

Auditing Test Report

Date: 16/1/2017

Lab No. : 40079-21

Client

Saudi Vitrified Clay Pipe Co.
P.O. Box 6415
Riyadh 11442
Kingdom of Saudi Arabia

Sampling Date:

14/1/2017

Testing Date:

15/1/2017

Auditing Purpose:

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

Size Description:

Nominal Size: DN 500 * 2500 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	98.2	92	88	≥ 80	✓	
Internal Barrel Diameter "D1"		mm	503.5	498.8	502	≥ 487	✓	
Length		mm	2555	2501	2502	2500 ^{+4%} _{-1%}	✓	
Water Tightness		L/m ²	0.025	0.015	0.01	≤ 0.04	✓	
Deviation from Straightness		mm	0.6	0.2	0.4	< 3.0	✓	
Squariness of Ends		Socket	mm	5.4	5.2	5.6	< 10.0	✓
		Spigot	mm	6.2	6.4	6.1		
Airtightness		mm	17	14	15	Drops ≤ 25	✓	
Water Absorption		%	4.1	4.8	4.1	≤ 6 %	✓	
Joint Assembly	Joint Interchangeability		mm	637.3	637.4	637.1	637 ± 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	3.7	3.4	2.2	≤ 5.0	✓
	Chemical and physical resistance to effluent		-	No Leak, the joint assembly has been immersed totally in the chemical solutions for 168 hrs at (20 ± 5)°, then water tightness applied for 5 min.			No visible leakage	✓

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