

Auditing Test Report

Job No. : SA13-4043

Date: 11/07/2019

Client

Saudi Vitrified Clay Pipe Co.

P.O. Box 6415

Riyadh 11442

Kingdom of Saudi Arabia

Sampling Date: 07/07/2019

Test Date: 08/07/2019

Auditing Purpose:

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

Size Description:

Nominal Size:

DN 400 * 2500 mm

Jointing System:

System C

Class:

200

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	116	121	114	≥ 96	✓	
	Internal Barrel Diameter "D1"	mm	401	402	402.5	≥ 390	✓	
	Length	mm	2505	2501	2500	2500 ^{+4%} _{-1%}	✓	
	Water Tightness	L/m ²	0.02	0.022	0.03	≤ 0.04	✓	
	Deviation from Straightness	mm	1.1	1.3	0.9	< 3.0	✓	
	Squareness of Ends	Socket	mm	4.1	3.8	3.4	< 8.0	✓
		Spigot	mm	4.6	3.2	3.5		
	Airtightness	mm	17	14	12	Drops ≤ 25	✓	
	Water Absorption	%	4.2	3.8	3.2	≤ 6 %	✓	
Joint Assembly	Joint Interchangeability	mm	515.7	515.6	515.8	515.5 ± 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 10.0 KN for 15 min.			No visible leakage	✓	
	Continuity of Invert	mm	2.7	3.1	3.4	≤ 4	✓	

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