

TEST REPORT EN 14527 Shower trays for domestic purposes	
Report Reference No.....:	180724084GZU-001
Tested by (name and signature).....:	Syanson Xu Project Engineer 
Approved by (name and signature).....:	Bink Xu Senior Project Engineer 
Date of original issue	August 7, 2018
Date of revised issue	May 27, 2019
Contents.....:	Total test report 12 pages including: Report text: 10 pages Appendix A for product photos: 1 page 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	JINGZHOU YONGTAIHENG ENTERPRISE
Address	RM 707, VICTORIA PLAZA, NO. 23 HONGMEN ROAD, JINGZHOU, HUBEI, CHINA 434000
Test specification:	
Standard	EN 14527: 2016+A1: 2018 (E)
Non-standard test method.....:	N/A
Test Report Form No:	TTRF_EN 14527_c
TTRF Originator	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Master TTRF	Dated 2019-4-4
Test item description	
Trade Mark	--
Model and/or type reference.....:	See "General product information" on page 3
Manufacturer	--
Rating(s)	See "General product information" on page 3

When this European Standard (EN 14527: 2016+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*

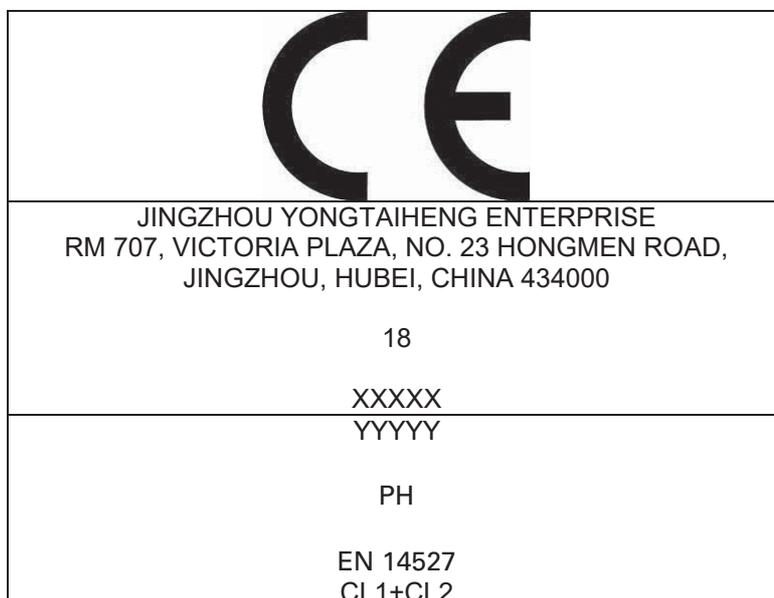
— *to a label attached to it.*

— *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.*

CE mark for shower tray



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 samples were tested and found to **COMPLY WITH** applicable requirements of EN 14527: 2016+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 : July 24, 2018
Date (s) of performance of tests : July 24, 2018 to August 6, 2018
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.
Throughout this report a comma (point) is used as the decimal separator.
When determining the test result, measurement uncertainty has been considered.

General product information:		
Evaluated Model	Size	Description
NL900×900×100	900×900×100mm	Square shower tray, manufactured from ceramic
NL800×1200×110	800×1200×110mm	Rectangular shower tray, manufactured from ceramic
NLS900×900×100	800×1200×110mm	Quadrant shower tray, manufactured from ceramic
Covered Model	Size	Remark
NL700×700×90	700×700×90mm	Covered by NL900×900×100
NL800×800×90	800×800×90mm	
NL700×900×90	700×900×90mm	Covered by NL800×1200×110
NL700×1000×90	700×1000×90mm	
NL700×1200×100	700×1200×100mm	
NL800×1000×100	800×1000×100mm	Covered by NLS900×900×100
NLS800×800×90	800×800×90mm	
NLS750×750×90	750×750×90mm	
Remark:		
1. The covered models were the same as the evaluated models in structure, materials and manufacturer process, just different in size.		

