

## Test Report

No.: SHHL1708047473CE

Date: SEP. 20, 2017

Page: 1 of 18

NINGBO GUANGHE SANITARY WARE CO., LTD.  
SANXING VILLAGE GULIN TOWN HAISHU DISTRICT NINGBO CHINA

The following sample(s) was/were submitted and identified by the client as:

Sample Description : EASY RANGE EXTENSIBILITY  
Style/ Item No. : EA-WI70-S-C; EA-WI70-S-F; EA-WI80-S-C; EA-WI80-S-F;  
EA-WI90-S-C; EA-WI90-S-F; EA-WI100-S-C;  
EA-WI100-S-F; EA-WI120-S-C; EA-WI120-S-F  
Manufacturer : NINGBO GUANGHE SANITARY WARE CO., LTD.  
Supplier : NINGBO GUANGHE SANITARY WARE CO., LTD.  
Sample Receiving Date : AUG. 21, 2017  
Testing Period : AUG. 21, 2017 TO SEP. 20, 2017  
Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT  
Test Requested : EN 14428:2015 SHOWER ENCLOSURES-FUNCTIONAL  
REQUIREMENTS AND TEST METHODS  
Test Result(s) : FOR FURTHER DETAILS, PLEASE REFER TO THE  
FOLLOWING PAGE(S)  
Conclusion : THE SUBMITTED SAMPLE MET THE TEST  
REQUIREMENT.

\*\*\*\*\*

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



Yomoro Gu  
Authorized Signatory



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■ **General product information**

**Manufactured from NINGBO GUANGHE SANITARY WARE CO., LTD**

**THE SAMPLE SUBMITTED WAS A WALK-IN. PROFILE: CHROMED ALUMINUM IN SILVER.**

**OVERALL DIMENSION: 1200 X 1950MM. GLASS: 6MM PRINTED SERIGRAPHY TEMPERED GLASS.**

**Style No.: EA-WI120-S-F**

■ **Copy of marking plate and summary of test results (information/comments):**



**CE marking on the product**



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 e sgs.china@sgs.com

**THE SAMPLE WAS A WALK-IN. PROFILE: CHROMED ALUMINUM IN SILVER. OVERALL DIMENSION: 700 X 1950MM. GLASS: 6MM CLEAR TEMPERED GLASS.**

Style No.: EA-WI70-S-C

■ Copy of marking plate and summary of test results (information/comments):



ADEO Services  
135 Rue Sadi Carnot – CS 00001  
59790 RONCHIN – France  
17  
PH  
EA-WI70-S-C  
EN 14428:2015  
CA-IR-DA  
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## Test Report

No.: SHHL1708047473CE

Date: SEP. 20, 2017

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**THE SAMPLE WAS A WALK-IN. PROFILE: CHROMED ALUMINUM IN SILVER. OVERALL DIMENSION: 700 X 1950MM. GLASS: 6MM PRINTED SERIGRAPHY TEMPERED GLASS.**

Style No.: EA-WI70-S-F

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## Test Report

No.: SHHL1708047473CE

Date: SEP. 20, 2017

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**THE SAMPLE WAS A WALK-IN. PROFILE: CHROMED ALUMINUM IN SILVER. OVERALL DIMENSION: 800 X 1950MM. GLASS: 6MM CLEAR TEMPERED GLASS.**

Style No.: EA-WI80-S-C

**Copy of marking plate and summary of test results (information/comments):**



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135 Rue Sadi Carnot – CS 00001  
59790 RONCHIN – France  
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## Test Report

No.: SHHL1708047473CE

Date: SEP. 20, 2017

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**THE SAMPLE WAS A WALK-IN. PROFILE: CHROMED ALUMINUM IN SILVER. OVERALL DIMENSION: 800 X 1950MM. GLASS: 6MM PRINTED SERIGRAPHY TEMPERED GLASS.**

Style No.: EA-WI80-S-F

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**THE SAMPLE WAS A WALK-IN. PROFILE: CHROMED ALUMINUM IN SILVER. OVERALL DIMENSION: 900 X 1950MM. GLASS: 6MM CLEAR TEMPERED GLASS.**

