


**TÜVRheinland®**

AB 904

**Raport z badań nr: 26633353-2/2018**

Test Report No.:

Strona Page: 1

Stron Pages: 35

Załączniki Annex: 1

<b>Zleceniodawca:</b> <i>Client:</i>	POL-POWER Sp. z o.o. ul. Poznańska 113A, 62-052 Komorniki				
<b>Przedmiot badania:</b> <i>Test item:</i>	Przewijak niemowlęcy do użytku domowego Changing units for domestic use				
<b>Producent / Klient zew.:</b> <i>Manufacturer / ext. Customer:</i>	POL-POWER Sp. z o.o. ul. Poznańska 113A, 62-052 Komorniki				
<b>Oznaczenie:</b> <i>Identification:</i>	STAR Wickelkommode (Art. Num. 36-492-__-)	<b>Nr seryjny:</b> <i>Serial no.:</i>	none		
<b>Przyjęcie towaru nr:</b> <i>Receipt no.:</i>	P/18/136	<b>Data przyjęcia:</b> <i>Date of receipt:</i>	20.03.2018		
<b>Miejsce kontroli:</b> <i>Testing location:</i>	TÜV Rheinland Polska Sp. z o.o. ul. Lutycka 11, 60-415 Poznań				
<b>Podstawa badań:</b> <i>Test specification:</i>	PN-EN 12221-1+A1:2014-02 (point 4.2.2 of PN-EN 12221-1+A1:2014-02 was excluded from compatibility tests with the objective standard)  PN-EN 12221-2+A1:2014-02 PN-EN 14749:2016-04				
<b>Wynik badania:</b> <i>Test Result:</i>	Przedmiot badania odpowiada w/w podstawie(om) badawczej(y). The test item passed the test specification(s).				
<b>Opracowane / compiled by:</b> LABORATORIUM BADAWCZE TÜV RHEINLAND POLSKA ODDZIAŁ POZNAŃ Specjalista ds. badań Ł. Skrzypczak 11.04.2018		<b>Autoryzowane / authorized by:</b> LABORATORIUM BADAWCZE TÜV RHEINLAND POLSKA ODDZIAŁ POZNAŃ Kierownik ds. technicznych W. Sajewicz 11.04.2018			
<b>data</b> <i>Date</i>	<b>nazwisko</b> <i>Name</i>	<b>podpis</b> <i>Signature</i>	<b>data</b> <i>Date</i>	<b>nazwisko</b> <i>Name</i>	<b>podpis</b> <i>Signature</i>
11.04.2018	Ł. Skrzypczak		11.04.2018	W. Sajewicz	
<b>Inne / Other Aspects:</b>					
<b>Szczegóły konstrukcyjne ⇒ patrz Identyfikacja przedmiotu badań / Dokumentacja fotograficzna</b> <i>Construction details ⇒ see Identification of test item and Photo documentation</i>					
<b>Skróty:</b> P(ass) = zgodne z podstawami kontroli F(ail) = niezgodne z podstawami kontroli N/A = nie dotyczy N/T = nie badano		<b>Abbreviations:</b> P(ass) = passed F(ail) = failed N/A = not applicable N/T = not tested			

Raport z badań odnosi się wyłącznie do badanych obiektów i nie może być powielany w formie wyciągu bez zezwolenia Laboratorium. Raport nie upoważnia do korzystania ze znaków oraz logo firmy TÜV Rheinland Group. Skrót A – metoda akredytowana, P – metoda podzlecona.  
 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.

Laboratorium Badawcze TÜV Rheinland Polska  
 32-020 Wieliczka, Park Kingi 1  
 Laboratorium Badawcze Oddział Poznań, Laboratorium Mechaniczne  
 ul. Lutycka 11, 60-415 POZNAŃ, tel./fax: +48 61 864 22 58, +48 61 867 81 87  
 www.tuv.pl

**Raport z badań nr: 26633353-2/2018**  
*Test Report No.:*

Strona *Page:* 2  
 Stron *Pages:* 35  
 Załączniki *Annex:* 1

**Stosowane przyrządy/urządzenia pomiarowe**  
*Used measuring equipment*

<b>Pomiar</b> <i>Measurement</i>	<b>Numer urządzenia</b> <i>Equipment no.</i>	<b>Data następnej kalibracji</b> <i>Next calibration date</i>
Dimensions / weight	A/37/W/P-H.1	05.2019
	A/137/W/P-H.1	03.2020
	A/166/W/P-H.1	03.2020
Static / dynamic tests	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/58/S/P-H.1	03.2019
	A/68/W/P-H.1	09.2019
	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/125/S/P-H.1	03.2019
	A/128/W/P-H.1	02.2019
	E/213/S/P-H.1	06.2019
	A/237/W/P-H.1	04.2020
Environmental conditions	A/148/W/P-H.1	09.2019

## **Identyfikacja przedmiotu badań**

*Identification of test item*

### **STAR Wickelkommode (Art. Num. 36-492- -)**

Komoda z przewijakiem przeznaczona do użytku domowego. Konstrukcja melba wykonana z laminowanej płyty wiórowej o grubości 18 i 15 mm. Przestrzeń do przechowywania tworzą dwie szuflady na prowadnicach z ogranicznikami otwarcia oraz cztery półki (dwie z nich zakryte za drzwiami o pionowej osi obrotu). Drzwi zawieszane na dwóch zawiasach GTV. Wyrób stoi na 8 nóżkach z tworzywa sztucznego przymocowanych do wieńca dolnego. Mebel przeznaczony przez producenta do mocowania do ściany.

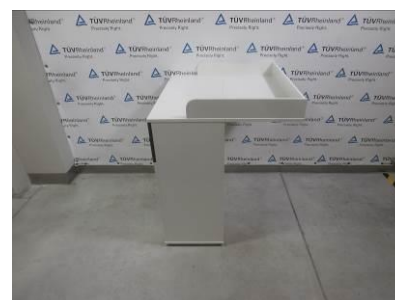
Wymiary gabarytowe: 895x800x1010 mm

Masa: 41,36 kg

*Chest of drawers with changing top surface intended for domestic use. The structure of furniture is made of laminated chipboard with the thickness of 18 and 15 mm. The storage area created by two drawers mounted on runnings with stops and four shelves (two of them hidden by pivoted doors), Each door mounted on two GTV hinges. The item placed on eight plastic feet attached to the bottom. The piece of furniture intended for wall attaching by the manufacturer.*

*Dimensions: 895x800x1010 mm*

*Weight: 41,36 kg*




Rys. 1 STAR Wickelkommode (Art. Num. 36-492-\_\_-)

Fig. 1 STAR Wickelkommode (Art. Num. 36-492-\_\_-)