EN 14527			
Clause	Requirement - Test	Result - Remark	Verdict
5	Requirements for class 1 products		
5.1	General With each shower tray detailed instructions on installation and care shall be provided.		P
5.2	Cleanability		
5.2.1	Appearance of surface When a shower tray is inspected under strong and oblique illumination, the surfaces intended to come into contact with water shall be visibly smooth, non-absorbent and free from inaccessible corners that would impair cleanability. NOTE Surfaces with cracks, chips, crazing and other similar defects are not considered to be smooth.	Complied	P
5.2.2	Drainage of water Shower trays shall have at least one waste outlet hole. The dimensions of the waste outlet hole shall comply with the requirements of EN 251. Other dimensions are permissible, if the manufacturer provides or recommends a suitable waste fitting. All water shall empty from the shower tray unless prevented by surface tension.	The submitted samples met the requirement of EN251. No water remained.	P
5.3	Durability		
5.3.1	General Conformance with requirements of 5.3.2 to 5.3.4 give an assurance of durability of cleanability.		P
5.3.2	Stability of bottom When tested in accordance with 8.1, there shall be no permanent distortion or other defects, e.g. cracks, such that the requirements of 5.2.2 are not satisfied.	No permanent distortion or other defects.	P
5.3.3	Resistance to chemicals and staining agents		
5.3.3.1	General When shower trays, other than those made from the materials specified in 5.3.3.2, are tested in accordance with 8.2, the surface finish shall be unaffected by the chemicals and staining agents specified in Table 1 except for superficial surface changes which are removable with water or with water and the specified abrasive agent. Experience has shown that shower trays made of glazed ceramics comply with these requirements.	No affection to the surface by the chemicals and stains.	P

EN 14527			
Clause	Requirement - Test	Result - Remark	Verdict
5.3.3.2	Particular requirements for baths made of enamelled steel and enamelled cast iron Shower trays made from enamelled steel and enamelled cast iron shall comply with the requirements given in Table 2.		N/A
5.3.4	Resistance to temperature changes When tested in accordance with 8.3, all shower trays shall show no evidence of distortion or other defects, e.g. crazing, which will impair their cleanability. Experience has shown that shower trays manufactured from the stainless steel grades listed in Annex A, enamelled steel, enamelled cast iron and glazed ceramics comply with this requirement.	No evidence of distortion or other defects.	P
6	Requirements for class 2 products		
6.1	General With each shower tray detailed instructions on installation and care shall be provided.		P
6.2	Cleanability		
6.2.1	Appearance of surface When a shower tray is inspected under strong and oblique illumination, the surfaces intended to come into contact with water shall be visibly smooth, non-absorbent and free from inaccessible corners that would impair the cleanability. NOTE Surfaces with cracks, chips, crazing and other similar defects are not considered to be smooth.	Complied	P
6.2.2	Drainage of water Shower trays shall have at least one waste outlet hole. The dimensions of the waste outlet hole shall comply with the requirements of EN 251. Other dimensions are permissible, if the manufacturer provides or recommends a suitable waste fitting. All water shall empty from the shower tray unless prevented by surface tension.	The submitted samples met the requirement of EN251. No water remained	P
6.3	Durability		
6.3.1	General Shower trays shall be readily cleanable for their anticipated working life when normal cleaning and maintenance is carried out.	Complied	P

EN 14527			
Clause	Requirement - Test	Result - Remark	Verdict
6.3.2	<p>Materials</p> <p>Experience has shown that shower trays made from plastics materials, enamelled steel, enamelled cast iron, stainless steel, glazed ceramics or glass and their surfaces intended to come into contact with water have the properties described in 6.3.1.</p>	Complied	P
7	<p>Dangerous substances</p> <p>National regulations on dangerous substances may require verification and declaration on release, and sometimes content, when construction products covered by this standard are placed on those markets.</p> <p>In the absence of European harmonized test methods, verification and declaration on release/content should be done taking into account national provisions in the place of use.</p>	Informative	—
9	Marking, labelling and packaging		—
10	Assessment and verification of constancy of performance-AVCP		
10.1	<p>General</p> <p>The compliance of a shower tray with the requirements of this standard and with the performances declared by the manufacturer in the Declaration of Performance (DoP) shall be demonstrated by:</p> <p>—type testing (see 10.2);</p> <p>— factory production control by the manufacturer (FPC), including product assessment (see 10.3).</p> <p>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>		P
10.2	Type testing		
10.2.1	<p>General</p> <p>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>		P

