

TEST REPORT

APPLICANT : TAISHUN ZHENXING TOYS CO., LTD
ADDRESS : JIAOYANG INDUSTRIAL PARK, TAISHUN
SAMPLE DESCRIPTION : KIDS WOODEN WORKBENCH
ITEM NO. : TZ-D0034
SAMPLE RECEIVED DATE : 18-May-2023
FURTHER INFORMATION DATE : 03-Jul-2023
TURN AROUND TIME : 18-May-2023 to 04-Jul-2023

The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Children's Furniture- Seating for children- Safety requirements and test methods	BS EN 17191:2021	Pass (Except Clause 7)

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
Eurofins Product Testing Service (Shanghai) Co., Ltd


Joyce Liu
Operation Director



Samples are obtained by express delivery, Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to info.sh@eurofins.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to china.complaint@eurofins.com and referring to this report number.



TEST SAMPLE PHOTO(S)



A

EFSH23051802-CG-02

TO BE CONTINUED

REFERENCE SAMPLE PHOTO(S)



The reference sample(s) has not been tested in current report, but according to customer's request, the picture has also been included. For sample tested in current report, please refer to "Test sample photo".

TO BE CONTINUED

TEST RESULT

BS EN 17191:2021 Children's Furniture- Seating for children- Safety requirements and test methods

1). Number of Tested Sample: 1 piece

2). Level: __1__

3). Size: __1__

4). Test result: details as following tables:

Clause	Test Method/Requirement	Rating
6	General safety requirements	
6.1	Hazards from glass There shall be no glass in seating for children.	Pass
6.2	Surfaces, Edges, corners and points All parts shall be designed so that physical injury and damage are avoided. This requirement is fulfilled when: — the edges of the seat, back rest and arm rests, which are in contact with the child when sitting in the seating are rounded or chamfered; — the edges of handles are rounded in the direction of the force applied; — all other accessible edges and corners are smooth, rounded or chamfered and with no burrs. —there is no pointed or protruding surface that constitutes a puncture hazard —rough surfaces shall not cause injury during use	Pass
6.3	Entrapment hazards	
6.3.1	Finger entrapment hazards	
6.3.1.1	Requirements When tested in accordance with 6.3.1.2 there shall be no completely bounded openings in rigid materials within the protected volume that let the 7 mm probe enter unless the depth of penetration is less than 10 mm or unless the shape assessment probe enters. When measured in accordance with 6.3.1.2, it shall not be possible for the 7 mm probe for mesh to penetrate the holes of the mesh to the 7mm diameter section	Pass
6.3.2	Partially bound, V and irregular shaped openings 6.3.2.1 Requirements The following requirements apply to size 1 seating only. Partially bound and V-shaped openings with a lower edge ≥ 600 mm above the ground shall be constructed that when tested in accordance with 6.3.2.2 either: a) portion B of the V and irregular shaped openings template does not enter the opening; or b) the apex of portion A of the V and irregular shaped openings template makes contact with the base of the opening.	N/A
6.4	Hazards caused by folding of the seating	
6.4.1	Requirements	
6.4.1.1	General The following requirements do not apply to deckchairs There shall be at least one locking mechanism, which prevents a seating from folding when in use.	N/A
6.4.1.2	Incomplete deployment during the setting up In order to prevent hazards due to incomplete deployment, the seating shall fulfil	N/A

