

TEST REPORT EN 13310 Kitchen sinks — Functional requirements and test methods	
Report Reference No.....	210322127GZU-001
Tested by (name and signature).....	Victor Tang Engineer
Approved by (name and signature).....	Syanson Xu Senior Project Engineer
Date of original issue	April 13, 2021
Date of revised issue	---
Contents.....	Total test report 14 pages including: Report text: 10 pages Appendix A for product photos: 3 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	NO.2328, Haifeng Road, Binhai Industry Zone, Taizhou, Zhejiang, China
Test specification:	
Standard	EN 13310:2015+A1:2018 (E)
Non-standard test method.....	N/A
Test Report Form No..... TTRF_EN 13310_c	
TTRF Originator	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Master TTRF	Dated 2019-3-20
Test item description Stainless steel sink	
Trade Mark	---
Model and/or type reference	See "General product information" on page 4
Manufacturer	[REDACTED]
Rating(s)	See "General product information" on page 4

When this European Standard (EN 13310:2015+A1:2018) is cited in the Official Journal of the European Union (OJEU), it shall be possible to use it as a basis for the establishment of the Declaration of Performance (DoP) and the CE marking, from the date of the beginning of the coexistence period as specified in the OJEU.

The CE marking symbol shall be in accordance with the general principles set out in Article 30 of Regulation (EC) No. 765/2008. It may be followed by a pictogram or any other mark notably indicating a special risk or use.

— *It shall be affixed visibly, legibly and indelibly:*

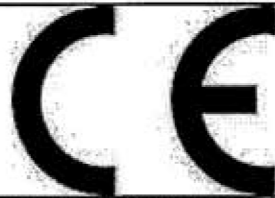
— *to the product or*

— *to a label attached to it.*

— *Where this is not possible or not warranted on account of the nature of the product, it shall be affixed:*

— *to the packaging or*

— *to the accompanying documents.*



Taizhou Bolang Kitchenware Co., Ltd.
NO.2328, Haifeng Road, Binhai Industry Zone, Taizhou,
Zhejiang, China

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XXXXX

YYYYY

Preparation of food, washing of dishes and discharge of
domestic wastewater

EN 13310
CA-DA

Remark:

1. "XXXXX" should be the reference number of the DoP.

2. "YYYYY" should be the unique identification code of the product type.

Summary of testing:

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

Test item particulars:
Classification of installation and use..... : For personal hygiene
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 : March 19, 2021
Date (s) of performance of tests : March 23, 2021 to March 26, 2021
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 tests results give the statement of conformity refer to the decision rule of "Procedure 2 "Accuracy Method" as stated in the IEC Guide 115:2007. The revised report replaces the report of the previous version.

General product information:

Model No.	Description	Remark
BL-899	Stainless steel sink, single bowl, without supply fitting hole, with non-closeable outlet. Size: $\phi 450 \times 45 \text{mm}$	Covered Model
BL-900	Stainless steel sink, single bowl, without supply fitting hole, with overflow. Size: $\phi 450 \times 180 \text{mm}$	Tested Model
BL-904	Stainless steel sink, single bowl, without supply fitting hole, with overflow. Size: $580 \times 450 \times 175 \text{mm}$	Covered Model
BL-834B	Stainless steel sink, single bowl, with supply fitting hole, with overflow. Size: $800 \times 480 \times 160 \text{mm}$	Covered Model
BL-625	Stainless steel sink, single bowl, with supply fitting hole, with overflow. Size: $500 \times 500 \times 205 \text{mm}$	Tested Model
BL-815	Stainless steel sink, single bowl, with supply fitting hole, with overflow. Size: $860 \times 500 \times 200 \text{mm}$	Tested Model
BL-989	Stainless steel sink, double bowls, with supply fitting hole, with overflow and non-closeable outlet. Size: $596 \times 472 \times 190 \text{mm}$	Covered Model
BL-990R	Stainless steel sink, double bowls, with supply fitting hole, with overflow and non-closeable outlet. Size: $596 \times 472 \times 190 \text{mm}$	Covered Model
BL-990L	Stainless steel sink, double bowls, with supply fitting hole, with overflow and non-closeable outlet. Size: $596 \times 472 \times 190 \text{mm}$	Tested Model
BL-621	Stainless steel sink, single bowl, without supply fitting hole, with overflow. Size: $500 \times 450 \times 200 \text{mm}$	Tested Model

Remark: The covered models were the same as the evaluated models in structure, materials and manufacturer process, just different in size.

