



# TEST REPORT

Prepared for:

**HANGZHOU MERSCO TECHNOLOGY CO., LTD**

**Room 907, Huaye Building No. 511, Jianye Road, Changhe Street, Hangzhou 310053, Zhejiang, China**

**Product Name:** trampoline

**MSG-TN-0603B, MSG-TN-0603G, MSG-TN-0803B,  
MSG-TN-0803G, MSG-TN-1003B, MSG-TN-1003G,**

**Model Name:** **MSG-TN-1204B, MSG-TN-1204G, MSG-TN-1406B,  
MSG-TN-1406G, MSG-TN-1506B, MSG-TN-1506G,  
MSG-TN-1606B, MSG-TN-1606G**

**Trade Mark:** N/A

**Date of Test:** From January 26, 2024 to February 01, 2024

**Date of Report:** February 02, 2024

**Report Number:** HK2401261852-1RR

Prepared by:

**Shenzhen HUAKE Testing Technology Co., LTD.**

**1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community,  
Fuhai Street, Bao'an District, Shenzhen, Guangdong, China**



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**Applicant:** HANGZHOU MERSCO TECHNOLOGY CO., LTD  
**Address:** Room 907, Huaye Building No. 511, Jianye Road, Changhe Street, Hangzhou 310053, Zhejiang, China  
**Manufacturer:** JINHUA GUANGLIN SPORTS EQUIPMENT CO., LTD  
**Address:** No. 999, Shenli Road, Jinhua, Zhejiang, China

**The following sample was submitted and identified by/on behalf of the client as:**

**Sample Name:** trampoline  
 MSG-TN-0603B, MSG-TN-0603G, MSG-TN-0803B, MSG-TN-0803G,  
**Model No.:** MSG-TN-1003B, MSG-TN-1003G, MSG-TN-1204B, MSG-TN-1204G,  
 MSG-TN-1406B, MSG-TN-1406G, MSG-TN-1506B, MSG-TN-1506G,  
 MSG-TN-1606B, MSG-TN-1606G  
**Trade Mark:** N/A  
**Tested Age Grade:** Over 6 years old  
**Labeled Age Grading:** Over 6 years old  
**Appropriate Age Grade:** Over 6 years old  
**Sample Receiving Date:** January 26, 2024  
**Testing Period:** From January 26, 2024 to February 01, 2024  
**Results:** Please refer to next page(s).

Signed for and on behalf of HUAKE

Approved by: \_\_\_\_\_  
Lab Manager



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## Information of the Test Laboratory

Shenzhen HUAKE Testing Technology Co., Ltd.

Address: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

CPSC Certification Number is 1710

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## Summary of Test Results:

### TEST REQUEST

### CONCLUSION

A	As specified in title 16, code of federal regulations, chapter II- consumer products safety commission of U.S.A	
	1. 16CFR 1500.50.51.52.53 Simulating use and abuse of toys	PASS
	2. 16CFR 1501 Small Objects	NA
	3. 16CFR 1500.48 Sharp point	PASS
	4. 16CFR 1500.49 Sharp edge	PASS
B	ASTM F381-16 Standard Safety Specification for Components, Assembly, Use, and Labeling of Consumer Trampolines	PASS
C	- USA 16CFR Part 1303 Ban of Lead Containing Paint and Certain Consumer Products Bearing Lead- Containing Paint	PASS
	- USA Consumer Product Safety Improvement Act (CPSIA) Sec.101 Children's products containing Lead; Lead paint rule	PASS
D	- CPSIA section 101(a)(2)-Lead in accessible substrate materials and 15 U.S.C. § 1278a Lead in Children's products	PASS
	- USA Consumer Product Safety Improvement Act (CPSIA) Sec.108 Prohibition on sale of certain products containing specified phthalates	PASS
E	- USA 16CFR Part 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	PASS
F	- CPSA Section 14(a) (5) Tracking Labels for Children's Products (15 USC §2063(a)(5) (CPSA))	PASS

