



Test Report

No.: SHHG1203008820PL

Date: APR.12,2012 Page: 1 of 16

NINGBO HANGZHOU WAN BAY TORERO INTERNATIONAL CORPORATION LIMITED
NO.1 BINHAI ROAD. HANGZHOU WAN BAY NEW ZONE 315336 ZHEJIANG CHINA

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

Sample Description : SHOWER TRAYS

SGS Ref. No. : NBHG201200974

Style/ Item No. : 3B0012W01; 3A0012W01; 3C0015W01; 3B0071W01;
3A0072W01; 3C0074W01; 3C007MW01; 3C009EW01;
3B0031W01; 3A0032W01; 3B0032W01; 3C003FW01
3C0035W01; 3C0036W01; 3C0033W01; 3C0039W01;
3C0044W01; 3C003NW01

Manufacturer : INDUSTRIAS TECNO CATALUNYA (NINGBO) CO., LTD

Sample Receiving Date : MAR.26,2012

Testing Period : MAR.26,2012 APR.12,2012

Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT

Test Requested : EN 14527:2006+A1:2010 SHOWER TRAYS FOR DOMESTIC
PURPOSES (EXCLUDING CLAUSE 9 MARKING, LABELLING
AND PACKAGING)

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 Ltd.

Steven Xi
Lab Manager

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General product information

Manufactured from INDUSTRIAS TECNO CATALUNYA (NINGBO) CO., LTD
 THE SAMPLES SUBMITTED WERE SHOWER TRAYS, MADE OF WHITE PLASITIC, WITH
 WASTE OUTLET.

No.	MODEL No.	Dimension(L*W*H)/(mm)	Shape
Sample 1	3B0012W01	900*900*120	Square
Sample 2	3A0012W01	900*900*120	Sector
Sample 3	3C0015W01	720*1000*120	Rectangle
Sample 4	3B0071W01	900*900*65	Square
Sample 5	3A0072W01	900*900*65	Sector
Sample 6	3C0074W01	720*900*65	Rectangle
Sample 7	3C007MW01	720*1500*65	Rectangle
Sample 8	3C009EW01	900*1700*65	Rectangle
Sample 9	3B0031W01	800*800*70	Square
Sample 10	3A0032W01	900*900*70	Sector
Sample 11	3B0032W01	900*900*70	Square
Sample 12	3C003FW01	800*1000*70	Rectangle
Sample 13	3C0035W01	720*1000*70	Rectangle
Sample 14	3C0036W01	720*1200*70	Rectangle
Sample 15	3C0033W01	800*1200*70	Rectangle
Sample 16	3C0039W01	720*1400*70	Rectangle
Sample 17	3C0044W01	720*900*70	Rectangle
Sample 18	3C003NW01	720*1600*70	Rectangle

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■ Copy of marking plate and summary of test results (information/comments):**INDUSTRIAS TECNO CATALUNYA (NINGBO) CO., LTD****NO.1 BINHAI ROAD. HANGZHOU WAN BAY NEW ZONE 315336
ZHEJIANG CHINA****2012****EN 14527:2006+A1:2010 CL1+CL2****CE marking on the product****■ Summary of testing:****The submitted sample was tested and found to comply with applicable requirements of
EN 14527:2006+A1:2010**

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Test Report

No.: SHHG1203008820PL

Date: APR.12,2012 Page: 4 of 16

Test Conducted:

1. EN 14527:2006+A1:2010 Shower trays for domestic purposes (Excluding Clause 9 Marking,

Labelling And Packaging)

Classification: Class 1+Class 2

Sample Size: 18X1pcs

No.	MODEL No.	Dimension(L*W*H)/(mm)	Shape
Sample 1	3B0012W01	900*900*120	Square
Sample 2	3A0012W01	900*900*120	Sector
Sample 3	3C0015W01	720*1000*120	Rectangle
Sample 4	3B0071W01	900*900*65	Square
Sample 5	3A0072W01	900*900*65	Sector
Sample 6	3C0074W01	720*900*65	Rectangle
Sample 7	3C007MW01	720*1500*65	Rectangle
Sample 8	3C009EW01	900*1700*65	Rectangle
Sample 9	3B0031W01	800*800*70	Square
Sample 10	3A0032W01	900*900*70	Sector
Sample 11	3B0032W01	900*900*70	Square
Sample 12	3C003FW01	800*1000*70	Rectangle
Sample 13	3C0035W01	720*1000*70	Rectangle
Sample 14	3C0036W01	720*1200*70	Rectangle
Sample 15	3C0033W01	800*1200*70	Rectangle
Sample 16	3C0039W01	720*1400*70	Rectangle
Sample 17	3C0044W01	720*900*70	Rectangle
Sample 18	3C003NW01	720*1600*70	Rectangle

