc. to EN 716-2:2017, 5.2 cot did not overturn.</i>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
4.6 Mattress size		
Wymagania / requirements	Spostrzeżenia / remarks	
If a mattress is supplied with the cot, there shall be no gap more than 30 mm between the mattress and the sides end ends in any position of the mattress (see Clause 6 I).	Nie dotyczy. Materac nie jest dostarczany razem z badanym łóżeczkiem. <i>Not applicable. Mattress is not supplied with the cot.</i>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
5 Packaging		
Wymagania / requirements	Spostrzeżenia / remarks	
Any plastic covering used as packaging for cots, folding cots or mattresses, if applicable, that does not fulfil the requirements of EN 71-1, shall be conspicuously marked with the following information or its equivalent: "To avoid danger of suffocation keep this plastic bag away from babies and children."	Nie dotyczy. Łóżeczko dostarczono w pełni zmontowane. <i>Not applicable. The cot was delivered fully assembled.</i>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T

6 Instructions for use	
Wymagania / requirements	Spostrzeżenia / remarks
<p>Instructions shall be provided in the official language(s) of the country where the cot is sold.</p> <p>These instructions shall be headed “IMPORTANT, RETAIN FOR FUTURE REFERENCE: READ CAREFULLY” in letters not less than 5 mm high.</p> <p>Warnings</p> <p>The word WARNING can be given at the top of a list of warnings.</p> <p>The instructions for use shall include the following warnings:</p> <p>a) Warning: Be aware of the risk of open fire and other sources of strong heat, such as electric bar fires, gas fires, etc. in the near vicinity of the cot;</p> <p>b) Warning: Do not use the cot if any part is broken, torn or missing and use only spare parts approved by the manufacturer;</p> <p>c) Warning: Do not leave anything in the cot or place the cot close to another product, which could provide a foothold or present a danger of suffocation or strangulation, e.g. strings, blind/curtain cords;</p> <p>d) Warning: Do not use more than one mattress in the cot.</p> <p>The instructions for use shall include the following statements:</p> <p>e) Statement that a cot is ready for use, only when the locking mechanisms are engaged and to check carefully that they are fully engaged before using the folding cot;</p> <p>f) If the height of the cot base is adjustable, a statement that the lowest position is the safest and that the base should always be used in that position as soon as the baby is old enough to sit up;</p> <p>g) When movable sides are provided, a statement that “if you leave the child unattended in the cot, always make sure that the movable side is closed”;</p> <p>h) Where detachable support rails are provided to support the cot base above its lowest position, a statement that it is essential to remove these rails before the cot is used in its lowest position;</p> <p>i) Assembly drawing, a list and description of all parts and tools required for assembly and a diagram of the bolts and other fastenings required;</p>	<p>⇒ Producent dostarczył instrukcje w formie dokumentu pdf. Instrukcja zawiera wymagane informacje.</p> <p>⇒ <i>The manufacturer provided instruction in pdf. file. The document included required information.</i></p> <p><input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T</p>

- j) Thickness of the mattress shall be such that the internal height (surface of the mattress to the upper edge of the cot frame) is at least 500 mm in the lowest position of the cot base and at least 200 mm in the highest position of the cot base. This information is not applicable to and shall not appear for folding cots in which the mattress is an integral part of the product through a mattress base;
- k) Where the requirement in 6 j) is fulfilled by a mark on the cot, a statement that the mark indicates the maximum thickness of the mattress to be used with the cot. This information is not applicable to and shall not appear for folding cots in which the mattress is an integral part of the product through a mattress base;
- l) The minimum size of the mattress to be used with the cot. The dimension shall take into account that there shall be no gap more than 30 mm between the mattress and the sides end ends in any position of the mattress. This information is not applicable to and shall not appear for folding cots in which the mattress is an integral part of the product through a mattress base;
- m) Statement that all assembly fittings should always be tightened properly and that fittings should be checked regularly and retightened as necessary;
- n) Instructions for washing/cleaning, when applicable;
- o) Statement to prevent injury from falls that when the child is able to climb out of the cot, the cot shall no longer be used for that child;
- p) The following warnings shall appear on the instruction for use of folding cots which the mattress is an integral part of the product through a mattress base.

“WARNING – Only use the mattress sold with this cot, do not add a second mattress on this one, suffocation hazards”

A pictogram may be added, however the pictogram won't replace the warning.

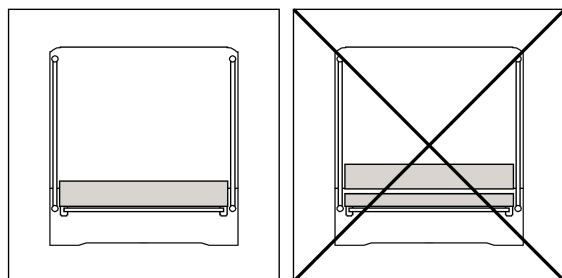


Figure 1 – Example of pictogram

7 Marking	
Wymagania / requirements	Spostrzeżenia / remarks
<p>All cots for which a claim of conformity to this standard is made shall be permanently marked with the following information:</p> <p>a) if the mattress is an integral part of the folding cot (example: mattress base):</p> <ol style="list-style-type: none"> 1) the following warning shall appear on the mattress with letters with a height of 3 mm or more: “WARNING – This is a mattress, do not add a second mattress, suffocation hazards”; 2) name, registered trade name or registered trade mark of either the manufacturer or distributor or retailer together with additional means of identifying the product; 3) reference to this EN (EN 716-1); <p>b) if the mattress is not an integral part of the cot:</p> <ol style="list-style-type: none"> 1) name, registered trade name or registered trade mark of either the manufacturer or distributor or retailer together with additional means of identifying the product; 2) reference to this EN (EN 716-1); 3) the maximum thickness of the mattress to be used; this can be in the form of text, a distinct mark on the cot at the correct height, e.g. a line, or by other means. 	<p>⇒ Oznakowanie posiada wymagane informacje. <i>The label contained required information.</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>