Style No.: EA-WI90-S-C

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## Test Report

No.: SHHL1708047473CE

Date: SEP. 20, 2017

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**THE SAMPLE WAS A WALK-IN. PROFILE: CHROMED ALUMINUM IN SILVER. OVERALL DIMENSION: 900 X 1950MM. GLASS: 6MM PRINTED SERIGRAPHY TEMPERED GLASS.**

Style No.: EA-WI90-S-F

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**THE SAMPLE WAS A WALK-IN. PROFILE: CHROMED ALUMINUM IN SILVER. OVERALL DIMENSION: 1000 X 1950MM. GLASS: 6MM CLEAR TEMPERED GLASS.**

Style No.: EA-WI100-S-C

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No.: SHHL1708047473CE


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**THE SAMPLE WAS A WALK-IN. PROFILE: CHROMED ALUMINUM IN SILVER. OVERALL DIMENSION: 1000 X 1950MM. GLASS: 6MM PRINTED SERIGRAPHY TEMPERED GLASS.**

Style No.: EA-WI100-S-F

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**THE SAMPLE WAS A WALK-IN. PROFILE: CHROMED ALUMINUM IN SILVER. OVERALL DIMENSION: 1200 X 1950MM. GLASS: 6MM CLEAR TEMPERED GLASS.**

Style No.: EA-WI120-S-C

**Copy of marking plate and summary of test results (information/comments):**



**CE marking on the product**

**Summary of testing:**

**The submitted sample was tested and found to comply with applicable requirements of EN 14428:2015.**



# Test Report

No.: SHHL1708047473CE

Date: SEP. 20, 2017

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## Test Conducted:

### 1. EN 14428:2015 Shower enclosures-Functional requirements and test methods

Sample No.	Style No.	Overall dimension (mm)	Sample Size
Test sample	EA-WI120-S-F	1200X1950	1 piece
Referenced sample	EA-WI70-S-C	700X1950	/
	EA-WI70-S-F	700X1950	/
	EA-WI80-S-C	800X1950	/
	EA-WI80-S-F	800X1950	/
	EA-WI90-S-C	900X1950	/
	EA-WI90-S-F	900X1950	/
	EA-WI100-S-C	1000X1950	/
	EA-WI100-S-F	1000X1950	/
	EA-WI120-S-C	1200X1950	/

Clause	Test Method/ Requirement	Test Result	Rating
4.1 General	The manufacturer shall provide with each shower enclosure detailed instructions and use to include at least the following information: <ul style="list-style-type: none"> <li>■ Description of installation with special consideration of building construction and necessary tools and sealant;</li> <li>■ Instructions for appropriate maintenance and care, including guidance on cleaning.</li> </ul>	The instruction was provided by client	Pass
4.2 Cleanability	When tested visually, the surfaces of the components of the shower enclosures which are accessible during use and cleaning shall be free from sharp corners, edges and burrs. When using recommended cleaning agents in accordance with the manufacture's installation and care instructions, there shall be no reduction in safety or function of the shower enclosure.	/	Pass
4.3 Impact resistance/shatter properties			
4.3.1 General	Shower enclosures may be glazed with various materials. Where glass is used, this shall meet the requirements of 4.3.2 or 4.3.3 and where plastics materials are used, they shall meet the requirements of 4.3.4.	Thermally toughened safety glass	Pass
4.3.2 Thermally toughened safety glass			
4.3.2.1 Thermally toughened flat safety glass	Thermally toughened safety glass shall meet the requirements of prEN 12150-1:2013.	EN 12150-1:2015 test report was provided  See Remark 1	Pass