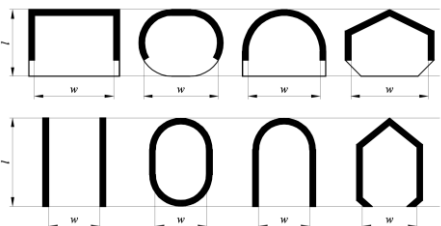
## PN-EN 12221-1+A1:2014

4 General requirements		
4.1 Dimensions		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>The dimensions of the changing area, when measured in accordance with EN 12221-2:2008+A1:2013, 5.2 shall be for type 1 changing units at least width: 380 mm, length: 650 mm, and type 2 changing units at least width: 550 mm and length: 750 mm.</p> <p>The length of the changing area is the intended longitudinal position of the child on the unit.</p> <p>The width of the changing area is the measurement perpendicular to the length.</p>	<p>⇒ Długość powierzchni do przebierania wynosi 761 mm. <i>The length of the changing area equals 761 mm.</i></p> <p>⇒ Szerokość powierzchni do przebierania wynosi 857 mm. <i>The width of the changing area equals 857 mm.</i></p> <p>⇒ Wymiary powierzchni do przebierania odpowiadają wymaganiom dla przewijaka typ 2. <i>The dimensions of the changing area correspond to the requirements for type 2 changing units.</i></p>	<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 Wood		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Wood, wood-based materials and materials of vegetable origin shall be free from decay and insect attack when checked in accordance with EN 12221-2:2008+A1:2013, 5.1.</p>	<p>⇒ Materiały drewnopochodne wolne od zgnilizny i porażenia biotycznego. <i>Wood-based materials free from decay and insect attack.</i></p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5 Construction		
5.1 Holes, gaps and openings		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>The following requirements shall apply before and after testing in accordance with EN 12221-2:2008+A1:2013, Clause 5.</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
5.1.1 Entrapment of fingers		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Within the accessibility zone there shall be no holes, gaps and openings with a width greater than 7 mm and less than 12 mm, unless the depth is less than 10 mm when measured in accordance with EN 12221-2:2008+A1:2013, 5.3.1.</p>	<p>⇒ W dostępnej przestrzeni brak otworów i szczelin o szerokości większej niż 7 mm i mniejszej niż 12 mm. <i>Within the accessibility zone there are no holes, gaps and openings with a width greater than 7 mm and less than 12 mm.</i></p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.1.2 Entrapment of limbs		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Within the accessibility zone there shall be no holes, gaps and openings having a width greater than 25 mm and smaller than 45 mm when measured in accordance with EN 12221-2:2008+A1:2013, 5.3.2.</p>	<p>⇒ W dostępnej przestrzeni brak otworów i szczelin o szerokości większej niż 25 mm i mniejszej niż 45 mm. <i>Within the accessibility zone there are no holes, gaps and openings with a width greater than 25 mm and smaller than 45 mm.</i></p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.1.3 Entrapment of head, neck and torso		
5.1.3.1		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Within the accessibility zone there shall be no hole, gap or opening larger than 65 mm and less than 223 mm when measured in accordance with EN 12221-2:2008+A1:2013, 5.3.3.1.</p>	<p>⇒ W dostępnej przestrzeni brak otworów i szczelin o szerokości większej niż 65 mm i mniejszej niż 223 mm. <i>Within the accessibility zone there are no holes, gaps and openings with a width greater than 65 mm and smaller than 223 mm.</i></p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T

5.1.3.2		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Within the area 600 mm above the floor to the accessibility zone, see Figure 2, there shall be no hole, gap or opening accessible in normal use that allows the type 1 head probe to pass completely through unless it also allows the type 2 head probe to pass completely through, when tested in accordance with EN 12221-2:2008+A1:2013, 5.3.3.2.</p>  <p><b>Key</b> 1 Changing unit 2 Floor</p> <p><b>Figure 2 – Head Entrapment</b></p>	<p>⇒ W dostępnej przestrzeni znajdującej się powyżej 600 mm od podłogi znajdują się otwory umożliwiające włożenie próbnika głowy typ 2. <i>Within the area 600 mm above the floor to the accessibility zone there are openings that allows the type 2 head probe to pass completely through.</i></p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.1.3.3 V-shaped openings		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Within the area 200 mm above the floor to the accessibility zone any hole, gap or opening accessible in normal use that allows the type 1 head probe to pass completely through shall not be a V-shaped opening as defined in 3.6 when tested in accordance with EN 12221-2:2008+A1:2013, 5.3.3.3.</p>	<p>⇒ W dostępnej przestrzeni znajdującej się powyżej 200 mm od podłogi brak otworów w kształcie V. <i>Within the area 200 mm above the floor to the accessibility zone there are no V-shaped openings.</i></p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.1.4 Cords, strings and other narrow fabrics		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Cords, strings and other narrow fabrics (e.g. those used for ties) shall have a free length of not more than 220 mm when tested in accordance with EN 12221-2:2008+A1:2013, 5.3.4.</p>	<p>Nie dotyczy <i>Not applicable</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
5.1.5 Loops		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Loops shall not have a peripheral dimension greater than 360 mm when tested in accordance with EN 12221-2:2008+A1:2013, 5.3.5.</p>	<p>Nie dotyczy <i>Not applicable</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
5.2 Edges and protruding parts		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Edges and protruding parts accessible in normal use shall be rounded or chamfered and free of burrs (see EN 12221-2:2008+A1:2013, 5.3.6). The upper edges of the barriers and the changing surface shall have a radius of not less than 2 mm.</p>	<p>⇒ Górna krawędź barierki i powierzchnia przewijania wykończona promieniem 2 mm. <i>The upper edges of the barriers and the changing surface have a radius of 2 mm.</i></p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T


<b>5.3 Moving parts</b>		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Changing board flaps are excluded from this requirement, as they are covered by 5.12.</p> <p>When the changing unit is erected ready for use the distance between two parts within the accessibility zone which move relative to each other shall always be less than 5 mm or more than 12 mm throughout the entire movement when tested in accordance with EN 12221-2:2008+A1:2013, 5.4.</p>	Nie dotyczy Not applicable	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
<b>5.4 Locking and folding mechanisms of the complete unit</b>		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>If the changing unit can be folded it shall not fold when tested in accordance with EN 12221-2:2008+A1:2013, 5.10.</p> <p>Locking and folding mechanisms shall function correctly before and after being tested in accordance with EN 12221-2:2008+A1:2013, 5.10.</p> <p>When the changing unit is erected ready for use, the locking mechanisms shall fulfil one of the following requirements:</p> <p>a) require a minimum force of 50 N to release the folding mechanism before and after being tested according to EN 12221-2:2008+A1:2013, 5.10.2; or</p> <p>b) require at least two consecutive actions to release the mechanism, the operation of 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 to release the mechanism, operating on different principles.</p> <p>Changing board flaps and wall mounted changing units are excluded from this requirement.</p>	Nie dotyczy Not applicable	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
<b>5.5 Small detachable components</b>		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Any small detachable component of the changing unit that can be detached when tested in accordance with EN 12221-2:2008+A1:2013, 5.5 shall not fit wholly in the cylinder described in EN 12221-2:2008+A1:2013, 4.10.</p>	⇒ Brak małych, łatwych do rozłączenia elementów w obszarze przewijania. There are no small, easy detachable elements in changing area.	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
<b>5.6 Castors/wheels</b>		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Castors/wheels shall not be fitted except in the arrangement, either:</p> <ul style="list-style-type: none"> <li>– two or more castors/wheels and at least two other support points; or</li> <li>– four or more castors/wheels, of which at least two can be locked.</li> </ul> <p>The locks shall prevent the castors/wheels from rolling and they shall not unlock when tested in accordance with EN 12221-2:2008+A1:2013, 5.12.</p>	Nie dotyczy Not applicable	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T

<b>5.7 Self-tapping screws</b>		
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 changing units for purposes of transportation or storage. NOTE Self-tapping screws include wood screws, particleboard screws and alike.	⇒ Przedmiot badań przeznaczony do codziennego użytku domowego nie do częstego składania i rozkładania w celu transportu. <i>The tested item is intended for normal, domestic use not for frequent dismantling for purposes of transportation or storage.</i>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
<b>5.8 Stability</b>		
Wymagania / requirements	Spostrzeżenia / remarks	
When tested in accordance with EN 12221-2:2008+A1:2013, 5.6, the changing unit shall not overturn and the maximum movement of any changing board flap shall be 10° from its closed position.	⇒ Wyrób przeznaczony do mocowania do ściany. <i>The item intended for attaching to a wall.</i>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
<b>5.9 Strength</b>		
Wymagania / requirements	Spostrzeżenia / remarks	
When tested in accordance with EN 12221-2:2008+A1:2013, 5.7 the function of the changing unit shall be unimpaired.	⇒ Podczas badań przewijak nie został uszkodzony. <i>During the test, the changing unit was not damaged.</i>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
<b>5.10 Extension elements</b>		
Wymagania / requirements	Spostrzeżenia / remarks	
Extension elements located above the changing area shall be fitted with effective open stops.	⇒ Elementy wysuwane znajdują się poniżej przestrzeni do przewijania. <i>Extension elements placed below changing area.</i>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T