EN 716-2:2017

5 Test procedures		
5.1 Assembly and inspection		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Assemble the cot in accordance with the manufacturer's instruction. Prior to the test, inspect the cot visually for defects.</p> <p>Tighten all knock-down fittings.</p> <p>After testing, check where appropriate:</p> <ul style="list-style-type: none"> - whether there are sharp edges or burrs, - whether the functions of the locking mechanisms are impaired, - whether the functions of the cot are impaired, - whether the sizes of the openings have changed so that they present a safety hazard, - if relevant, whether the stability of the cot has changed. 	<p>⇒ Założenia normy uwzględniono. <i>The standard assumptions included.</i></p> <p>⇒ Patrz dalsze punkty raportu. <i>See further section of the report.</i></p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.2 Stability – test		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>The cot shall be tested without mattress unless the mattress is an integral part of the cot.</p> <p>Position the cot on the floor (4.7) with the legs against the stops (4.6). The tilting tendencies shall not be restrained.</p> <p>Adjust the cot base to its highest position.</p> <p>Attach the test mass (4.10) on the inside at the centre of the upper edge of the cot side/end so that its centre of gravity is 50 mm below the upper edge of the cot side/end (Figure 13). At the same side/end, apply a force of 30 N horizontally outwards at the centre of the upper edge of the cot side/end.</p> <p>Record whether the cot overturns.</p>	<p>⇒ Łóżeczko nie przewróciło się. <i>Cot did not overturn.</i></p> <p>⇒ Patrz też EN 716-1:2017, punkt 4.3. <i>See also EN 716-1:2017, Clause 4.3.</i></p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T

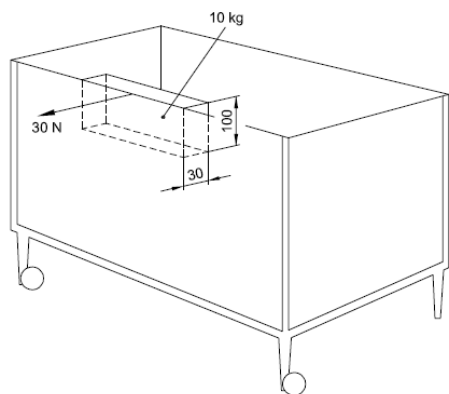
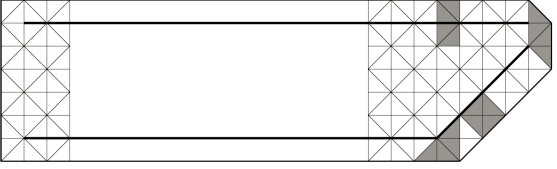

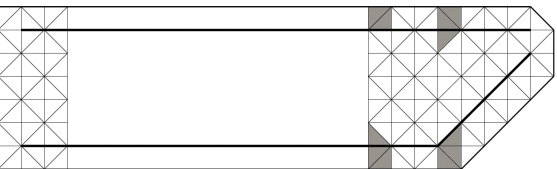

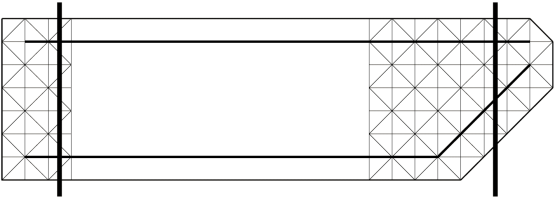

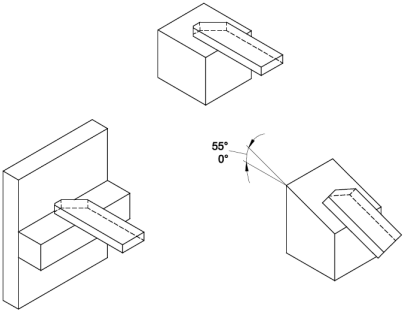
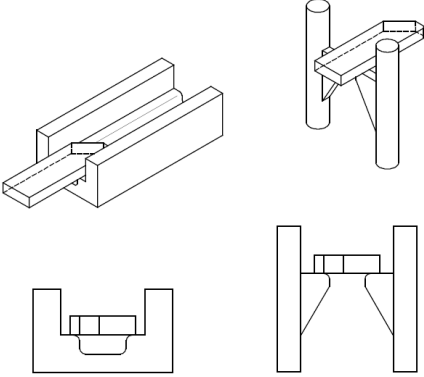
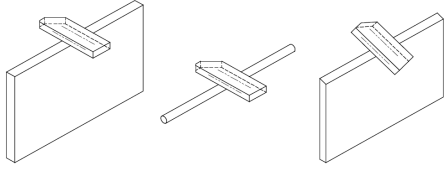
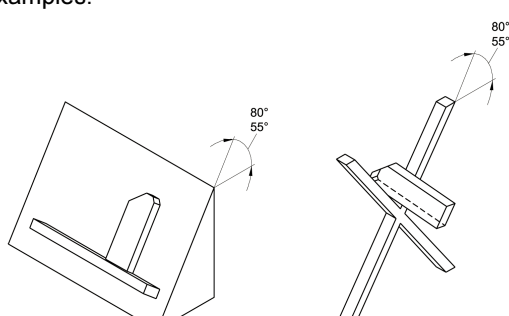


