

REPORT ON PERFORMANCE TESTS OF WATER CLOSET CONNECTOR

Client : East Wind Products Ltd.

Project : Testing of uPVC Connector

Client Ref. : EW080921

Report No. : 214521ST210562



Date : 04 November 2021

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1.0 Introduction

Fugro Technical Services Limited, was commissioned by the client, East Wind Products Ltd. to conduct a series of tests on trap in accordance with BS5627 : 1984.

The test samples given a code number ST210562 were received by Fugro Technical Services Limited 08 September 2021.

2.0 Sample Description

For all test W.C. Connector

Brand Name : POSEIDON

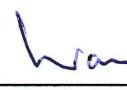
Manufacturing Factory : --

3.0 Summary of Test Results

Sample Description	Test Item	Test method	Test Results	Remark
W.C. Connector	Stress Relief Behaviour of Mould Fitting	BS 5627 : 1984, Clause 7a.3 and BS 2782 : Method 1103A	No blister, delamination, crack and weldline splitting	Pass
	Vicat Softening Temperature of Thermoplastic	BS 5627 : 1984, Clause 7a.3 Method 120B of BS 2782 : Method 120A to 120E : 1976	80.6 °C	Pass
	Air-Tightness Test	BS 5627 : 1984, Clause 9.2 and Appendix F	No loss of pressure	Pass
	Water-Tightness Test	BS 5627 : 1984, Clause 9.1 and Appendix E	No visible leakage	Pass
	Water and Air Tightness Under Deflection	In-house method T-T-289, BS 5627 : 1984 Clause 9.3	No loss of pressure	Pass

Remark : The test results relate only to the samples tested.

Checked by : 

Certified by : 

Chan Chun Wai Ivan
Manager (Product Testing Laboratory)

Date : 04 NOV 2021

Date : 04 NOV 2021



4.0 Individual Results

Test Results for Water Closet Pan Connector

Sample Description : W.C. Connector
 Product Type : uPVC Fitting
 Brand Name : POSEIDON
 Body Marking : --
 Country of Origin : China
 Manufacturer : --

4.1 Stress Relief Behaviour of Mould Fitting

(BS 5627 : 1984, Clause 7a.3 and BS 2782 : Method 1103A)

Lab Sample I.D. : ST210562/3
 Date Tested : 20 September 2021

Sample Type	Test Temperature (°C)	Time Maintained (Min)	Observation	BS Requirement
Fitting	150	30	<p>No blister, delaminations, cracks or weld line splitting.</p> <p>Crack penetration in the area of injection point(s) not greater than 50% of the wall thickness of that point.</p> <p>Crack penetration in the area of end gating not greater than 25% of the corresponding socket depth.</p>	No blister, delamination, crack and weldline splitting

Remark : The test results **comply** with the requirement of BS5627 : 1984, Clause 7a.3



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4.2 Vicat Softening Temperature of Thermoplastic

(BS 5627 : 1984, Clause 7a.3 Method 120B of BS 2782 : Method 120A to 120E : 1976)

Lab Sample I.D. : ST210562/1-2

Date Tested : 28 September 2021

Heating Rate : 50 °C/h

Test Mass (kg)	Test Liquid	Sample Thickness (mm)	Reading of dial gauge (div)		The indenting tip has penetrated into the test specimen (mm)	Temperature (°C)	BS Requirement
			Before	After			
5	water	3.58	300	200	1.0	80.4	≥80°C
		3.56	312	212	1.0	80.8	
					Average	80.6	

 Remark : The test results **comply** with the requirement of BS 5627 : 1984, Clause 7a.3

4.3 Air-Tightness Test

(BS 5627 : 1984, Clause 9.2 and Appendix F)

Lab Sample I.D. : ST210562/4

Date Tested : 11 October 2021

Test Air Pressure (bar)	Time Maintained	Observation	BS Requirement
0.005	5 mins	No loss of pressure	No loss of pressure

 Remark : The test results **comply** with the requirement of BS 5627 : 1984, Clause 9.2