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Clause	Test Method/ Requirement	Test Result	Rating
4.3.2.2 Thermally toughened curved safety glass	Test in accordance with 5.1 to ensure that under these test conditions the glass has a particle count of 40 or greater and the length of the longest particle shall not exceed 100 mm.	Not curved safety glass	N/A
4.3.3 Laminated safety glass	Laminated safety glass shall conform to EN 14449 and EN ISO 12543-2. Laminated safety glass shall not have holes, for example for fixings, hinges, handles or any other fittings. NOTE Laminated safety glass is susceptible to water penetration from the edges if they are not suitably protected.	Not laminated safety glass	N/A
4.3.4 Plastics materials	When tested in accordance with 5.2, sheets shall not break or they shall break safely.	Not plastics materials	N/A
<b>4.4 Durability</b>			
4.4.1 General	Products conforming to the requirements of 4.2 and 4.3 and the following are deemed to be durable.	/	Pass
4.4.2 Corrosion resistance	All components shall consist of corrosion –proof materials or shall be corrosion-protected. All corrosion protection shall conform to the relevant requirements specified in European and International Standards. Minimum requirements as below(if clients have no special requirements ) : — the minimum paint adhesion performance for powder-coated or wet-painted surfaces has a cross-cut value $\leq 2$ when tested in accordance with EN ISO 2409; — the minimum average thickness of coating on aluminium is of grade AA5 when tested in accordance with one of the methods given in EN ISO 7599. In no cases is minimum local thickness less than 80 % of the minimum average thickness. — Compliance with the neutral salt spray (NSS) test e.g. as specified in EN ISO 9227 corrosion test in artificial atmospheres - salt spray tests with a minimum exposure time of 200 h; The defect surface area A is less than or equal to 0,1 % ( $A \leq 0,1 \%$ ). The defects do not exceed a dimension of 0,3 mm.	/	Pass
4.4.3 Resistance to chemicals and Stains	When tested in accordance with 5.3 the glazing materials shall not show permanent staining or deterioration.	No permanent staining or deterioration	Pass
4.4.4 Resistance to wet and dry cycling	When tested in accordance with 5.4, the glazing materials shall not show any cracks, crazing or discoloration. Uncoated and unpainted thermally toughened safety glass is deemed to be resistant to wet and dry cycling and need not be tested.	No cracks, crazing or discoloration	Pass



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Clause	Test Method/ Requirement	Test Result	Rating
4.4.5 Endurance	When tested in accordance with 5.5, shower enclosures shall not show any functional deterioration after 20 000 closing-opening cycles.	/	N/A
4.4.6 Stability	When tested in accordance with 5.6, shower enclosures shall withstand an energy representing the impact of a human body on a large impact area (e.g. blow from shoulder, fall) without any functional deterioration which could result in injury to the user.	No functional deterioration See Remark 2	Pass
4.4.7 Water retention	When tested in accordance with 5.7, shower enclosures shall retain water. A few small drops of water on the outside of the water retaining area are acceptable. Where shower enclosures are intended for installation in wet room environments (where watertightness is not required), water may temporarily pass outside the water retaining area as long as it is drained to the water retaining area.	No leakage	Pass
4.5 Dangerous substances	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. 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.	/	N/A



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Clause	Test Method/ Requirement	Test Result	Rating										
6 Marking	<p>The intended use of a shower enclosure is personal hygiene in accordance with the scope of this standard. Shower enclosures can be described with a designation code which includes all the fulfilled essential requirements. The relevant Essential Characteristics for shower enclosures including their abbreviations are given in Table 3.</p> <p style="text-align: center;">Table 3 — Characteristics and abbreviations</p> <table border="1"> <thead> <tr> <th>Abbreviation</th> <th>Characteristics</th> </tr> </thead> <tbody> <tr> <td>EN 14428</td> <td>Number of European Standard for shower enclosures for product description</td> </tr> <tr> <td>CA</td> <td>Cleanability</td> </tr> <tr> <td>IR</td> <td>Impact resistance/shatter properties</td> </tr> <tr> <td>DA</td> <td>Durability</td> </tr> </tbody> </table> <p>All shower enclosures shall be designated in accordance with the following system:</p> <p>Number of standard _____</p> <p style="text-align: center;"><b>EN 14428</b> <b>CA — IR — DA</b></p> <p>Cleanability _____</p> <p>Impact resistance/shatter properties _____</p> <p>Durability _____</p> <p>The second line of the designation code can be omitted when those characteristics are fulfilled. However, the characteristics should be listed when one of those characteristics is not declared.</p>	Abbreviation	Characteristics	EN 14428	Number of European Standard for shower enclosures for product description	CA	Cleanability	IR	Impact resistance/shatter properties	DA	Durability	CE label was provided	Pass
Abbreviation	Characteristics												
EN 14428	Number of European Standard for shower enclosures for product description												
CA	Cleanability												
IR	Impact resistance/shatter properties												
DA	Durability												

