

## Auditing Test Report

Test Report No. SA13-4043-35

Date: 20/01/2021

### Client

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

Sampling Date: 16/01/2021

Test Date: 17/01/2021

### Auditing Purpose:

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

### Size Description:

Nominal Size: DN 500 \* 2500 mm  
Jointing System: System C  
Class: 160

### 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 500 ES 2.5m

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	Test Type		Unit	Sample 1	Sample 2	Sample 3	Req.	Result
	Pipes	Marking (visual Inspection)		-	✓	✓	✓	✓
Crushing Strength		KN/m	94	88	95	≥ 80	✓	
Internal Barrel Diameter "D1"		mm	502	500	501	≥ 487	✓	
Length		mm	2502	2501	2500	2500 <sup>+4%</sup> <sub>-1%</sub>	✓	
Water Tightness		L/m <sup>2</sup>	0.02	0.02	0.03	≤ 0.04	✓	
Deviation from Straightness		mm	0.6	0.5	0.4	< 3.0	✓	
Squareness of Ends		Socket	mm	5.5	6.1	7.2	< 10.0	✓
		Spigot	mm	5.8	6.8	6.5		
Airtightness		mm	21	22	23	Drops ≤ 25	✓	
Water Absorption		%	4.9	4.9	4.8	≤ 6 %	✓	
Joint Assembly	Joint Interchangeability		mm	637.2	636.9	637.1	637 ± 0.5	✓
	Watertightness under Angular Deflection		-	No leak, Deflection applied is 30 mm/m for 5 min.			No visible leakage	✓
	Watertightness under Shear		-	No leak, Shear force applied is 12.5 KN for 15 min.			No visible leakage	✓
	Continuity of Invert		mm	4.1	4.2	3.9	≤ 5.0	✓

FUGRO - SUHAIMI LTD

Abdul Ghafoor Khawaja

