

Auditing Test Report

Test Report No. 258816/32

Date: 21/07/2024

Client

Saudi Vitrified Clay Pipe Co.

P.O. Box 6415

Riyadh 11442

Kingdom of Saudi Arabia

Sampling Date: 17/07/2024

Test Date: 18/07/2024

Auditing Purpose:

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

Size Description:

Nominal Size: DN 500 * 2000 mm
Jointing System: System C
Class: 120 - 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"
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 500 SS - Class B

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Test Type		Unit	Sample 1	Sample 2	Sample 3	Req.	Result	
Pipes	Marking (visual Inspection)	-	✓	✓	✓	✓	✓	
	Crushing Strength	KN/m	82	85	77	≥ 65	✓	
	Internal Barrel Diameter "D1"	mm	502	502	505	≥ 487	✓	
	Length	mm	2005	2005	2010	2000 ^{+4%} _{-1%}	✓	
	Water Tightness	L/m ²	0.02	0.03	0.03	≤ 0.04	✓	
	Deviation from Straightness	mm	0.4	0.6	0.4	< 3.0	✓	
	Squareness of Ends	Socket	mm	4.1	4.3	3.6	< 10.0	✓
		Spigot	mm	3.5	4.2	4.5		
	Airtightness	mm	15	18	20	Drops ≤ 25	✓	
	Chemical Resistance	%	0.13	0.12	0.11	0.10-0.25%	✓	
Water Absorption	%	4.2	4.1	3.9	≤ 6 %	✓		
Joint Assembly	Joint Interchangeability (D4)	mm	605.3	605.3	605.4	605 ± 0.5	✓	
	Watertightness under Angular Deflection	0.5 bar	No leak, Deflection applied is 30 mm/m for 5 min.			No visible leakage	✓	
	Watertightness under Shear	0.5 bar	No leak, Shear force applied is 12.5 KN for 15 min.			No visible leakage	✓	
	Continuity of Invert	mm	3.4	3.4	3.6	≤ 5.0	✓	

FUGRO - SUHAIMI LTD

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