Clause	Test Principle / Requirements	Result	Rating
4 Classification	Class 1: Products complying with the requirements of Clause 5 Class 2: Products complying with the requirements of Clause 6	Class 1+Class 2	/
5 Requirements for class 1 products			
5.1 General	The manufacturer shall provide instructions with each shower tray covering installation and care.	/	Sample 1-18: Pass
5.2 Clean ability			
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 clean ability.	/	Sample 1-18: Pass

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Clause	Test Principle / Requirements	Result	Rating																		
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.	See result 1	Sample 1-18: Pass																		
5.3 Durability																					
5.3.1 General	Conformance with the requirements of 4.3.2 to 4.3.4 gives an assurance of durability of cleanability.	/	Sample 1-18: Pass																		
5.3.2 Stability of bottom	There shall be no permanent distortion or other defects, e.g. cracks, such that the requirements of 4.2.2 are not satisfied.	/	Sample 1-18: Pass																		
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.	/	Sample 1-18: Pass																		
5.3.3.2 Particular requirements for shower trays 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. Table 2 — Requirements for shower trays made of enamelled steel and enamelled cast iron <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Requirement</th> <th>Parameter</th> <th>Test method</th> </tr> </thead> <tbody> <tr> <td>Resistance to boiling water</td> <td>< 10 g/m²</td> <td>ISO 2741</td> </tr> <tr> <td>Resistance to boiling hydrochloric acid</td> <td>Class 2</td> <td>ISO 2742</td> </tr> <tr> <td>Resistance to boiling oxalic acid</td> <td>< 5 g/m²</td> <td>ISO 2742</td> </tr> <tr> <td>Resistance to cold sulphuric acid</td> <td>Class 2</td> <td>EN 14482-1</td> </tr> <tr> <td>Resistance to alkali solutions</td> <td>< 5 g/m²</td> <td>Test apparatus according to ISO 2742 Test solution according to ISO 4833 Duration of test: 2.5 h</td> </tr> </tbody> </table>	Requirement	Parameter	Test method	Resistance to boiling water	< 10 g/m ²	ISO 2741	Resistance to boiling hydrochloric acid	Class 2	ISO 2742	Resistance to boiling oxalic acid	< 5 g/m ²	ISO 2742	Resistance to cold sulphuric acid	Class 2	EN 14482-1	Resistance to alkali solutions	< 5 g/m ²	Test apparatus according to ISO 2742 Test solution according to ISO 4833 Duration of test: 2.5 h	/	N/A
Requirement	Parameter	Test method																			
Resistance to boiling water	< 10 g/m ²	ISO 2741																			
Resistance to boiling hydrochloric acid	Class 2	ISO 2742																			
Resistance to boiling oxalic acid	< 5 g/m ²	ISO 2742																			
Resistance to cold sulphuric acid	Class 2	EN 14482-1																			
Resistance to alkali solutions	< 5 g/m ²	Test apparatus according to ISO 2742 Test solution according to ISO 4833 Duration of test: 2.5 h																			
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, enameled steel, enameled cast iron and glazed ceramics comply with this requirement.	/	Sample 1-18: Pass																		
6 Requirements for class 2 products																					
6.1 General	The manufacturer shall provide instructions with each shower tray covering installation and care.	/	Sample 1-18: Pass																		

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Clause	Test Principle / Requirements	Result	Rating
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.	/	Sample 1-18: Pass
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.	See result 1	Sample 1-18: Pass
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.	See result 1	Sample 1-18: Pass
6.3.2 Materials	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.	/	Sample 1-18: Pass
7 Dangerous substances	See Clauses ZA.1 and ZA.3 of standard.	See result 2	Sample 1-18: Pass
9 Marking, labelling and packaging	The relevant Essential Characteristics for shower trays including their abbreviations are given in Table 3. Table 3 – Characteristics and abbreviations	/	No provided

Abbreviation	Characteristics
EN 14527	Number of European Standard for shower trays for product description
CA	Cleanability
CL 1	Class 1 product complying with the requirement of Clause 6
CL 2	Class 2 product complying with the requirement of Clause 6
DA	Durability

Remark:

1. N/A= Not applicable
2. As per client's claim, all sample were made of same material. The test sample 13 was submitted to lab for test, other samples were tested on site of factory.

