

Auditing Test Report

Test Report No.:SA13-4043-30

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 C according to EN 295-1:2013

Size Description:

Nominal Size: DN 450 * 2000 mm

Jointing System: System C

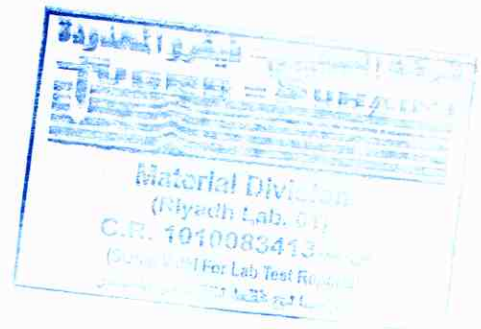
Class: 160

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 450 ES

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	Test Type		Unit	Sample 1	Sample 2	Sample 3	Req.	Result
	Pipes	Marking (visual Inspection)		-	✓	✓	✓	✓
Crushing Strength		KN/m	122	110	115	≥ 80	✓	
Internal Barrel Diameter "D1"		mm	450	455	452	≥ 439	✓	
Length		mm	2010	2010	2000	2000 ^{+4%} _{-1%}	✓	
Water Tightness		L/m ²	0.01	0.016	0.015	≤ 0.04	✓	
Deviation from Straightness		mm	1	0.7	1.2	< 3.0	✓	
Squareness of Ends		Socket	mm	3.8	2.8	3.4	< 9.0	✓
		Spigot	mm	3.2	2.8	4.1		
Airtightness		mm	15	18	15	Drops ≤ 25	✓	
Water Absorption		%	4.6	4.5	4.1	≤ 6 %	✓	
Joint Assembly	Joint Interchangeability		mm	579.2	579.3	579.1	579 ± 0.5	✓
	Watertightness under Angular Deflection		-	No leak, Deflection applied is 30 mm/m for 5 min.			No visible leakage	✓
	Watertightness under Shear		-	No leak, Shear force applied is 11.25 KN for 15 min.			No visible leakage	✓
	Continuity of Invert		mm	2.4	3.2	3.1	≤ 4.5	✓

FUGRO - SUHAIMI LTD

Neesar Ahmed

