



Test Report

No.: SHHL2303011768IP

Date: APR. 28, 2023

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NINGBO ESSAY OUTDOOR AND LEISURE CO.,LTD
NO.,433,SONGPU RD,CIDONG BAY ZONE,CIXI CITY,P.R.CHINA

Sample Description : BICYCLE KIDS TRAILER AND STROLLER
Style No. : 440-001GN 440-001RD 440-001VT 440-001YL 440-005 440-013
5664-0101YB 5664-0101RB 5664-0101BW 5664-0101BG 5664-
0034NEW
5664-0036NEW
5664-0079NEW

Source of Sample : SENT BY CLIENT.
Sample Receiving Date : MAR. 22, 2023
1st Resubmitted Sample Date : APR. 20, 2023
2nd Resubmitted Sample Date : APR. 26, 2023
Further Information Date : APR. 28, 2023
Testing Period : MAR. 22, 2023 TO APR. 28, 2023
Testing Location : 3RD. BUILDING, LANE 3999, XIUPU RD., PUDONG DISTRICT,
SHANGHAI, CHINA

Test Requested	Result
ASTM F833-21 & 16 CFR 1227 STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR CARRIAGES AND STROLLERS - EXCLUDING CLAUSE 5.3	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Echo Wang



Echo Wang
Authorized Signatory



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Test Conducted:

ASTM F833-21 & 16 CFR 1227 STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR CARRIAGES AND STROLLERS - EXCLUDING CLAUSE 5.3

Vehicle weight = 17.3 kg; Coating color: Silver

Front wheel diameter: 240 mm, Single wheel

Rear wheel diameter: 500 mm, Single wheel

Parking device: Linking

The angle between backrest and seat of seat unit: Left: 109.95°, Right: 110°

Width of the waist straps: 25 mm, Width of the crotch strap: 25 mm; Width of the shoulder strap: 25 mm

Footrest: Fixed; Suitable age/Weight of user: 18 kg

Test Result: Details Shown as Following Table:

Clause	Test Requirement / Method	Rating
5	General Requirements	
5.1	Sharp Points & Sharp Edges There shall be no hazardous points or edges as defined by 16 CFR 1500.48 and 16 CFR 1500.49 before and after testing to this consumer safety specification.	PASS
5.2	Small Parts There shall be no small parts as defined by 16 CFR 1501 before testing or liberated as a result of testing to this specification	PASS
5.3	The Paint and Surface Coating The paint and surface coating on the product shall comply to 16 CFR 1303.	N/C
5.4	Prior to testing, any exposed wood parts shall be smooth and free of splinters.	N/A
5.5	Latching Mechanisms	
5.5.1	Any unit that folds shall have a latching device or other provision in the design that will prevent the unit from unintentional folding when properly placed in the manufacturer's recommended use position. Products with latching devices for prevention of unintentional folding shall be tested in accordance with 7.2. During and upon completion of this test, the unit shall meet the requirements in 5.5.1.1 or 5.5.1.2.	N/A
5.5.1.1	The locking device on the unit shall remain latched.	N/A
5.5.1.2	The stroller frame components yield and permanently deform in a manner such that the full load specified cannot be applied in the direction of folding and the locking device remains engaged.	N/A
5.5.2	Strollers that employ hinged links with a geometric over center action (see Fig. 2) to maintain the product in the normal use position shall require two distinct and separate actions on the part of the user to initiate folding of the product. Such strollers shall require only a single action on the part of the user to secure the stroller in the normal use position.	N/A