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Test Report

No.: SHHG1203008820PL

Date: APR.12,2012

Page: 7 of 16

Result 1 Dimensions

A)Dimensions of the waste outlet hole

Symbol	Designation	Value (mm)	Result (mm)					
			Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6
D ₂	Diameter of waste outlet hole	52+3,-2	/	/	/	/	/	/
		62+3,-2	61	60	61	60	61	61
		90+3,-2	/	/	/	/	/	/
D ₃	Contact diameter of control gauge	70 (D ₂ =52)	/	/	/	/	/	/
		85 (D ₂ =62)	85	85	85	85	85	85
		115 (D ₂ =90)	/	/	/	/	/	/
a	Contact cone angle	≤ 120°	110°	110°	110°	110°	110°	110°
h ₂	Clamping height of the waste outlet hole	6 to 16 (D ₂ =52)	/	/	/	/	/	/
		6 to 25 (D ₂ =62 or 90)	7	7	7	7	8	7
s	Sealing surface for the waste fitting	≥ 3	8	7	10	8	9	7
e	Distance between the contact diameter of control gauge and the bottom shower tray around the waste outlet hole	≥ 2	10	10	9	8	7	10

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Test Report

No.: SHHG1203008820PL

Date: APR.12,2012

Page: 8 of 16

Symbol	Designation	Value (mm)	Result (mm)					
			Sample 7	Sample 8	Sample 9	Sample 10	Sample 11	Sample 12
D ₂	Diameter of waste outlet hole	52+3,-2	/	/	/	/	/	/
		62+3,-2	60	62	61	60	61	61
		90+3,-2	/	/	/	/	/	/
D ₃	Contact diameter of control gauge	70 (D ₂ =52)	/	/	/	/	/	/
		85 (D ₂ =62)	85	85	85	85	85	85
		115 (D ₂ =90)	/	/	/	/	/	/
a	Contact cone angle	≤ 120°	110°	110°	110°	110°	110°	110°
h ₂	Clamping height of the waste outlet hole	6 to 16 (D ₂ =52)	/	/	/	/	/	/
		6 to 25 (D ₂ =62 or 90)	7	7	7	7	8	7
s	Sealing surface for the waste fitting	≥ 3	8	7	10	8	9	7
e	Distance between the contact diameter of control gauge and the bottom shower tray around the waste outlet hole	≥ 2	10	10	9	8	7	10

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Symbol	Designation	Value (mm)	Result (mm)					
			Sample 13	Sample 14	Sample 15	Sample 16	Sample 17	Sample 18
D ₂	Diameter of waste outlet hole	52+3,-2	/	/	/	/	/	/
		62+3,-2	61	62	61	62	61	61
		90+3,-2	/	/	/	/	/	/
D ₃	Contact diameter of control gauge	70 (D ₂ =52)	/	/	/	/	/	/
		85 (D ₂ =62)	85	85	85	85	85	85
		115 (D ₂ =90)	/	/	/	/	/	/
a	Contact cone angle	≤ 120°	110°	110°	110°	110°	110°	110°
h ₂	Clamping height of the waste outlet hole	6 to 16 (D ₂ =52)	/	/	/	/	/	/
		6 to 25 (D ₂ =62 or 90)	7	8	7	7	9	7
s	Sealing surface for the waste fitting	≥ 3	8	7	10	8	9	7
e	Distance between the contact diameter of control gauge and the bottom shower tray around the waste outlet hole	≥ 2	15	12	9	9	7	10

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b) Dimensions of around the waste outlet hole

Symbol	Designation	Value (mm)	Result (mm)					
			Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6
R	Radius of the circular area which shall remain free for the waste fitting	≥ 60 (D ₂ =52)	/	/	/	/	/	/
		≥ 65 (D ₂ =62)	165	160	162	159	165	164
		≥ 80 (D ₂ =90)	/	/	/	/	/	/
f	Thickness of the reinforcing material around the waste outlet hole	≤ 15	8	7	8	9	8	8

