

Auditing Test Report

Date:

09/07/2025

Test Report No. 258816/J/25/25

Client

Sampling Date:

05/07/2025

Saudi Vitrified Clay Pipe Co.

P.O. Box 6415

Test Date:

06/07/2025

Riyadh 11442

Kingdom of Saudi Arabia

Auditing Purpose:

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

Size Description:

Nominal Size:

DN 200 ES * 1750 mm

Jointing System:

System C

Class:

260 - Class A

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"

SASO-GSO-EN-295-1:2022 "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 ES 1.75m - Class A

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	Test Ty	pe	Unit	Sample 1	Sample 2	Sample 3	Req.	Result
Pipes	Marking (visual Inspection)		-	~	✓	1	~	/
	Crushing Strength		KN/m	72	67	66	≥ 52	~
	Internal Barrel Diameter "D1"		mm	200	203	202	≥ 195	~
	Length		mm	1755	1760	1750	1750 +4%	~
	Water Tightness		L/m²	0.017	0.01	0.01	≤ 0.04	1
	Deviation from Straightness		mm	2.1	1.8	1.9	< 4.0	~
	Squareness of Ends	Socket	mm	2.2	2.4	2.7	< 6.0	/
		Spigot	mm	2.1	1.7	1.9		
	Airtightness		mm	0	0	4	Drops ≤ 25	~
	Chemical Resistance		%	0.16	0.17	0.17	0.10-0.25%	~
	Water Absorption		%	2.5	2.5	2.4	≤6%	~
	Bending Moment Resistance		KNm	17.2	17.9	16.6	≥ 9.2	/
Joint Assembly	Joint Interchangeability (D4)		mm	260.3	260.3	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 8.12 KN for 15 min.			No visible leakage	~
Joi	Continuity of Invert		mm	2.1	2.2	2.3	≤4	~

FUGRO - SUHAIMI LTD

Mohammed Afaq