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**Results:**

**A. As specified in title 16, code of federal regulations, chapter II- consumer products  
Safety commission of U.S.A**

Section	Description	Result
16CFR 1500.50.51.52.53	Normal use testing	Pass
	Abuse testing	
	Impact test	Pass
	Bite test	Pass
	Flexure test	Pass
	Torque test (53e)	Pass
	Tension test (53f)	Pass
	Compression test(53g)	Pass
16CFR 1501	Identifying toys and other articles intended for use by Children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts.	NA
16CFR 1500.48	Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of age.	Pass
16CFR 1500.49	Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age.	Pass

--NA= Not Applicable

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## B. ASTM F381-16 Standard Safety Specification for Components, Assembly, Use, and Labeling of Consumer Trampolines

Applicable Section	Description	Result
1.	<p>Scope</p> <p>1.1 This safety specification covers the components, the assembly, and the use of consumer trampolines.</p> <p>1.2 This specification is delimited in its application to trampolines of (1) a minimum bed size of 3300 in. 2 (21 300cm 2 ), (2) a minimum height of 20 in. (51 cm), (3) intended for the purpose of continuous, vertical jumping activities and (4) intended for consumer use.</p> <p>1.3 This specification is intended (1) to reduce the demonstrated hazards associated with the use of trampolines by consumers; (2) for trampolines used in a home environment by a single user; and (3) not to apply to institutional trampolines or trampolines intended for use on water. Trampolines that adhere to this specification are not recommended for use by children under six years of age.</p> <p>1.4 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.</p> <p>1.5 This standard does not purport to address all of the hazards associated with trampolines. The standard's existence alone will not necessarily prevent injuries. Like other physical activities, trampoline use involves the risk of injury, particularly if the equipment is used improperly.</p> <p>1.6 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.</p> <p>1.7 This specification includes the following sections and selected subsections</p>	
2.	Referenced Documents	
3.	Terminology	
4.	Included Components	
5	Material and Manufacture	
5.1	The provisions in section 5 shall apply to a trampolines assembled as instructed in the owner's manual.	Pass
5.2	Design Requirements	Pass
5.2.1	The trampoline shall be designed such that no part of the frame or legs can be contacted by the bed while bouncing.	Pass
5.2.2	The frame padding shall be of a color which contrasts with the color of trampoline bed	Pass
5.2.3	The suspension system shall be designed so as to protect the performer from injury due to contact with the sharp ends of the trampoline springs.	Pass
5.3	Performance Requirements	Pass
5.3.1	The frame padding where required shall be designed to remain securely attached to the frame when tested for the requirements of 6.2 and 6.3.	Pass
5.3.2	Materials used in any pad cover frame padding cover attachments, tie down and pad seams normally expose to sunlight shall be made from ultraviolet resistant materials and meet the performance requirements of 6.6.	Pass
5.3.3	Material used in the trampoline mat shall meet the requirements specified in	Pass