Symbol	Designation	Value (mm)	Result (mm)					
			Sample 7	Sample 8	Sample 9	Sample 10	Sample 11	Sample 12
R	Radius of the circular area which shall remain free for the waste fitting	≥ 60 (D ₂ =52)	/	/	/	/	/	/
		≥ 65 (D ₂ =62)	167	160	161	158	166	165
		≥ 80 (D ₂ =90)	/	/	/	/	/	/
f	Thickness of the reinforcing material around the waste outlet hole	≤ 15	8	10	9	7	8	8

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Symbol	Designation	Value (mm)	Result (mm)					
			Sample 13	Sample 14	Sample 15	Sample 16	Sample 17	Sample 18
R	Radius of the circular area which shall remain free for the waste fitting	≥ 60 (D ₂ =52)	/	/	/	/	/	/
		≥ 65 (D ₂ =62)	160	159	163	161	164	165
		≥ 80 (D ₂ =90)	/	/	/	/	/	/
f	Thickness of the reinforcing material around the waste outlet hole	≤ 15	7	8	6	7	6	7

Result 2. Result for Dangerous substances Cadmium (Cd)

Specimen No

1

Description

White plastic board

Test Method: With reference to EN 1122: 2001, Method B, analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	100	mg/kg	5	ND

Remarks:

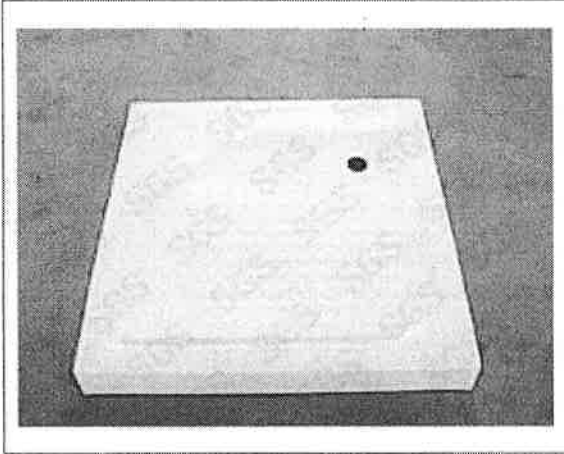
- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

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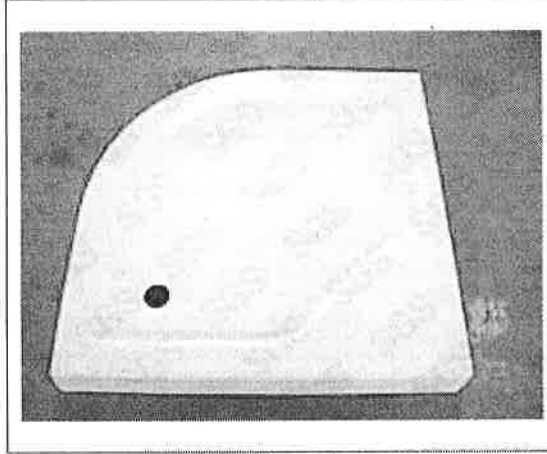


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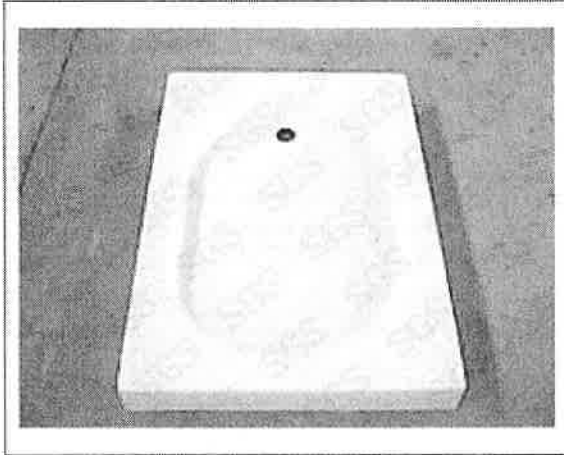
Test Sample 1



