

TEST REPORT

EN 13310

Kitchen sinks — Functional requirements and test methods

Report Reference No.....: 241015113GZU-001

Tested by (name and signature).....: Luna Lan

Engineer

Luna Lan

Approved by (name and signature).....: Syanson Xu

Senior project engineer

Syanson Xu

Date of original issue: November 14, 2024

Date of revised issue: -----

Contents.....: Total test report 16 pages including:

Report text: 11 pages

Appendix A for product photos: 4 pages

Appendix B for revision page: 1 page

Testing Laboratory name: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Address: Room 4103 & 4203, No. 63, Punan Road, Huangpu District, Guangzhou, Guangdong Province, China

Testing location.....: Same as above

Applicant's name.....: [REDACTED]

Address: [REDACTED]



Test specification:

Standard: EN 13310:2015+A1:2018 (E)

Non-standard test method.....: N/A

Test Report Form No.....: TTRF_EN 13310_d

TTRF Originator: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Master TTRF: Dated 2024-05-07

Test item description: Stainless steel sink

Trade Mark: ---

Model and/or type reference: See "General product information" on page 2 to 4

Manufacturer: Taizhou Bolang Kitchenware Co., Ltd.

Rating(s): See "General product information" on page 2 to 4

Summary of testing:

The submitted samples were tested and found to **COMPLY WITH** applicable requirements of EN 13310:2015+A1:2018 (E).

Test item particulars:

Classification of installation and use.....: Preparation of food, washing of dishes and discharge of domestic wastewater

Supply Connection: —

Possible test case verdicts:

- Test case does not apply to the test object.....: N/A
- Test object does meet the requirement: P (Pass)
- Test object does not meet the requirement: F (Fail)

Testing:

Date of receipt of test item: November 16, 2023 and December 6, 2023 and December 18, 2023 and October 14, 2024

Date (s) of performance of tests: November 18, 2023 to December 19, 2023;
December 22, 2023 to January 8, 2024;
October 15, 2024 to November 8, 2024

General remarks:

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

“(See remark #)” refers to a remark appended to the report.

“(See Appendix #)” refers to an appendix appended to the report.

When determining the test result, measurement uncertainty has been considered.

The clause which indicated with * is the subcontract test item.

All the test results if need to give the statement of conformity refer to the decision rule of ILAC G8:09/2019 Clause 4.2.1“Binary Statement for Simple Acceptance Rule”.

The revised report replaces the report of the previous version.

General product information:

Item No.	Model No.	Description	Size	Remark
1	BL-5101	Stainless steel sink, single bowl, with supply fitting hole, with overflow.	1000*500*215	Tested Model
2	BL-5102	Stainless steel sink, double bowls, with supply fitting hole, with overflow.	1000*500*210	Covered Model
3	BL-5301	Stainless steel sink, single bowl, with supply fitting hole, with overflow.	1000*500*210	Covered Model
4	BL-5302	Stainless steel sink, double bowls, with supply fitting hole, with overflow.	1000*500*205	Tested Model
5	BL-5103R	Stainless steel sink, single bowl, with supply fitting hole, with overflow.	860*520*210	Tested Model
6	BL-5103L	Stainless steel sink, single bowl, with supply fitting hole, with overflow.	860*520*210	Covered Model
7	BL-5104R	Stainless steel sink, double bowls, with supply fitting hole, with overflow	860*520*205	Covered Model

