

Auditing Test Report

Date: 26/01/2023

Test Report No.SA13-4043/32

Client

Saudi Vitrified Clay Pipe Co.

P.O. Box 6415

Riyadh 11442

Kingdom of Saudi Arabia

Sampling Date: 22/01/2023

Test Date: 23/01/2023

Auditing Purpose:

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

Size Description:

Nominal Size: DN 400 * 2000 mm

Jointing System: System C

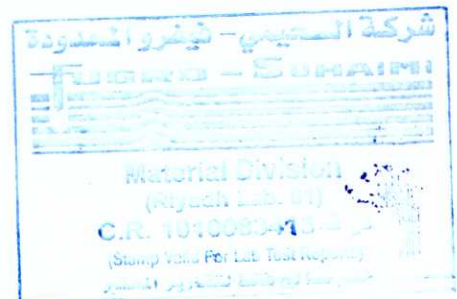
Class: 200

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 400 ES

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	Test Type		Unit	Sample 1	Sample 2	Sample 3	Req.	Result
	Pipes	Marking (visual Inspection)		-	✓	✓	✓	✓
Crushing Strength		KN/m	120	115	115	≥ 96	✓	
Internal Barrel Diameter "D1"		mm	400	400	402	≥ 390	✓	
Length		mm	2010	2010	2015	2000 ^{+4%} _{-1%}	✓	
Water Tightness		L/m ²	0.02	0.01	0.02	≤ 0.04	✓	
Deviation from Straightness		mm	0.5	0.9	0.6	< 3.0	✓	
Squareness of Ends		Socket	mm	3.2	3.2	3.6	< 8.0	✓
		Spigot	mm	3.5	3.1	3.6		
Airtightness		mm	10	20	15	Drops ≤ 25	✓	
Chemical Resistance		%	0.15	0.16	0.16	0.10-0.25%	✓	
Water Absorption		%	4.7	5.1	5.1	≤ 6 %	✓	
Joint Assembly	Joint Interchangeability (D4)		mm	515.8	515.7	515.8	515.5 ± 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 10.0 KN for 15 min.			No visible leakage	✓
	Continuity of Invert		mm	2.8	2.3	2.4	≤ 4	✓

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