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, de-lamination. 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. <table border="1"> <tr> <th>Motel</th> <th>Overflow rate (L/s)</th> </tr> <tr> <td>BL-621</td> <td>0.27</td> </tr> <tr> <td>BL-625</td> <td>0.21</td> </tr> <tr> <td>BL-815</td> <td>0.21</td> </tr> <tr> <td>BL-900</td> <td>0.28</td> </tr> <tr> <td>BL-990L</td> <td>(big bowl): 0.21</td> </tr> </table> For model BL-990L(small bowl): With a non-closeable outlet, the overflow was more than 0.2L/s.	Motel	Overflow rate (L/s)	BL-621	0.27	BL-625	0.21	BL-815	0.21	BL-900	0.28	BL-990L	(big bowl): 0.21	P
	Motel	Overflow rate (L/s)													
	BL-621	0.27													
	BL-625	0.21													
	BL-815	0.21													
	BL-900	0.28													
	BL-990L	(big bowl): 0.21													
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		—												
8	Assessment and verification of constancy of performance - AVCP														
8.1	General Thé 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														

EN 13310			
Clause	Requirement - Test	Result - Remark	Verdict
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
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

EN 13310			
Clause	Requirement - Test	Result - Remark	Verdict
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
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

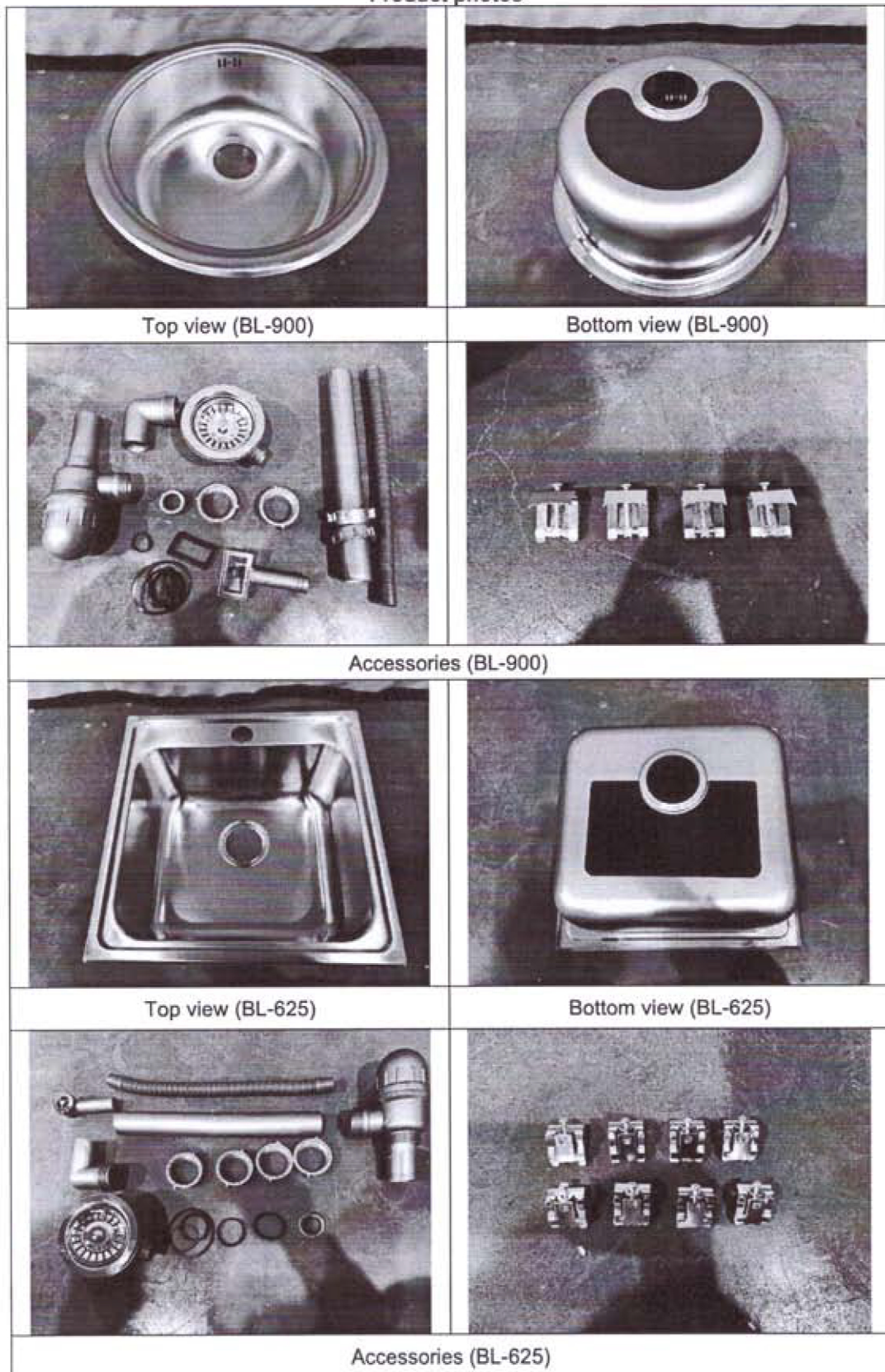
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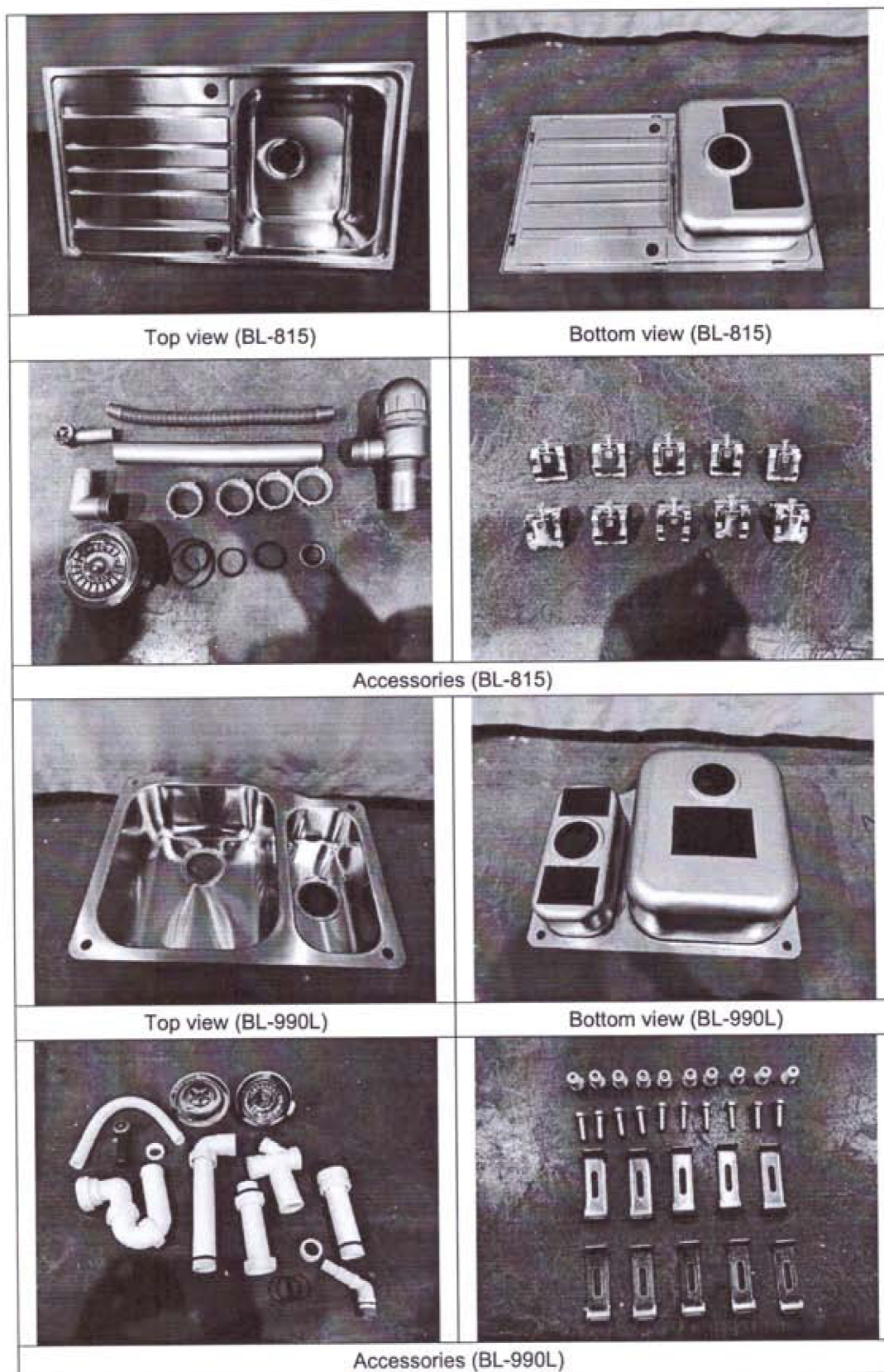
EN 695			
Clause	Requirement - Test	Result - Remark	Verdict
4	Waste outlet holes The connecting dimensions for waste outlet holes shall comply with the requirements given in Table 1 except when the waste outlets are supplied by the manufacturer together with the kitchen sink.	The submitted sample was 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.	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