8	BL-5104L	Stainless steel sink, double bowls, with supply fitting hole, with overflow.	860*520*205	Covered Model
9	BL-6801	Stainless steel sink, single bowl, with supply fitting hole, with overflow.	950*508*205	Covered Model
10	BL-6802	Stainless steel sink, double bowls, with supply fitting hole, with overflow.	950*508*200	Tested Model
11	BL-6701	Stainless steel sink, single bowl, with supply fitting hole, with overflow.	950*508*160	Tested Model
12	BL-6702	Stainless steel sink, double bowls, with supply fitting hole, with overflow.	950*508*160	Covered Model
13	BL-6703	Stainless steel sink, single bowl, with supply fitting hole, with overflow	950*508*160	Covered Model
14	BL-6704	Stainless steel sink, double bowls, with supply fitting hole, with overflow.	950*508*160	Tested Model
15	BL-6711	Stainless steel sink, single bowl, with supply fitting hole, with overflow	860*500*160	Covered Model
16	BL-6712	Stainless steel sink, single bowl, with supply fitting hole, with overflow	860*500*160	Covered Model
17	BL-934B	Stainless steel sink, double bowls, without supply fitting hole, with overflow.	1200*500*150	Tested Model
18	BL-696L/R	Stainless steel sink, single bowl, without supply fitting hole, with overflow	860*520	Tested Model
19	BL-698L/R	Stainless steel sink, double bowls, without supply fitting hole, with overflow	1000*520	Covered Model
20	BL-699L/R	Stainless steel sink, double bowls, without supply fitting hole, with overflow	1160*520	Covered Model
21	BL-804	Stainless steel sink, double bowls, without supply fitting hole, with overflow	1160*500	Covered Model
22	BL-822	Stainless steel sink, double bowls, without supply fitting hole, with overflow	1200*500	Tested Model
23	BL-838	Stainless steel sink, double bowls, without supply fitting hole, with overflow	1200*500	Covered Model
24	BL-654	Stainless steel sink, single bowl, without supply fitting hole, with overflow	860*500	Covered Model
25	BL-655	Stainless steel sink, double bowls, without supply fitting hole, with overflow	970*500	Tested Model
26	BL-658	Stainless steel sink, double bowls, without supply fitting hole, with overflow	1160*500	Tested Model
27	BL-783	Stainless steel sink, single bowl, without supply fitting hole, with overflow	440*440	Covered Model
28	BL-784	Stainless steel sink, single bowl, without supply fitting hole, with overflow	490*440	Covered Model
29	BL-785	Stainless steel sink, single bowl, without supply fitting hole, with overflow	540*440	Covered Model
30	BL-786	Stainless steel sink, single bowl, without supply fitting hole, with overflow	590*440	Covered Model
31	BL-4474SB	Stainless steel sink, single bowl, without supply fitting hole, with overflow	740*440	Covered Model
32	BL-7944	Stainless steel sink, single bowl, without supply fitting hole, with overflow	790*440	Tested Model
33	BL-983L/R	Stainless steel sink, double bowls, without supply fitting hole, with overflow	590*440	Covered Model
34	BL-4454DBL/R	Stainless steel sink, double bowls, without supply fitting hole, with overflow	540*440	Covered Model

35	BL-737	Stainless steel sink, double bowls, without supply fitting hole, with overflow	745*440	Tested Model
36	BL-830B	Stainless steel sink, single bowl, with supply fitting hole and overflow	Ø490*180mm	Tested Model
37	BL-858	Stainless steel sink, single bowl, with supply fitting hole and overflow	Ø490*180mm	Covered Model
38	BL-790	Stainless steel sink, single bowl, without supply fitting hole, with overflow	330*200*135mm	Tested Model
39	BL-844	Stainless steel sink, single bowl, without supply fitting hole, with overflow	320*220*120mm	Covered Model
40	BL-985	Stainless steel sink, double bowls, without supply fitting hole, with overflow	750*440*185mm	Tested Model

Remark:

1. The covered models were the same as the evaluated models in structure, materials and manufacturer process, just different in size and/or appearance.
2. The test data for the models from Item no. 1 to 35 was based on Intertek report No. 231117110GZU-001 dated January 8, 2024.