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Applicable Section	Description	Result
	Practice F2774	
5.3.4	Except for necessary seams, the frame padding, where required, shall cover the entire top surface of the frame and be wide enough to completely cover the entire top surface of the suspension system and frame when subjected to the tests specified in 6.2	Pass
5.3.5	All information, instructions, and warnings shall be provided in English in addition to any other formats used, for example, graphical, video, multilingual, etc	Pass
5.3.6	When installed in accordance with the manufacturer's instructions, fasteners, lock washers, self-locking nuts, or other locking means shall be provided for all nuts and bolts to protect them from unintentional loosening; self-locking nuts must fully engage with the bolt. Hardware in moving joints shall also be secured against unintentional loosening. Any other fastening systems shall comply with the requirement that effective locking requires two separate and distinct motions for release	Pass
5.3.7	There shall be no accessible sharp points or edges on fasteners when tested in accordance with 16 CFR 1500.48 and 16 CFR 1500.49.	Pass
5.3.8	Bolt ends projecting beyond the face of the nut shall be free of burrs, sharp points, and sharp edges when tested in accordance with 16 CFR 1500.48 and 16 CFR 1500.49. An accessible bolt end shall not extend more than the diameter of the bolt beyond the face of a nut when the nut is tightened to a torque between 20 and 25 lbf-in (2.3 to 2.8 N-m)	Pass
5.3.9	If the exposed bolt end is not free of burrs, sharp points, or sharp edges, or a combination thereof, then the threaded ends of bolts may be covered by smooth, tight-fitting caps that shall resist a torque of 4 lbf-in (0.45 N-m) and a tensile force of 15 lbf (67 N) without loosening	Pass
5.3.10	All fasteners shall be corrosion resistant to a level where no rust is evident after a 24-h salt spray test to Practice B117.	Pass
5.3.11	No welds shall be made to any steel frame or accessory component with a thickness of less than 0.059 in. (1.5 mm)	Pass
5.3.12	No "saddle" welds shall be made to any steel frame or accessory component with a thickness of less than 0.071 in. (1.8 mm). An example of a saddle-welded tee fitting	Pass
5.3.13	All welded joints shall be rendered corrosion resistant to a level where no rust is evident after a 24-h salt spray test to Practice B117	Pass
5.3.14	No component shall be capable of presenting a protrusion hazard during foreseeable use	Pass
5.3.15	There shall be no accessible burrs, sharp points, or sharp edges on tubing when tested in accordance with 16 CFR 1500.48 and 16 CFR 1500.49. End caps or plugs that cannot be removed without the use of tools on tubing may be used to meet this requirement	Pass
6	Performance requirements	
6.1	Shock Attenuation	Pass
6.2	Drop Test	Pass
6.2.5	Drop test weight and impactor shape	Pass

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Applicable Section	Description	Result
6.2.6	Drop test procedure	Pass
6.3	Padding Attachment System Strength	Pass
6.3.1	Padding Attachment System Strength Test	Pass
6.4	Drop test of Trampoline Edge Survivability	Pass
6.4.1	Drop test Procedure for Trampolines	Pass
6.5	Crush and Shear Points	Pass
6.6	Ultraviolet (UV) Resistant Material test	Pass
6.6.1	Any pad cover, frame padding, cover attachments, tie down(s), and pad seams normally exposed to sunlight shall be exposed for ultraviolet (UV) resistance using accelerated weathering chambers and shall retain at least 80 % of its original tensile strength.	Pass
6.6.2	Specimens to be tested shall be normal tensile test samples from the finished material.	Pass
6.6.3	Tensile Test— Test exposed and non-exposed (control samples) tensile test samples, in accordance with Test Method D638, at a testing rate of 2 in. (51 mm)/min.	Pass
6.6.4	The specimens are to be exposed according to the following procedures: Accelerated Weathering Procedure (Xe-non Lamp Exposure). The test procedure shall be in accordance with AATCC Method 169, except the following deviations shall apply:	Pass
(1)	The apparatus shall be equipped with an automatic light monitor and shall be capable of automatically controlling irradiance, temperature, and humidity.	Pass
(2)	The exterior (face) side of the cloth shall be exposed to the light source. The weathering test cycle shall be 40 min of light, 20 min of light with water spray on the fabric face, 60 min of light, 60 min of darkness. The test cycle shall be repeated until the total energy exposure is equal to 500 kJ/m <sup>2</sup> at 340 nm (or 61 MJ/m <sup>2</sup> at 300 nm – 400 nm), which is approximately 500 h exposure in the test apparatus	Pass
(3)	The irradiance level shall be either: 0.40 6 0.01 W/m <sup>2</sup> band pass at 340 nm, or 46 6 1.0 W/m <sup>2</sup> at 300 nm – 400 nm	Pass
(4)	The glass filter combination shall be a borosilicate type "S" filter in the inner position and a borosilicate type "S" in the outer position. Alternate filter combinations are acceptable, provided that the equipment manufacturer provides a letter certifying that the irradiance levels are comparable to those specified within 610 %	Pass
(5)	The relative humidity shall be 50 6 5 % during the light cycle and not lower than 95 % during the dark cycle.	Pass
(6)	The control set points shall be as follows:	Pass
(7)	The test specimens shall fit the specimen rack of the apparatus with no wrinkles or gaps. The test specimen shall be mounted on the outside of the rack with the use of appropriate stainless steel spring clips. After the required exposure period, the specimens shall be removed from the apparatus and allowed to dry and condition at standard atmospheric conditions. Then, test specimens for each required test shall be cut and tested appropriately	Pass