TO BE CONTINUED

TEST RESULT

Clause	Test Method/Requirement	Rating
	one of the following requirements: a) the weight of the child in the seating shall act to prevent folding; or b) at least one locking device shall engage automatically, when the seating is ready for use.	
6.4.1.3	Unintentional folding of the seating Unintentional folding of the seating shall be prevented. This requirement is fulfilled if one of the following conditions is met: a) at least one operating device requires a minimum force of 50 N to activate and a maximum force of 300 N, before and after all locking mechanisms have been operated 300 times, or b) folding is only possible if at least one locking mechanism requires the use of a tool, or c) folding is only possible, when two independent operating devices are operated simultaneously or d) there are two or more automatically engaging locking devices that cannot both be released by one single action, or e) folding of the seating requires two consecutive actions, the first of which shall be maintained while the second is carried out.	N/A
6.4.2	Automatic locking devices	
6.4.2.1	Requirement When tested in accordance with 6.4.2.2 automatic locking devices shall not release or open.	N/A
6.5	Hazards caused by deckchairs	
6.5.1	General All deck chairs, regardless of size, shall be fitted with a locking device that fulfils the requirement of 6.5.2.	N/A
6.5.2	Requirements During the tests, the transverse bar is allowed to disengage from its initial locking position At the end of each test —the transverse bar shall be correctly engaged in any locking position —if during testing according to 6.5.3.1, the deckchair lifts without disengagement of the transverse bar from its locked position before the 450N force is reached the requirement is considered as to be met — there shall be no fracture of any component or any joint, — there shall be no loosening of any assembly intended to be rigid, — there shall be no loss of function of the seating or any component.	N/A
6.6	Hazard from moving parts	
6.6.1	Shearing and compression hazards when setting up and folding Unless 6.6.2 or 6.6.3 is applicable, shearing and compression hazards that are created only during erecting, adjusting or folding away the seating are acceptable because the user can be assumed to be in control of his movements and to be able to cease applying the force immediately on experiencing pain	Pass
6.6.2	Shearing and compression points under influence of powered mechanism To avoid shearing and compression points created under the influence of a powered mechanism, the minimum clearance between parts moving relative to each other shall be 25 mm during all movements. Unless the clearance between the parts is always less than 5mm	Pass

TO BE CONTINUED

TEST RESULT

Clause	Test Method/Requirement	Rating
6.6.3	Shearing and compression points during use To avoid shearing and compression points created by forces applied during normal use, the minimum clearance between parts moving relative to each other shall be: a) 12 mm for size 1, unless the clearance between the parts is always less than 5mm;and b) 18 mm for sizes 2 and 3. unless the clearance between the parts is always less than 5mm	Pass
6.7	Hazards from enclosure Seating which ia child can enter shall cofirm to the following requirements a) seating which has a flap, lid or similar, which encloses a volume greater than 0,03 m3 and in which all internal dimensions are 150 mm or more, shall feature at least two unobstructed ventilation holes, each 650 mm2 or more, situated at least 150 mm apart. The total ventilation area shall be provided when the seating is placed on the floor in any position and adjacent to two vertical plane surfaces meeting at a 90° angle, so as to simulate the corner of a room. The ventilation area is not required if the continuous volume is effectively sub-divided into compartment(s) by a permanent partition(s) or one or more bars making at least one dimension in the compartment less than 150 mm. b) For seating with a door, lid or similar, it shall be possible to open the door, lid or similar device by applying a force of 50 N or less from the inside. c) seating with vertically opening hinged lids shall be provided with lid-support mechanisms to prevent the sudden collapse or closing of the lid. 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. The test shall be performed according to 8.31.2 of EN 71-1:2014+A1:2018 (lid support). The lid-support mechanism shall fulfil the requirement before and after being subjected to 7 000 opening and closing cycles, as specified in 8.31.3 of EN 71-1:2014+A1:2018 (durability test for vertically opening hinged lids). The lid-support mechanism shall not require adjustment by the consumer to ensure adequate lid support, nor shall it require adjustment in order to conform to the above requirement after testing in accordance with 8.31.3 of EN 71-1:2014+A1:2018 (durability test for vertically opening hinged lids). The lid and lid-support mechanism shall conform to the requirements in EN 71-1:2014+A1:2018,4.10.3 Seating chests with vertically opening hinged lids shall be accompanied by instructions for proper assembly and maintenance, if applicable	Pass
6.8	Entanglement hazards The following requirements apply to size 1 seating only. Cords, ribbons and similar parts shall have a maximum free length of 220 mm when a 25 N tensile force is applied. Where cords, ribbons and similar parts are attached to the seating together or within 80 mm of each other, any single cord shall have a maximum free length of 220 mm and the combined length from one loose end to the other shall be maximum 360 mm. Loops shall have a maximum peripheral dimension of 360 mm when a 25 N tensile force is applied.	N/A