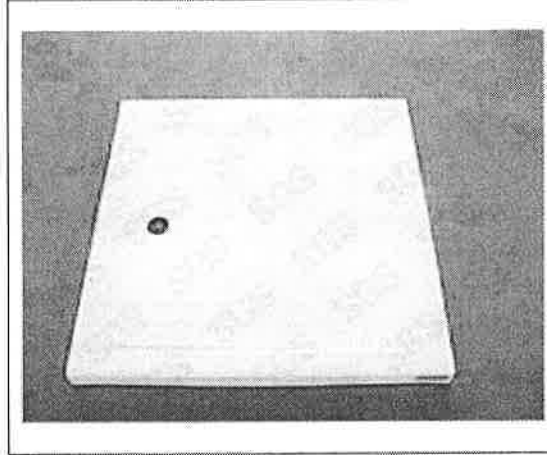
Test Sample 2



Test Sample 3



Test Sample 4



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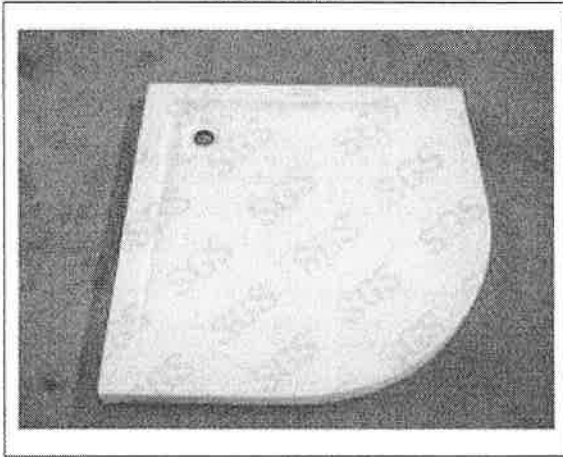
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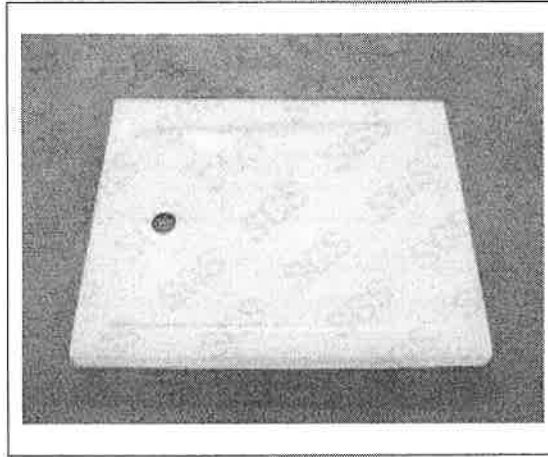
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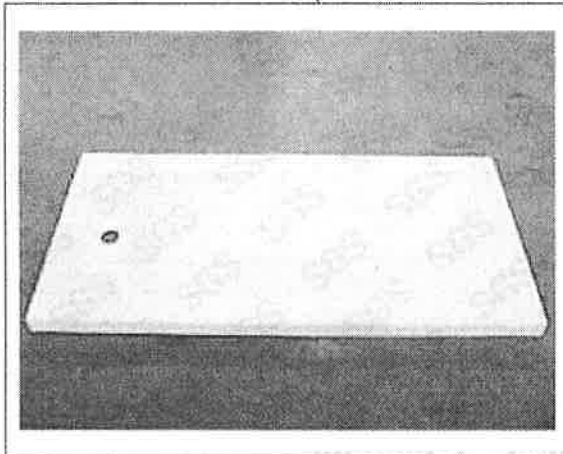
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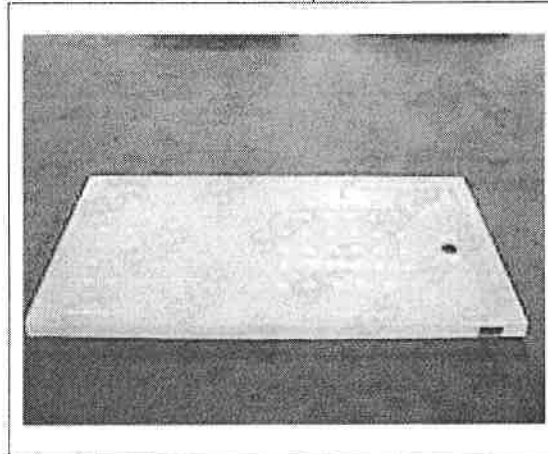
Test Sample 6