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Applicable Section	Description	Result
6.7	Static Load tests	Pass
6.7.1	Static Load test on Trampoline Bed	Pass
6.7.2	Static Load test on Trampoline Frame	Pass
6.7.3	Static Load base shape	Pass
6.7.4	Procedure for Static Load Tests	Pass
6.8	Maximum User Weight	Pass
7.	Information Packet	Pass
7.1	Packet Marking and Contents:	Pass
7.2	Assembly and Installation Instructions:	Pass
7.3	Care and Maintenance Instructions:	Pass
7.4	Warning Information:	Pass
7.5	Use Instructions:	Pass
8	Product Marking	Pass
8.1	Identification	Pass
8.2	On-Trampoline Warnings	Pass
8.3	Instruction Sign	Pass
9	Packaging and Package Marking	Pass
9.1	Packaging on principal display panels, point-of-purchase displays, and promotional literature shall be clearly marked with the following information:	Pass
9.1.1	Trampolines over 20 in. (51 cm) tall are not recommended for children under 6 years of age.	Pass
9.1.2	It is strongly recommended that the customer purchase, install and maintain an enclosure that complies with Safety Specification F2225.	Pass
10	Access Devices	Pass
10.1	Trampoline Ladders:	Pass
10.2	Ladder Warning:	Pass

--NA= Not Applicable

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**Tested part(s):**

Seq. no	Part(s) name	Sample description
1	Red coating (Silver metal)	Zipper head
2	Yellow plastic	Zipper tooth
3	Black plastic net	Mesh cloth

**C. USA 16CFR Part 1303 Ban of Lead Containing Paint and Certain Consumer Products Bearing Lead-Containing Paint**

**Test method:** With reference to CPSC-CH-E1003-09.1, sample was digested with acid mixture and analyzed by inductively coupled plasma atomic emission spectrometer (ICP-AES)

Item	Unit	MDL	Results	Limit
			1	
Lead Content (Pb)	mg/kg	5	N.D.	90
<b>Conclusion</b>	/	/	<b>Pass</b>	/

**D. USA Consumer Product Safety Improvement Act (CPSIA) Sec.101 Children’s products containing Lead; Lead paint rule**

**(1) Substrate Materials**

**Test method:** With reference to CPSC-CH-E1001-08.3; CPSC-CH-E1002-08.3, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-AES).

Item	Unit	MDL	Results		Limit
			1	2+3	
Lead Content (Pb)	mg/kg	5	N.D.	N.D.	100
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	/

**(2) Paint and similar surface coating material**

**Test method:** With reference to CPSC-CH-E1003-09.1, sample was digested with acid mixture and analyzed by inductively coupled plasma atomic emission spectrometer (ICP-AES)

Item	Unit	MDL	Results	Limit
			1	
Lead Content (Pb)	mg/kg	5	N.D.	90
<b>Conclusion</b>	/	/	<b>Pass</b>	/

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## E. USA Consumer Product Safety Improvement Act (CPSIA) Sec.108 Prohibition on sale of certain products containing specified phthalates

### USA 16CFR Part 1307 Prohibition of Children’s Toys and Child Care Articles Containing Specified Phthalates

**Test method:** With reference to CPSC-CH-C1001-09.4, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

Item	Unit	MDL	Results	Limit
			2+3	
Dibutyl Phthalate (DBP)	mg/kg	30	N.D.	1000
Benzylbutyl Phthalate (BBP)	mg/kg	30	N.D.	1000
Bis-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	30	N.D.	1000
Diisononyl Phthalate (DINP)	mg/kg	100	N.D.	1000
Di-isobutyl Phthalate (DIBP)	mg/kg	100	N.D.	1000
Dicyclohexyl Phthalate (DCHP)	mg/kg	100	N.D.	1000
Di-n-hexyl Phthalate (DHEXP)	mg/kg	100	N.D.	1000
Di-n-pentyl Phthalates (DPENP)	mg/kg	100	N.D.	1000
<b>Conclusion</b>	/	/	<b>Pass</b>	/

Note:

- N.D. =Not Detected or less than MDL.
- MDL=Method Detection Limit.
- NA= Not Applicable
- %=Percentage by weight.
- 0.1%=1000mg/kg, mg/kg=ppm.
- "+"=The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if materials are tested separately. This had been taken in account in the conclusion of this report.

