

Test Report

No.: T52510322010TY

Date: AUG 25, 2025

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GUANGZHOU LUCKYPLAYAMUSEMENT EQUIPMENT CO.,LTD

ROOM 103 AND ROOM 104, BUILDING 1, NO.33 TAI 'AN ROAD, DALONG STREET, PANYU DISTRICT, GUANGZHOU CITY, GUANGDONG PROVINCE, CHINA

The following samples were submitted and identified by/on behalf of the client as:

INDOOR PLAYGROUND(GROTESQUE THEME)

Sample Receiving Date : JUL 30, 2025

Testing Period : JUL 30, 2025 TO AUG 25, 2025



Pic1



Pic 2



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Test Requested		Conclusion
1.	Per applicant's request, Design drawing review for the first layer of the drawing, with reference to the selected requirement(s) of the below standard, Refer to test result page(s) for details:	--
	ASTM F 1487-25: Standard Consumer Safety Performance Specification for Playground Equipment for Public Use	PASS
	ASTM F1918-21 Standard Safety Performance Specification for Soft Contained Play Equipment	PASS

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

Signed for and on behalf of
SGS-CSTC Standards Technical
Services Co., Ltd. Shenzhen Branch Testing Center

Xiang Suqiong, Irene
Dept. Manager

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Results:

ASTM F 1487-25: Standard Consumer Safety Performance Specification for Playground Equipment for Public Use

Scope:

1. This consumer safety performance specification provides safety and performance standards for various types of public playground equipment and dimensional requirements for their clearance and use zones. Its purpose is to reduce life-threatening and debilitating injuries.
2. The range of users encompassed by this consumer safety performance specification is the 5th percentile 2-year-old through the 95th percentile 12-year-old.
3. Home playground equipment, toys, amusement rides, sports equipment, fitness equipment intended for users over the age of 12, public use play equipment for children 6 to 24 months, and soft contained play equipment are not included in this specification.
4. Products or materials (site furnishings) that are installed outside the equipment use zone, such as benches, tables, independent shade structures, and borders used to contain protective surfacing, are not considered playground equipment and are not included in this specification.
5. This specification does not address accessibility, except as it pertains to safety issues not covered in the DOJ 2010 Standard for Accessible Design.
6. Clause 1.6-1.9 details see ASTM F1487-25

Maximum user weight: / Total number of users: /
Age range: 2-12 YEARS Number of tested samples: /

Clause	Test Method & Test Requirement	Rating
4	Materials and Manufacture	
4.1	General Requirements Playground equipment shall be manufactured and constructed only of materials that have a demonstrated durability in the playground or similar outdoor setting. Any new materials shall be documented or tested accordingly for durability by the playground equipment manufacturer.	N/A
4.2	All fasteners used to construct public playground equipment shall meet the requirements of Section 4.	N/A
4.3	Tires	N/A



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Clause	Test Method & Test Requirement	Rating
5	General Requirements	
5.1	Playground equipment represented as complying with this consumer safety performance specification shall meet all applicable requirements specified herein. Anyone representing compliance with this specification shall keep such essential records as are necessary to document any claim that the requirements within this specification have been met.	N/A
5.2	Play equipment designed for a specific age group (2 through 5, 5 through 12, 2 through 12) shall have all play activities on that equipment meet the requirements for that age group.	Pass
5.3	Play structures shall be anchored to the ground or not be intended to be relocated.	Pass
5.4	Small Parts—When installed in accordance with the manufacturer's instructions, equipment for children under 3 years of age shall meet the requirements of 16 CFR Part 1501.	N/A
6	Performance Requirements	
6.1	Head and Neck Entrapment Public playground equipment shall be designed and constructed or assembled so that any accessible opening shall meet the following performance requirements to reduce the risk of accidental head or neck entrapment by either a head-first or feet-first entry into the opening. Openings between the protective surfacing and the bottom edge of the equipment (that is, rails, platforms, steps, and so forth) are exempt from this requirement as indicated by Fig. A1.1.	Pass
6.2	Sharp Points and Sharp Edge There shall be no accessible sharp points or sharp edges on public play equipment.	N/A
6.3	Protrusions There shall be no protrusions on public play equipment. Three projection test gauges and a projection gauge are required to determine whether projections are protrusions. Their use is described in this section.	N/A
6.4	Entanglement There shall be no entanglement hazards on public play equipment. Three test gauges, a feeler gauge, and the means to accurately measure a 0.12 in. (3.0 mm) extension are required to determine whether entanglement hazards exist. Any of the conditions described in this section constitutes an entanglement hazard.	Pass
6.5	Crush and Shear Points There shall be no crush or shear points caused by junctures of two components moving relative to one another, or at an opening present at the junction of a stationary support and a rigid supporting member for a swinging element (that is, pendulum see saw, glide rides, and so forth) while the swinging elements are within their normal swinging angles. A crush or shear point is any point that entraps at one or more positions a 0.62 in. (15.7 mm) diameter rod.	Pass
6.6	Suspended Hazards There shall be no single nonrigid component (cable, wire, rope, or other similar component) suspended between play units or from the ground to the play unit within 45° of horizontal, unless it is above 84 in. (2130 mm) above the protective surface.	N/A