Test Sample 7



Test Sample 8



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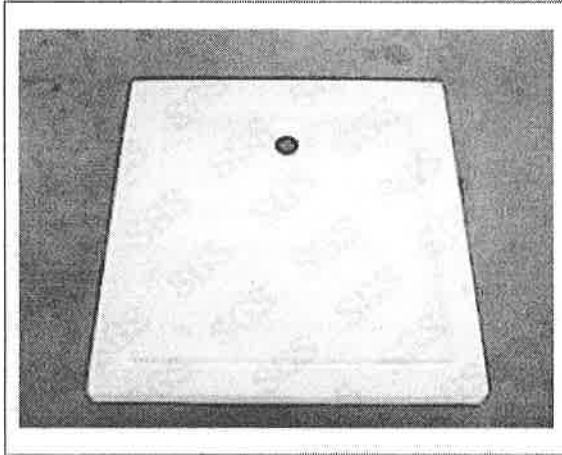
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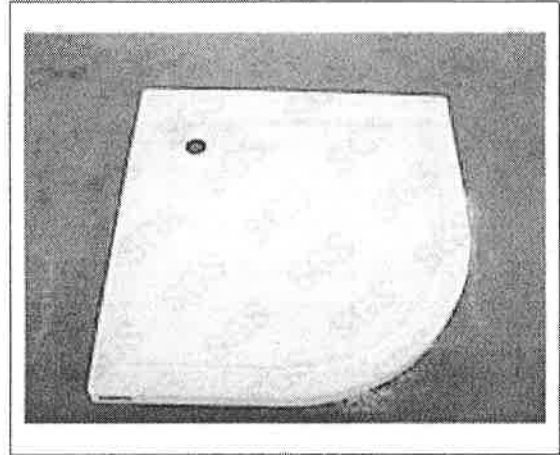
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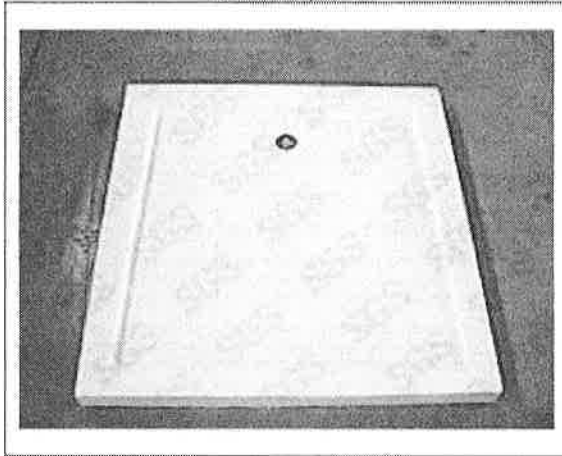
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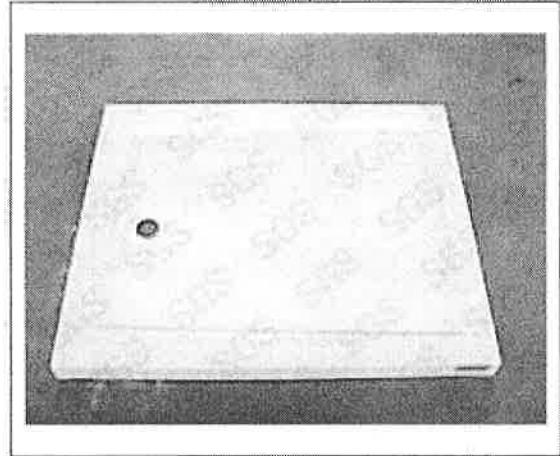
Test Sample 10