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## F. CPSA Section 14(a) (5) Tracking Labels for Children's Products (15 USC §2063(a)(5) (CPSA))

Applicable Section	Description	Result
(a)(5) (A)	Effective 1 year after the date of enactment of the Consumer Product Safety Improvement Act of 2008, the manufacturer of a children's product shall place permanent, distinguishing marks on the product and its packaging, to the extent practicable, that will enable—	Pass
(i)	the manufacturer to ascertain the location and date of production of the product, cohort information (including the batch, run number, or other identifying characteristic), and any other information determined by the manufacturer to facilitate ascertaining the specific source of the product by reference to those marks; and	Pass
(ii)	the ultimate purchaser to ascertain the manufacturer or private labeler, location and date of production of the product, and cohort information (including the batch, run number, or other identifying characteristic).	Pass
(B)	The Commission may, by regulation, exclude a specific product or class of products from the requirements in subparagraph (A) if the Commission determines that it is not practicable for such product or class of products to bear the marks required by such subparagraph. The Commission may establish alternative requirements for any product or class of products excluded under the preceding sentence consistent with the purposes described in clauses (i) and (ii) of subparagraph (A).	NA
(b)	The Commission may by rule prescribe reasonable testing programs for any product which is subject to a consumer product safety rule under this Act, or a similar rule, regulation, standard, or ban under any other Act enforced by the Commission, and for which a certificate is required under subsection (a). Any test or testing program on the basis of which a certificate is issued under subsection (a) may, at the option of the person required to certify the product, be conducted by an independent third party qualified to perform such tests, unless the Commission, by rule, requires testing by an independent third party for a particular rule, regulation, standard, or ban, or for a particular class of products.	Pass
(c)	The Commission may by rule require the use and prescribe the form and content of labels which contain the following information (or that portion of it specified in the rule) —	Pass
(1)	The date and place of manufacture of any consumer product.	Pass
(2)	The cohort information (including the batch, run number, or other identifying characteristic) of the product.	Pass
(3)	A suitable identification of the manufacturer of the consumer product, unless the product bears a private label in which case it shall identify the private labeler and shall also contain a code mark which will permit the seller of such product to identify the manufacturer thereof to the purchaser upon his request.	Pass
(4)	In the case of a consumer product subject to a consumer product safety rule, a certification that the product meets all applicable consumer product safety standards and a specification of the standards which are applicable. Such labels, where practicable, may be required by the Commission to be permanently marked on or affixed to any such consumer product. The Commission may, in appropriate cases, permit information required under	Pass

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Applicable Section	Description	Result
	paragraphs (1) and (2) of this subsection to be coded.	
(d)	REQUIREMENT FOR ADVERTISEMENTS.—No advertisement for a consumer product or label or packaging of such product may contain a reference to a consumer product safety rule or a voluntary consumer product safety standard unless such product conforms with the applicable safety requirements of such rule or standard.	Pass
(e)	WITHDRAWAL OF ACCREDITATION-	Pass
(f)	DEFINITIONS.--In this section	Pass
(g)	REQUIREMENTS FOR CERTIFICATES.-- (1) IDENTIFICATION OF ISSUER AND CONFORMITY ASSESSMENT BODY.--Every certificate required under this section shall identify the manufacturer or private labeler issuing the certificate and any third party conformity assessment body on whose testing the certificate depends. The certificate shall include, at a minimum, the date and place of manufacture, the date and place where the product was tested, each party's name, full mailing address, telephone number, and contact information for the individual responsible for maintaining records of test results.	Pass
(h)	RULE OF CONSTRUCTION.	Pass
(i)	ADDITIONAL REGULATIONS FOR THIRD PARTY TESTING	Pass

