

Auditing Test Report

Date: 12/7/2017

Lab No. : 40155-6

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 300 * 2000 mm Locally Perforated**
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"
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
Pipes	Marking (visual Inspection)	-	✓	✓	✓	✓	✓
	Crushing Strength	KN/m	61	58.5	52	≥ 48	✓
	Internal Barrel Diameter "D1"	mm	305	301.2	298.8	≥ 293	✓
	Length	mm	2010	2005	2005	2000 ^{+4%} _{-1%}	✓
	Perforation Area	mm ² /m	13133.8			≥ 900	✓
	Deviation from Straightness	mm	3.1	2.4	1.8	< 4.0	✓
	Water Absorption	%	3.5	3.1	3.6	≤ 6 %	✓
Joint Assembly	Joint Interchangeability	mm	371.3	371.4	370.8	371 ± 0.5	✓
	Continuity of Invert	mm	2.8	2.5	2.3	≤ 4	✓
	Chemical Resistant	% loss	0.17% & 0.19%, Two test pieces have been immersed totally in 500 ml of H ₂ SO ₄ & NaOH solutions for 48 h at a temperature of (20 ± 5) °C			0.1% to 0.25%	✓

FUGRO - SUHAIMI LTD

Anil K Mathew