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Clause	Test Method & Test Requirement	Rating
6.7	Elevated Surfaces	N/A
6.8	Exemptions Portions of equipment located more than 84 in. (2130 mm) above any underlying designated play surface are exempt from the requirements of Section 6.	N/A
7	Requirements for Access/Egress	
7.1	Accessible Routes to a Play Structure:	N/A
7.2	Rung Ladders, Stepladders, Stairways, and Ramps	N/A
7.3	Other Means of Access	N/A
7.4	Transition from Access to Platform	N/A
7.5	Platforms, Landings, Walkways, Ramps, and Similar Transitional Play Surfaces	N/A
8	Equipment	
8.1	Balance Beams	N/A
8.2	Climbers	N/A
8.3	Upper Body Equipment	N/A
8.4	Sliding Poles	N/A
8.5	Slides	N/A
8.6	Swings	N/A
8.7	Swinging Gates and Doors Swinging gates and doors shall meet the requirements for vertical rotating equipment found in 8.8.	N/A
8.8	Vertical Rotating Equipment Equipment that rotates about an axis which is greater than 45° from horizontal	N/A
8.9	Roller Slides	N/A
8.10	Seesaws	N/A
8.11	Spring Rocking Equipment	N/A
8.12	Horizontal Rotating Equipment (Example Log Rolls) Equipment that rotates about an axis which is less than or equal to 45° from horizontal.	N/A
8.13	Trolley Rides	N/A
8.14	Roofs	N/A



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Clause	Test Method & Test Requirement	Rating
8.15	Stepping Forms	N/A
8.16	Fully Enclosed Structure	N/A
9	Playground Layout	
9.1	Play Structure Use Zone	N/A
9.2	Stationary Playground Equipment Stationary play equipment may be freestanding structures, may be in combination with other play equipment, or may be part(s) of a composite play structure (see Fig. A1.32).	Pass
9.3	Rotating Play Equipment (see Fig. A1.33):	N/A
9.4	Swings	N/A
9.5	Rocking/Springing Play Equipment (see Fig. A1.39):	N/A
9.6	Slides (see Fig. A1.40)	N/A
9.7	Composite Play Structures (see Fig. A1.44):	N/A
9.8	Placement of Play Structures and Equipment (see Fig. A1.45):	N/A
9.9	Trolley Rides:	N/A
10.	Accessibility	Pass
11	Installation	
11.1	Designer's or Manufacturer's Responsibilities	N/A
11.2	Owner's/Operator's Responsibilities	N/A
11.3	Installer's Responsibilities:	N/A
12.	Structural Integrity After conducting the tests in 12.3.1 – 12.5.2 there shall be no visible crack or breakage of any component and no form of permanent deformation of any component that may adversely affect the structural integrity or safe use of the equipment. After removal of the load, hooks, shackles, rings, or links shall not have opened to more than 0.04 in. (1.0 mm).	N/A
12.1	The structural integrity tests are intended to be conducted by manufacturers on equipment at a test site and are not intended to be performed on equipment installed on the playground or as part of a routine maintenance program. This section is based on the use of performance tests for structural integrity. Performance tests require a definite end point (that can be physically measured) and that the safety factors be included in the loading criteria.	N/A
12.2	Loading Test Criteria:	N/A