TO BE CONTINUED

TEST RESULT

Clause	Test Method/Requirement	Rating
	When the seating is equipped with a restraint system to fulfil another function, the restraint system shall be capable of being removed, hidden or covered in accordance with the manufacturer's instructions.	
6.9	Choking and ingestion hazards	
6.9.1	Requirements The following requirements apply to size 1 seating and soft seating only. The following requirements do not apply to paper. When tested in accordance with 6.9.2, any component or part of a component, including labels and decals, that can be removed shall not fit entirely within the small parts cylinder	Pass
6.9.3	Filling material	
6.9.3.1	Requirements The following requirements apply to size 1 soft seating only. When tested in accordance with 6.9.3.3 no upholstery filling material (for example fibre, foam, granules) shall be accessible from any upholstered seating. When tested in accordance with 6.9.3.3.1.2, the force of rupture shall be greater than 60 N. When tested in accordance with 6.9.3.3.1.1 – slippage of threads of sleeping cover for woven fabrics – the maximum slippage of thread shall be 7 mm. When tested in accordance with 6.9.3.3.2, slide fasteners (zip), any slide fastener (zip) shall not open. When tested in accordance with 6.9.3.3.3, it shall not be possible to insert the front part of a 12 mm diameter probe (5.1.1) into any opening in the seam or cover material by more than 6 mm.	N/A
6.9.4	Magnets The following requirements apply to size 1 seating only. If magnets are provided with the seating, they shall fulfil the requirements of EN 71- 1:2014+A1:2018, 4.23.2.	N/A
6.10	Suffocation hazards Plastic sheeting used for packaging with an area greater than 100mm*100mm shall conform to one of the following requirements: a) have an average sheet thickness of 0,038 mm or more ; or b) be perforated with defined holes so that a minimum of 1 % of the area has been removed over any area of 30 mm by 30 mm; or Plastic bag used for packaging with an opening perimeter greater than 360mm shall not have a drawstring or cord as a means of closing. Any plastic covering used for packaging with the exclusion of shrink packaging, have an opening perimeter greater than 360mm shall be marked with the word "WARNING" followed by the statement "Keep plastic covering away from children to avoid suffocation".	N/A
7	Chemical requirements The following requirements apply to size 1 only. Verification shall be provided that the migration of heavy metals in the surfaces of any material used that are accessible to the mouth of the child, fulfil the requirements of EN 71-3:2019+A1:2021.	N/C
8	Fire and thermal hazards Verification shall be provided that all accessible textile materials do not produce surface flash when tested according to EN 71-2:2020, 5.5.1 and 5.5.2.	N/A
9	Strength and durability requirements	
9.3	Requirements	Pass

