

HANGZHOU BORAY IMPORT AND EXPORT CO., LTD.  
RM 703, NO.458 JINCHENG ROAD XIAOSHAN, HANGZHOU, CHINA

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

Sample Description : SHOWER ENCLOSURE  
Manufacturer : HANGZHOU FULAITE PLASTIC DEVELOPMENT CO., LTD.  
Country of Origin : CHINA  
Supplier : HANGZHOU BORAY IMPORT AND EXPORT CO., LTD.  
Sample Receiving Date : MAR.25,2008  
Testing Period : MAR.25,2008 TO APR.28,2008  
Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT  
Test Requested : 1. PIVOTED DOORS TEST (EN 14749: 2005 CLAUSE 6.3.4)  
2. IMPACT RESISTANCE/ SHATTER PROPERTIES  
(EN 14428: 2005 CLAUSE 4.3)  
Test Result(s) : FOR FURTHER DETAILS, PLEASE REFER TO THE  
FOLLOWING PAGE(S)  
Conclusion : THE SUBMITTED SAMPLE MET THE TEST REQUIREMENT.

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Signed for and on behalf of  
SGS-CSTC Ltd.



Roy Chen  
Supervisor

### Test Conducted :

#### 1. Test Conduct: Pivoted doors Test (EN 14749: 2005 Clause 6.3.4)

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**Test Procedure:**

1. Choose a door which is hinged to the unit on one vertical side.
2. Load the door with a load of 30kg at the position 100mm from the front edge of the door.
3. Swing the door 10 full cycles (back and forth) from a position 45° from fully closed to a position 10° from fully opened, up to a maximum of 135°.
4. Opening and closing can be done by hand using 3s to 5s for opening and 3s to 5s for closing.

**Test Result:** Pass

After the test the door remain attached to the unit.

**2. Test Conduct:** Impact resistance/shatter properties (EN14428:2005 Clause 4.3)

Test Property	Test Method	Test Principle / Requirements	Test Result
<b>4.3 Impact resistance/shatter properties</b>			
<b>General</b>	<b>NF EN 14428:2005 Clause 4.3.1</b>	Shower enclosures may be glazed with various materials. Where glass is used, this shall meet the requirements of 4.3.2 and where plastics materials are used, they shall meet the requirements of 4.3.3.	Pass
<b>Thermally Toughened Safety Glass</b>	<b>NF EN 14428:2005 Clause 4.3.2</b>	Thermally toughened safety glass shall meet the requirements of EN 12150-1:2000, except in respect of Clause 8 which is replaced by 5.1 of this standard.  The test specimen shall be impacted, using a pointed steel tool, at a position 13 mm from the longest edge of the specimen at the mid-point of that edge, until breakage occurs.  Examples of steel tools are a hammer of approximately 75 g mass, a spring loaded center punch, or other similar appliance with a hardened point. The radius of curvature of the point should be approximately 0.2 mm.  The particle count shall be made in the region of coarsest fracture. The particle count shall be made by placing a mask of (50±1) mm×(50±1) mm on the test piece. The number of crack-free particles within the mask shall be counted. A particle is 'crack-free', if it does not contain any cracks which run from one edge to another. When tested, the minimum particle count shall be 40.	Pass

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Test Property	Test Method	Test Principle / Requirements	Test Result
<p><b>Plastics Materials</b></p>	<p><b>NF EN 14428:2005 Clause 4.3.3</b></p>	<p>Carry out the test on four test pieces. For curved sheets a sample of an unformed flat sheet of the same material shall be used.</p> <p>Place the test piece in the frame and clamp it. When the impactor is hanging at rest, suspended from the overhead support, check that it is, at its greatest diameter, not more than 13 mm from the surface of the surface of the test piece and within 51 mm radically from the center of the test piece.</p> <p>Raise the impactor to a drop height of 305 mm and steady it.</p> <p>Releases the impactors so that it swings in a pendulum arc and strike the test piece.</p> <p>Inspect the test piece after impact and report whether it has remained unbroken or it has broken safely. Sheets shall not break or they shall break safely.</p>	<p>N/A</p>

**Sample Photo:**



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### Test Sample



\*\*\*End of Report\*\*\*

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