SGS-CSI (Shanghai) Technical Services Co., Ltd.
Testing Center Hangzhou

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Clause	Test Requirement / Method	Rating
5.6*	Openings Holes or slots that extend entirely through a wall section of any rigid material less than 0.375 in. (9.53 mm) thick and admit a 0.210-in. (5.33-mm) diameter rod shall also admit a 0.375-in. (9.53-mm) diameter rod. Holes or slots that are between 0.210 in. (5.33 mm) and 0.375 in. (9.53 mm) and have a wall thickness less than 0.375 in. (9.53 mm) but are limited in depth to 0.375 in. (9.53 mm) maximum by another rigid surface shall be permissible (see Fig. 3). The product shall be evaluated in all manufacturer's recommended use positions.	PASS
5.7	Scissoring, Shearing, Pinching: The unit, when in the manufacturer's recommended use position, shall be designed and constructed so as to prevent injury to the occupant from any scissoring, shearing, or pinching when members or components rotate about a common axis or fastening point, slide, pivot, fold, or otherwise move relative to one another. Scissoring, shearing, or pinching that may cause injury exists when the edges of the rigid parts admit a 0.210-in. (5.33-mm) diameter probe but do not admit a 0.375-in. (9.53-mm) diameter probe at any accessible point throughout the range of motion of such parts. This excludes the adjustment of accessory items such as storage latches, baskets, etc. NOTE 1—The evaluation at any given location is performed with the understanding that the probes are allowed to enter the location from any angle/direction.	PASS
5.7.1	The unit, when in the manufacturer's recommended use position, shall be designed and constructed so as to prevent injury to the occupant from any scissoring, shearing, or pinching when members or components rotate about a common axis or fastening point, slide, pivot, fold, or otherwise move relative to one another. Scissoring, shearing, or pinching that may cause injury exists when the edges of the rigid parts admit a 0.210-in. (5.33-mm) diameter probe but do not admit a 0.375-in. (9.53-mm) diameter probe at any accessible point throughout the range of motion of such parts. This excludes the adjustment of accessory items such as storage latches, baskets, etc. NOTE 1—The evaluation at any given location is performed with the understanding that the probes are allowed to enter the location from any angle/direction.	PASS
5.7.2	Saddle hinge links on 3D fold strollers shall be designed and constructed so as to prevent injury from scissoring, shearing, or pinching. Scissoring, shearing, or pinching that may cause injury exists in a saddle hinge link when the edges of the rigid parts admit a 0.210-in. (5.33-mm) diameter probe but do not admit a 0.375-in. (9.53-mm) diameter probe when tested in accordance with 7.17.1. NOTE 2—The evaluation at any given location is performed with the understanding that the probes are allowed to enter the location from any angle/direction.	N/A
5.7.3	Canopy pivots and canopy frame members shall comply with 5.7.1 when tested in accordance with 7.17.2. Canopy stretcher/locking device(s) are exempt from this requirement (see Fig. 4). The interface between canopy rods and canopy stops are exempt from this requirement if the canopy rod does not pass over or through the final canopy stop. Final canopy stops are those that prevent further movement or adjustment of the canopy (see example in Fig. 5). Intermediate canopy stop positions are not exempt from this requirement.	N/A
5.7.4	The frame folding action of a 2D fold stroller and convertible carriage/stroller (carriages are exempted from this requirement) shall be designed and constructed so as to prevent injury from scissoring, shearing, or pinching. Scissoring, shearing, or pinching that may cause injury exists when the edges of the rigid parts admit a 0.210-in. (5.33-mm) diameter probe but do not admit a 0.375-in. (9.53-mm) diameter probe when tested in accordance with 7.15. Units with a removable seat that prevent the complete folding of the unit when still attached are exempt from this requirement.	N/A



