

Auditing Test Report

Lab No. : 40329-9

Client

Saudi Vitrified Clay Pipe Co.

P.O. Box 6415

Riyadh 11442

Kingdom of Saudi Arabia

Date: 05/07/2018

Jab No.: SA13-4043

Sampling Date:

03/07/2018

Testing Date:

04/07/2018

Auditing Purpose:

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

Size Description:

Nominal Size:

DN 250 * 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	57	59	56	≥ 50	✓	
	Internal Barrel Diameter "D1"	mm	249	250	249	≥ 244	✓	
	Length	mm	2010	2015	2010	2000 ^{+4%} _{-1%}	✓	
	Water Tightness	L/m ²	0.008	0.01	0.01	≤ 0.04	✓	
	Deviation from Straightness	mm	2.0	2.3	1.5	< 4.0	✓	
	Squareness of Ends	Socket	mm	2.8	2.5	3.0	< 6.0	✓
		Spigot	mm	3.7	2.8	2.1		
		Airtightness	mm	10	14	12	Drops ≤ 25	✓
		Water Absorption	%	2.9	3.3	2.5	≤ 6 %	✓
Joint Assembly	Joint Interchangeability	mm	317.4	317.1	317.3	317 ± 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 6.25 KN for 15 min.			No visible leakage	✓	
	Continuity of Invert	mm	2.1	1.4	2.9	≤ 4	✓	