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12.3	Strength of Swing Components and Structures:	N/A
12.4	Components and Structures Subjected to Vertical Loads:	N/A
12.5	Components Subjected to Lateral Loads Components subjected to lateral loads such as guardrails, protective barriers, handrails, and so forth should be subjected to two separate load tests. The force shall be applied gradually and then maintained for a period of 5 min.	N/A
12.6	Alternatives to Testing for Structural Integrity:	N/A
13	Maintenance	N/A
13.1	Public Use Playground Equipment The designer or manufacturer of each play structure shall provide to the owner/operator clear and concise inspection, maintenance, and repair instructions, including, but not limited to, what, when, and how to inspect, maintain, and repair.	N/A
13.2	Impact Attenuating Surfacing	N/A
13.3	Records—The owner/operator shall establish and maintain detailed installation, assembly, inspection, maintenance, and repair records for each public-use playground equipment area. NOTE 9—Section 11 of this specification details who is responsible for providing most of the information necessary to fulfill the above documentation requirement.	N/A
14.	Signs or Labels, or Both	N/A
14.1	Posting of signs and/or labels shall be the responsibility of the owner/operator of the play equipment. The information regarding the intended ages of users shall be provided by the manufacturer, designer, or consultant.	N/A
14.2	Information communicated on the sign or label, or both, shall address but not be limited to the following messages:	N/A
14.3	Specifications for Signs or Labels, or Both:	N/A
15.	Manufacturer Identification	N/A
15.1	All play structures and composite play structures shall be required to have the manufacturer's identification.	N/A
15.2	The manufacturer's identification shall appear, shall be durable, and shall be placed on the play structure, if it stands alone, or on a composite play structure. Custom and community-built equipment shall also carry the identification of the designer.	N/A
16	Keywords	
16.1	Consumer safety; playground equipment; public use	Pass



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Annex(Mandatory Information) A1. FIGURES		
Appendix (Nonmandatory Information) X1. HAZARD IDENTIFICATION AND RISK ASSESSMENT (HIRA) INTRODUCTION		

ASTM F1918-21 Standard Safety Performance Specification for Soft Contained Play Equipment

Scope:

- This safety performance specification provides safety and performance standards for soft contained play equipment. Its purpose is to reduce the potential for life-threatening and debilitating injuries.
- The range of users encompassed by this safety performance specification is the 5th percentile 2 year old to the 95th percentile 12 year old
- Public playground equipment, home playground equipment, sports equipment, amusement rides, fitness equipment not part of the play system, water-related attractions and devices, and toys and juvenile products are not included in this specification.
- This specification does not address accessibility, except as it pertains to safety issues not covered in The Americans With Disabilities Act Accessibility Guidelines (ADAAG).
- Clause 1.5-1.6 details see ASTM F 1918-21

Clause	Test Method & Test Requirement	Rating
4	General Requirements	
4.1	Playground equipment represented as complying with this consumer safety performance specification shall meet all applicable requirements specified herein. Anyone representing compliance with this specification shall keep such essential records as are necessary to document any claim that the requirements within this specification have been met.	N/A
4.2	SCPE should be designed to allow natural air circulation and lines of visibility between users and persons supervising.	Pass
5	Materials and Manufacture	
5.1	General Requirements—Soft contained play equipment shall be manufactured and constructed only of materials that have a demonstrated durability in the playground or similar setting. Any new materials shall be documented or tested for durability by the soft contained play equipment manufacturer.	N/A



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5.2	All fasteners used to construct soft contained play equipment shall be manufactured in accordance with Guide F1077 and shall meet the requirements of Section 6.	N/A
6.	Performance Requirements	
6.3	Sharp Points and Edges—There shall be no accessible sharp points or edges, on soft contained play equipment.	N/A
6.4	Protrusions—There shall be no protrusions on the accessible portions of soft contained play equipment. Four protrusion test gauges (shown in Fig. A1.4 and Fig. A1.5) are required to determine whether projections are protrusions. Their use is described in this section.	N/A
6.5	Entanglement—There shall be no accessible entanglement hazards on soft contained play equipment. Three test gauges, a feeler gauge, and the means to accurately measure a 0.12 in. (3 mm) extension are required to determine whether entanglement hazards exist. Any of the conditions described in this section constitutes an entanglement hazard.	Pass
6.6	Crush and Shear Points There shall be no crush, or shear points caused by junctures of two components moving relative to one another, or at an opening present at the junction of a stationary support and a rigid supporting member for a swinging element (for example, pendulum see saw and glide rides) while the swinging elements are within their normal swinging angles. A crush or shear point is any point that entraps at one or more positions at 0.625 in. (16 mm) diameter rod. Exemptions to 6.6: (1) Chain and its method of attachment, and (2) The attachment of heavy duty coil springs to the body and base of rocking equipment. (3) The area between small lightweight moving parts necessary as an integral part of the play activity (for example, abacus beads, bell clappers, telephone receivers) provided that this area is not considered a crush or shear point.	Pass
6.7	Rope, cable, or chain shall be fixed at both ends and not be capable of being looped back on itself, creating an inside loop perimeter greater than 5 in.	N/A
7.	Requirements for Access/Egress	
7.1	Rung Ladders, Stepladders, Stairways, and Ramps (Does Not Address Wheelchair Use):	N/A
7.2	Other Means of Access:	N/A
7.3	Transition from Access to Platform	N/A
7.4	Platforms, Landings, Walkways, Ramps, and Similar Transitional Play Surfaces:	N/A
7.5	Access/Egress Accessibility:	N/A