<b>5.11 Barriers</b>		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Barriers shall be provided as an integral part of the changing unit or by means of an additional item, e.g. barrier pad that can be affixed to the changing unit.</p> <p>a) if <math>w</math> is greater than <math>l</math> and greater than 600 mm then the changing area shall have barriers on three sides of the changing area covering at least 75 % of <math>l</math> (see Figure 3);</p> <p>b) if <math>l</math> is greater than <math>w</math> the changing area shall have barriers on two sides of the changing area covering at least 90% of <math>l</math> (see Figure 3).</p> <p>Where <math>w</math> is the width of the changing area (see 4.1) and <math>l</math> is the length of the changing area (see 4.1).</p> <p>For wall-mounted units, the wall is to be considered as a barrier for this side.</p>  <p><b>Key</b>  <math>l</math> length  <math>w</math> width</p> <p><b>Figure 3 – Examples for arrangements of barriers</b></p> <p>When tested in accordance with EN 12221-2:2008+A1:2013, 5.8 the barriers from the changing unit shall not become damaged or loosened, nor shall the test cylinder fall from the changing area.</p>	<p>⇒ Przedmiot badań wyposażony w bariery otaczające z trzech stron powierzchnię do przewijania.  <i>The tested item equipped with barriers on three sides of the changing area.</i></p> <p>⇒ Bariery pokrywają 75% długości przewijaka.  <i>The barriers cover 75% of length.</i></p> <p>⇒ Podczas badań zgodnie z PN-EN 12221-2+A1:2014, punkt 5.8, bariery nie zostały uszkodzone.  <i>During the test in accordance with PN-EN 12221-2+A1:2014, Clause 5.8, barriers was not damaged.</i></p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
<b>5.12 Changing board flap</b>		
<b>5.12.1 Impact test</b>		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Where the changing unit has a flap, which allows for an additional function, for example access to a bathtub, it shall not close and the fittings, e.g. locking mechanisms, hinges etc. shall not be damaged when tested in accordance with EN 12221-2:2008+A1:2013, 5.9.1.</p>	<p>Nie dotyczy  <i>Not applicable</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
<b>5.12.2 Drop test</b>		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Where the changing unit has a flap, locking mechanisms, hinges etc. shall not be damaged and the changing unit shall function normally after testing in accordance with EN 12221-2:2008+A1:2013, 5.9.2.</p>	<p>Nie dotyczy  <i>Not applicable</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
<b>5.13 Child bath tub</b>		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>After testing in accordance with EN 12221-2:2008+A1:2013, 5.11, no breakage or leakage shall be observed.</p> <p>The child bathtub and the changing unit shall remain intact and function normally.</p>	<p>Nie dotyczy  <i>Not applicable</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T

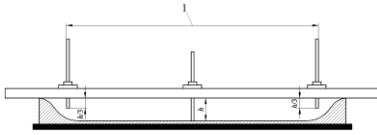


6 Plastic packaging		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Any plastic covering used as packaging that does not fulfil the requirements of EN 71-1, shall be conspicuously marked in the official language(s) of the country where the changing unit is sold with the following statement:</p> <p><b>“TO AVOID DANGER OF SUFFOCATION REMOVE PLASTIC COVER BEFORE USING THIS ARTICLE. THIS COVER SHALL BE DESTROYED OR KEPT AWAY FROM CHILDREN”</b></p> <p>NOTE The statement may be expressed in different words providing they clearly convey the same information</p>	<p>⇒ Producent dostarczył wyrób całkowicie zmontowany bez opakowania. <i>The manufacturer provided the item fully assembled without packaging.</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T

7 Instructions for use	
Wymagania / requirements	Spostrzeżenia / remarks
<p>Instructions shall be provided in the official language(s) of the country where the unit is sold. These instructions shall be headed "<b>IMPORTANT. RETAIN FOR FUTURE REFERENCE. READ CAREFULLY</b>".</p> <p>These instructions shall include the following:</p> <p>a) the warning: WARNING: "Do not leave the child unattended"; the following symbol may be used with the warning sentence.</p>  <p><b>Figure 4 – Example of warning symbol</b></p> <p>b) an assembly drawing, list and description of all parts and tools required for assembly and a diagram of the bolts and other fastenings required;</p> <p>c) statement that all assembly fittings shall always be correctly tightened and checked regularly;</p> <p>d) be aware of the risk of open fires and other sources of strong heat, such as electric bar fires, gas fires, etc. in the near vicinity of the changing unit;</p> <p>e) cleaning and maintenance recommendations;</p> <p>f) if a pad is not supplied with the unit, guidance on what changing pad, if any, is to be used and how to affix it in order to provide sufficient barriers;</p> <p>g) information concerning the adequate height of the unit and mounting instructions for wall mounted units;</p> <p>h) when applicable, information that the changing unit must be fixed to the wall for safe use of the product and that fastenings used should be appropriate to the wall;</p> <p>i) statement that when lockable castors/wheels are fitted, they shall be locked when the changing unit is in use;</p> <p>j) weight/age of the child for which the product is intended:</p> <ul style="list-style-type: none"> <li>– for type 1 changing units: 12 months, up to 11 kg</li> <li>– for type 2 changing units: 15 kg;</li> </ul> <p>k) means of identifying the product e.g. model number;</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>

<p>l) the name, registered trade name or registered trademark of either the manufacturer of distributor or retailer;</p> <p>m) statement any additional or replacement parts shall only be obtained from the manufacturer or distributor;</p> <p>n) statement not to use the changing unit when any part is broken, torn or missing</p>		
<b>8 Marking</b>		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>All changing units shall be permanently marked with the following information:</p> <p>a) the name, registered trade name or registered trademark of either the manufacturer of distributor or retailer together with means of identifying the product;</p> <p>b) warning: <b>"WARNING. DO NOT LEAVE THE CHILD UNATTENDED"</b>;</p> <p>c) the number and year of this European Standard;</p> <p>d) for Type 1 changing units, information on the maximum age and weight: 12 months, up to 11 kg.</p>	<p>⇒ Producent dostarczył oznakowanie w formie pliku pdf. Oznakowanie spełnia wymagania normy.</p> <p>⇒ <i>The manufacturer provided marking as pdf. file. The marking fulfilled standard requirements..</i></p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
<b>9 Purchase information</b>		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>The following information shall be provided at the point of sale:</p> <p>a) weight/age of the child for which the product is intended:</p> <ul style="list-style-type: none"> <li>– for type 1 changing units: 12 months, up to 11 kg</li> <li>– for type 2 changing units: 15 kg;</li> </ul> <p>b) if a pad is not supplied with the unit, guidance on what changing pad, if any, is to be used and how to affix it in order to provide sufficient barriers;</p> <p>c) when applicable, information that the changing unit must be fixed to the wall for safe use of the product;</p>	<p>Nie dotyczy. Przedmiotem badań był model dostarczony i zmontowany w siedzibie laboratorium. Informacje z punktu 9 dostępne w instrukcji obsługi.</p> <p><i>Not applicable. The test item was delivered and assembled in the laboratory. Information from Clause 9 is mentioned in manual instruction.</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T

## PN-EN 12221-2+A1:2014

5 Test procedure		
5.1 Assembly and inspection before test		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Assemble the changing unit in accordance with the manufacturer's instructions. Where changing pads or the like provide the barriers for the changing unit they shall be assembled for use. Prior to the test, inspect the changing unit visually and record any defects.</p> <p>Tighten all fittings.</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
5.2 Measurement of changing area		
5.2.1 Measurement of width		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Position the changing unit on the base (see 4.5, 4.6, 4.7) according to the type.</p> <p>Place the test beam (see 4.11) across the width of the changing area (as shown in Figure 7). Place a measurement rod (see 4.12) through the central hole of the test beam (see 4.11) so that it rests on the top of the changing surface. <i>h</i> is the distance that the measuring rod protrudes below the underside of the test beam. Place two measuring rods, adjusted to extend one third of <i>h</i> below the underside of the test beam, through the relevant holes in the test beam.</p> <p>If the collars on these two measuring rods rest on the upper surface of the test beam then the width requirement is met.</p>  <p><b>Key</b> 1 Minimum width</p> <p><b>Figure 7 – Method of measurement of the width</b></p>	<p>⇒ Patrz PN-EN 12221-1+A1:2014, punkt 4.1 <i>See PN-EN 12221-1+A1:2014, Clause 4.1</i></p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.2.2 Measurement of the length		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Measure the length of the changing area by the same procedure as specified for the measurement of width in 5.2.1, except that the relevant holes for the minimum length shall be used. If the height of the barrier is not the same at both ends, the test beam (see 4.11) shall be raised at the lower end until it is parallel to the changing surface.</p> <p>If the vertical projections of the rods are within the area of the changing units and the collars rest on the upper surface of the test beam then the length requirement is met.</p>	<p>⇒ Patrz PN-EN 12221-1+A1:2014, punkt 4.1 <i>See PN-EN 12221-1+A1:2014, Clause 4.1</i></p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T