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4.4 Water-Tightness Test

(BS5627 : 1984, Clause 9.1 and Appendix E)

Lab Sample I.D. : ST210562/4

Date Tested : 11 October 2021

Sample Type	Test Pressure (bar)	Time Maintained (Min)	Observation	BS Requirement
Fitting	0.1	5	No visible leakage	No leakage

 Remark : The test results **comply** with the requirement of BS 5627 : 1984, Clause 9.1

4.5 Water and Air Tightness Under Deflection

(In-house method T-T-289, BS 5627 : 1984, Clause 9.3)

Lab Sample I.D. : ST210562/4

Date Tested : 11 October 2021

For Water-Tightness Test			BS Requirement
Test Water Pressure (bar)	Test Maintained (min)	Observation	
0.1	5	No leakage	No loss of pressure
For Air-Tightness Test			
Test Water Pressure (bar)	Test Maintained (min)	Observation	BS Requirement
			No loss of pressure

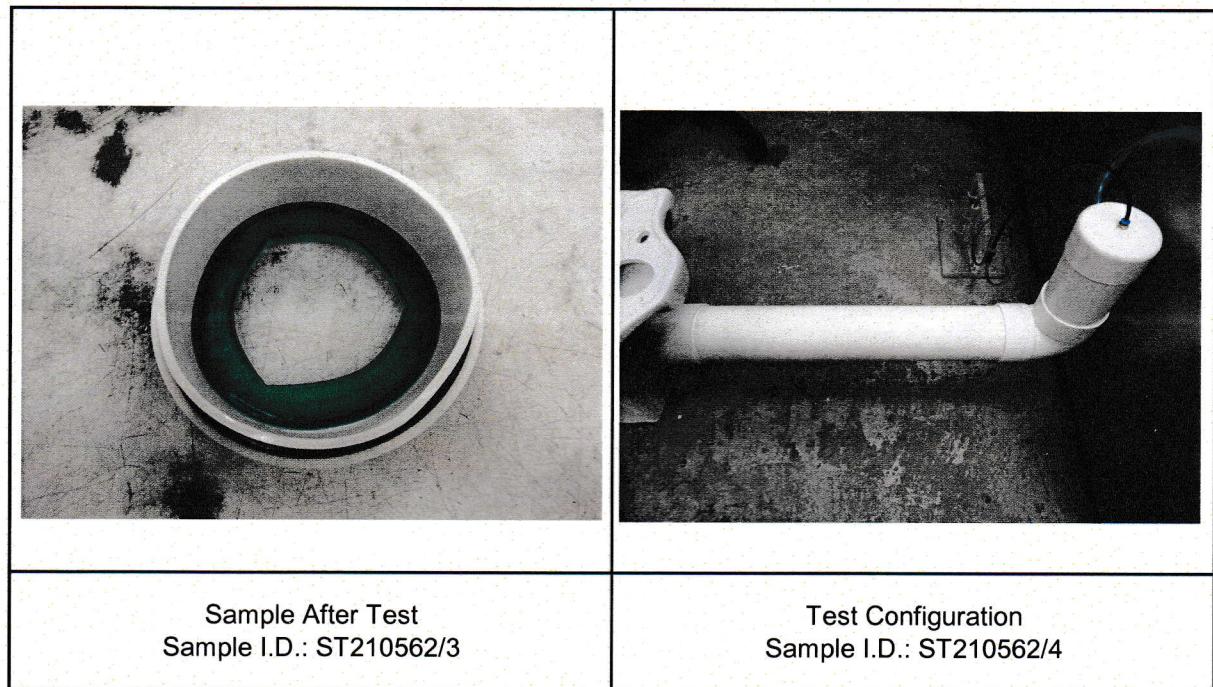
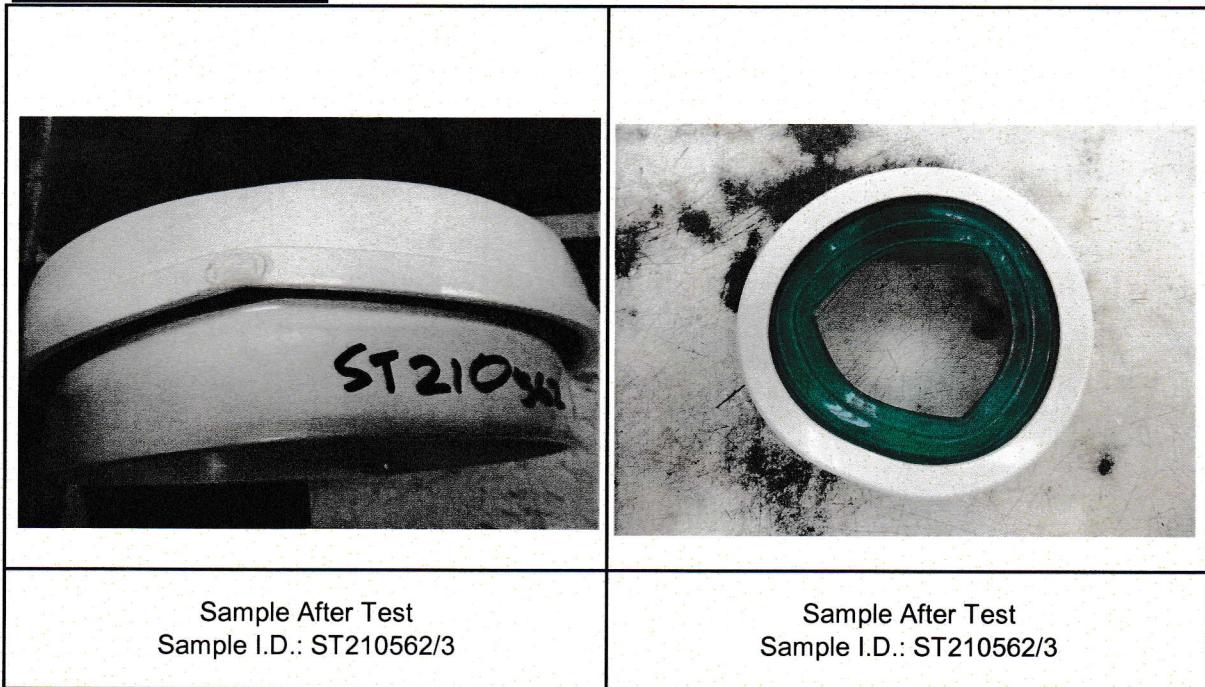
 Remark : The test results **comply** with the requirement of BS 5627 : 1984, Clause 9.3