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Test Report

No.: T52510322010TY

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Clause	Test Method & Test Requirement	Rating
8	Equipment	
8.1	General Equipment Requirements:	Pass
8.2	Climbers and Upper Body Equipment:	N/A
8.3	Sliding Poles:	N/A
8.4	Balance Beams:	N/A
8.5	Slides:	N/A
8.6	Air Filled Devices:	N/A
8.7	Upholstery	N/A
8.8	Ball Pools:	N/A
8.9	Log Rolls:	N/A
8.10	Track Rides	N/A
9	Areas Outside Soft Contained Play Equipment	
9.1	Areas immediately adjacent to all accessible parts of the SCPE shall have use zones which are free of obstacles and covered with resilient surfacing. The dimensions, configuration and fall heights or these use zones are defined in 9.2 – 9.5.	N/A
9.2	Entrances and Exits (Except Slides):	N/A
9.3	Slide Use Zones	N/A
9.4	Other Play Components Use Zones:	N/A
9.5	Enclosure Materials:	N/A
10.	Structural Integrity	
10.1	After conducting the tests in this section, there shall be no visible crack or breakage of any component and no form of permanent deformation of any component with the potential to adversely affect the structural integrity or safe use of the equipment.	N/A
10.2	Loading Test Criteria After conducting the tests in this section, there shall be no visible crack or breakage of any component and no form of permanent deformation of any component with the potential to adversely affect the structural integrity or safe use of the equipment.	N/A



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Clause	Test Method & Test Requirement	Rating
10.3	Strength of Track and Trolley Ride Assemblies and Structures	N/A
10.4	Components and Structures Subject to Vertical Loads	N/A
10.5	Protective Barriers (Including Netting)	N/A
11.	Maintenance	
11.1	This section establishes maintenance and cleaning procedures for soft contained play equipment (SCPE).	N/A
11.2	Maintenance/Hygiene	N/A
11.3	Manufacturer's Maintenance Instructions	N/A
11.4	Manufacturer's Operation Instructions to Owner/ Operator	N/A
11.5	Owner/Operator's Training Responsibilities Based on the manufacturer's recommendations, the owner/operator shall train employees performing the regularly scheduled maintenance of the soft, contained play equipment. This training shall include, but not be limited to, the following:	N/A
11.6	Protective Surfacing and Use Zone Maintenance	N/A
11.7	Owner/Operator's Notification Responsibilities	N/A
11.8	Access to Inaccessible Areas	N/A
11.9	Signage	N/A
12.	Fire Safety	
12.1	Introduction:	N/A
12.2	Smoke Detection	N/A
12.3	Exit Signage in the Play Area:	N/A
12.4	Emergency Lighting:	N/A
12.4.1	It is the responsibility of the owner/operator that each access/egress point of the SCPE shall be illuminated by emergency lighting in accordance with NFPA 101 Life Safety Code. Access/egress to nonuse zones is exempt	N/A
12.5	Material Specifications:	N/A



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Clause	Test Method & Test Requirement	Rating
12.6	Electrical Devices:	N/A
12.7	Protective Surfacing Protective surfacing used in soft contained play equipment shall be rated Class II according to Test Method E648.	N/A
13.	Evacuation	
13.1	Evacuation Route The shortest adjusted exit path length (calculated as the sum of horizontal and vertical travel distances through the SCPE minus half the length of any slides in this path) from any point within the SCPE to the nearest exit or emergency access/egress pathway shall be no more than 40 ft (12 m).	Pass
13.2	Emergency Access/Egress Pathway	Pass
13.3	Dead Ends	N/A
14.	Accessibility	
14.1	Soft contained play equipment shall comply with The Americans with Disabilities Act Accessibility Guidelines (ADAAG) for Buildings and Facilities; Play Areas	Pass
15	Keywords	
15.1	entanglement; entrapment; fire safety; hazard; maintenance; protrusion; slides; soft contained play equipment	Pass
ANNEX (Mandatory Information)		
A1. FIGURES		

