

Auditing Test Report

Date: 06/07/2018

Lab No. : 40329-18

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 500 * 2000 mm
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"
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	83	89	85	≥ 65	✓	
Internal Barrel Diameter "D1"		mm	503	500	502	≥ 487	✓	
Length		mm	2005	2010	2005	2000 ^{+4%} _{-1%}	✓	
Water Tightness		L/m ²	0.026	0.032	0.021	≤ 0.04	✓	
Deviation from Straightness		mm	1.0	0.7	1.6	< 3.0	✓	
Squareness of Ends		Socket	mm	3.9	3.4	4.2	< 10.0	✓
		Spigot	mm	5.1	4.5	4.9		
Airtightness		mm	14	10	18	Drops ≤ 25	✓	
Water Absorption		%	4.3	3.8	4.7	≤ 6 %	✓	
Joint Assembly	Joint Interchangeability		mm	605.1	605.3	605.4	605 ± 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 12.5 KN for 15 min.			No visible leakage	✓
	Continuity of Invert		mm	3.4	2.7	3.9	≤ 5.0	✓