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Rationale for 7.15.2—Products are evaluated the last 1/3 of travel for a predefined access zone. Based on the incident data distributed by the CPSC, the task group hypothesized that the last 1/3 of travel is considered the most hazardous condition due to opportunity for an anxious child to climb into the stroller and begin adjusting their body for a comfortable fit while the caregiver is preoccupied with the final stages of erecting the stroller. At that moment in time the child may be in a seated position with their hands vulnerable to scissoring, shearing and pinching within the access zone while the final stages of stroller setup are competed. Although this theory does not fit all scenarios or cover all the stroller designs and mechanisms on the market today, it does address those folds that were involved in the incidents consequently representing the vast majority of types of folds at the time this requirement was created.		
5.8*	Exposed Coil Springs Any exposed coil spring which is accessible to the occupant, having or capable of generating a space between coils of 0.210 in. (5.33 mm) or greater during static load testing (see 6.2 and 7.3) shall be covered or otherwise designed to prevent injury from entrapment.	PASS
5.9	Labeling:	
5.9.1	Warning labels (whether paper or non-paper) shall be permanent when tested in accordance with 7.8.1-7.8.3.	PASS
5.9.2	Warning statements applied directly onto the surface of the product by hot stamping, heat transfer, printing, wood burning, etc. shall be permanent when tested in accordance with 7.8.4.	N/A
5.9.3	Non-paper labels shall not liberate small parts when tested in accordance with 7.8.5.	N/A
5.10	Protective Components If a child can grasp components between the thumb and forefinger, or teeth, such as caps, sleeves, or plugs used for protection from sharp edges, points, or entrapment of fingers or toes, or if there is at least a 0.040-in. (1.00-mm) gap between the component and its adjacent parent component, such component shall not be removed when tested in accordance with 7.9.	PASS
5.11	Seat Recline Measurement Place the back of the stroller in the most reclined position. Place the hinged boards with the hinged edge into the junction of the stroller back and seat (see Fig. 6). Measure the angle between the two boards.	Left: 109.95° Right: 110°
5.12	Toy Toy accessories attached to, removable from, or sold with unit, as well as their means of attachment, shall meet applicable requirements of Consumer Safety Specification F963.	N/A
5.13	Cord/Strap Length Cords and straps that originate within or extend into the occupant space shall not create a loop that has an internal perimeter exceeding 14.8 in. (376 mm) nor have a free stretched length that exceeds a length of 7.4 in. (188 mm) when evaluated with 7.16. Cords or straps that do not originate within the occupant space but that can extend into the occupant space shall be evaluated in accordance with 7.16 only on the portion of the cord/strap that can extend into the occupant space. Restraint systems used to secure an occupant, all straps used to attach hand held infant carriers, and straps on hand held infant carriers, stroller carry straps, and stroller tether straps are exempt from this requirement.	PASS



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5.14	Tray/Grab Bar Protective Covering Requirement Trays/grab bars that are accessible and forward of the occupant shall meet any one of the following:	N/A
5.14.1	The tray/grab bar does not contain foam material.	N/A
5.14.2	The tray/grab bar covering prevents the underlying foam material from being exposed when tested per 7.19.	N/A
6	Performance Requirements	
6.1	Parking Brake Requirements:	
6.1.1	A parking brake shall be provided on the unit. Each parking brake shall remain engaged during the test as specified in 7.6. Each parking brake shall prevent the braked wheel(s) from rotating more than 90° during the 5th test cycle specified in 7.6.	PASS
6.1.2	After completing the test described in 7.6, each parking brake shall be able to be engaged and shall meet the requirements of this standard in all parking brake engagement positions.	PASS
6.1.3	The parking brake shall release mechanism(s) shall comply with either 6.1.3.1, 6.1.3.2 or 6.1.3.3 when evaluated for each seating position of the product.	PASS
6.1.3.1	Each parking brake release mechanism shall be located outside the parking brake access zone for each seating position. Refer to Fig. 7. The space located behind the backrest is excluded from the parking brake access zone. Where a stroller is suitable for two or more children, the space located behind the backrest shall be considered if it enters another parking brake access zone. The access zone located under the seat is defined as a 2-in. (51-mm) band extending inward from each side of the seat/leg rest edge and downward for 5.9 in. (150 mm) from the uncompressed upper surface of the seat. (See Fig. 8.)	PASS
6.1.3.2	The parking brake release mechanism consists of one single-action release mechanism that shall not be released when a force of 10 lbf (45 N) or a torque of 3 lbf-in. (0.34 Nm) is applied directly to the release mechanism in the direction tending to release it.	N/A
6.1.3.3	The parking brake release mechanism is a double-action release mechanism.	N/A
6.2	Static Load:	
6.2.1	A carriage shall support a static load of 50 lbf (222 N) when placed in the approximate center of the area intended to support the infant occupant.	N/A
6.2.2	A stroller shall support a static load of 100 lb (45.4 kg) or 2.5 times the manufacturer's recommended maximum weight, whichever is greater, per individual seating area, when placed in the approximate center of the area intended to support the child occupant.	PASS
6.2.3	A convertible carriage/stroller shall support a static load appropriate to the configuration in which the unit is erected. All configurations shall be tested.	N/A
6.2.4	A combination unit of a car seat on a stroller shall support a static load of 50 lbf (222 N) when placed in the approximate center of the area intended to support the occupant.	N/A



