

Auditing Test Report

Test Report No.: SA13-4043/36

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 600 * 2000 mm

Joining System: System C

Class: 160 - 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 600 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	125	120	≥ 96	✓	
Internal Barrel Diameter "D1"		mm	605	602	605	≥ 585	✓	
Length		mm	2000	2010	2010	2000 ^{+4%} _{-1%}	✓	
Water Tightness		L/m ²	0.02	0.03	0.02	≤ 0.04	✓	
Deviation from Straightness		mm	0.9	0.5	0.6	< 3.0	✓	
Squareness of Ends		Socket	mm	6.2	6.8	6.6	< 12.0	✓
		Spigot	mm	6.2	5.6	6.7		
Airtightness		mm	15	20	15	Drops ≤ 25	✓	
Chemical Resistance		%	0.15	0.19	0.15	0.10-0.25%	✓	
Water Absorption		%	5.3	5.3	5.2	≤ 6 %	✓	
Joint Assembly	Joint Interchangeability (D4)		mm	758.3	758.3	758.4	758 ± 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 15.0 KN for 15 min.			No visible leakage	✓
	Continuity of Invert		mm	3.6	3.7	3.9	≤ 6.0	✓

FUGRO - SUHAIMI LTD

Mohammad Afaq