EN 13310			
Clause	Requirement - Test	Result - Remark	Verdict
4	Characteristics		
4.1	General Instructions for installation, use and care shall be supplied. Annex A gives advice on the care and use of kitchen sinks which can be included in the instructions for use and care. NOTE The manufacturer's declaration of conformity with applicable European Directives is made in his instructions for use and care on materials intended to come into contact with foodstuffs (see Bibliography).	Complied	P
4.2	Connecting dimensions The connecting dimensions shall meet the requirements specified in EN 695.	The submitted sample met the requirement of EN695.	P
4.3	Draining of water When tested in accordance with 5.2 all surfaces of the kitchen sink shall be inclined towards the bowl(s) and/or outlet(s) to ensure the drainage of water. The requirement shall apply only to the bowl and the draining area (if applicable). The requirement shall not apply to tap platforms.	No water remained.	P
4.4	Resistance to dry heat The test is intended to determine the suitability of kitchen sink surfaces where contact with moderately hot cooking pots is to be expected. When tested in accordance with 5.3, or alternatively at a temperature of 180 °C in accordance with ISO 4211-3, the kitchen sink shall not show surface changes which influence its usage, e.g. cracks, crazing, through cracks, blistering. Experience has shown that kitchen sinks made of glazed ceramics and stainless steel comply with this characteristic.	Complied.	P
4.5	Resistance to temperature changes When tested in accordance with 5.4, the kitchen sink shall not show surface changes which influence its intended usage, e.g. cracks, delamination. Experience has shown that kitchen sinks made of glazed ceramics and stainless steel comply with this characteristic.	Complied.	P

EN 13310			
Clause	Requirement - Test	Result - Remark	Verdict
4.6	Resistance against chemicals and staining agents Kitchen sinks, when used as intended, shall be resistant to household chemicals, foodstuffs and cleansing agents. When tested in accordance with 5.5, the kitchen sinks shall not show any permanent surface deterioration, such as stains or deterioration which are not removable with water or abrasive agents.	No defects after test.	P
4.7	Surface stability		
4.7.1	Resistance to scratching This characteristic is applicable only to multi-layer kitchen sinks to ensure the stability of the top layer. When tested in accordance with 5.6, any scratch shall not exceed 0,1 mm and/or the total depth of the top layer whichever is the least. Experience has shown that kitchen sinks made of glazed ceramics and stainless steel comply with this characteristic.		N/A
4.7.2	Resistance to abrasion This characteristic is applicable only to multi-layer kitchen sinks to ensure the stability of the top layer. When tested in accordance with 5.7, the top layer of the test specimen shall not be abraded through. Experience has shown that kitchen sinks made of glazed ceramics and stainless steel comply with this characteristic.		N/A
4.8	Load stability When tested in accordance with 5.8, the wall-hung sink shall not crack, fall down or show permanent distortion.		N/A

EN 13310																																					
Clause	Requirement - Test	Result - Remark	Verdict																																		
4.9	Flow rate of the overflow Every kitchen sink shall be protected against overflowing. When tested in accordance with 5.9, the flow rate of the overflow shall not be less than 0,20 l/s. NOTE In kitchen sinks with two or more bowls, it is possible to have only one overflow if the overflow from one bowl is interconnected to the other. A non-closeable outlet can also be used as an overflow.	The products were equipped with the overflow hole(s) waste fitting.	P																																		
		<table><tr><th>Motel</th><th>Overflow rate (L/s)</th></tr><tr><td>BL-5101</td><td>0.25</td></tr><tr><td>BL-5302</td><td>0.25</td></tr><tr><td>BL-5103R</td><td>0.22</td></tr><tr><td>BL-6802</td><td>0.23</td></tr><tr><td>BL-6701</td><td>0.23</td></tr><tr><td>BL-6704</td><td>0.22</td></tr><tr><td>BL-934B</td><td>0.22</td></tr><tr><td>BL-7944</td><td>0.29</td></tr><tr><td>BL-737</td><td>Left bowl: 0.28 Right bowl: 0.28</td></tr><tr><td>BL-696L/R</td><td>0.25</td></tr><tr><td>BL-822</td><td>0.27</td></tr><tr><td>BL-655</td><td>0.29</td></tr><tr><td>BL-658</td><td>0.29</td></tr><tr><td>BL-830B</td><td>0.25</td></tr><tr><td>BL-790</td><td>0.20</td></tr><tr><td>BL-985</td><td>Left bowl: 0.23 Right bowl: 0.23</td></tr></table>		Motel	Overflow rate (L/s)	BL-5101	0.25	BL-5302	0.25	BL-5103R	0.22	BL-6802	0.23	BL-6701	0.23	BL-6704	0.22	BL-934B	0.22	BL-7944	0.29	BL-737	Left bowl: 0.28 Right bowl: 0.28	BL-696L/R	0.25	BL-822	0.27	BL-655	0.29	BL-658	0.29	BL-830B	0.25	BL-790	0.20	BL-985	Left bowl: 0.23 Right bowl: 0.23
		Motel		Overflow rate (L/s)																																	
		BL-5101		0.25																																	
		BL-5302		0.25																																	
		BL-5103R		0.22																																	
		BL-6802		0.23																																	
		BL-6701		0.23																																	
		BL-6704		0.22																																	
		BL-934B		0.22																																	
		BL-7944		0.29																																	
		BL-737		Left bowl: 0.28 Right bowl: 0.28																																	
		BL-696L/R		0.25																																	
		BL-822		0.27																																	
		BL-655		0.29																																	
		BL-658		0.29																																	
		BL-830B		0.25																																	
		BL-790		0.20																																	
		BL-985		Left bowl: 0.23 Right bowl: 0.23																																	