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6.2.5	Test methods shall be performed in accordance with 7.3. At the conclusion of the test method, there shall be no unacceptable conditions as identified within this specification (see Note 5). In cases of multiple occupancy units, a specified test weight shall be applied simultaneously to each occupant position. NOTE 5—For the purpose of this specification, the unacceptable conditions that might be identified by the static load test methods shall be tip over, collapse of the product or a component of the product, sharp edges or points, and small parts.	PASS
6.2.6	Any step or footrest on the product shall support a static load of 50 lb (22.7 kg) or 1.25 times the manufacturer's recommended maximum weight, per individual seating area, whichever is greater.	PASS
6.3	Stability The product shall remain on the appropriate test plane and not tip over when tested in accordance with 7.4. At the end of this test method, the unit shall remain in the manufacturer's recommended-use position on the inclined test plane when tested in accordance to 7.4.1 and on a horizontal test plane when tested in accordance with 7.4.2. In cases of multiple-occupancy units, the specified test weight shall be placed in any occupant seat deemed to be the worst or the most likely to fail. Products that include as original equipment manufacturer-supplied accessories for carrying any type of packages must be tested with these accessories both empty and loaded with the most adverse configured combination of weights, including the maximum weight(s) specified by the manufacturer, while each available seating position is occupied by the specified test weight.	PASS
6.4	Restraining System All products covered by this specification, except carriages designed only for an infant, must have a child restraint system. The manufacturer shall attach the restraint system in such a manner that it will not become detached through normal usage. The restraint system shall include both waist and crotch restraint. The crotch resistant shall be designed such that its use is mandatory when the restraint system is in use.	PASS
6.4.1	Carriage No restraining system is required if the carriage is intended to be used for an infant only. Carriages with accessory sit-up backs or other items indicating intent to be used for children developed beyond infancy must have a restraining system (see 6.4.4).	N/A
6.4.2	Stroller A restraining system shall be provided preassembled by the manufacturer to a component of the stroller.	PASS
6.4.3	Convertible Carriage/Stroller A restraining system shall be provided on each convertible carriage/stroller that will function as though the unit is specifically a carriage (see 6.4.1) or stroller (see 6.4.2).	N/A



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6.4.4	Restraining System Test methods for all restraining systems shall be in accordance with 7.5. The restraint system and its closing means (for example, buckle) shall not part or slip more than 1 in. (25 mm). The anchorages shall not separate from their attachment points. At the end of the tests, the CAMI dummy shall not be released fully. When tested in accordance with 7.5.2.8, the restraint system (see Fig. 7 for Point C) shall not move more than 2 in. (51 mm).	PASS
6.4.5**	Harness System If a harness system utilizes seat back anchor points for shoulder straps, then the system shall meet the requirements of 7.5.3.	PASS
6.4.6	Location of Restraining System When tested in accordance with 7.5.4, the restraining system shall meet the following requirements.	PASS
6.4.6.1*	The anchor points of the waist restraint shall be between the 2-in. (50-mm) line and the 5-in. (127-mm) line on the test cylinder when tested in accordance with 7.5.4.3.	PASS
6.4.6.2	A 1-in. (25-mm) diameter probe shall not freely pass through any gap between the waist restraint and the test cylinder when tested in accordance with 7.5.4.4.	PASS
6.4.6.3*	The forward most position of the junction of the crotch strap and seat surface shall not be in front of the test cylinder when tested in accordance with 7.5.4.5. A removable seat pad shall not be considered part of the seat surface.	PASS
6.4.6.4**	The point on the lower edge of the waist strap shall be between the 4.5-in. (114-mm) line and the 7.5-in. (190-mm) line on the test cylinder when tested in accordance with 7.5.4.6.	PASS
6.4.7	Buckle Release The waist buckle release mechanism shall meet either 6.4.7.1 or 6.4.7.2 when tested in accordance with 7.5.5.	PASS
6.4.7.1	The buckle shall have a single-action release mechanism that does not release at a force less than 9 lbf (40 N) when tested in accordance with 7.5.5.2.	PASS
6.4.7.2	The buckle shall consist of a double-action release mechanism that does not release with any one of the release mechanisms activated alone when tested in accordance with 7.5.5.3.	N/A
6.5	Occupant Retention Carriages or seating locations of convertible carriage/strollers with a reclined carriage position(s) shall have a wall(s) surrounding all sides above the floor of the occupant retention space. The enclosure shall not allow the complete passage of the test probe shown in Fig. 11 through any completely bounded external openings (any holes) below the top edge of the occupant retention space when tested in accordance with 7.7.	N/A
6.5.1	Products with a reclined carriage position(s) must have a nondetachable feature to enable them to conform to the requirement in 6.5 unless the product only can be adjusted to any reclined carriage position when a detachable device is attached.	N/A
6.5.1.1	Nondetachable denotes that the occupant retention assembly cannot be separated or removed from the product without damaging it or be removed without the aid of tools.	N/A
6.6	Car Seat/Stroller Products	