5.3 Measurement of gaps, holes and openings		
Wymagania / requirements	Spostrzeżenia / remarks	
Drawers, doors and alike shall be closed during the tests unless otherwise stated.	⇒ Założenia normy uwzględniono. The standard assumptions included.	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3.1 Finger entrapment		
Wymagania / requirements	Spostrzeżenia / remarks	
Apply the 7 mm finger probe (see 4.3) with a force of up to 30 N and if it enters more than 10 mm, then apply the 12 mm finger probe (see 4.3) with a force of up to 5 N.	⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.1.1 See PN-EN 12221-1+A1:2014, Clause 5.1.1	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3.2 Limb entrapment		
Wymagania / requirements	Spostrzeżenia / remarks	
Apply the 25 mm diameter measuring cone (see 4.2) with a force up to 30 N and if it enters then apply the 45 mm diameter measuring cone (see 4.2), which shall also enter with a force of up to 5 N.	⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.1.2 See PN-EN 12221-1+A1:2014, Clause 5.1.2	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3.3 Entrapment of head, neck and torso		
5.3.3.1		
Wymagania / requirements	Spostrzeżenia / remarks	
Check all holes, gaps and openings within the accessibility zone. Apply the measuring cone of diameter 65 mm (see 4.2) with a force of up to 30 N and if it enters then the head probe 2 (see 4.16.2) shall also enter with a force of up to 5 N.	⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.1.3.1 See PN-EN 12221-1+A1:2014, Clause 5.1.3.1	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3.3.2		
Wymagania / requirements	Spostrzeżenia / remarks	
Check all holes, gaps or openings where the lower edge of the hole, gap or opening is 600 mm or more above the floor up to the accessibility zone. Attempt to insert head probe 1 (see 4.16.1) in a straight line applying a force of up to 30 N. If head probe 1 passes completely through the hole, gap or opening, check whether head probe 2 will also pass through when a force of up to 5 N is applied.	⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.1.3.2 See PN-EN 12221-1+A1:2014, Clause 5.1.3.2	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3.3.3		
Wymagania / requirements	Spostrzeżenia / remarks	
Check all holes, gaps and openings where the lower edge of the hole, gap or opening is 200 mm or more above the floor up to the accessibility zone. Attempt to insert head probe 1 in a straight line applying a force of up to 30 N. If head probe 1 passes completely through the opening, check whether the opening is a V shaped opening, as defined in EN 12221-1:2008+A1:2013, 3.6.	⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.1.3.3 See PN-EN 12221-1+A1:2014, Clause 5.1.3.3	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3.4 Cords, strings and other narrow fabrics		
Wymagania / requirements	Spostrzeżenia / remarks	
Measure the free length of cords, strings and other narrow fabrics from the fixing point to the end when stretched by a force of 25 N.	⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.1.4 See PN-EN 12221-1+A1:2014, Clause 5.1.4	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T

<b>5.3.5 Loops</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
Measure the peripheral dimension of a loop with a force of 25 N applied.	⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.1.5 See PN-EN 12221-1+A1:2014, Clause 5.1.5	
<b>5.3.6 Edges and protruding parts</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
Inspect the product to determine whether accessible edges, screws, bolts, zips and other fittings are rounded or chamfered and free from burrs and sharp edges. Measure the required minimum radii.	⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.2 See PN-EN 12221-1+A1:2014, Clause 5.2	
<b>5.4 Moving 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
Check whether the gap between parts that move relative to each other satisfies the requirements in EN 12221-1:2008+A1:2013, 5.3.	⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.3 See PN-EN 12221-1+A1:2014, Clause 5.3	
<b>5.5 Small detachable components</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
<p>Apply a tensile force to the component to be tested through a clamp or by other suitable means.</p> <p>Apply a force of:</p> <ul style="list-style-type: none"> <li>– 50 N where the largest accessible dimension is less than or equal to 6 mm;</li> <li>– 90 N where the largest accessible dimension is greater than 6 mm.</li> </ul> <p>Apply the force gradually over 5 s and maintain for 10 s.</p> <p>If the component has become detached, check whether the component fits wholly within the cylinder (4.10).</p>	⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.5 See PN-EN 12221-1+A1:2014, Clause 5.5	
<b>5.6 Stability</b>		
<b>5.6.1 General</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
<p>Position the changing unit on the appropriate test base: floor (see 4.5), wall (see 4.6) or bath test base (see 4.7). Legs, wheels or castors shall be positioned against stops (see 4.8). The tilting tendencies shall not be restrained.</p> <p>In the case of changing units with castors or wheels, place them in the most onerous position and unlock.</p> <p>All doors, flaps, drawers and the like shall be closed.</p>	<p>⇒ Założenia normy uwzględniono. The standard assumptions included.</p> <p>⇒ Patrz dalsze punkty raportu. See further section of the report.</p>	

### 5.6.2 Stability of floor standing changing units

#### Wymagania / requirements

Remove the changing pad, if detachable.  
Place the test beam with its 80 mm wide face (see 4.11) horizontally onto the changing area so that its centre of gravity is positioned vertically above the geometric centre of the changing area. The test beam shall be positioned perpendicular to the side to be checked.

Determine the load application point by measuring 100 mm inwards from the innermost point of contact of the test beam with the barrier.

Fix the test beam with its 80 mm wide face to the changing area and place the centre of the test mass (see 4.9) or the test cylinder (see 4.4) at the determined load application point.

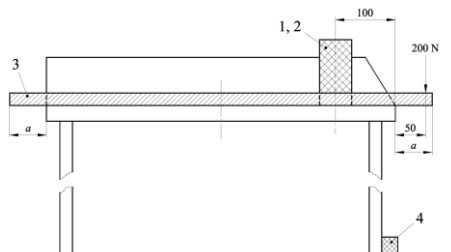
Where there is no barrier the 100 mm distance shall be measured from the edge of the changing area.

Apply an external force of 200 N, at a distance of 50 mm from the outer edge of the changing unit as shown in Figure 8.

All tests shall be made in the following order:

- stability under lowest top weight (5 kg internally, 200 N externally);
- stability under heaviest top weight (15 kg internally, 200 N externally).

Check all four sides of the unit.



#### Key

- 1 Test mass 5 kg
- 2 Test cylinder 15 kg
- 3 Test beam
- 4 Stops

**Figure 8 – Example of application of the test beam and the test mass respectively the test cylinder**

#### Spostrzeżenia / remarks

⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.8  
See PN-EN 12221-1+A1:2014, Clause 5.8

P  
 F  
 N/A  
 N/T

### 5.6.3 Stability of bathtub mounted changing units

#### Wymagania / requirements

Attach the unit in accordance with manufacturer's instructions to the bath test base as shown in Figure 9a).

Remove the changing pad, if detachable.

Place the test beam with its 80 mm wide face (see 4.11) horizontally onto the changing area so that its centre of gravity is positioned vertically above the geometric centre of the changing area. The beam shall be positioned perpendicular to the side to be checked.

Determine the load application point by measuring 100 mm inwards from the innermost point of contact of the test beam with the barrier.

Fix the test beam with its 80 mm wide face to the changing area and place the centre of the test mass (see 4.9) or the test cylinder (see 4.4) at the determined load application point.

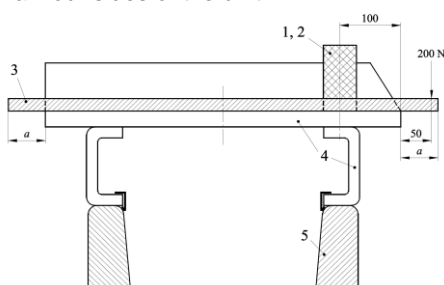
Where there is no barrier the 100 mm distance shall be measured from the edge of the changing area.

Apply an external force of 200 N, at a distance of 50 mm from the outer edge of the changing unit as shown in Figure 9a).

All tests shall be made in the following order:

- stability under lowest top weight (5 kg internally, 200 N externally);
- stability under heaviest top weight (15 kg internally, 200 N externally).

Check all four sides of the unit.