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### \*\* Modified History \*\*

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	2024/02/02	Jason Zhou

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## Photograph of Sample



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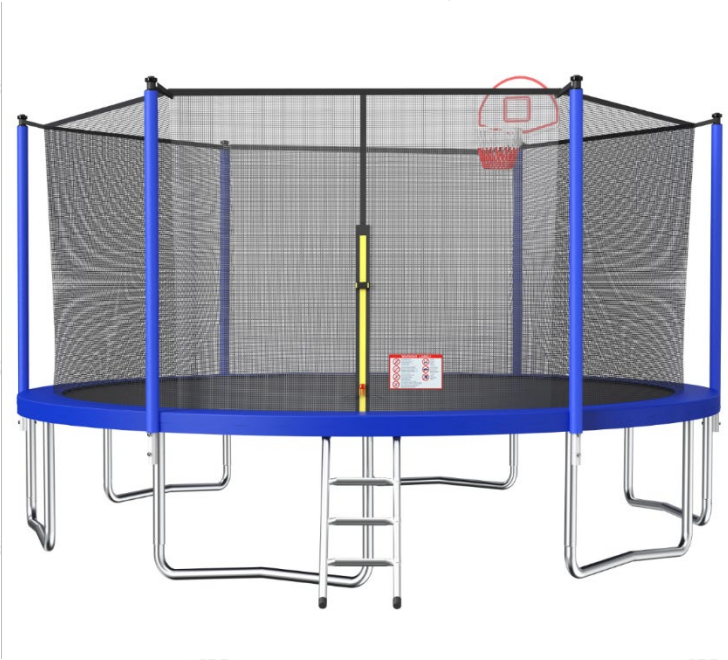


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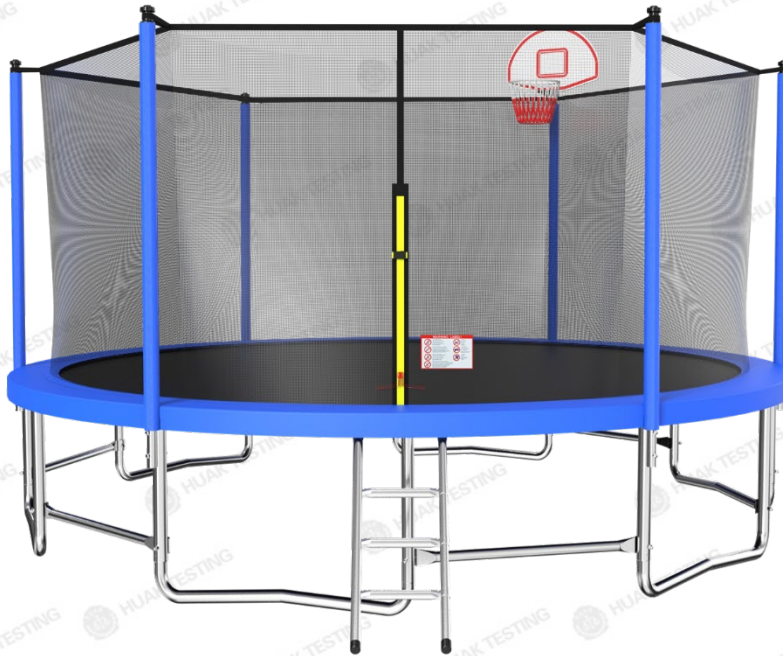


