

Auditing Test Report

Test Report No.: SA13-4043/40

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 1000 * 2000 mm
Jointing System: System C
Class: 95 - 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 1000 ES - Class A

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Test Type		Unit	Sample 1	Sample 2	Sample 3	Req.	Result
Marking (visual Inspection)		-	✓	✓	✓	✓	✓
Crushing Strength		KN/m	115	120	116	≥ 100	✓
Internal Barrel Diameter "D1"		mm	1005	1005	999	≥ 975	✓
Length		mm	2015	2015	2010	2000 ^{+4%} _{-1%}	✓
Water Tightness		L/m ²	0.03	0.03	0.03	≤ 0.04	✓
Deviation from Straightness		mm	0.5	0.2	0.4	< 3.0	✓
Squareness of Ends	Socket	mm	10.4	10.2	10.5	< 20	✓
	Spigot	mm	10.5	10.2	10.8		
Airtightness		mm	20	20	18	Drops ≤ 25	✓
Chemical Resistance		%	0.15	0.16	0.15	0.10-0.25%	✓
Water Absorption		%	5.7	5.8	5.8	≤ 6%	✓
Joint Assembly	Joint Interchangeability (D4)	mm	1203.3	1203.4	1203.4	1203 ± 0.5	✓
	Watertightness under Angular Deflection	0.5 bar	No leak, Deflection applied is 10 mm/m for 5 min.			No visible leakage	✓
	Watertightness under Shear	0.5 bar	No leak, Shear force applied is 25.0 KN for 15 min.			No visible leakage	✓
	Continuity of Invert	mm	6.4	5.9	6.2	≤ 10.0	✓

FUGRO - SUHAIMI LTD

Mohammad Afaq