#### Key

- 1 Test mass 5 kg
- 2 Test cylinder 15 kg
- 3 Test beam
- 4 Changing unit
- 5 Bath test base

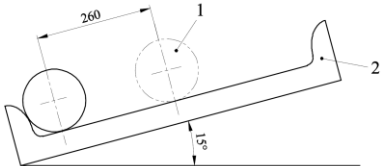
**Figure 9 a) – Example of application of the test beam and the mass respectively the test cylinder**

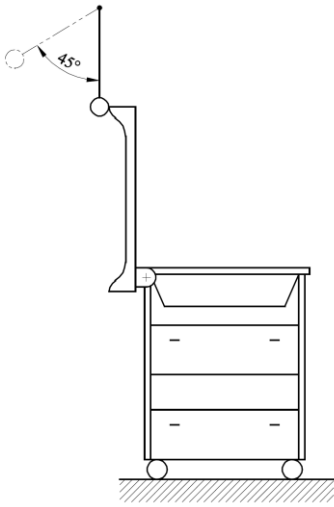
#### Spostrzeżenia / remarks

Nie dotyczy  
Not applicable

P  
 F  
 N/A  
 N/T



5.7 Strength	
Wymagania / requirements	Spostrzeżenia / remarks
<p>Position the changing unit in its maximum extended position if possible, ready for use on the appropriate test base (see 4.5, 4.6, 4.7 ). Place a total mass of 50 kg uniformly distributed on the top of the changing area.</p> <p>If the changing unit is fitted with shelves or drawers, load each shelf or drawer with a weight of 2 kg.</p> <p>Leave the changing unit under these load conditions for one hour, then remove the loads and leave the changing unit for 30 minutes.</p>	<p>⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.9 See PN-EN 12221-1+A1:2014, Clause 5.9</p>
<p style="text-align: right;"> <input checked="" type="checkbox"/> P  <input type="checkbox"/> F  <input type="checkbox"/> N/A  <input type="checkbox"/> N/T         </p>	
5.8 Barriers	
Wymagania / requirements	Spostrzeżenia / remarks
<p>If a changing pad is supplied or recommended in the manufacturer's instructions for use this shall be fitted before carrying out the test.</p> <p>Place the changing unit on an inclined surface at 15° (+ 0,5°/ 0°) to the horizontal and put stops against all legs to prevent it overturning.</p> <p>Position the test cylinder (see 4.4 ) in such a way that its turning axis lies parallel to the safety barrier to be tested (see Figure 10) so that the cylinder rests against the barrier to be tested.</p>  <p><b>Key</b> 1 Test cylinder 15 kg 2 Barrier</p> <p><b>Figure 10 – Effectiveness of barriers</b></p> <p>Roll the cylinder away from the barrier and release it when its longitudinal axis is aligned with, and at a distance of 260 mm from its rest position against the barrier.</p> <p>Test each safety barrier three times.</p> <p>Check whether the number and length of the barriers complies with the requirements in accordance with EN 12221-1:2008+A1:2013, 5.11.</p>	<p>⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.11 See PN-EN 12221-1+A1:2014, Clause 5.11</p>
<p style="text-align: right;"> <input checked="" type="checkbox"/> P  <input type="checkbox"/> F  <input type="checkbox"/> N/A  <input type="checkbox"/> N/T         </p>	

<b>5.9 Changing board flap</b>		
<b>5.9.1 Impact test</b>		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Legs, wheels or castors shall be positioned against stops (see 4.8). Raise the changing board flap from the closed position to the fully open position.</p> <p>Where the changing board flap is provided with a locking device to maintain it in the open position the test shall be carried out with the locking device engaged.</p> <p>Use the side impactor (see 4.15 ) and apply 5 impacts as shown in Figure 11 to one end of the top edge of the flap in the closing direction. Drop the side impactor through an angle of 45° to the vertical line.</p> <p>Repeat the test at the other end of the top edge of the changing flap.</p>  <p style="text-align: center;"><b>Figure 11 – Flap impact test</b></p>	<p>⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.12.1 See PN-EN 12221-1+A1:2014, Clause 5.12.1</p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
<b>5.9.2 Drop test</b>		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Allow the flap to fall freely from the most onerous position until it comes to rest. Carry out the test ten times.</p>	<p>⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.12.1 See PN-EN 12221-1+A1:2014, Clause 5.12.1</p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
<b>5.10 Locking and folding of the complete unit</b>		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Open and close the complete unit three hundred times fully operating any associated locking mechanisms.</p>	<p>⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.4 See PN-EN 12221-1+A1:2014, Clause 5.4</p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
<b>5.10.1</b>		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Erect the changing unit ready for use. Apply a force of 200 N at any position and any direction on the frame considered likely to cause folding. Apply the force five times at this point and maintain each application for 2 min.</p>	<p>⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.4 See PN-EN 12221-1+A1:2014, Clause 5.4</p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T

<b>5.10.2</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
Gradually apply a force of 50 N by any adequate means in any direction that corresponds to normal use when operating the mechanism.	⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.4 See PN-EN 12221-1+A1:2014, Clause 5.4	
<b>5.11 Child bathtub</b>		
<b>5.11.1 Static 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
Place the child bathtub in the position ready for use. Fill the child bathtub with water to 10 mm from the lowest point of the rim. Leave for 15 min. This test shall be carried out before and after 5.11.3.	⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.13 See PN-EN 12221-1+A1:2014, Clause 5.13	
<b>5.11.2 Thermal test</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
Place the child bathtub in the position ready for use. Put a quarter of the water volume at 90 °C ± 2 °C in the child bathtub. Leave it 5 min, and then add three quarters of the water volume of which the temperature is between 5 °C and 15 °C. The volume is that defined in 5.11.1. Leave it for 5 min.	⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.13 See PN-EN 12221-1+A1:2014, Clause 5.13	
<b>5.11.3 Child bathtub impact test</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
Place the bathtub in the normal position of use. The bathtub shall be empty and at room temperature. Position the test tube (see 4.13) vertically above the centre of the child bathtub bottom. Drop the steel ball (see 4.14) through the tube onto the bottom of the child bathtub from a height of 600 mm measured from the bottom to the underside of the steel ball. Carry out the test ten times at the same point.	⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.13 See PN-EN 12221-1+A1:2014, Clause 5.13	
<b>5.12 Castors and/or wheels</b>		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
Put the castors and/or wheels in the locked position. Check by inspection and by moving the changing unit around whether the locks prevent the castors and/or wheels from rolling or if they can become unlocked.	⇒ Patrz PN-EN 12221-1+A1:2014, punkt 5.6 See PN-EN 12221-1+A1:2014, Clause 5.6	

## PN-EN 14749:2016-04

5 Safety requirements																
5.1 Principles of safety requirements																
5.1.1 General																
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 safety requirements are based upon the knowledge that kitchen units, bathroom units and domestic storage furniture and their components are likely to cause serious injury only when they are heavy and fall through a significant distance. This is possible if floor standing units overturn, wall or screen hanging units become detached, or heavy components become detached from units.</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>															
5.1.2 Determination of centre of gravity																
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 centre of gravity above the floor (for floor standing units) shall be measured when installed according to the manufacturer's instructions.</p> <p>Levelling devices shall be set at their middle position.</p> <p>Height adjustable components shall be placed in their highest position.</p> <p>The centre of gravity of a component or unit shall be taken as the geometric centre of that unit, except in the case of extension elements, where the geometric centre of the usable volume shall be used.</p> <p>All wall hanging units or top hanging units or components thereof are considered to have their centre of gravity more than 900 mm above the floor.</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>															
5.1.3 Determination of total mass																
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 total mass is the mass of the component or unit plus the mass determined according to Table 1, unless the unit or component is conspicuously and durably marked by the manufacturer with a maximum load, in which case the unit or component shall be loaded with the stated maximum load multiplied by 1,2. The volume of fixed baskets shall be taken as the volume contained below their top edge.</p> <p>The volume of extension elements shall be taken as the area of its bottom multiplied by the clear height.</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>															
<b>Table 1 — Loads</b>																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Component</th> <th>Load</th> </tr> </thead> <tbody> <tr> <td>All horizontal storage areas, including shelves, bottoms, tops and bottom hinged flaps</td> <td style="text-align: center;">0,65 kg/dm<sup>2</sup></td> </tr> <tr> <td>Extension elements and fixed baskets</td> <td style="text-align: center;">0,2 kg/dm<sup>3</sup></td> </tr> <tr> <td>Clothes rails</td> <td style="text-align: center;">4,0 kg/dm</td> </tr> <tr> <td>Suspended filing pockets</td> <td style="text-align: center;">2,5 kg/dm<sup>a</sup></td> </tr> <tr> <td>Storage area/-volume (3.10) for heavy appliances (e.g. refrigerator, washing machine)<sup>b</sup></td> <td style="text-align: center;">0,5 kg/dm<sup>3 c</sup></td> </tr> <tr> <td colspan="2"> <sup>a</sup> Measured perpendicular to the plane of the filing pockets.  <sup>b</sup> Other heavy objects, e.g. aquariums are not covered by this value.  <sup>c</sup> Max. load 200 kg per unit.               </td> </tr> </tbody> </table>			Component	Load	All horizontal storage areas, including shelves, bottoms, tops and bottom hinged flaps	0,65 kg/dm <sup>2</sup>	Extension elements and fixed baskets	0,2 kg/dm <sup>3</sup>	Clothes rails	4,0 kg/dm	Suspended filing pockets	2,5 kg/dm <sup>a</sup>	Storage area/-volume (3.10) for heavy appliances (e.g. refrigerator, washing machine) <sup>b</sup>	0,5 kg/dm <sup>3 c</sup>	<sup>a</sup> Measured perpendicular to the plane of the filing pockets. <sup>b</sup> Other heavy objects, e.g. aquariums are not covered by this value. <sup>c</sup> Max. load 200 kg per unit.	
Component	Load															
All horizontal storage areas, including shelves, bottoms, tops and bottom hinged flaps	0,65 kg/dm <sup>2</sup>															
Extension elements and fixed baskets	0,2 kg/dm <sup>3</sup>															
Clothes rails	4,0 kg/dm															
Suspended filing pockets	2,5 kg/dm <sup>a</sup>															
Storage area/-volume (3.10) for heavy appliances (e.g. refrigerator, washing machine) <sup>b</sup>	0,5 kg/dm <sup>3 c</sup>															
<sup>a</sup> Measured perpendicular to the plane of the filing pockets. <sup>b</sup> Other heavy objects, e.g. aquariums are not covered by this value. <sup>c</sup> Max. load 200 kg per unit.																
<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T																