**Remark:**

1. The test report SHIN160802836CCM for 6mm transparent tempered glass, issued by SGS lab on Aug.16, 2016 was provided for thermally toughened safety glass test review.
2. According to the installation manual, there are two possible installation methods: single panel installation method and double panel combination T-shape installation method. Laboratory conducted the stability test on both installation methods.
3. N/A= Not applicable.



## Test Report

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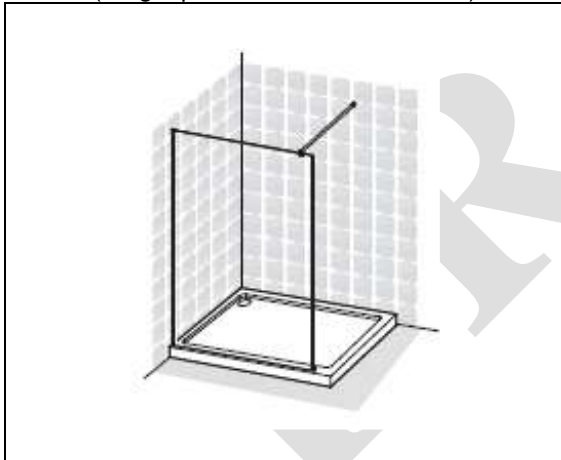
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### Sample Photo:

Test sample  
(Single panel installation method)



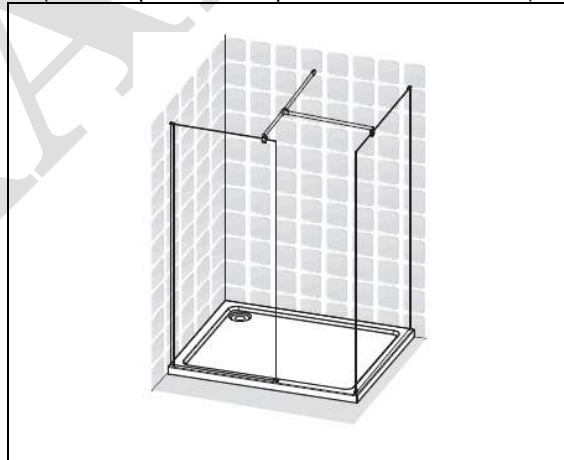
Possible installation methods  
(Single panel installation method)



Additional Stability test sample  
(Double panel T-shape installation method)



Possible installation methods  
(Double panel T-shape installation method)