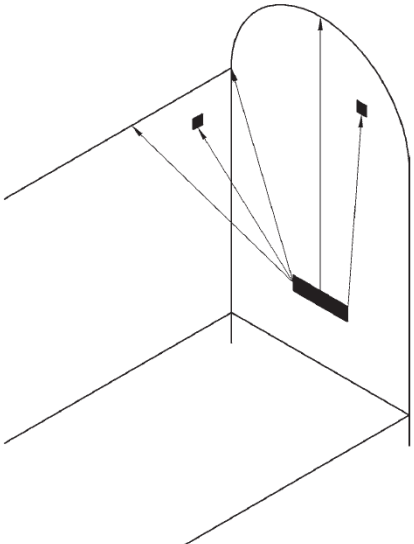
Figure 13 – Stability

5.3 Footholds		
5.3.1 Determination of a foothold		
5.3.1.1 General		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
Seams in fabrics of multiple layers are not considered as footholds.	Nie dotyczy Not applicable	
5.3.1.2 Continuous structure		
Wymagania / requirements	Spostrzeżenia / remarks	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
<p>A foothold exists on a continuous structure if four triangles marked on the template are completely obscured by the structure being checked. These four triangles shall have at least one side in common with another of the triangles, see Figure 14.</p>  <p>Key  This shaded area denotes one triangle; four shaded areas denote four covered triangles</p> <p>Figure 14 – Examples of obscured triangles indicating a foothold on a continuous structure</p>	<p>⇒ Założenia normy uwzględniono. The standard assumptions included.</p> <p>⇒ Patrz dalsze punkty raportu. See further section of the report.</p>	
5.3.1.3 Non-continuous structure		
Wymagania / requirements	Spostrzeżenia / remarks	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
<p>A foothold exists on a non-continuous structure if two or more triangles marked on the template are completely obscured between the edge of the template and the bold lines of the template by the structure being checked. The two or more triangles on either side of the template shall have at least one side in common with each other, see Figure 15.</p>  <p>Key  This shaded area denotes one triangle.</p> <p>Figure 15 – Examples of obscured triangles on a foothold on a non-continuous structure</p>	<p>⇒ Założenia normy uwzględniono. The standard assumptions included.</p> <p>⇒ Patrz dalsze punkty raportu. See further section of the report.</p>	

5.3.1.4 Wire, thin structures and similar parts		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>A foothold exists on a wire, thin structure and similar part if it projects across the bold lines on the template, see Figure 16. Any wire, thin structure or similar part with a maximum width of 5 mm shall be checked in accordance with 5.2.2.3.</p>  <p>Key  This denotes a wire, thin structure or similar structure.</p> <p>Figure 16 – Example of a foothold on a wire, thin structure and similar part</p>	<p>⇒ Założenia normy uwzględniono. <i>The standard assumptions included.</i></p> <p>⇒ Patrz dalsze punkty raportu. <i>See further section of the report.</i></p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3.2 Tests for footholds		
5.3.2.1 Footholds on a continuous structure at an angle less than 55°		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Using either the left or right hand template, place the template with its marked face on any continuous structure inclined at less than 55° to the horizontal. Orientate either template, Figure 9, to check whether four triangles are obscured; see Figure 17.</p>  <p>Figure 17 – Examples of footholds on a continuous structure at an angle less than 55°</p>	<p>⇒ Brak elementów zachęcających do wspinania się. <i>No elements which may encourage to climb.</i></p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T

5.3.2.2 Footholds on a non-continuous structure at an angle of less than 55°		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Using either the left or right hand template, place the template with its marked face on any non-continuous structure inclined at less than 55° to the horizontal. Orientate either template, Figure 9, to check whether any triangles are obscured on either side of the bold lines on the template; see Figure 18.</p>  <p>Figure 18 – Examples of footholds on a non-continuous structure at an angle less than 55°</p>	<p>⇒ Brak elementów zachęcających do wspinania się. No elements which may encourage to climb.</p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3.2.3 Wire, thin structures or similar parts at an angle less than 55°		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Using either the left or right hand template, place the template with its marked face on any wire, thin structure or similar parts at an angle less than 55° to the horizontal. Check whether the wire, thin structure or similar part has a line of contact extending between the two bold lines marked along the template, Figure 9. See Figure 19 for examples.</p>  <p>Figure 19 – Examples of footholds on wire, thin structures and similar parts at an angle less than 55°</p>	<p>⇒ Brak elementów zachęcających do wspinania się. No elements which may encourage to climb.</p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T

5.3.2.4 Intersecting or adjacent structures where the second structure prevents slipping		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Using either the left or right hand template, place the template with its marked face on any structure, thin structure or similar parts between 55° and 80° to the horizontal where there is also a supporting structure. Orientate either template, Figure 9, to check whether any four triangles are obscured. See Figure 20 for examples.</p>  <p>Figure 20 – Example of footholds on intersecting or adjacent structures where the second structure prevents slipping</p>	<p>⇒ Brak elementów zachęcających do wspinania się. <i>No elements which may encourage to climb.</i></p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3.2.5 Flexible materials		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Where flexible materials or fabrics are covering rigid components, the template shall be pushed against the flexible material or fabric with a horizontal force of up to 30 N acting along the longitudinal axis of the template. Orientate either template, Figure 9, to check whether any four triangles are obscured by the rigid components indicating a foothold.</p> <p>Rigid components do not include fabrics, seams in fabrics of multiple layers.</p>	<p>Nie dotyczy. Brak elastycznych materiałów. <i>Not applicable. No flexible materials</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T

