

## Auditing Test Report

Date: 12/7/2017

Lab No. : 40155-9

### Client

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

### Sampling Date:

10/7/2017

### Testing Date:

11/7/2017

### Auditing Purpose:

Testing of Perforated Vitrified Clay Pipes jointed by system C according to EN 295-5:2013

### Size Description:

Nominal Size: DN 500 \* 2000 mm Half Perforated  
Jointing System: System C  
Class: 120

### 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"  
EN 295-5:2013 "Vitrified clay pipe systems for drains and sewers - Part 5: Requirements for pipes & fittings"  
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
<b>Pipes</b>	Marking (visual Inspection)	-	✓	✓	✓	✓	✓
	Crushing Strength	KN/m	68	71	74	≥ 60	✓
	Internal Barrel Diameter "D1"	mm	505	501.2	502	≥ 487	✓
	Length	mm	2004	2008	2004	2000 <sup>+5%</sup> <sub>-2%</sub>	✓
	Deviation from Straightness	mm	0.9	0.9	0.5	< 4.0	✓
	Perforation Area	mm <sup>2</sup> /m		10215.2		≥ 1500	✓
	Water Absorption	%	4.15	4.4	5.3	≤ 6 %	✓
<b>Joint Assembly</b>	Joint Interchangeability	mm	605.4	605.3	605.2	605 ± 0.5	✓
	Continuity of Invert	mm	3	3.1	3.1	≤ 5.0	✓
	Chemical Resistant	% loss	0.13% & 0.15%, Two test pieces have been immersed totally in 500 ml of H <sub>2</sub> SO <sub>4</sub> & NaOH solutions for 48 h at a temperature of (20 ± 5) °C			0.1% to 0.25%	✓

FUGRO - SUHAIMI LTD

Anil K Mathew

