

Auditing Test Report

Test Report No.:SA3-4043-19

Date: 01/08/2021

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 150 * 1500 mm

Jointing System: System F

Class: 40 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 150 mm

Test Report No.:SA13-4043-19

	Test Type		Unit	Sample 1	Sample 2	Sample 3	Req.	Result
	Pipes	Marking (visual Inspection)		-	✓	✓	✓	✓
Crushing Strength		KN/m	49	45	49	≥ 40	✓	
Internal Barrel Diameter "D1"		mm	152	150	151	≥ 146	✓	
Length		mm	1510	1502	1505	1500 ^{+4%} _{-1%}	✓	
Water Tightness		L/m ²	0.03	0.02	0.02	≤ 0.04	✓	
Deviation from Straightness		mm	2.4	3.2	2.5	< 4.5	✓	
Squareness of Ends		Socket	mm	1.3	1.5	2.0	< 6.0	✓
		Spigot	mm	2.8	1.8	2.8		
Airtightness		mm	11	12	9	Drops ≤ 25	✓	
Water Absorption		%	2	2.5	2.4	≤ 6 %	✓	
Bending Moment Resistance		KNm	6.1	6.5	5.5	≥ 4.6	✓	
Joint Assembly	Joint Interchangeability		mm	186	188	187.2	186 ± 2.0	✓
	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 3.75 KN for 15 min.			No visible leakage	✓
	Continuity of Invert		mm	3	2.5	2.2	≤ 4	✓

FUGRO - SUHAIMI LTD

Nesar Ahmed

