

Auditing Test Report

Date: 06/07/2018

Lab No. : 40329-17

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:

05/07/2018

Auditing Purpose:

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

Size Description:

Nominal Size: **DN 450 * 2000 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

	Test Type		Unit	Sample 1	Sample 2	Sample 3	Req.	Result
	Pipes	Marking (visual Inspection)		-	✓	✓	✓	✓
Crushing Strength		KN/m	96	90	99	≥ 80	✓	
Internal Barrel Diameter "D1"		mm	452	451	453	≥ 439	✓	
Length		mm	2010	2005	2010	2000 ^{+4%} _{-1%}	✓	
Water Tightness		L/m ²	0.025	0.03	0.022	≤ 0.04	✓	
Deviation from Straightness		mm	0.9	0.6	1	< 3.0	✓	
Squareness of Ends		Socket	mm	4.0	2.5	3.3	< 9.0	✓
		Spigot	mm	4.9	3.1	4.1		
Airtightness		mm	18	12	16	Drops ≤ 25	✓	
Water Absorption		%	2.5	3.2	2.7	≤ 6 %	✓	
Joint Assembly	Joint Interchangeability		mm	579.4	579.3	579.3	579 ± 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 11.25 KN for 15 min.			No visible leakage	✓
	Continuity of Invert		mm	2.6	2.1	2.9	≤ 4.5	✓



FUGRO - SUHAIMI LTD

ANIL K MATHEW