TO BE CONTINUED

TEST RESULT

Clause	Test Method/Requirement	Rating
	If the seating fulfils the strength and durability requirements of EN 1729-2:2012+A1:2015, then the seating fulfils the strength and durability requirements of this European Standard with the exception of requirements on the strength and durability of armrests, Table 3 tests no. 5 and 8. After testing in accordance with 9.4, the following requirements shall be fulfilled: a) there shall be no fracture of any member, joint or component, including seat suspensions and castors; b) there shall be no loosening of joints intended to be rigid; c) there shall be no deformation that will adversely affect the safety of any part of the seating; d) there shall be no impairment of the operation of any mechanical part.	(See Appendix 1)
9.4	Strength and durability tests	
9.4.1	General Strength and durability tests shall be carried out in accordance with EN 1728:2012 except that the seat and back loading points shall be as specified in 9.1 and that the test forces shall be as specified in Table 3. For the application of forces on the seat, the smaller seat loading pad described in EN 1728:2012 5.5 shall be used. The legs or the frame of rocking seating shall be prevented from rocking to allow the correct application of the test loads. With the exception of soft seating and seating intended only for very young children (see 9.4.2 and 9.4.3), all tests shall be carried out on the same sample according to Table 3 and in the order listed in Table 3.	Pass (See Appendix 1)
9.4.2	Soft seating Soft seating shall only be tested to test level 2 in accordance with Table 3 tests 6 and 11. Test 6 shall be carried out on the seat only. The test foam shall not be used	N/A
9.4.3	Seating intended for very young children only (see B. 16) Size 1 and 2 seating, with a seat width $(3.8) \leq 280$ mm limited by a structure (for example armrests or sides) and having a seat and backrest made of soft material, e.g. fabric or foam, are considered to be intended for very young children only. For such seating, the applicable forces from Table 3 level 1 for test 1, 3 and 5 shall be reduced by 50 %.	N/A
10	Stability requirements	
10.1	General The following tests and requirements do not apply to soft seating. The stability tests shall be carried out in accordance with EN 1022:2018, except that loading points shall be as specified in 9.1, and the forces as specified in Table 4. The stability tests shall be carried out before and after the strength durability tests specified in 9.4. Sizes 1 and 2 seating shall be tested according to Level 1 specified in Table 4. Size 3 seating shall be tested according to Level 2 specified in Table 4. The stability requirements are fulfilled when during testing in accordance with 10.1, 10.2 and 10.3, the seating does not overturn.	Pass (See Appendix 2)
10.2	Alternative rearwards stability tests for rocking and reclining chairs	
10.2.1	Rocking chairs This test replaces the rearward stability test specified in Table 4. Rocking chairs shall be tested in accordance with EN 1022:2018, 7.4.5, with the following test loads: Size 1 seating	N/A

TO BE CONTINUED

TEST RESULT

Clause	Test Method/Requirement	Rating
	Load the seating with the test mass, resting against the backrest. Size 2 seating Load the seating with three loading discs as specified in EN 1022:2018, 5.7 If it is not possible to use the test discs specified in EN 1022:2018, these disks may be substituted for test disks with a smaller diameter but the same height and mass to allow testing to be carried out on seatings with a small seat area. Size 3 seating Load the seating with six loading discs as specified in EN 1022:2018, 4.4. If it is not possible to use the test discs specified in EN 1022:2018, they may be substituted with discs with a smaller diameter but with the same mass and height.	
10.2.2	Reclining chairs Reclining chairs shall be tested in accordance with EN 1022:2018, 7.4 with the following test loads: Size 1 seating Load the seating with the test mass, resting against the backrest and perform the test according to EN 1022:2018, 5.7 Size 2 and 3 seating Load the seating with two loading discs on the seat and four loading discs on the back as specified in EN 1022:2018, 5.7 If it is not possible to use the test discs specified in EN 1022:2018, these disks may be substituted for test disks with a smaller diameter but the same mass and height	N/A
11	Product information	
11.1	General Product information shall be provided in the official language(s) of the country in which the seating is sold.	Pass
11.2	Marking	
11.2.1	Requirements Seating which fulfil the requirements of this European Standard shall be permanently marked with the following: the name or trade mark of the manufacturer or importer Markings shall be conspicuous durable and legible and any labels shall be securely attached.	Pass
11.2.2	Durability of marking	
11.2.2.1	Requirement After testing in accordance with 11.2.2.2 no label and/or marking shall be removed and markings shall remain legible.	Pass
11.3	Purchase information Size 1 tall chairs, which do not fulfil the requirements of EN 14988:2017+A1:2020, shall include a statement or symbol pointing out that the seating is not suitable for children under 3 years old.	N/A
11.4	Instructions for use	
11.4.1	General Instructions for the safe use of the seating shall be provided and shall be headed IMPORTANT! READ CAREFULLY AND KEEP FOR FUTURE REFERENCE in letters not less than 5 mm high.	Pass
11.4.2	Warnings	Pass

