

## Auditing Test Report

Test Report No.:SA3-4043/29

Date: 26/01/2023

### Client

Saudi Vitrified Clay Pipe Co.

P.O. Box 6415

Riyadh 11442

Kingdom of Saudi Arabia

Sampling Date: 22/01/2023

Test Date: 23/01/2023

### Auditing Purpose:

Testing of Vitrified Clay Pipes jointed by system C according to EN 295-1:2013

### Size Description:

Nominal Size: DN 300 \* 2000 mm  
Jointing System: System C  
Class: 240

### Description of Sampling

Samples were collected randomly from the stock at the client's manufacturing works in Riyadh (Kingdom of Saudi Arabia) by the agent of the Suhaimi - Fugro

### Underlying specification /description of the tests

EN 295-1:2013 "Vitrified clay pipe systems for drains and sewers - Part 1: Requirements for pipes, fittings & joints"  
GSO EN 295-1:2008 "Vitrified clay pipe systems for drains and sewers - Part 1: Requirements for pipes, fittings & joints"  
EN 295-2:2013 "Vitrified clay pipe systems for drains and sewers - Part 2: Evaluation of conformity and sampling"  
EN 295-3:2012 "Vitrified clay pipe systems for drains and sewers - Part 3: Test Methods"



## Test Results of DN 300 ES

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Test Type		Unit	Sample 1	Sample 2	Sample 3	Req.	Result	
Pipes	Marking (visual Inspection)	-	✓	✓	✓	✓	✓	
	Crushing Strength	KN/m	88	91	95	≥ 72	✓	
	Internal Barrel Diameter "D1"	mm	300	300	302	≥ 293	✓	
	Length	mm	2010	2000	2005	2000 <sup>+4%</sup> <sub>-1%</sub>	✓	
	Water Tightness	L/m <sup>2</sup>	0.02	0.01	0.02	≤ 0.04	✓	
	Deviation from Straightness	mm	0.6	0.8	0.5	< 4.0	✓	
	Squareness of Ends	Socket	mm	2.5	2.4	2.6	< 6.0	✓
		Spigot	mm	2.4	2.3	2.1		
	Airtightness	mm	10	10	5	Drops ≤ 25	✓	
	Chemical Resistance	%	0.15	0.16	0.15	0.10-0.25%	✓	
Water Absorption	%	2.9	2.8	2.8	≤ 6 %	✓		
Joint Assembly	Joint Interchangeability (D4)	mm	398.8	398.9	398.9	398.5 ± 0.5	✓	
	Watertightness under Angular Deflection	0.5 bar	No leak, Deflection applied is 30 mm/m for 5 min.			No visible leakage	✓	
	Watertightness under Shear	0.5 bar	No leak, Shear force applied is 7.5 KN for 15 min.			No visible leakage	✓	
	Continuity of Invert	mm	2.7	2.7	2.4	≤ 4	✓	

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