Rating key:

Pass	Meet the requirement	N/A	Not Applicable
Fail	Not meet the requirement	N/C	Not conducted as per client's requirement



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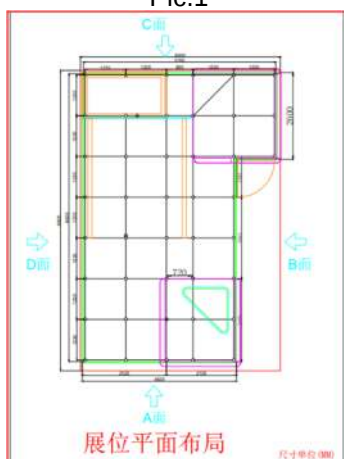
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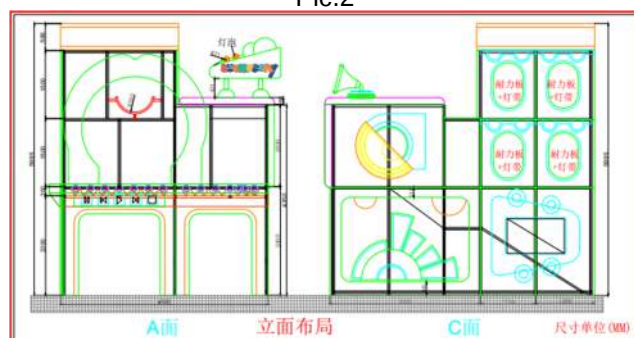
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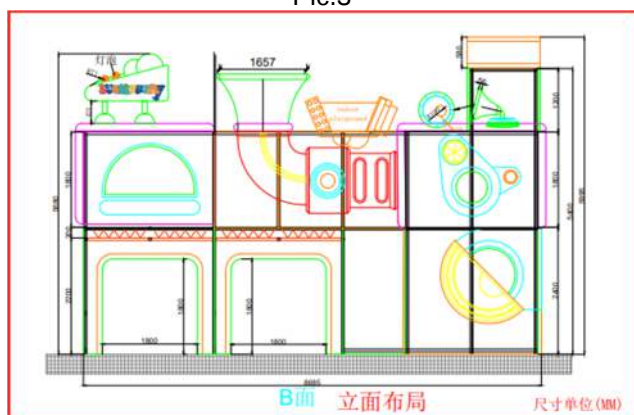
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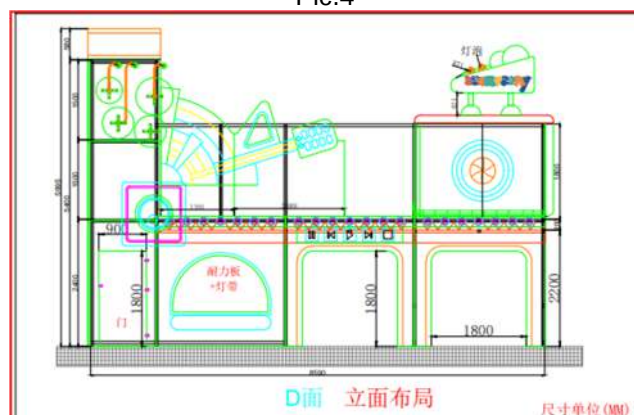
