

Auditing Test Report

Date:

10/01/2024

Test Report No.: SA13-4043/22

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 150 * 1500 mm

Jointing System:

System F

Class:

34 KN/m - Class B

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

السحيمات - في خرو Fugro - Suhaimi Material Division (Riyadh Lab. 01) C.R. 1010083413 س ت س ت C.R. 1010083413 ختم صابح فقط بتقارير المختبر (Stamp Valid For Lab Lab Test Reports)



Test Results of DN 150 mm - Class B

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Test Type		Unit	Sample 1	Sample 2	Sample 3	Req.	Result
Marking (visual Inspection)		-	V	✓	·	· ·	/
Crushing Strength		KN/m	43	47	49	≥ 34	~
Internal Barrel Diameter "D1"		mm	153	150	151	≥ 146	~
Length		mm	1510	1502	1505	1500 +4% -1%	~
Water Tightness		L/m²	0.03	0.01	0.02	≤ 0.04	~
Deviation from Straightness		mm	2.4	3.2	2.5	< 4.5	~
Squareness of Ends -	Socket	mm	1.7	1.7	2.0	< 6.0	
	Spigot	mm	1.8	1.8	1.9		~
Airtightness		mm	5	0	10	Drops ≤ 25	
Chemical Resistance		% %	0.20	0.19	0.17	0.10-0.25%	~
Water Absorption		%	2.2	2.5	2.1	≤6%	/
Bending Moment Resistance		KNm	10.7	11.4	10.8	≥ 5.0	. ·
Joint Interchangeability (D3)		mm	186.4	186.5	186.5	186 ± 2.0	~
Watertightness under Deflection		0.5 bar	No leak, for 5 minutes under Deflection of 100 mm/m				1
Watertightness under shear		0.5 bar	No leak, for 15 minutes under shear load of 3.75 KN			No visible leakage	-
Watertightness of joint assembly		1.0 bar	No leak, for 15 minutes without shear or				~
		2.4 bar		deflection	•	/	
Continuity of Invert		mm	N/A			N/A	~

FUGRO SUHAIMI LTD

Mohammad Afaq

السحيمي - فيت غرو Fugro - Suhaimi Material Division

(Riyadh Lab. 01)

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