

Auditing Test Report

Test Report No.:SA13-4043/24

Date: 26/01/2023

Client

Saudi Vitrified Clay Pipe Co.

P.O. Box 6415

Riyadh 11442

Kingdom of Saudi Arabia

Sampling Date: 22/01/2023

Test Date: 23/01/2023

Auditing Purpose:

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

Size Description:

Nominal Size: DN 200 SS * 2000 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 of DN 200 SS 2.0m

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	Test Type		Unit	Sample 1	Sample 2	Sample 3	Req.	Result
	Pipes	Marking (visual Inspection)		-	✓	✓	✓	✓
Crushing Strength		KN/m	68	61	59	≥ 45	✓	
Internal Barrel Diameter "D1"		mm	202	202	205	≥ 195	✓	
Length		mm	2015	2020	2010	2000 ^{+4%} _{-1%}	✓	
Water Tightness		L/m ²	0.02	0.03	0.03	≤ 0.04	✓	
Deviation from Straightness		mm	2.8	2.7	2.8	< 4.0	✓	
Squareness of Ends		Socket	mm	1.6	1.5	1.8	< 6.0	✓
		Spigot	mm	1.8	1.7	1.9		
Airtightness		mm	8	6	10	Drops ≤ 25	✓	
Chemical Resistance		%	0.18	0.12	0.15	0.10-0.25%	✓	
Water Absorption		%	3.4	3.4	3.5	≤ 6 %	✓	
Bending Moment Resistance		KNm	15.6	15.8	16.4	≥ 8.6	✓	
Joint Assembly	Joint Interchangeability (D4)		mm	260.3	260.4	260.4	260 ± 0.5	✓
	Watertightness under Angular Deflection		0.5 bar	No leak, Deflection applied is 80 mm/m for 5 min.			No visible leakage	✓
	Watertightness under Shear		0.5 bar	No leak, Shear force applied is 5.0 KN for 15 min.			No visible leakage	✓
	Continuity of Invert		mm	2.5	2.2	2.3	≤ 4	✓

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