

Auditing Test Report

Test Report No.: SA13-4043/38

Date: 10/01/2024

Client

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

Sampling Date: 06/01/2024

Test Date: 07/01/2024

Auditing Purpose:

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

Size Description:

Nominal Size: DN 800 * 2000 mm
Jointing System: System C
Class: 120 - 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"
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 800 ES - Class A

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	Test Type		Unit	Sample 1	Sample 2	Sample 3	Req.	Result
	Pipes	Marking (visual Inspection)		-	✓	✓	✓	✓
Crushing Strength		KN/m	119	122	120	≥ 96	✓	
Internal Barrel Diameter "D1"		mm	810	805	805	≥ 780	✓	
Length		mm	2000	2010	2010	2000 ^{+4%} _{-1%}	✓	
Water Tightness		L/m ²	0.03	0.03	0.03	≤ 0.04	✓	
Deviation from Straightness		mm	0.4	0.4	0.7	< 3.0	✓	
Squareness of Ends		Socket	mm	8.2	7.8	8.4	< 16.0	✓
		Spigot	mm	7.7	7.3	6.9		
Airtightness		mm	20	20	15	Drops ≤ 25	✓	
Chemical Resistance		%	0.15	0.17	0.17	0.10-0.25%	✓	
Water Absorption		%	5.7	5.8	5.4	≤ 6%	✓	
Joint Assembly	Joint Interchangeability (D4)		mm	976.3	976.4	976.3	976 ± 0.5	✓
	Watertightness under Angular Deflection		0.5 bar	No leak, Deflection applied is 20 mm/m for 5 min.			No visible leakage	✓
	Watertightness under Shear		0.5 bar	No leak, Shear force applied is 20.0 KN for 15 min.			No visible leakage	✓
	Continuity of Invert		mm	5.2	5.5	5.4	≤ 8.0	✓

FUGRO - SUHAIMI LTD

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