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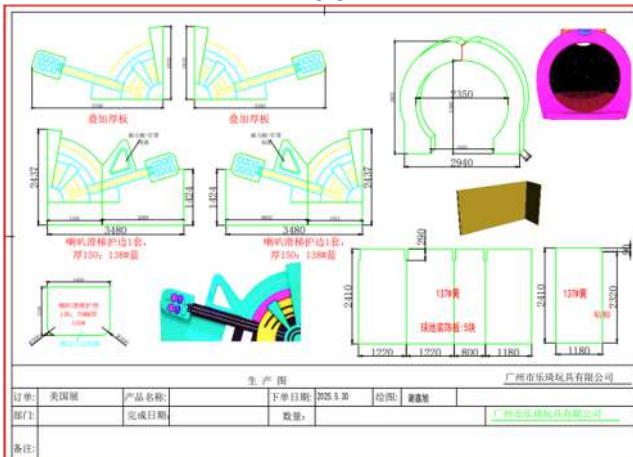
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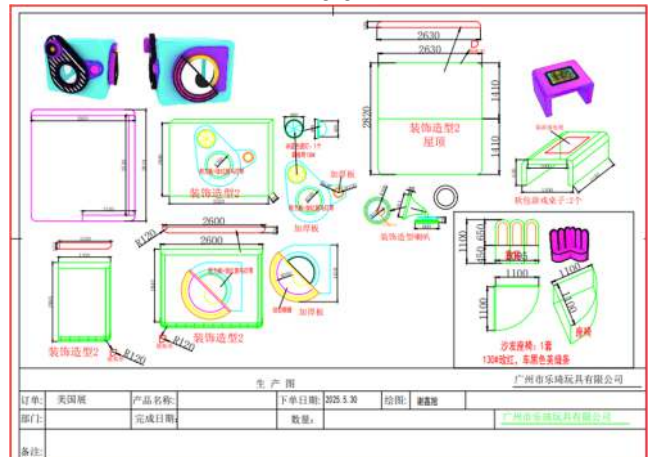
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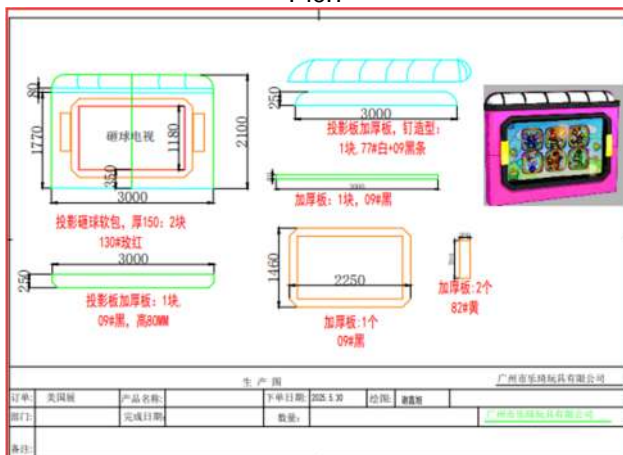
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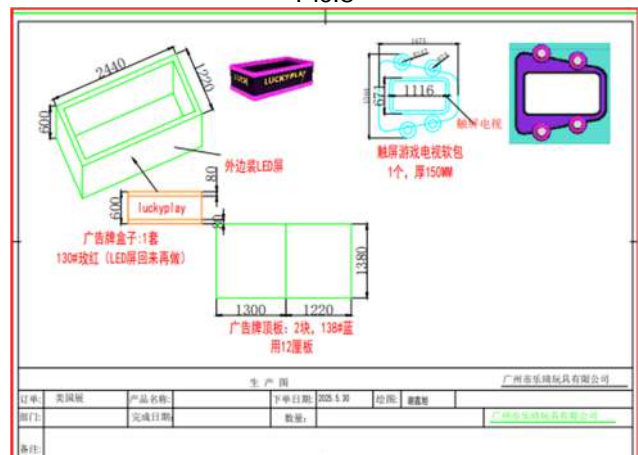
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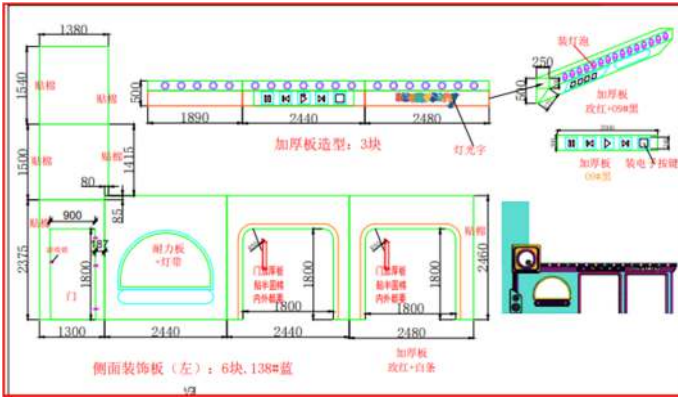