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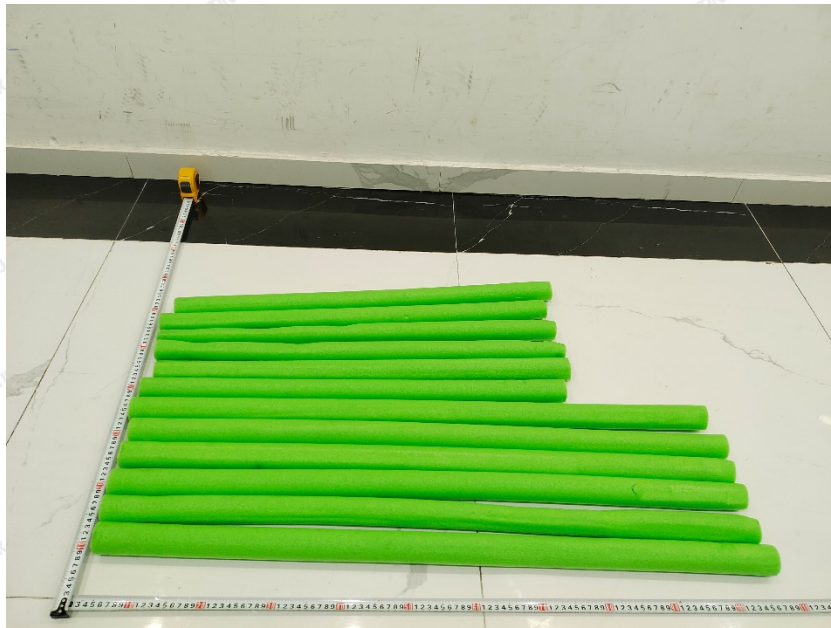


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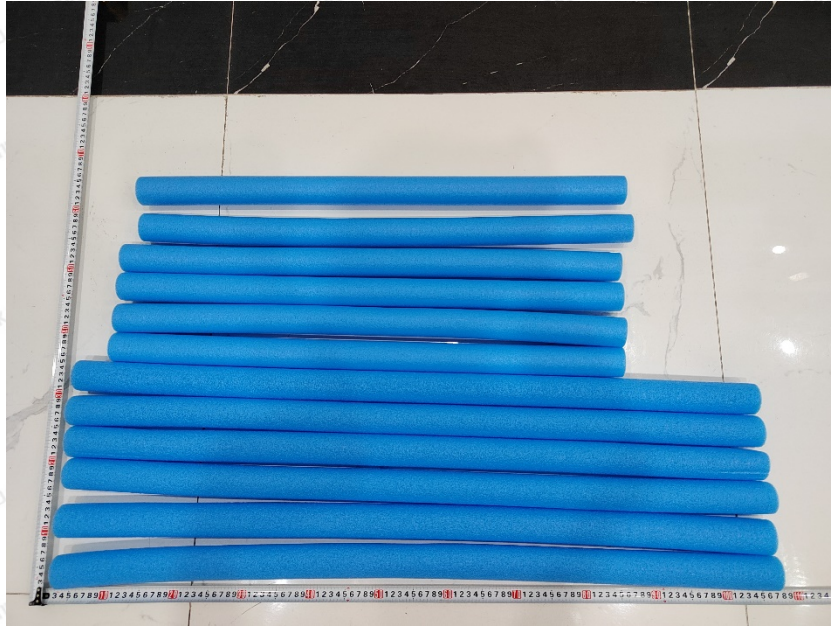


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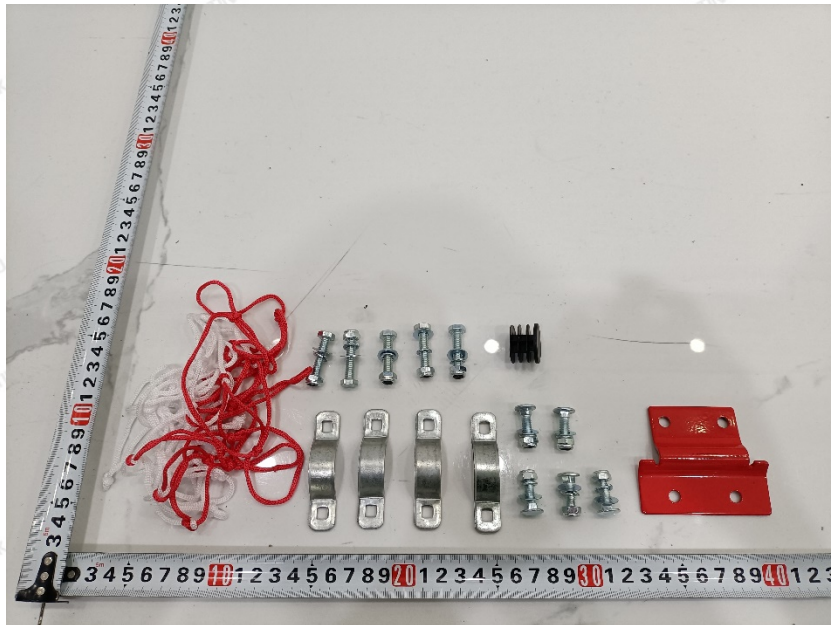