5.2 General safety requirements		
5.2.1 General		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>The following requirements apply to all units and components.</p> <p>Components with which the user can come into contact during normal use shall have no burrs and/or sharp edges, nor shall there be any open-ended tubes.</p> <p>All movable components accessible during normal use shall have safety distances in any position during movement of <math>\leq 8</math> mm or <math>\geq 25</math> mm. This applies to any components moving relatively to each other, with the exception of doors, flaps and extension elements including their hardware. The safety distances also apply to the distance between handles/handgrips and other components.</p>	<p>⇒ Dostępne krawędzie zaokrąglone, brak zadziorów. <i>Exposed edges are rounded with no burrs.</i></p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.2.2 Units moving vertically		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>In order to avoid pinching points for feet, the safety height for units moving vertically shall be at least 100 mm from the floor.</p>	<p>Nie dotyczy <i>Not applicable</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
5.2.3 Lids		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>In order to prevent children's heads and necks from being entrapped by hinged lids of storage units horizontal lids that are 1000 mm or less from the floor and weigh 0,25 kg or more, shall be provided with lid-support mechanisms to prevent sudden collapse or dropping of the lid.</p> <p>The lid-support mechanism shall support the lid so that at no position in the arc of travel of the lid from within 50 mm of the fully closed position through an arc not to exceed 60° from the fully closed position shall it drop more than 12 mm under the influence of its own mass, except in the last 50 mm of travel.</p> <p>The test shall be carried out in accordance with EN 71-1:2014, 8.31.2. In the case of adjustable mechanisms, product information shall be given for the correct adjustment.</p>	<p>Nie dotyczy <i>Not applicable</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
5.2.4 Vertically moving roll fronts and vertically moving sliding doors		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>All roll fronts and doors sliding vertically including those constructed from hinged components shall not move by themselves from any position higher than 200 mm measured from the closed position.</p>	<p>Nie dotyczy <i>Not applicable</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T

5.2.5 Extension elements		
Wymagania / requirements	Spostrzeżenia / remarks	
All extension elements whose total mass (according to 5.1.3) exceeds 10 kg but where safety tests are not required shall have effective open stops, i.e. they shall resist being pulled out of the unit once by a horizontal force of 200 N applied to the handle of the loaded extension element (according to Table 1), or they shall be supplied with product information to this effect.	Nie dotyczy. Masa całkowita elementu wysuwanego < 10 kg. <i>Not applicable. Extension element's total mass &lt; 10 kg</i>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3 Structural safety requirements		
5.3.1 General		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>The tests and requirements in 5.3.2 to 5.3.9 apply to any component only when:</p> <ul style="list-style-type: none"> <li>– the height to the centre of gravity of the component is &gt; 900 mm above the floor and the total mass (5.1.3) is <math>\geq 10</math> kg;</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>– the height to the centre of gravity of the component is &gt; 350 mm and the total mass (5.1.3) is <math>\geq 35</math> kg.</li> </ul> <p>Where specified in EN 16122, storage units and their components shall be loaded in accordance with Table 1.</p> <p>Unless otherwise specified, all storage components, which are not subject to testing, shall be uniformly loaded with the specified load(s).</p> <p>When the unit or component is conspicuously and durably marked by the manufacturer with a maximum load, the unit or component shall be loaded with the stated maximum load multiplied by 1,2.</p> <p>Details on testing and application of safety requirements can be found in Annex B (informative).</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 Shelves		
5.3.2.1 Shelf retention – vertical downward		
Wymagania / requirements	Spostrzeżenia / remarks	
Unloaded shelves shall not fall down when tested according to EN 16122:2012, 6.1.3 with a downwards vertical force of 100 N.	Nie dotyczy Patrz PN-EN 14749:2016, punkt 5.3.1 <i>Not applicable</i> <i>See PN-EN 14749:2016, Clause 5.3.1</i>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3.2.2 Shelf retention – horizontal outward		
Wymagania / requirements	Spostrzeżenia / remarks	
Unloaded shelves shall not fall down when tested according to EN 16122:2012, 6.1.2 with a force representing 50 % of the weight of the unloaded shelf.	Nie dotyczy Patrz PN-EN 14749:2016, punkt 5.3.1 <i>Not applicable</i> <i>See PN-EN 14749:2016, Clause 5.3.1</i>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T

5.3.3 Shelf supports		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>If the clear height is less than 200 mm the test is not carried out.</p> <p>This test shall be carried out according to EN 16122:2012, 6.1.5 with impact plate No. 1 on all horizontal surfaces e.g. shelves, tops and bottoms that can be used as storage area. The horizontal surface shall be loaded according to Table 1.</p> <p>In case of identical shelf supports and horizontal surfaces only one test shall be carried out.</p> <p>After the test, the horizontal surface and the shelf supports shall show no fracture or other damage that can affect the safety.</p>	<p>⇒ Podczas badań wieniec górny nie został uszkodzony. <i>During the test, the top was not damaged.</i></p> <p>⇒ Pozostałe poziome powierzchnie – nie dotyczy Patrz PN-EN 14749:2016, punkt 5.3.1 <i>Another horizontal surfaces – not applicable. See PN-EN 14749:2016, Clause 5.3.1</i></p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3.4 Storage area/-volume for heavy appliances		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>This requirement is only applicable to units with shelves which are designed to carry heavy appliances, e.g. refrigerator, washing machine.</p> <p>In derogation to EN 16122:2012, 6.2.1 the test shall be carried out on all shelves, tops or bottoms which are intended to carry heavy appliances irrespective of the height above the floor.</p> <p>The test shall be carried out for one week according to EN 16122:2012, 6.2.1 with the load specified in Table 1.</p> <p>After the test the shelves, tops or bottoms and the shelf supports shall show no fracture or other damage that can affect the safety.</p>	<p>Nie dotyczy <i>Not applicable</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3.5 Pivoted doors		
5.3.5.1 Vertical load of pivoted doors		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Carry out the test according to EN 16122:2012, 7.1.2, respecting EN 16122:2012, 7.1.1 with a load of 30 kg.</p> <p>After the test the door shall remain attached to the unit.</p>	<p>Nie dotyczy Patrz PN-EN 14749:2016, punkt 5.3.1 <i>Not applicable See PN-EN 14749:2016, Clause 5.3.1</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3.5.2 Horizontal load on pivoted doors		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Carry out the test according to EN 16122:2012, 7.1.3, respecting EN 16122:2012, 7.1.1 with a horizontal static load of 60 N. This test is not applicable for doors with an opening angle &gt; 135°.</p> <p>After the test the door shall remain attached to the unit.</p>	<p>Nie dotyczy Patrz PN-EN 14749:2016, punkt 5.3.1 <i>Not applicable See PN-EN 14749:2016, Clause 5.3.1</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3.6 Sliding doors and horizontal roll fronts		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Carry out the test according to EN 16122:2012, 7.2.2, respecting EN 16122:2012, 7.2.1 with a mass <math>m_2 = 4</math> kg.</p> <p>After the test there shall be no fracture or other damage that can affect the safety.</p>	<p>Nie dotyczy <i>Not applicable</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T