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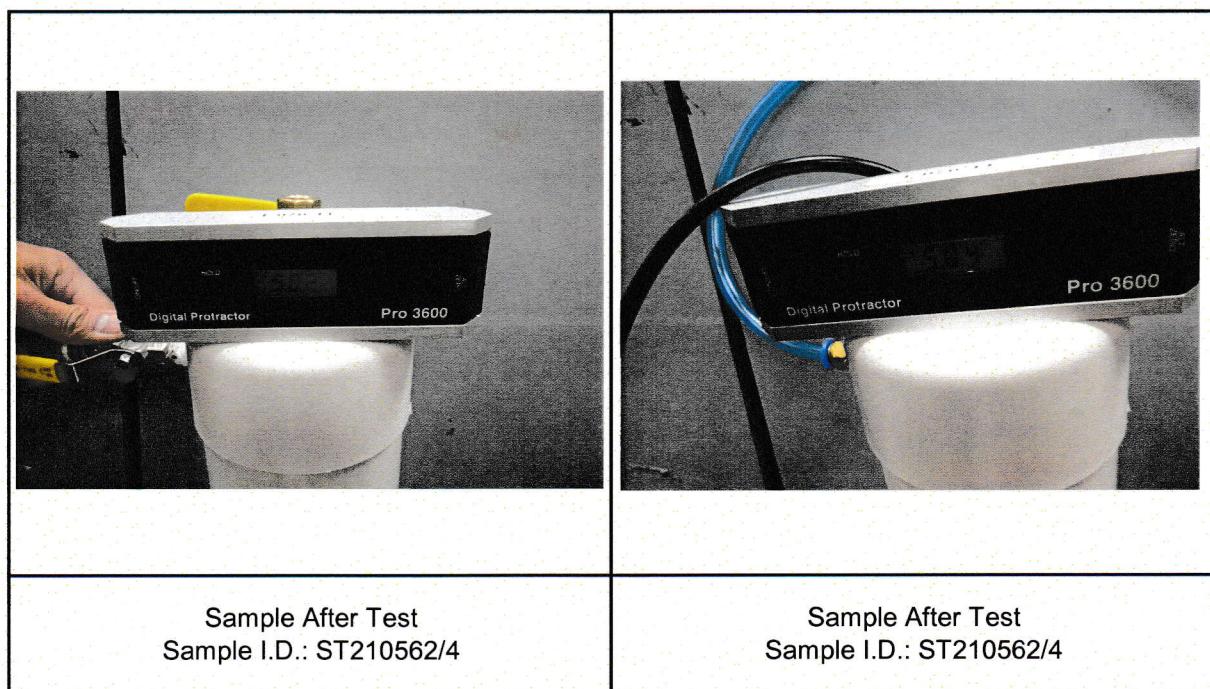
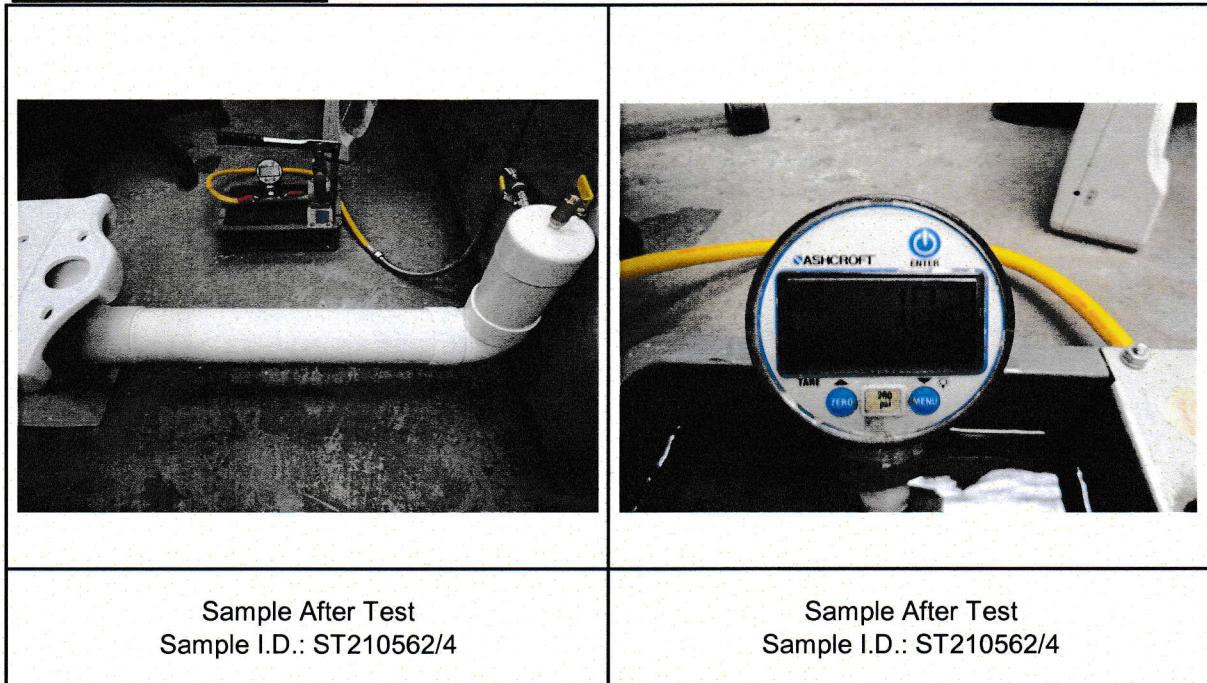
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5.0 Record Photographs



End of Report

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