4.10	Durability Kitchen sinks conforming to the characteristic of 4.3 to 4.8 are deemed to be durable.	Complied	P
6	Dangerous substances	Informative	—
7	Marking	The manufacturer shall carry out conformity marking of the product according to this standard and relevant EU/UK regulation.	—
8	Assessment and verification of constancy of performance - AVCP		

EN 13310			
Clause	Requirement - Test	Result - Remark	Verdict
8.1	General The compliance of kitchen sinks with the requirements of this standard and with the performances declared by the manufacturer in the DoP shall be demonstrated by: — determination of product type (see 8.2); — factory production control by the manufacturer, including product assessment (see 8.3). The manufacturer shall always retain the overall control and shall have the necessary means to take responsibility for the conformity of the product with its declared performance(s).		P
8.2	Type testing		
8.2.1	General All performances related to characteristics included in this standard shall be determined when the manufacturer intends to declare the respective performances unless the standard gives provisions for declaring them without performing tests (e.g. use of previously existing data, CWFT and conventionally accepted performance).		P
8.2.2	Test samples, testing and compliance criteria The number of samples of kitchen sinks to be tested/assessed shall be in accordance with Table 3.		P
8.3	Factory Production Control (FPC)		
8.3.1	General The manufacturer shall establish, document and maintain an FPC system to ensure that the products placed on the market comply with the declared performance of the Essential Characteristics.	The applicant supplied ISO 9001 certificate.	P
8.3.2	Equipment		
8.3.2.1	Testing All weighing, measuring and testing equipment shall be calibrated and regularly inspected in accordance with the documented procedures, frequencies and criteria.	The applicant supplied ISO 9001 certificate.	P

EN 13310			
Clause	Requirement - Test	Result - Remark	Verdict
8.3.2.2	Manufacturing All equipment used in the manufacturing process shall be regularly inspected and maintained to ensure use; wear or failure does not cause inconsistency in the manufacturing process. Inspections and maintenance should be carried out and recorded in accordance with the manufacturer's written procedures and the records retained for the period defined in the manufacturer's FPC procedures.	The applicant supplied ISO 9001 certificate.	P
8.3.3	Raw materials and components The specifications of all incoming raw materials and components shall be documented, as shall the inspection scheme for ensuring their compliance. In case supplied kit components are used, the constancy of performance system of the component shall be that given in the appropriate harmonized technical specification for that component.	The applicant supplied ISO 9001 certificate.	P
8.3.4	Product testing and evaluation The manufacturer shall establish and document procedures to ensure that the stated values of all of the characteristics are maintained.	The applicant supplied ISO 9001 certificate.	P

EN 13310			
Clause	Requirement - Test	Result - Remark	Verdict
8.3.5	Non-complying products The manufacturer shall have written procedures which specify how non-complying products shall be dealt with. Any such events shall be recorded as they occur and these records shall be kept for the period defined in the manufacturer's written procedures. Where the product fails to satisfy the acceptance criteria, the provisions for non-complying products shall apply, the necessary corrective action(s) shall immediately be taken and the products or batches not complying shall be isolated and properly identified. Once the fault has been corrected, the test or verification in question shall be repeated. The results of controls and tests shall be properly recorded. The product description, date of manufacture, test method adopted, test results and acceptance criteria shall be entered in the records under the signature of the person responsible for the control/test. With regard to any control result not meeting the requirements of this European Standard, the corrective measures taken to rectify the situation (e.g. a further test carried out, modification of manufacturing process, throwing away or putting right of product) shall be indicated in the records.	The applicant supplied ISO 9001 certificate.	P
8.3.6	Corrective action The manufacturer shall have documented procedures that instigate action to eliminate the cause of nonconformities in order to prevent recurrence.	The applicant supplied ISO 9001 certificate.	P