5.3.7 Extension elements		
5.3.7.1 Slam open of extension elements		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Carry out the slam open test according to EN 16122:2012, 7.5.4, respecting EN 16122:2012, 7.5.1 with a load according to Table 1.</p> <p>A factor K of 2,5 shall be applied (see EN 16122:2012, A.3.2).</p> <p>Throughout the test, the extension elements shall not fall out of the cabinet.</p> <p>If a pneumatic system is used the calibration values for 5 kg drawer shall be 1,3 m/s and for 35 kg drawer 1,0 m/s.</p>	<p>Nie dotyczy Patrz PN-EN 14749:2016, punkt 5.3.1 <i>Not applicable</i> See PN-EN 14749:2016, Clause 5.3.1</p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3.7.2 Strength test of extension elements		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>The extension element shall be loaded according to Table 1.</p> <p>Carry out the test according to EN 16122:2012, 7.5.2, respecting EN 16122:2012, 7.5.1 with downward force of 200 N.</p> <p>After the test there shall be no fracture or other damage that can affect the safety.</p> <p>After the test the extension element shall remain attached to the unit.</p>	<p>Nie dotyczy Patrz PN-EN 14749:2016, punkt 5.3.1 <i>Not applicable</i> See PN-EN 14749:2016, Clause 5.3.1</p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3.8 Bottom hinged flaps		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Carry out the test according to EN 16122:2012, 7.3.1 with a force of 200 N.</p> <p>The flap shall not be loaded according to Table 1.</p> <p>After the test, the flap and/or the unit shall show no fracture or other damage that can affect the safety.</p>	<p>Nie dotyczy <i>Not applicable</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3.9 Top hinged flaps		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Carry out the test according to A.1.</p> <p>After the test there shall be no fracture or other damage that can affect the safety and the flap or components of it shall not become detached.</p>	<p>Nie dotyczy <i>Not applicable</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3.10 Kitchen-worktops and other top surfaces		
5.3.10.1 General		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Tests and requirements are applicable to all kitchen-worktops and all other top-surfaces regardless of their mass and with a height <math>\leq 1\ 000</math> mm and with a depth of the top surface <math>\geq 250</math> mm.</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



5.3.10.2 Static load test for kitchen-worktops		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>The kitchen-worktop shall not be loaded.</p> <p>Carry out the test according to EN 16122:2012, 6.2.2 with a force of 1 000 N with the derogation that bottom surfaces shall not be tested.</p> <p>After the test the kitchen-worktop and/or the unit shall show no fracture or other damage that can affect the safety.</p>	<p>Nie dotyczy Not applicable</p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3.10.3 Static load test for other top surfaces		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>The top surface shall not be loaded.</p> <p>Carry out the test according to EN 16122:2012, 6.2.2 with a force of 750 N with the derogation that bottom surfaces shall not be tested.</p> <p>After the test the top surface and/or the unit shall show no fracture or other damage that can affect the safety.</p>	<p>⇒ Podczas badań wyrób nie został uszkodzony. During the test, the item was not damaged.</p>	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
5.3.11 Wall hanging units and top hanging units		
5.3.11.1 General		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>The tests in 5.3.11 shall be carried out on all wall hanging units and top hanging units with a total mass <math>\geq 10</math> kg.</p> <p>All components shall be tested irrespective of their total mass. But the safety requirements specified in 5.3.1 to 5.3.10 do not apply to components with a total mass <math>&lt; 10</math> kg.</p> <p>The unit(s)/component(s) shall be mounted and adjusted according to the manufacturer's installation instructions. If mounting or assembly instructions are not supplied, adjustable wall attachment devices shall be adjusted to the maximum depth (as far from the wall as possible) and to the mid of the height adjustment range.</p> <p>The unit shall then be levelled by means of distance devices placed as low and as far apart as possible.</p>	<p>Nie dotyczy Not applicable</p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T

5.3.11.2 Movable components, shelf supports and top surfaces		
Wymagania / requirements	Spostrzeżenia / remarks	
<p>Load according to Table 1. As soon as possible after the loading, carry out the following tests regardless of mass and height of centre of gravity of components:</p> <ul style="list-style-type: none"> <li>– 5.3.3: Shelf supports;</li> <li>– 5.3.5: Pivoted doors;</li> <li>– 5.3.6: Sliding doors and horizontal roll fronts;</li> <li>– 5.3.7: Extension elements;</li> <li>– 5.3.8: Bottom hinged flaps;</li> <li>– 5.3.9: Top hinged flaps;</li> <li>– 5.3.10.2: Kitchen work tops <math>\leq 1000</math> mm from the floor with the derogation that the test shall be carried out at one point most likely to cause failure;</li> <li>– 5.3.10.3: Top surfaces <math>\leq 1000</math> mm from the floor with the derogation that the test shall be carried out at one point most likely to cause failure – this test is applicable for top surfaces with a depth <math>&gt; 250</math> mm.</li> </ul> <p>These tests shall be carried out on those components most likely to cause failure to the wall attachment. After the test the unit shall remain attached to the building (wall/ceiling) and shall carry the test load. It is acceptable that for each test components with a total mass less than 10 kg can become detached.</p>	<p>Nie dotyczy Not applicable</p>	<p><input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T</p>

<b>5.3.11.3 Overload</b>		
<i>Wymagania / requirements</i>	<i>Spostrzeżenia / remarks</i>	
<p>After carrying out the tests in 5.3.11.2, increase the load on all the storage areas according to the principle in EN 16122:2012, 10.1.3.</p> <p>The specified load is 250 kg/m<sup>2</sup>.</p> <p>Additionally to that load:</p> <ul style="list-style-type: none"> <li>– water basins/sinks shall be completely filled with water or an equivalent mass;</li> <li>– extension elements shall be loaded with their load according to Table 1 adding 20 % or the manufacturer's instructions adding 20 %.</li> </ul> <p>All doors and extension elements shall be open during the test.</p> <p>If the number of shelves is not determined by the structure of the unit, divide the internal height of the unit in millimetres by 200 and take the lower integer. This number minus 1 shall then be the number of shelves to be used during testing.</p> <p>If the volume of the unit, calculated by the inner width, depth and height, is &gt; 0,225 m<sup>3</sup>, the loads shall be multiplied by the factor <i>R</i>:</p> $R = \frac{1,2}{(0,75 + 2V)}$ <p>where  <i>V</i> is the volume of the unit in m<sup>3</sup>.</p> <p>When reduction of the load is necessary, it shall be removed from the bottom.</p> <p>An example is shown in Annex C (informative).</p> <p>After the test the unit shall remain attached to the building (wall/ceiling) and shall carry the test load.</p>	<p>Nie dotyczy  <i>Not applicable</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
<b>5.3.11.4 Sidewards detachment test</b>		
<i>Wymagania / requirements</i>	<i>Spostrzeżenia / remarks</i>	
<p>The unit shall not be loaded.</p> <p>Carry out the test according to A.3 with a horizontal force of 100 N or for a maximum distance of 100 mm.</p> <p>During and after the test the unit shall not become detached.</p>	<p>Nie dotyczy  <i>Not applicable</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
<b>5.3.11.5 Vertical dislodgement test</b>		
<i>Wymagania / requirements</i>	<i>Spostrzeżenia / remarks</i>	
<p>The unit shall not be loaded.</p> <p>Carry out the test according to EN 16122:2012, 10.1.4 with a vertical upwards force of 100 N.</p> <p>During and after the test the unit shall not become detached.</p>	<p>Nie dotyczy  <i>Not applicable</i></p>	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T