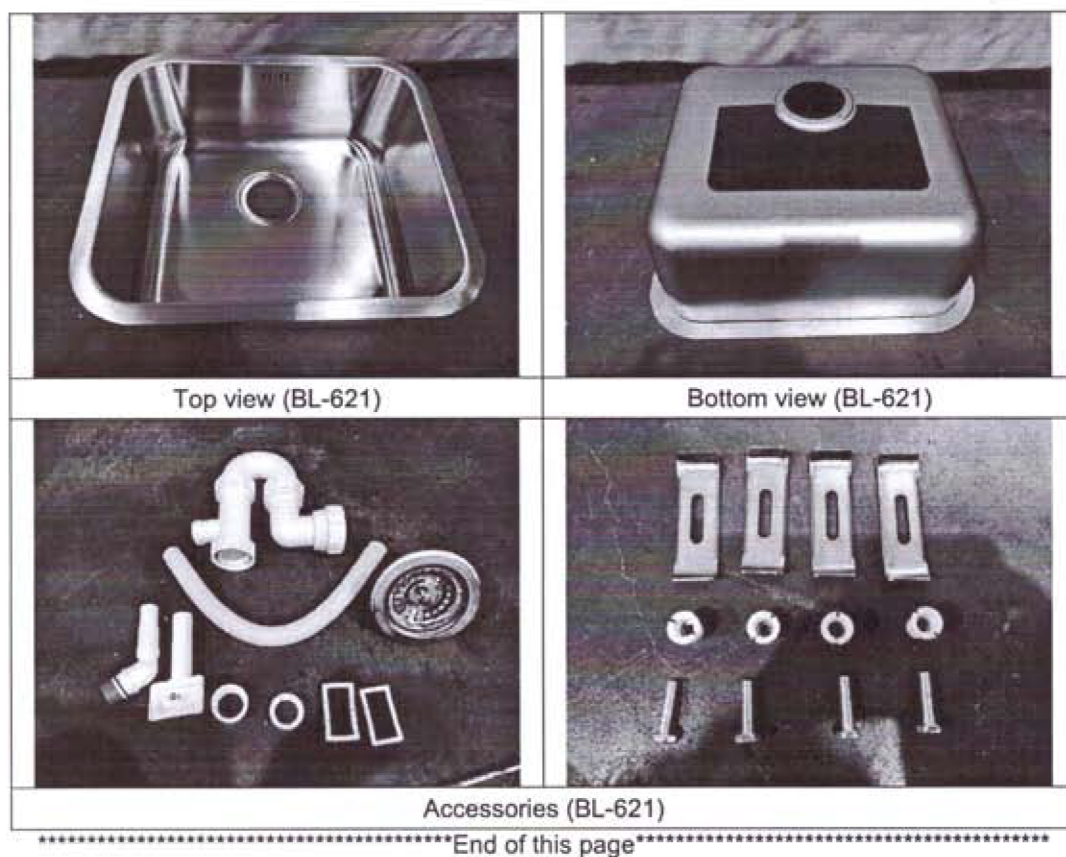
Table 1

Symbol (mm)	BL-625	BL-815
$d_2(35^{+2}_{-1})$	34.8	34.9
$d_3(\geq 64)$	64.0	64.0
$s(\leq 18)$	0.5	0.7
$r(\geq 25)$	26.0	33.5
$r_1(\geq 30)$	30.0	35.5
$x(\leq 5)$	5.0	5.0
g_1	27.0	35.4

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**Appendix A
Product photos**





Appendix B
Revision page

Revision No.	Date	Changes	Author	Reviewer
0	April 13, 2021	First issue	Victor Tang	Syanson Xu

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