

## LABORATORY TEST REPORT

**SASO 2655: Sanitary Appliances: General Requirements and methods of test for Plumbing Fixture Fittings.**

**Report No..... : WLR/ECI20/3169/01**

**Sample No..... : WS/ECI20/3169/01**

**Client Name..... : Moayana Technical Consultancy**

**Address..... : Amman, Jordan**

**Testing Laboratory :  WIMPEY LABORATORIES**

**Address : PO Box. 123279, Ras Al Khor II, Dubai- UAE.**

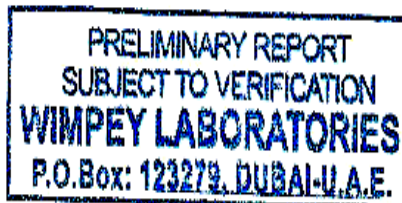
**Test item Description..... : Shower Head**

**Manufacturer..... : ZHEJIANG JIUHUAN SANITARY WARE CO., LTD**

**Brand / Trade Mark..... : Zinth**

**Model/Type Ref..... : 30192000**

**Country of Origin..... : China**



**Test Standard / Method : SASO 2655: Sanitary Appliances: General Requirements and methods of test for Plumbing Fixture Fittings.**

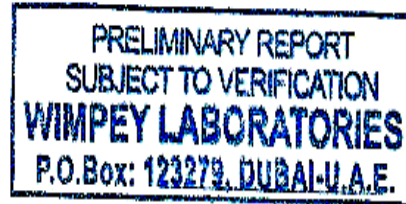
**Report Date..... : 20/10/2020**

**Test item received..... : 08/10/2020**

**Date of Test..... : 10/10/2020 – 20/10/2020**

**Tested by..... : SJV, AJC & VVS.**

**Summary of testing..... : The Below test parameter complies with the specification of SASO 2655 & Technical Regulation M.A-156-16-03-06**



**RESULTS**

**Test Environmental Conditions**

Temperature (°C) : 23 ± 2

Relative Humidity (%) : 50 ± 5

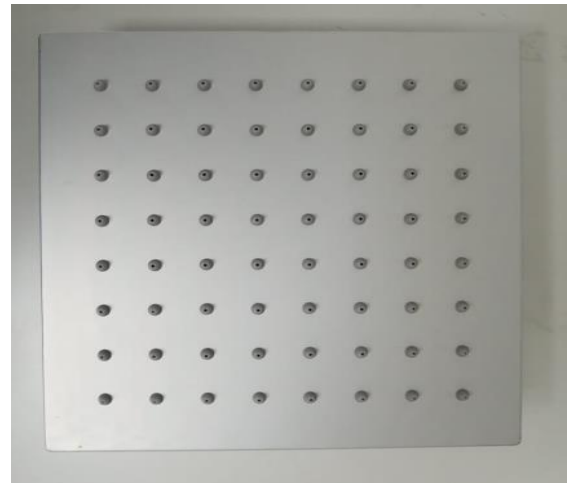
Clause No.	Requirement – Test				Observation	Verdict
<b>4.4</b>	<b>Threaded connections</b>					
4.4.1	Description		Size		Comply with standard requirement	P
	Pipe Thread (Shower Head)		½ NPT			
4.4.2	Hose Thread				Comply with standard requirement	P
4.4.3	Aerators				Comply with standard requirement	P
<b>5.0</b>	<b>Performance Requirements and Test Procedures</b>					
<b>5.1.1</b>	<b>Preconditioning</b>					
	Laboratory Temperature (°C)	Laboratory Relative Humidity (%)	Duration (Hours)			
	23 ± 2	50 ± 5	12		Test Specimen accordance with the laboratory ambient conditions.	P
<b>5.1.2</b>	<b>Installation for testing</b>					
	Installation for testing				Installed in accordance with the manufacturer’s instructions	P
<b>5.2</b>	<b>Coatings</b>					
5.2.1	General				Surfaces of the coated components free of surface defects and uncoated areas and not be stained	P
5.2.2.1	Performance requirements				The coated parts comply with the performance requirements of Clause 5.2.2.1 after being subjected to one of the following corrosion tests	P
<b>5.3</b>	<b>Pressure and temperature</b>					
<b>5.3.1.3</b>	<b>Procedure with the outlet(s) blocked</b>					
	Applied Pressure (kPa)		Test Temperature (°C)		Duration (Min)	
	140	860	Cold	Hot	5 Min	The joints of the fittings no leakages
			10	66		

5.3.5		Ball Joint Leakage				
	Applied Pressure (kPa)	Test Temperature (°C)		Duration (Min)		
	345	38		5	Ball joints of the Shower head No leakages	P
5.4		Flow rate				
	Product				Shower Head	
5.4.2.3	Inlet Pressure (Bar)	Trail 1 (L/Min.)	Trail 2 (L/Min.)	Trail 3 (L/Min.)	Avg. Measured Flow Rate (L/Min.)	
	1.5	6.04	6.08	6.07	6.06	P
	3.0	6.12	6.15	6.10	6.12	
	4.5	6.23	6.25	6.28	6.25	
	Average Nominal Flow Rate, Qnom (L/min.)				<b>6.14</b>	
	Water Efficiency Rating				See Table 1	A
	Product				Hand Shower	
	Inlet Pressure (Bar)	Trail 1 (L/Min.)	Trail 2 (L/Min.)	Trail 3 (L/Min.)	Avg. Measured Flow Rate (L/Min.)	
	1.5	5.52	5.55	5.59	5.55	
	3.0	5.59	6.12	6.07	5.93	
	4.5	6.23	6.25	6.30	6.26	
	Average Nominal Flow Rate, Qnom (L/min.)				<b>5.91</b>	
	Water Efficiency Rating				See Table 1	A
5.7		Resistance to installation loading				
5.7.2		Thread torque strength				
	Thread size	3/4				P
	Torque (N.m)	88		No evidence of cracking or separation have occurred		

**Table 1**

Specification of Technical Regulation M.A-156-16-03-06.	
Product Type	Shower Taps, Mixers and head
Maximum Flow Rate	9.5 L/Min.
<b>Nominal Flow Rate, Qnom (L/min)</b>	<b>Water Efficiency Rating</b>
9.5 ≥ Qnom > 8.0	B
Qnom ≤ 8.0	A

**Photograph of Test Object and Marking**





**Possible Test Case Verdicts:**

- test case does not apply to the test object : N/A
- test case does not conduct to the test object : N/C
- test object does meet the requirement : P (Pass)
- test object does not meet the requirement : F (Fail)
- Water Efficiency Rating/ Grade : A/B

**Remarks:** The above test parameter complies with the specification of SASO 2655 & Technical Regulation M.A-156-16-03-06

**Signed for and on behalf of Wimpey Laboratories**



**A. Umar Farook**  
**Technical Manager**

Test results relate only to the samples tested.  
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