5.3.3 Measurement of distance between footholds and/or top of cot sides and ends	
Wymagania / requirements	Spostrzeżenia / remarks
<p>Measure the distance between the top of any foothold and the top of the cot side and end in any direction, see Figure 21. Footholds include also the top of the cot base and the top of the mattress base, but exclude the top of the cot side and end.</p> <p>When measuring from a mattress base, the measurement shall be carried out with the test dummy (4.16) on the mattress base. The measurement shall be taken from the bottom of the test dummy.</p>  <p>Figure 21 – Example of measurement between footholds and/or top of cot sides and ends</p>	<p>⇒ Patrz EN 716-1:2017, punkt 4.4.8.2 See EN 716-1:2017, Clause 4.4.8.2</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>

5.4 Measurements

5.4.1 Holes, gaps and openings inside the cot

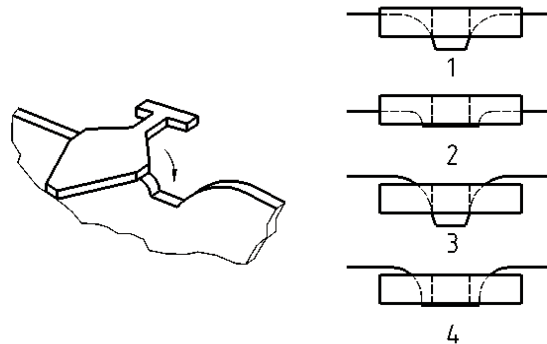
Wymagania / requirements	Spostrzeżenia / remarks	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T																																												
Press the applicable measuring probe (4.1) with a force as specified in Table 1 between the wires of the mesh, the slats of the cot base, the side slats and between the cot base and the sides and ends.	⇒ Patrz EN 716-1:2017, punkt 4.4.2 See EN 716-1:2017, Clause 4.4.2																																													
Table 1 — Measuring probe diameters and applied forces																																														
	<table border="1"> <thead> <tr> <th>Holes, gaps and openings</th> <th>Cylindrical probe diameter in mm</th> <th>Cone diameter in mm</th> <th>Force in N</th> </tr> </thead> <tbody> <tr> <td>Shear and squeeze points</td> <td>5</td> <td>-</td> <td>No force</td> </tr> <tr> <td>Shear and squeeze points</td> <td>18</td> <td>-</td> <td>No force</td> </tr> <tr> <td>Mesh of sides and ends</td> <td>-</td> <td>7</td> <td>30</td> </tr> <tr> <td>Diameter of holes, clearance between structural members</td> <td>-</td> <td>45</td> <td>No force</td> </tr> <tr> <td>Diameter of holes, clearance between structural members</td> <td>-</td> <td>65</td> <td>30</td> </tr> <tr> <td>Distance between cot base and sides and ends</td> <td>-</td> <td>25</td> <td>30</td> </tr> <tr> <td>Slats of the cot base</td> <td>-</td> <td>60</td> <td>30</td> </tr> <tr> <td>Mesh of cot base</td> <td>-</td> <td>85</td> <td>90</td> </tr> <tr> <td>All other holes, gaps and openings</td> <td>7</td> <td>25 and 65</td> <td>30</td> </tr> <tr> <td>All other holes, gaps and openings</td> <td>12</td> <td>45</td> <td>No force</td> </tr> </tbody> </table>	Holes, gaps and openings	Cylindrical probe diameter in mm	Cone diameter in mm	Force in N	Shear and squeeze points	5	-	No force	Shear and squeeze points	18	-	No force	Mesh of sides and ends	-	7	30	Diameter of holes, clearance between structural members	-	45	No force	Diameter of holes, clearance between structural members	-	65	30	Distance between cot base and sides and ends	-	25	30	Slats of the cot base	-	60	30	Mesh of cot base	-	85	90	All other holes, gaps and openings	7	25 and 65	30	All other holes, gaps and openings	12	45	No force	
Holes, gaps and openings	Cylindrical probe diameter in mm	Cone diameter in mm	Force in N																																											
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Mesh of cot base	-	85	90																																											
All other holes, gaps and openings	7	25 and 65	30																																											
All other holes, gaps and openings	12	45	No force																																											

5.4.2 Holes, gaps and openings on the outside of the cot

5.4.2.1 Completely bound holes, gaps and openings

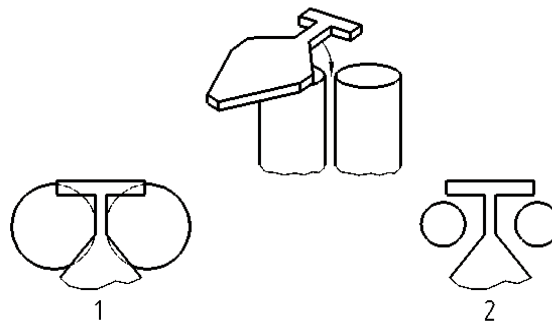
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
Press the small head probe (4.14.1) with the highest force possible up to 30 N into completely bound openings. If the small head probe passes completely through the opening, check whether the large head probe (4.14.2) passes completely through the completely bound opening with a force of up to 5 N. If completely bound openings contain V or irregular shaped openings, they shall also be tested in accordance with 5.4.2.2.	⇒ Patrz EN 716-1:2017, punkt 4.4.3 See EN 716-1:2017, Clause 4.4.3	