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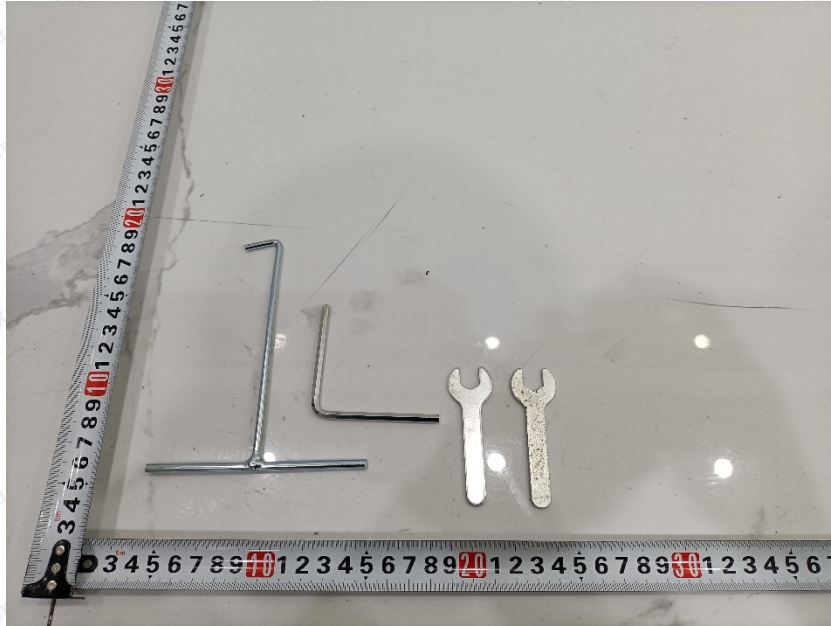


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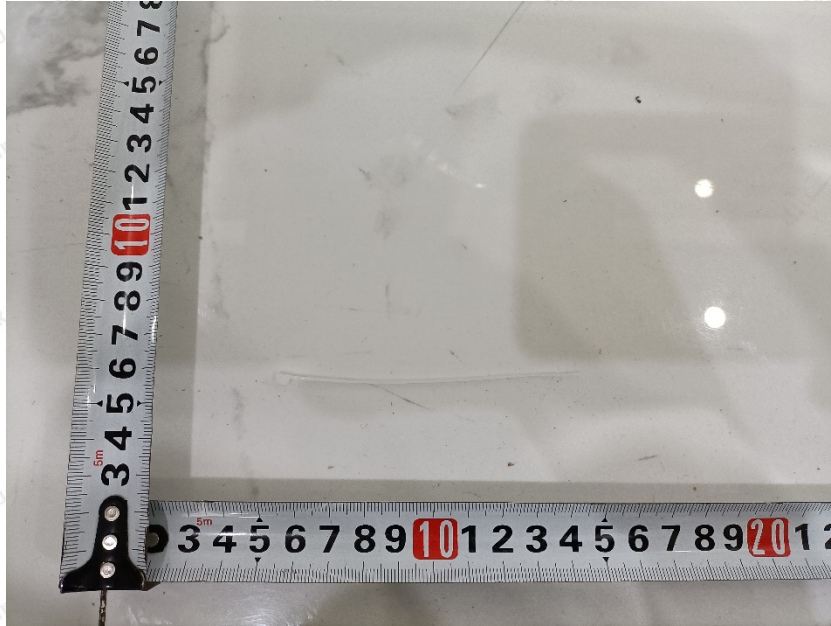


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