Test Sample 11



Test Sample 12



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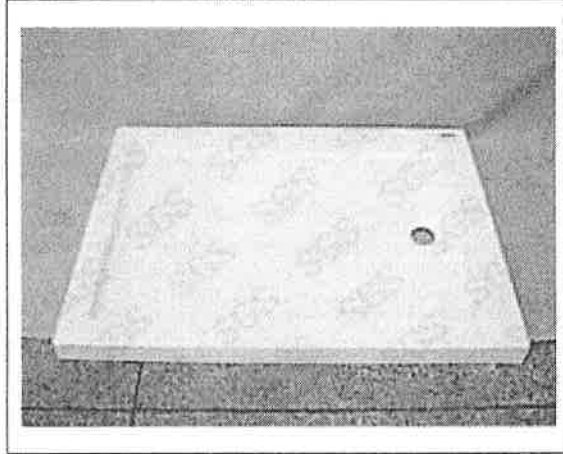
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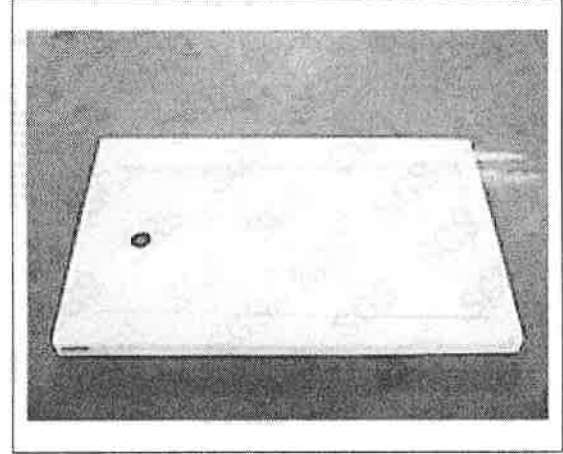
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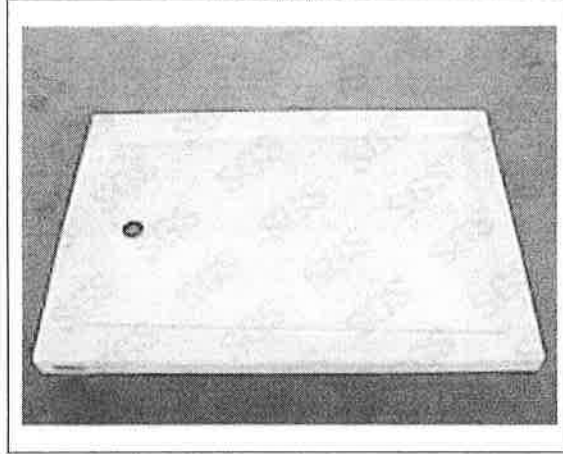
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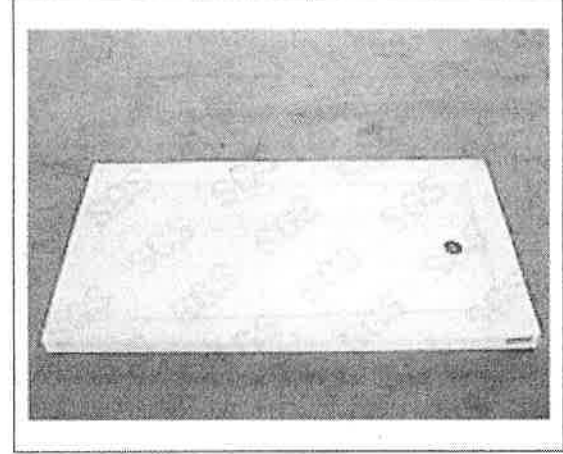
Test Sample 14



Test Sample 15



Test Sample 16



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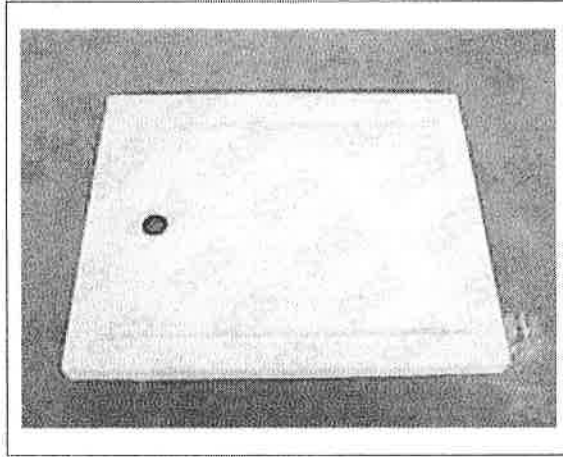
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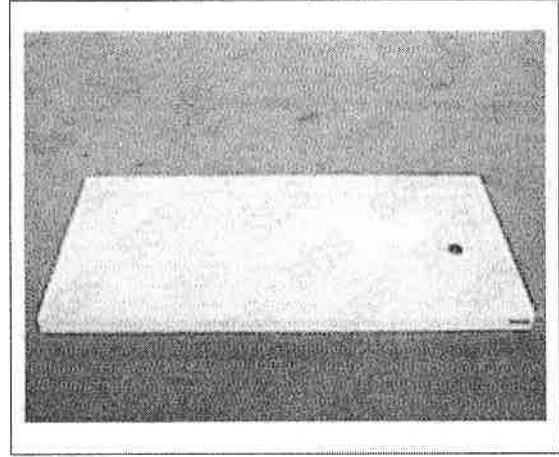
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Test Sample 17



Test Sample 18



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