5.4.2.2 Partially bound, V and irregular shaped holes, gaps and openings		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Position the 'B' portion of the template (4.15) between and perpendicular to the boundaries of the opening, as shown in Figure 22 or Figure 23 as appropriate. If the full thickness of the template cannot be inserted there is no hazard, but if the full thickness of the template can be inserted there is a hazard, see Figure 22 and Figure 23.</p> <p>If the template (4.15) can be inserted to a depth greater than the thickness of the template (45 mm), apply the 'A' portion of the template, so that its centre line is in line with the centre line of the opening. Ensure that the plane of the template is parallel and applied in line with the opening, as shown in Figure 24. Insert the template along the centre line of the opening until its motion is arrested by contact with the boundaries of the opening. If the template touches the bottom of the opening there is no hazard, but if the sides of the template touch the sides of the opening there is a hazard, see Figure 24.</p>	<p>⇒ Patrz EN 716-1:2017, punkt 4.4.3 See EN 716-1:2017, Clause 4.4.3</p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T

**Key**

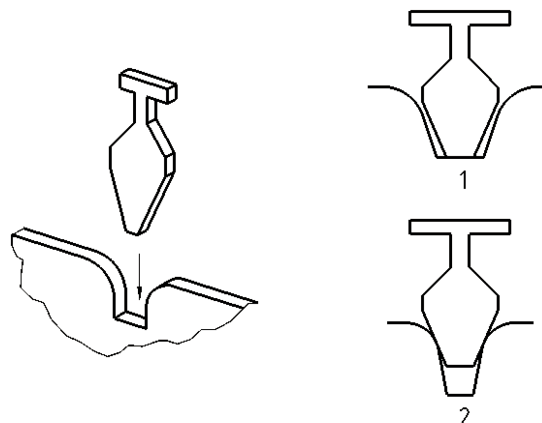
1 and 2 are not a hazard
3 and 4 are a hazard

Figure 22 – Method of insertion of portion B

**Key**

1 is not a hazard
2 is a hazard

Figure 23 – Method of insertion of portion B

**Key**

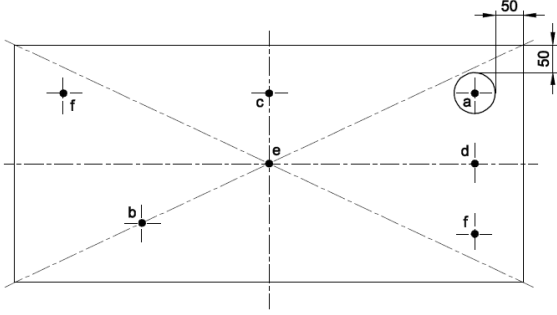
1 is not a hazard
2 is a hazard

Figure 24 – Method of insertion of portion A

5.5 Small parts		
5.5.1 General		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>These tests are applicable only to small parts which are considered grippable by a child and which may fit wholly into the small parts cylinder (4.9).</p> <p>A part is considered to be grippable by a child if it can grip the part between its thumb and forefinger or between its teeth.</p> <p>The tension test (5.5.3) shall be carried out after the torque test (5.5.2) and on the same part as used for the torque test.</p>	<p>⇒ Patrz EN 716-1:2017, punkt 4.4.1.4 See EN 716-1:2017, Clause 4.4.1.4.</p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.5.2 Torque test		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Apply a torque gradually to the part within a period of approximately 5 s in a clockwise direction until either:</p> <p>a) rotation of 180° from the original position has been attained; or</p> <p>b) torque of 0,34 Nm is reached.</p> <p>The maximum rotation or required torque shall be applied for (10 ± 2) s.</p> <p>The part shall then be allowed to return to a relaxed condition and the procedure repeated in an anticlockwise direction.</p> <p>Where projections, parts or assemblies are rigidly mounted on an accessible rod or shaft designed to rotate together with the projections, parts or assemblies, the rod or shaft shall be clamped to prevent rotation during the test.</p> <p>If a part which is attached by a screw thread that becomes loosened during application of the required torque, the torque shall continue to be applied until the required torque is exceeded or the part disassembles or it becomes apparent that the part will not disassemble.</p> <p>When using clamps and test equipment care shall be taken not to damage the attachment mechanism or body or the part.</p>	<p>⇒ Patrz EN 716-1:2017, punkt 4.4.1.4 See EN 716-1:2017, Clause 4.4.1.4.</p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.5.3 Tension test		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Apply a tensile force to the part through a clamp or by other suitable means. Apply a force of:</p> <ul style="list-style-type: none"> – 50 N where the largest accessible dimension is less than or equal to 6 mm; – 90 N where the largest accessible dimension is greater than 6 mm. <p>Apply the force gradually over approximately 5 s and maintain for (10 ± 2) s.</p> <p>If the part has become detached, check whether the part fits wholly within the small parts cylinder (4.9).</p>	<p>⇒ Patrz EN 716-1:2017, punkt 4.4.1.4 See EN 716-1:2017, Clause 4.4.1.4.</p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T