*****End of this page*****

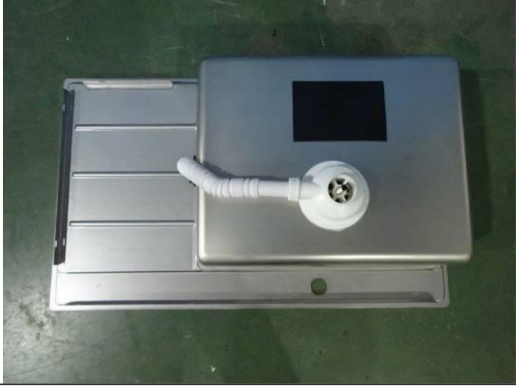
EN 695			
Clause	Requirement - Test	Result - Remark	Verdict
4	Waste outlet holes The connecting dimensions for waste outlet holes shall comply with the requirements given in Table 1 except when the waste outlets are supplied by the manufacturer together with the kitchen sink.	The submitted sample was matched a suitable waste fitting.	P
5	Fitting area for tap holes		
5.1	Fitting area for a single tap hole The fitting area for the single tap hole shall comply with the requirements given in Table 2.	See below table 1. Note: This clause was not applicable for model BL-934B, BL-7944, BL-737, BL-696L/R, BL-822, BL-655, BL-658, BL-790, BL-985.	P
5.2	Fitting area for the two-hole mixer tap The fitting area for the two-hole mixer tap shall comply with the requirement given in Table 3.		N/A
6	Overflow holes Overflow holes, if provided, shall meet the requirements of Table 4 except when the overflow and its pipework is supplied by the manufacturer together with the kitchen sink or for kitchen sinks with an integral overflow.	The overflow and its pipework were supplied by the manufacturer together with the kitchen sink.	P

Table 1

Symbol (mm)	BL-5101	BL-5302	BL-5103R	BL-6802	BL-6701	BL-6704	BL-830B
$d_2(35^{+2}_{-1})$	34.9	34.9	34.9	35.0	34.9	35.0	35.0
$d_3(\geq 64)$	65.7	64.0	64.7	64.1	64.6	66.5	64.0
$s(\leq 18)$	0.9	0.9	2.5	0.9	0.7	0.7	0.8
$r(\geq 25)$	32.6	32.3	31.5	33.6	32.2	32.7	28.0
$r_1(\geq 30)$	37.8	33.8	31.5	37.4	33.9	32.9	33.2
$x(\leq 5)$	5	5	5	5	5	5	5
g_1	69.4	51.5	48.2	52.3	61.6	63.0	51.5

*****End of this page*****

Appendix A
Product photos

	
Top view (BL-5101)	Bottom view (BL-5101)
	
Top view (BL-5103R)	Bottom view (BL-5103R)
	
Top view (BL-5302)	Bottom view (BL-5302)
	
Top view (BL-6701)	Bottom view (BL-6701)

	
Top view (BL-6704)	Bottom view (BL-6704)
	
Top view (BL-6802)	Bottom view (BL-6802)
	
Top view (BL-934B)	Bottom view (BL-934B)
	
Top view (BL-655)	Bottom view (BL-655)

	
Top view (BL-658)	Bottom view (BL-658)
	
Top view (BL-696L/R)	Bottom view (BL-696L/R)
	
Top view (BL-737)	Bottom view (BL-737)
	
Top view (BL-822)	Bottom view (BL-822)

	
Top view (BL-7944)	Bottom view (BL-7944)
	
Top view (BL-830B)	Bottom view (BL-830B)
	
Top view (BL-790)	Bottom view (BL-790)
	
Top view (BL-985)	Bottom view (BL-985)

*****End of this page*****

Appendix B
Revision page

Revision No.	Date	Changes	Author	Reviewer
R0	/	First issue	/	/

*****End of this report*****