

**Auditing Test Report** 

Date:

10/01/2024

Test Report No.: SA13-4043/19

Client

Sampling Date:

06/01/2024

Saudi Vitrified Clay Pipe Co.

P.O. Box 6415

Test Date:

07/01/2024

Riyadh 11442

Kingdom of Saudi Arabia

## **Auditing Purpose:**

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

**Size Description:** 

Nominal Size:

DN 100 \* 1000 mm

Jointing System:

System F

Class:

34 KN/m

## **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"

WN ZP 295:2022

'Glazed vitrified clay pipes, fittings and their accessories for drains and sewers"

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

السحيوم - وني عزو Suhaimi - Suhaimi Material Division (Riyadh Lab. 01) C.R. 1010083413 من المناس فتم صالح فتط لتقارير المغتبر (Stamp Valid For Lab Lab Test Reports)



## Test Results of DN 100 mm

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	Test Type		Unit	Sample 1	Sample 2	Sample 3	Req.	Result
Pipes	Marking/Visual Inspection		-	1	~	<b>✓</b>	/	1
	Crushing Strength		KN/m	51	52	49	≥ 34	/
	Internal Barrel Diameter "D1"		mm	103	102	102	≥ 96	/
	Length		mm	1010	1010	1015	1000 +4% -1%	1
	Water Tightness		L/m²	0.025	0.02	0.03	≤ 0.04	1
	Deviation from Straightness		mm	4.2	3.4	3.2	< 5.0	/
	Squareness of Ends	Socket	mm	2.2	1.8	2.1	< 6.0	
		Spigot	mm	2.3	2.3	1.7		
	Airtightness		mm	5	5	10	Drops ≤ 25	1
	Chemical Resistance		%	0.15	0.12	0.17	0.10-0.25%	1
	Water Absorption		%	1.7	1.7	2.1	≤6%	1
Joint Assembly	Joint Interchangeability (D3)		mm	130.8	131.2	131.1	131 ± 1.5	-
	Watertightness under Deflection		- 0.5 bar	No leak, for 5 minutes under Deflection of 100 mm/m			No visible leakage	1
	Watertightness under shear			No leak, for 15 minutes under shear load of 2.5 KN				/
	Watertightness of joint assembly		1.0 bar	No leak, for 15 minutes without shear or deflection				/
			2.4 bar					/
	Continuity of Invert		mm	N/A			N/A	1

FUGRO SUHAIMI LTD

**Mohammad Afaq** 