EN 14527			
Clause	Requirement - Test	Result - Remark	Verdict
10.2.2	<p>Samples, testing and compliance criteria</p> <p>The shower tray shall be subjected to and pass the relevant tests in Table 4.</p> <p>The number of samples of shower tray to be tested/assessed shall be in accordance with Table 4 and/or Table 5.</p>		P
10.3	Factory Production Control		
10.3.1	<p>General</p> <p>The manufacturer shall establish, document and maintain a factory production control (FPC) system to ensure that the products placed on the market conform with the stated performance characteristics.</p> <p>The FPC system shall consist of procedures, regular inspections and tests and/or assessments and the use of the results to control raw and other incoming materials or components, equipment, the production process and the product.</p> <p>The results of inspections, tests or assessments requiring action shall be recorded. The action to be taken when control values or criteria are not met shall be recorded.</p>	The applicant supplied ISO 9001 certificate.	P
10.3.2	Equipment		
10.3.2.1	<p>Testing</p> <p>All weighing, measuring and testing equipment shall be calibrated and regularly inspected according to documented procedures, frequencies and criteria.</p>	The applicant supplied ISO 9001 certificate.	P
10.3.2.2	<p>Manufacturing</p> <p>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 shall 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.</p>	The applicant supplied ISO 9001 certificate.	P
10.3.3	<p>Raw materials and components</p> <p>The specifications of all incoming raw materials and components shall be documented, as shall the inspection scheme for ensuring their conformity. In cases where 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.</p>	The applicant supplied ISO 9001 certificate.	P

EN 14527			
Clause	Requirement - Test	Result - Remark	Verdict
10.3.4	<p>Product testing and assessment</p> <p>The manufacturer shall establish and document procedures to ensure that the stated values of all of the characteristics are maintained.</p>	The applicant supplied ISO 9001 certificate.	P
10.3.5	<p>Non-conforming products</p> <p>The manufacturer shall have written procedures which specify how non-conforming 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.</p> <p>Where the product fails to satisfy the acceptance criteria, the provisions for non-conforming products shall apply, the necessary corrective action(s) shall immediately be taken and the products or batches not conforming shall be isolated and properly identified.</p> <p>Once the fault has been corrected, the test or verification in question shall be repeated.</p> <p>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.</p> <p>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.</p>	The applicant supplied ISO 9001 certificate.	P
10.3.6	<p>Corrective action</p> <p>The manufacturer shall have documented procedures that instigate action to eliminate the cause of nonconformities in order to prevent recurrence.</p>	The applicant supplied ISO 9001 certificate.	P

EN 251			
Clause	Requirement - Test	Result - Remark	Verdict
3	Connecting dimensions		
3.1	Basic dimensions The basic dimensions H, a, H ₁ and h ₁ shall comply with those given in Table 1 to enable compatibility with waste fittings in accordance with EN 274-1.	See test data on below Table 1	P
3.2	Diameter of waste outlet hole The dimensions of the waste outlet hole shall be as given in Table 2 to enable compatibility with EN 274-1.	See test data on below Table 2	P
3.3	Clearance around the waste outlet hole The clearance around the waste outlet hole shall comply with the dimensions given in Table 3.	See test data on below Table 3	P
3.4	Dimensions and clearance around the overflow hole The dimensions and the clearance around the overflow hole, if provided, shall comply with Table 4.		N/A

Table 1 Test data for clause 3.1

Required (mm)	Model No.		
	NL900×900×100	NL800×1200×110	NLS900×900×100
H (165~260)	N/A	N/A	N/A
a (110~170 or ≥170)	N/A	N/A	N/A
H ₁ (≥60)	N/A	N/A	N/A
h ₁ (≥85)	>90 (According to installation manual)	>90 (According to installation manual)	>90 (According to installation manual)

Table 2 Test data for clause 3.2

Required (mm)	Model No.		
	NL900×900×100	NL800×1200×110	NLS900×900×100
D ₂ (60~65)	65.0	64.0	63.5
D ₃ (85)	85	85	85
α(≤120°)	104°	113°	112°
h ₂ (6~25)	20.6	18.6	20.0
s (≥3)	10.0	10.0	8.0
e (≥2)	4.0	5.0	3.5