TO BE CONTINUED

TEST RESULT

Clause	Test Method/Requirement	Rating
	The instructions shall contain: The word "WARNING" written in upper case, followed by the following statements: — "DO NOT place this product near a window , as it can be used as a step by the child and cause the child to fall out of the window"; — "Be aware of the risk of open fires and other sources of strong heat in the vicinity of the product"; — "DO NOT place this product near a window where cords from blinds or curtains may strangle a child" These statements may be expressed in different words providing they clearly convey the same message.	
11.4.3	Additional information The instructions shall contain the following additional information: a) number and date of this European Standard; b) the name or trademark of the manufacturer or importer and the respective European address including the webpage if appropriate retailer, including the webpage if appropriate; c) means of identifying the seating e.g. model number; d) the age of the child for which the seating is intended; e) if applicable an assembly drawing, list and description of parts and tools required for assembly and a diagram of the bolts and other fastenings required; f) if applicable, a statement that all assembly fittings should always be tightened properly; g) a statement not to use the seating if any part is broken, torn or missing and use only spare parts approved by the manufacturer; h) if applicable, cleaning and maintenance recommendations; i) if the seating is equipped with a restraint system, a statement that the restraint system shall be removed/hidden/covered (as applicable) when the product is used as a seating.	Pass

TO BE CONTINUED

TEST RESULT

Appendix 1

EN1728:2012 Domestic furniture –seating-test methods for the determination of strength and durability

Clause	Test Items/ Requirement	Rating
Table 3 —Strength and durability tests		
1	EN 1728: 2012+AC:2013, 6.4 Seat static load and back static load test	Pass
2	EN 1728: 2012+AC:2013, 6.5 Seat front edge static load	N/A
3	EN 1728: 2012+AC:2013, 6.8 Foot rest static test	N/A
4	EN 1728: 2012+AC:2013, 6.11 Arm downward static load test	N/A
5	EN 1728: 2012+AC:2013, 6.17 Seat and back durability test	N/A
6	EN 1728: 2012+AC:2013, 6.18 Seat front edge durability test	N/A
7	EN 1728: 2012+AC:2013, 6.20 Arm durability test	N/A
8	EN1728:2012+ AC:2013, 6.15 Leg forward static load test	Pass
9	EN 1728:2012+ AC:2013, 6.16 Leg sideways static load test	Pass
10	EN1728:2012+AC:2013, 6.24 Seat impact test	Pass
11	EN1728:2012+AC:2013, 6.25 Back impact test	Pass

Appendix 2

EN 1022:2018 determination of stability (as per client's request)

Clause	Test Items/ Requirement	Rating
Table 4 —Stability tests		
1	EN 1022:2018, 7.3.1 and 7.3.2 Forward overturning	Pass
2	EN 1022:2018, 7.3.3 Corner stability	N/A
3	EN 1022:2018, 7.3.4 Sideways stability without armrests	Pass
4	EN 1022:2018, 7.3.5 Sideways stability with armrests	N/A
5	EN 1022:2018, 7.3.6 Rearwards stability	Pass

Appendix 3

EN 1022:2018 determination of stability -Rocking chair and Reclining chairs

Clause	Test Items/ Requirement	Result
Table 5 —Stability tests for rocking chair and reclining chairs		
1	EN 1022:2018, 7.4 Rocking chair	N/A
2	EN 1022:2018, 7.4.2 Reclining chair	N/A

Remark:

N/A=Not applicable;

N/C=Not conducted as per client's request

The test was subcontracted to Eurofins Product Testing Service (Shanghai) Co., Ltd. Hangzhou Branch.

END OF THE REPORT