5.4 Stability	
5.4.1 General	
Wymagania / requirements	Spostrzeżenia / remarks
<p>The following requirements apply to free standing storage units with a height to the top of the unit <math>\geq 600</math> mm above the floor level and when the potential energy (3.15) exceeds 60 Nm.</p> <p>Free standing units which fall under the principles in 5.1 shall be tested for stability according to Table 3, following the order listed in Table 3. The stability requirements are fulfilled when, during testing in accordance with Table 3, the storage unit does not overturn.</p> <p>If during testing the overturning movement is prevented by the opening of an extension element, door or flap the component shall be prevented from opening and the test repeated.</p> <p>Where specified, the unit shall be loaded in accordance with the loads specified in Table 2. When the unit or component is conspicuously and durably marked by the manufacturer with a maximum load, the unit or component shall be loaded with the stated maximum load multiplied by 0,5, but the load shall not exceed the value calculated using Table 2.</p>	<p>⇒ Założenia normy uwzględniono. <i>The standard assumption included.</i></p> <p>⇒ Mebel przeznaczony do mocowania do ściany (instrukcja obsługi) <i>The piece of furniture intended by the manufacturer for attaching to the wall (manual instruction).</i></p> <p>⇒ Patrz PN-EN 14749:2016-04, punkt 5.5 <i>See PN-EN 14749:2016-04, Clause 5.5</i></p>

P  
 F  
 N/A  
 N/T

**Table 2 — Loads for stability testing**

Component	Load
All horizontal storage areas, including shelves, bottoms, tops and flaps	0,325 kg/dm <sup>2</sup>
Extension elements and baskets with internal height, $H, \leq 1$ dm	0,2 kg/dm <sup>3</sup>
Extension elements and baskets with internal height, $H$ , between 1 dm and 2,5 dm	$(0,2667 - 0,0667H)$ kg/dm <sup>3</sup> ( $H$ in dm)
Extension elements and baskets with internal height, $H, \geq 2,5$ dm clear height	0,1 kg/dm <sup>3</sup>
Hanging rails	2 kg/dm
Suspended filing pockets	1,25 kg/dm

**Table 3 — Stability requirements**

Test No.	Test	Reference in EN 16122:2012	Loading	Test parameter
5.4.1.1	Doors, extension elements and flaps closed, all storage units unloaded - Units that are, or can be, adjusted to a height of 1 000 mm or less	11.2.1	Vertical force, N	750
5.4.1.2	Doors, extension elements and flaps closed, all storage units unloaded - Units that are, or can be, adjusted to a height of more than 1 000 mm	11.2.2	Vertical force, N Outward horizontal force resulting in an overturning moment, Nm	350 50
5.4.1.3	All storage areas unloaded and all doors, extension elements and flaps open	11.4.1	-	-
5.4.1.4	All storage areas unloaded, with overturning load	11.4.2	Vertical force, N	75
5.4.1.5	All storage areas loaded, with overturning load	11.4.3	Vertical force, N	20 % of mass of the unit loaded according to Table 2 but not greater than 300 N
5.4.1.6	Doors, extension elements and flaps closed and locked	11.5	Outward horizontal force, N	100

**5.4.2 Kitchen floor units with kitchen-worktops**

Wymagania / requirements	Spostrzeżenia / remarks	
In addition to the tests in 5.4.1 carry out the test according to EN 16122:2012, 11.2 with a horizontal outwards overturning moment of 200 Nm. During testing, all doors, flaps and extension elements shall be closed.	Nie dotyczy Not applicable	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T

5.4.3 Stability of TV-furniture		
5.4.3.1 General		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
The requirements for TV-furniture specified in 5.4.3.2 and 5.4.3.3 are additional to the requirements in 5.4.1.	Nie dotyczy Not applicable	
5.4.3.2 One door, extension element or flap opened – storage areas unloaded		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
In addition to the tests in 5.4.1 carry out the test according to A.2.1 with a force of 150 N.	Nie dotyczy Not applicable	
5.4.3.3 Doors, extension elements and flaps closed – storage areas unloaded		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
Carry out the test according to A.2.2 with a mass of 27 kg. Place stops in front of the feet or castors of the unit and apply an outwards overturning moment of 60 Nm in the direction most likely to cause it to overturn.	Nie dotyczy Not applicable	
5.5 Floor standing units intended to be attached to the building		
Wymagania / requirements	Spostrzeżenia / remarks	<input checked="" type="checkbox"/> P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T
The requirements only apply to storage units where the height to the top of the unit is 600 mm or more above the floor level, and when the potential energy (3.15) exceeds 60 Nm. Carry out the test according to EN 16122:2012, 10.2 with a horizontal outwards force of 200 N. The force shall be maintained for not less than 10 s and not more than 15 s. After the test, the unit shall remain attached to the structure.	⇒ Mebel przeznaczony do mocowania do ściany (instrukcja obsługi) <i>The piece of furniture intended by the manufacturer for attaching to the wall (manual instruction).</i> ⇒ Podczas badań wyrób się nie przewrócił <i>During the test, the item was not overturned.</i>	
5.6 Vertical glass components		
Wymagania / requirements	Spostrzeżenia / remarks	<input type="checkbox"/> P <input type="checkbox"/> F <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/T
Any external, vertical glass component $\geq 0,1$ m <sup>2</sup> in area, where the smallest dimension is $\geq 200$ mm and any component of which is $< 900$ mm above the floor, shall not break when tested according to EN 14072:2003, or shall break as specified in EN 14072:2003, Clause 7, c) 2) or c) 3). This test shall not be carried out if the glass fulfils the requirements in EN 12150-1:2015, Clause 8, "Fragmentation test", or where the mode of breakage ( $\beta$ ) according to EN 12600 is Type B or Type C. This test shall not be carried out for vertical glass components which are fully supported by a carrier material (e.g. particle board). Load storage areas according to Table 1. The test shall be carried out according to EN 14072:2003 with a drop height of 70 mm. The impact point shall be on the most adverse corner 100 mm from each visible edge of the glass. The glass shall be impacted once	Nie dotyczy Not applicable	

<b>6 Product information</b>	
<i>Wymagania / requirements</i>	<i>Spostrzeżenia / remarks</i>
<p>Any unit intended to be attached to the building shall be supplied with installation instructions in the language of the country, where the furniture is sold. The instructions shall contain at least the following information, if applicable:</p> <p>a) installation shall be carried out exactly according to the manufacturer's instructions – otherwise a safety risk can occur if incorrectly installed; a warning shall be given to the consumer to notify them of related risks:</p> <p>EXAMPLE 1 For floor standing units intended to be attached to the building: <b>WARNING</b> In order to prevent overturning this product must be used with the wall attachment device provided.</p> <p>EXAMPLE 2 For wall hanging units: <b>WARNING</b> In order to prevent falling down this product must be used with the wall attachment device provided.</p> <p>EXAMPLE 3 For wall hanging units and top hanging units: <b>WARNING</b> Assess the suitability of the wall/ceiling to ensure that the fastening devices will withstand the forces generated.</p> <p>b) where there are no open stops for the extension element information shall be provided about the potential risk of extension element can be pulled out of the unit.</p> <p>For self-assembly furniture the following additional information is required:</p> <p>c) list of parts supplied;</p> <p>d) list of tools required;</p> <p>e) diagram of the bolts and other fastenings required.</p>	<p>⇒ Instrukcja montażu zawiera listę części i potrzebnych narzędzi do prawidłowego montażu.  <i>Manual instruction with list of parts supplied; list of tools required and diagram of the bolts.</i></p> <p>⇒ W instrukcji umieszczono ostrzeżenie „Aby zapobiec przewróceniu, ten produkt musi być przymocowany przy użyciu dołączonego urządzenia.”  <i>There is a warning in the instruction: “In order to prevent overturning this product must be used with the wall attachment device provided.”</i></p>

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



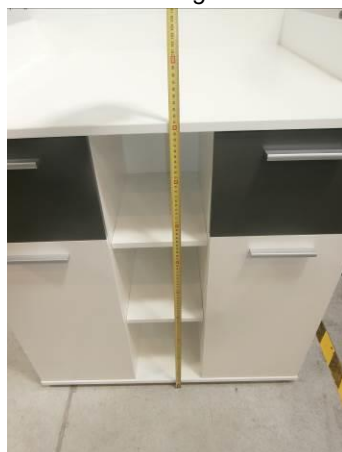
Fotografia / *Photo* 11  
*Construction details*



Fotografia / *Photo* 12  
*Marking*



Fotografia / *Photo* 13  
*Mechanical testing*



Fotografia / *Photo* 14  
*Mechanical testing*



Fotografia / *Photo* 15  
*Mechanical testing*



Fotografia / *Photo* 16  
*Mechanical testing*



Fotografia / *Photo 17*  
*Mechanical testing*



Fotografia / *Photo 18*  
*Mechanical testing*



**Koniec raportu**  
*End*