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Clause	Test Requirement / Method	Rating
6.6.1	Combination Unit of a Car Seat on a Stroller The combined unit shall conform to the requirements of 2.2, 6.1 in accordance with 7.6, 6.2.4 in accordance with 7.3.2, 6.3 in accordance with 7.4.1, 6.7.1 in accordance with 7.11, 6.10 in accordance with 7.18, 7.10, and 9.1 when the car seat is installed in all manufacturer's recommended use positions. When testing the combination unit according to 7.10 (16 CFR 1500.52 (b) (4) (iii)), the unit shall neither have any broken parts nor allow the car seat to completely separate from the stroller.	N/A
6.6.2	Convertible Car Seat/Stroller A restraint system which is certified to restrain a child in a motor vehicle, shall be exempt from the requirements of 6.4.5 and 6.4.6.	N/A
6.7	Impact Test:	
6.7.1	For combination unit of a car seat on a carriage, stroller, or convertible carriage/stroller:	
6.7.1.1	The unit shall not allow any attachment point(s) provided by the manufacturer for securing the car seat to the unit to release when tested in accordance with 7.11.1-7.11.5. After the test, the car seat shall remain in the manufacturer's recommended use position.	N/A
6.7.2	For carriage, stroller, or convertible carriage/stroller:	
6.7.2.1	The fold locking/latching mechanism shall not disengage or break, or both, and breakage shall not occur to the frame of the unit when tested in accordance with 7.11.6.	PASS
6.8	Passive Containment/Foot Opening The test shall be performed on all strollers and convertible carriage/strollers, while in stroller mode, that have a tray(s) or grab bar(s) that create a completely or partial bounded opening(s) in front of the occupant. An opening(s) shall either permit complete passage of the head probe (Fig. 12) or shall not permit complete passage of the torso probe (Fig. 13) when tested in accordance with 7.12.	N/A
6.9	Wheel and Swivel Assemblies Detachment:	
6.9.1	Wheel(s) and swivel(s) assemblies shall not detach from the unit upon completion of the test in accordance with 7.13.1 and 7.13.2.	PASS
6.9.2	A removable-wheel fork assembly(s) shall incorporate a secondary retention device and shall be so designed as to prevent unintended detachment of the wheel from the unit when tested in accordance with 7.14.	N/A
6.10	Head Entrapment with Car Seat on a Stroller or Convertible Carriage/Stroller This requirement applies to a combination unit of a rear-facing car seat on a stroller or convertible carriage/stroller when tested in accordance with 7.18. Any completely bounded external opening within 5 in. (127 mm) above the foot end of the car seat shall either not allow the complete passage of the torso probe (Fig. 13) when tested in accordance with 7.18.3 or shall permit complete passage of the head probe (Fig. 12) when tested in accordance with 7.18.5. Any horizontal openings between the car seat foot end and the front surface of the unit seat back are excluded from this requirement.	N/A
8*	Marking and Labeling	PASS
9*	Instructional Literature	PASS

Note: N/A =Not applicable; N/C=Not conducted (as per client's request).



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Item with * means it passed at the first retest.

Item with ** means it passed at the second retest.

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Sample Photo:

Received sample (front view)



Received sample (side view)



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End of Report



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