

Auditing Test Report

Test Report No.: SA13-4043/37

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 700 * 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 700 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	120	115	119	≥ 90	✓	
	Internal Barrel Diameter "D1"	mm	706	705	703	≥ 682	✓	
	Length	mm	2010	2005	2010	2000 ^{+4%} _{-1%}	✓	
	Water Tightness	L/m ²	0.03	0.02	0.02	≤ 0.04	✓	
	Deviation from Straightness	mm	0.3	0.8	0.2	< 3.0	✓	
	Squareness of Ends	Socket	mm	5.6	5.8	6.3	< 14.0	✓
		Spigot	mm	6.1	6.4	6.1		
	Airtightness	mm	22	20	20	Drops ≤ 25	✓	
	Chemical Resistance	%	0.15	0.15	0.17	0.10-0.25%	✓	
	Water Absorption	%	5.3	5.3	5.1	≤ 6%	✓	
Joint Assembly	Joint Interchangeability (D4)	mm	871.4	871.4	871.3	871 ± 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 17.5 KN for 15 min.			No visible leakage	✓	
	Continuity of Invert	mm	4.9	4.6	5.1	≤ 7.0	✓	

FUGRO - SUHAIMI LTD

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