5.6 Bite test		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>The bite test shall be carried out in two stages:</p> <p>a) pinch the materials of the inside face of the cot rim between finger and thumb and attach the bite tester (4.11) so as to "bite" the smallest amount of materials possible to allow contact with all four teeth and apply a pulling force of 50 N, maintaining it for 10 s to the bite tester; then</p> <p>b) open the jaws of the bite tester as far as possible and push it horizontally onto the cot rim as far as the guide, allow the teeth to close on the cot rim and apply a pulling force of 50 N, maintaining it for 10 s to the bite tester.</p> <p>This test procedure shall be applied to the following positions of the cot rim:</p> <p>c) centre of the longest straight edge;</p> <p>d) centre of the longest radiused portion;</p> <p>e) centre of the smallest radiused portion;</p> <p>f) any joint or seam;</p> <p>g) any other position considered more onerous.</p> <p>If, during the test procedure, the outer material of the cot rim is punctured by the teeth, remove the outer material to expose the layer below or the filling and repeat stages a and b until the filling cannot be reached or no filling becomes detached. As soon as any filling becomes detached the test shall be terminated.</p> <p>A puncture has occurred when at least one tooth of the bite tester has broken the textile or plastic material to which it is being applied, the tooth passing through the entire thickness of the material. Where the bite tester is applied to materials of a loose weave or open mesh, a puncture has occurred when part of the weave or mesh is broken by at least one of the teeth of the bite tester. If the teeth of the bite tester pass a loose weave or open mesh without damaging the material, a puncture has not occurred.</p>	<p>⇒ Patrz EN 716-1:2017, punkt 4.4.9 See EN 716-1:2017, Clause 4.4.9</p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
5.7 Tests for cot base and mattress base		
5.7.1 Folding test of the mattress base and cot base		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Apply a force of 50 N to the bed base or mattress bed base by pulling or pushing the bed base or mattress bed base in the position most likely to cause folding of the short or the long side.</p> <p>The force shall not be applied on any attachment device (e.g. button, touch-and-close fastener etc.)</p>	<p>⇒ Patrz EN 716-1:2017, punkt 4.4.7.1 See EN 716-1:2017, Clause 4.4.7.1</p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T

5.7.2 Strength of cot base and mattress base (impact test)

Wymagania / requirements	Spostrzeżenia / remarks	
<p>Place the test mattress (4.3) flat on the cot base or mattress base.</p> <p>Drop the bottom impactor (4.2) 1000 times, at a rate of not more than 30 times per min, through a distance of 150 mm above the cot base or mattress base, onto the test mattress at each of the selected positions of impact. The impactor shall fall freely and bouncing shall not be restricted.</p> <p>The impactor shall not hit the test mattress on the same position when alternating between the impact points. The test mattress shall not be used for more than 5 complete tests.</p> <p>The points of impact shall be a) to f) as follows, see Figure 25:</p> <ol style="list-style-type: none"> any corner; any place where the bottom appears weakest, or - if no specific weak spot can be selected - in the corner diagonally opposite a); centre of one side; centre of one end; centre of the cot base; if the cot base can have more than one height position, and if its support construction is not the same for the different positions, the base shall be tested additionally in its highest position, but then only at the two diagonal corners that have not been tested.  <p>Figure 25 – Points of impact</p> <p>The horizontal distance between the side of the impactor and the outer edge of the cot base or mattress base shall be 50 mm at points a, c, d, and f.</p> <p>Remove the test mattress and check if parts of the cot base or mattress base are broken or if the cot base or mattress base has loosened from its fastening.</p> <p>Carry out inspection according to 5.1.</p>	<p>⇒ Patrz EN 716-1:2017, punkt 4.4.7.3 See EN 716-1:2017, Clause 4.4.7.3</p>	<p><input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T</p>

5.8 Strength of sides and ends	
5.8.1 Static load test of slats (bending test)	
Wymagania / requirements	Spostrzeżenia / remarks
<p>Position the cot on the floor (4.7) with all the legs secured by stops (4.6). Prevent the cot from tilting.</p> <p>Apply a force of 250 N in turn to one slat positioned in the middle and one at the end and to any other slat likely to cause failure. The force shall act horizontally in the directions of the longitudinal and transverse axis of the cot. It shall be applied midway between the top and the bottom of the slat. The load duration shall be 30 s.</p> <p>Carry out inspection according to 5.1. Record any break.</p>	<p>⇒ Patrz EN 716-1:2017, punkt 4.4.8.3 See EN 716-1:2017, Clause 4.4.8.3</p> <p><input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T</p>
5.8.2 Strength of sides or side slats (impact test)	
Wymagania / requirements	Spostrzeżenia / remarks
<p>Position the cot on the floor (4.7) with all legs secured by stops (4.6). Prevent the cot from tilting.</p> <p>Place the side impactor (4.4) so that the impact acts on the side slat or side, from both the outside and inside directions, at a height of 200 mm below the top edge of the side (see Figure 26).</p> <p>One slat shall be hit from the outside, the next from the inside, and so forth. Carry out the test first from the outside and subsequently from the inside.</p> <p>When testing cots with solid sides, the impacts shall act on ten evenly distributed positions on the long sides and four evenly distributed positions on the end sides, with the direction of impact alternating from inside to outside the cot.</p> <p>Allow the impactor to swing freely from a horizontal position onto the side slat or side. Repeat 10 times, then position the impactor at the next slat or next point of impact. Continue the test until all slats or all previously determined impact points have been tested.</p> <p>Carry out inspection according to 5.1.</p>	<p>⇒ Patrz EN 716-1:2017, punkt 4.4.8.3 See EN 716-1:2017, Clause 4.4.8.3</p> <p><input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T</p>

