

## Auditing Test Report

Date: 05/07/2018

Lab No. : 40329-4

Jab No.: SA13-4043

### Client

Saudi Vitrified Clay Pipe Co.  
P.O. Box 6415  
Riyadh 11442  
Kingdom of Saudi Arabia

### Sampling Date:

03/07/2018

### Testing Date:

04/07/2018

### Auditing Purpose:

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

### Size Description:

Nominal Size: DN 100 \* 1000 mm  
Jointing System: System F  
Class: 34 KN/m

### 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

	Test Type	Unit	Sample 1	Sample 2	Sample 3	Req.	Result	
Pipes	Marking (visual Inspection)	-	✓	✓	✓	✓	✓	
	Crushing Strength	KN/m	41	36	39	≥ 34	✓	
	Internal Barrel Diameter "D1"	mm	100	103	101	≥ 96	✓	
	Length	mm	1006	1005	1008	1000 <sup>+4%</sup> <sub>-.1%</sub>	✓	
	Water Tightness	L/m <sup>2</sup>	0.012	0.014	0.009	≤ 0.04	✓	
	Deviation from Straightness	mm	3.5	3.8	2.9	< 5.0	✓	
	Squareness of Ends	Socket	mm	3.0	3.7	3.4	< 6.0	✓
		Spigot	mm	3.9	4.3	4.0		
		Airtightness	mm	10	8	8	Drops ≤ 25	✓
		Water Absorption	%	2.8	2.1	3.6	≤ 6 %	✓
	Bending Moment Resistance	KNm	2.7	3.4	3.9	≥ 1.7	✓	
Joint Assembly	Joint Interchangeability	mm	131.8	132.2	131.5	131 ± 1.5	✓	
	Watertightness under Angular Deflection	-	No leak, Deflection applied is 80 mm/m for 5 min.			No visible leakage	✓	
	Watertightness under Shear	-	No leak, Shear force applied is 2.5 KN for 15 min.			No visible leakage	✓	
	Continuity of Invert	mm	2.0	2.7	1.8	≤ 4	✓	