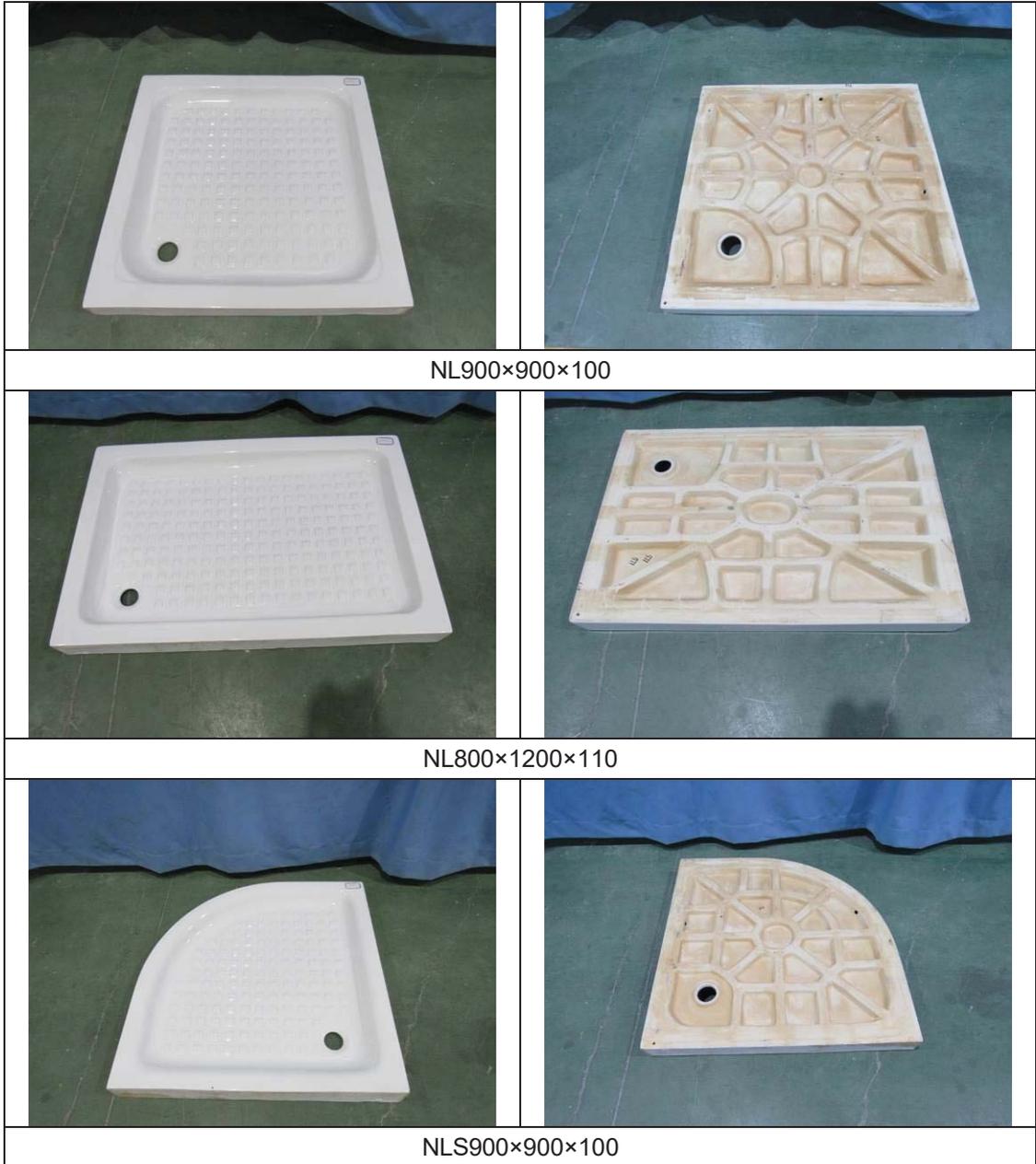
EN 251			
Clause	Requirement - Test	Result - Remark	Verdict

Table 3 Test data for clause 3.3

Required (mm)	Model No.		
	NL900×900×100	NL800×1200×110	NLS900×900×100
R (≥65)	95	100	80
f (≤15)	4	6	5

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**Appendix A
Product photos**



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Appendix B
Revision history

Revision No.	Date	Changes	Author	Reviewer
0	August 7, 2018	First issue	Syanson Xu	Bink Xu
1	August 22, 2018	Updated the summary of testing on page 2.	Syanson Xu	Bink Xu
2	May 27, 2019	Updated the report version; Updated the standard version; Added covered model NLS750x750x90 in this report	Syanson Xu	Bink Xu

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