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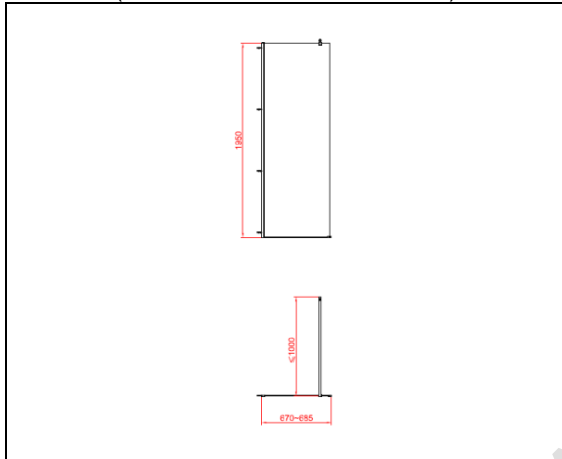
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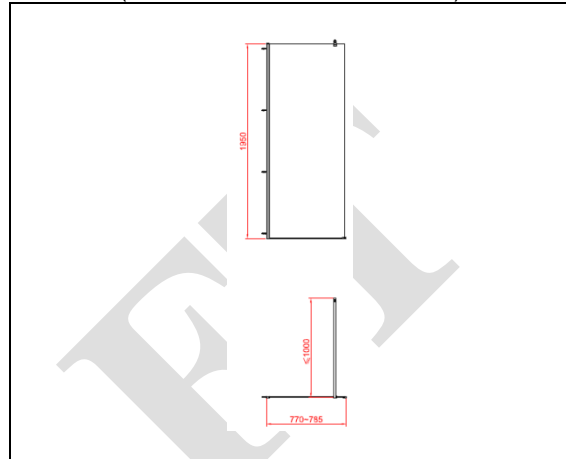
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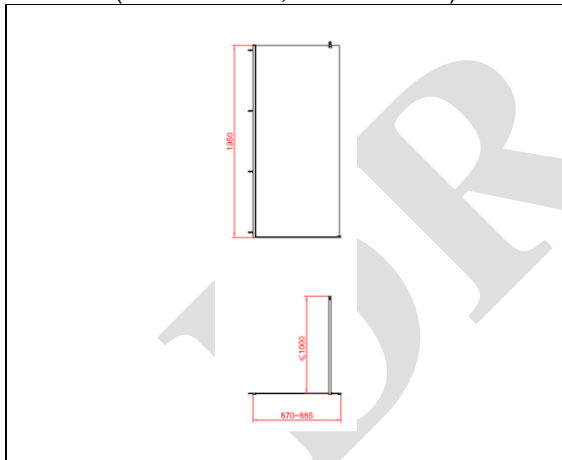
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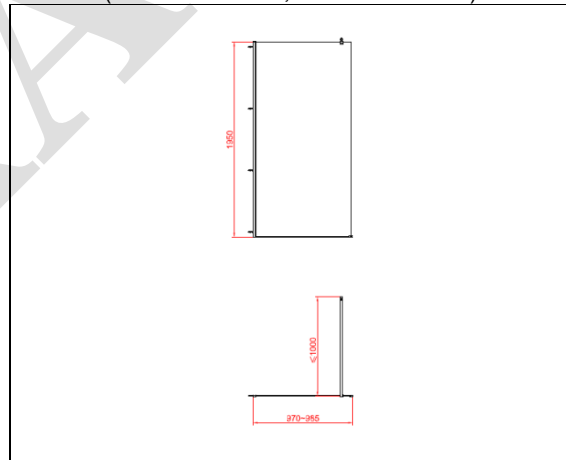
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Referenced sample  
(EA-WI90-S-C, EA-WI90-S-F)



Referenced sample  
(EA-WI100-S-C, EA-WI100-S-C)



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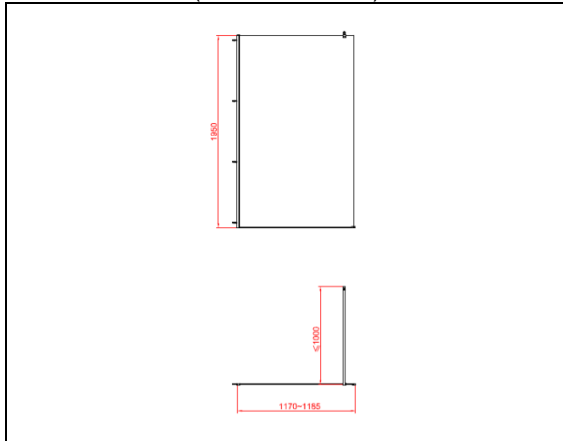
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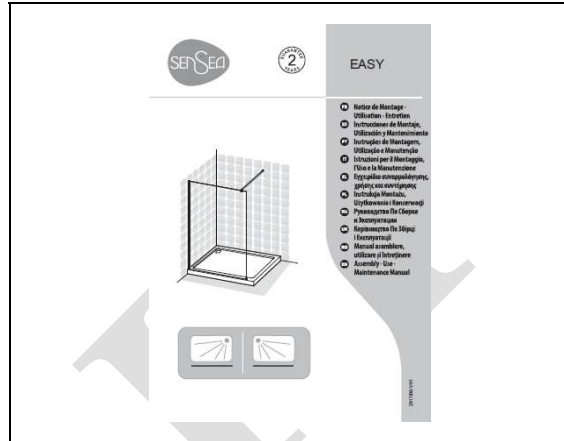
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Instruction



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