

Auditing Test Report

Date: 01/08/2021

Test Report No.:SA13-4043-18

Client

Saudi Vitrified Clay Pipe Co.

P.O. Box 6415

Riyadh 11442

Kingdom of Saudi Arabia

Sampling Date: 28/07/2021

Test Date: 29/07/2021

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"
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 100 mm

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	Test Type		Unit	Sample 1	Sample 2	Sample 3	Req.	Result
	Pipes	Marking (visual Inspection)		-	✓	✓	✓	✓
Crushing Strength		KN/m	38	39	38	≥ 34	✓	
Internal Barrel Diameter "D1"		mm	99	105	101	≥ 96	✓	
Length		mm	1005	1003	1009	1000 ^{+4%} _{-1%}	✓	
Water Tightness		L/m ²	0.025	0.03	0.02	≤ 0.04	✓	
Deviation from Straightness		mm	3	4.1	4.2	< 5.0	✓	
Squareness of Ends		Socket	mm	3.2	4.3	3.1	< 6.0	✓
		Spigot	mm	4.1	4.2	4.1		
Airtightness		mm	5	7	4	Drops ≤ 25	✓	
Water Absorption		%	2.4	1.6	1.6	≤ 6 %	✓	
Bending Moment Resistance		KNm	2.6	3.2	3.4	≥ 1.7	✓	
Joint Assembly	Joint Interchangeability		mm	132.1	131.5	131.8	131 ± 1.5	✓
	Watertightness under Angular Deflection		-	No leak, Deflection applied is 80 mm/m for 5 min.			No visible leakage	✓
	Watertightness under Shear		-	No leak, Shear force applied is 2.5 KN for 15 min.			No visible leakage	✓
	Continuity of Invert		mm	2.6	2.5	2.7	≤ 4	✓

FUGRO - SUHAIMI LTD

Nesar Ahmed