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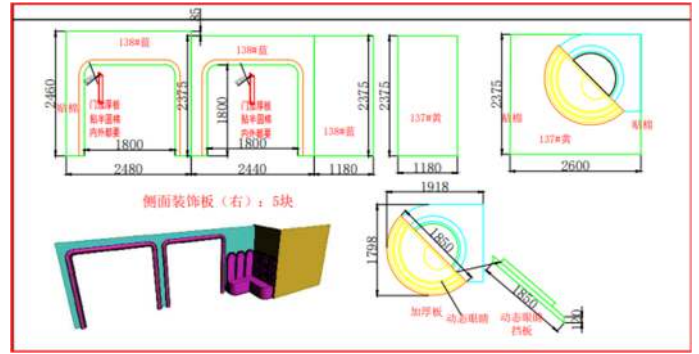
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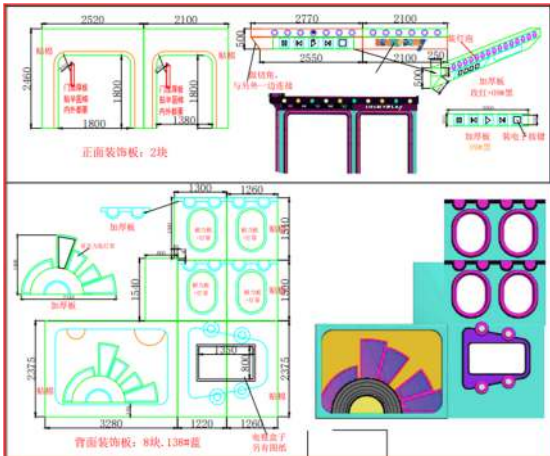
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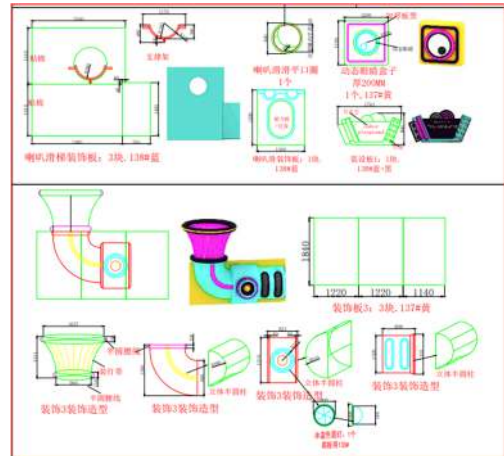
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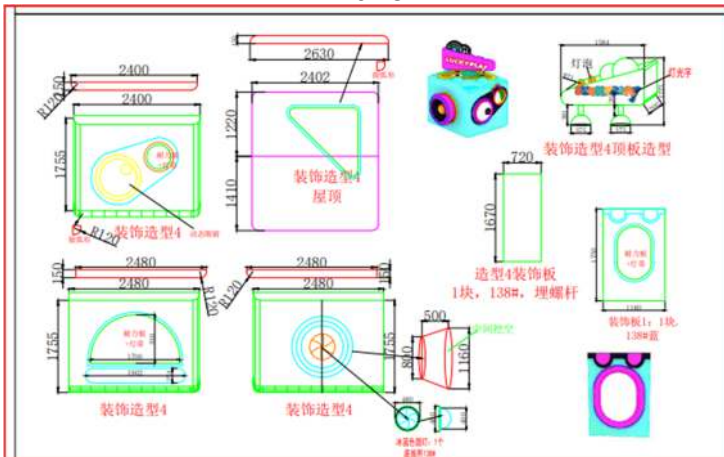
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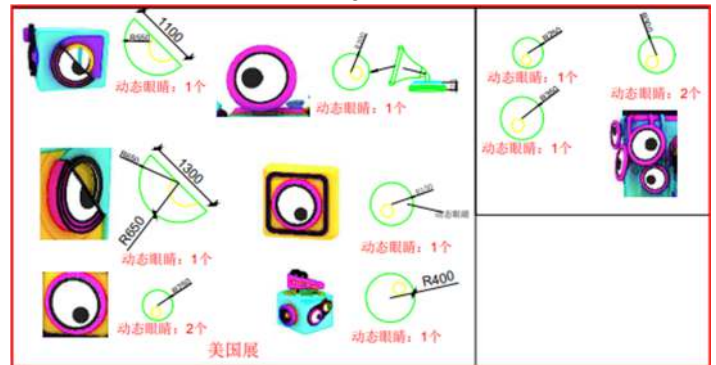
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