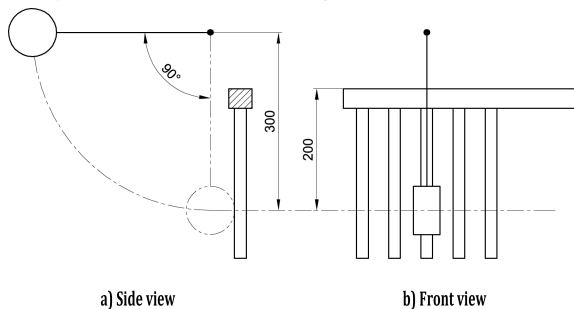


Figure 26 – Impactor for sides

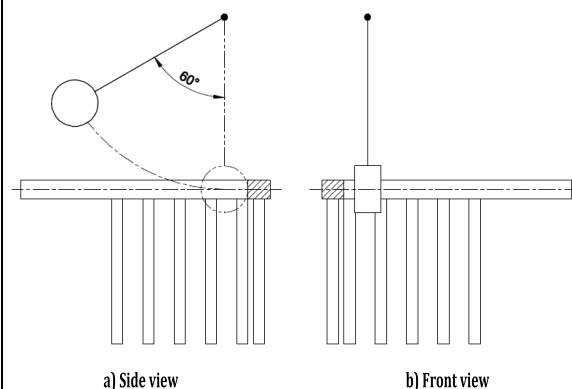
5.8.3 Strength of corners (impact test)

Wymagania / requirements

Position the cot on the floor (4.7) with all legs secured by stops (4.6). Prevent the cot from tilting.

Position the impacter to hit the side frames as high and as close to the corner post as possible (Figure 27). Allow the impacter to swing freely from an angle of 60° from the vertical. Carry out this procedure at each side member in each corner of the cot making five impacts from inside the cot and five impacts from outside the cot at each position.

Carry out inspection according to 5.1.



a) Side view

b) Front view

Figure 27 – Impacter for corners

Spostrzeżenia / remarks

⇒ Patrz EN 716-1:2017, punkt 4.4.8.3
See EN 716-1:2017, Clause 4.4.8.3

P
 F
 N/A
 N/T

5.8.4 Strength of mesh and flexible sides and ends (static load test)

Wymagania / requirements

Position the cot on the floor (4.7) with the legs against stops (4.6) and the base in its lowest position.

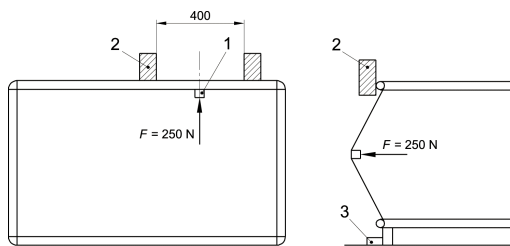
At the side/end to be tested, position the retaining blocks (4.12) so that the front sides of the blocks touch the upper edge of the cot from the outside (Figure 28) but without applying a force to the cot edge. Fix the retaining blocks to a permanent or rigid structure, but not to the cot, to prevent their movement.

The distance between the retaining blocks shall be 400 mm.

The force shall be applied on each mesh or fabric side midway between the top and the bottom of the side/end at the most onerous point such that the loading position lies on a vertical line midway between the retaining blocks.

From inside the cot gradually apply a horizontal outwards force of 250 N three times at each point by means of a loading pad (4.5) against the cot side/end. Maintain the force for 30 s (Figure 28).

Carry out inspection according to 5.1. Record any break or loosened seam.



Key

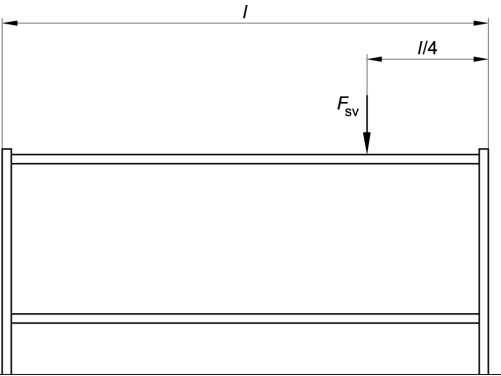
- 1 loading pad
- 2 retaining block
- 3 stop

Figure 28 – Example of applying the force at the mesh or fabric side

Spostrzeżenia / remarks

Nie dotyczy
Not applicable

P
 F
 N/A
 N/T

5.9 Strength of frame and fastenings		
5.9.1 Vertical static load test		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Apply a vertical downwards force of 300 N as shown in Figure 29 to the top of the cot side 10 times. All sides and ends of different construction shall be tested.</p> <p>Carry out inspection according to 5.1.</p>  <p>Key <i>l</i> length of the cot <i>l/4</i> quarter of the length of the cot <i>F_{sv}</i> Static force applied on the cot</p> <p>Figure 29 – Example of applying the load</p>	<p>⇒ Patrz EN 716-1:2017, punkt 4.4.8.4 See EN 716-1:2017, Clause 4.4.8.4</p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T

5.9.2 Durability test

Wymagania / requirements

Position the cot on the floor (4.7) with all the legs secured by stops (4.6).
Position a mass of 20 kg distributed over an area of approximately 150 mm × 150 mm at the centre of the bottom of the cot. The mass may consist of more than one part.
Apply forces of 100 N by means of loading pads (4.5) and a device that can press the cot in 4 directions horizontally, with 2 of the forces in the longitudinal (AB) direction and 2 in the lateral direction (CD) opposite each other (Figure 30). The durability forces shall be applied for 2 000 cycles on each point in turn in the order A, B, C, D or A-B followed by C-D (which equals one cycle).

