

Auditing Test Report

Date: 12/7/2017

Lab No. : 40155-7

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 400 * 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
Pipes	Marking (visual Inspection)	-	✓	✓	✓	✓	✓
	Crushing Strength	KN/m	54	57	60	≥ 48	✓
	Internal Barrel Diameter "D1"	mm	402.3	402.3	400.5	≥ 390	✓
	Length	mm	2009	2004	2009	2000 ^{+5%} _{-2%}	✓
	Deviation from Straightness	mm	2.4	2.5	1.83	< 4.0	✓
	Perforation Area	mm ² /m	10215.2			≥ 1200	✓
	Water Absorption	%	3.4	3.1	3.4	≤ 6 %	✓
Joint Assembly	Joint Interchangeability	mm	483.4	483.5	483.9	483.5 ± 0.5	✓
	Continuity of Invert	mm	3.4	2.1	2.4	≤ 4	✓
	Chemical Resistant	% loss	0.15% & 0.22%, 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

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