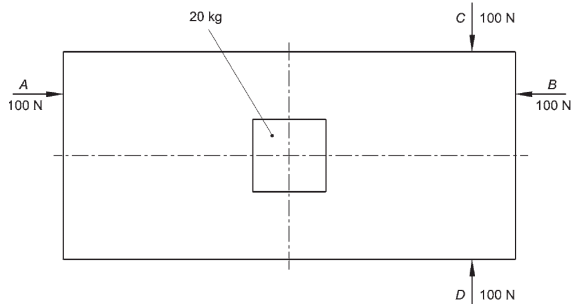


Figure 30 – Durability test

The points for applying the forces (A, B, C, D) shall be located 50 mm from the intersection point of the centrelines of the side members at the highest point at that position (see Figure 31).

Carry out inspection according to 5.1.

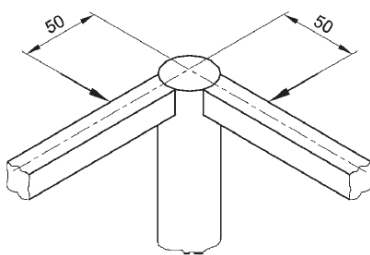


Figure 31 – Durability test

Spostrzeżenia / remarks

⇒ Patrz EN 716-1:2017, punkt 4.4.8.4
See EN 716-1:2017, Clause 4.4.8.4

P
 F
 N/A
 N/T

5.10 Snag points		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Place the cot base in its lowest position.</p> <p>This test shall be carried out using one hand only.</p> <p>Hold the weight (4.8) in one hand. Using fingers of the same hand, create an open loop at the connection between the test chain (4.8) and the weight. Place the open loop over any potential snag point accessible from the inside of the cot. Lower the weight until either the loop gets caught and the weight hangs freely from the snag point or the loop slides over the edge.</p> <p>Carry out the test three times at each position.</p> <p>Record whether the loop of the test chain gets caught under the load of the spherical weight hanging freely.</p>	<p>⇒ Patrz EN 716-1:2017, punkt 4.4.5 See EN 716-1:2017, Clause 4.4.5</p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.11 Locking mechanisms		
5.11.1 Durability		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Operate (close and open) the locking mechanism 300 times.</p> <p>When applicable, measure the force needed for the operation. In the case of revolving elements, measure the tangential force.</p>	<p>⇒ Patrz EN 716-1:2017, punkt 4.4.6 See EN 716-1:2017, Clause 4.4.6</p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
5.11.2 Strength		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>This test applies only to folding cots.</p> <p>Erect the cot in accordance with the manufacturer's instructions.</p> <p>Position the cot on the floor (4.7) with the legs against stops (4.6). If the cot tends to tilt secure it in a manner which does not prevent folding.</p> <p>Apply a force of 200 N to the frame in the most onerous direction(s) trying to fold the cot. For each direction, apply the force five times for 2 min each.</p>	<p>⇒ Patrz EN 716-1:2017, punkt 4.4.6 See EN 716-1:2017, Clause 4.4.6</p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
5.12 Stability test		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Repeat test according to 5.2.</p>	<p>⇒ Patrz EN 716-1:2017, punkt 4.5 See EN 716-1:2017, Clause 4.5</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
Photo documentation

Fotografia / Photo 1
General view



Fotografia / Photo 2
General view



Fotografia / Photo 3
General view



Fotografia / Photo 4
General view



Fotografia / Photo 5
Construction details



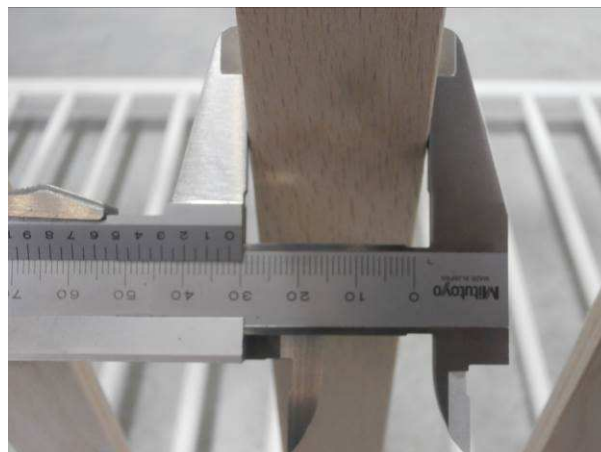
Fotografia / Photo 6
Construction details



Fotografia / Photo 7
Construction details



Fotografia / Photo 8
Construction details



Fotografia / Photo 9
Construction details



Fotografia / Photo 10
Construction details



Fotografia / Photo 11
Mechanical testing



Fotografia / Photo 12
Mechanical testing



Fotografia / Photo 13
Mechanical testing



Fotografia / Photo 14
Mechanical testing



Fotografia / Photo 15
Mechanical testing



Fotografia / Photo 16
Mechanical testing



Koniec raportu

End

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