

Auditing Test Report

Date: 06/07/2018

Lab No. : 40329-24

Jab No.: SA13-4043

Client

Saudi Vitrified Clay Pipe Co.
P.O. Box 6415
Riyadh 11442
Kingdom of Saudi Arabia

Sampling Date:

03/07/2018

Testing Date:

05/07/2018

Auditing Purpose:

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

Size Description:

Nominal Size: **DN 900 * 2000 mm**
Jointing System: **System C**
Class: **95 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

	Test Type		Unit	Sample 1	Sample 2	Sample 3	Req.	Result
	Pipes	Marking (visual Inspection)		-	✓	✓	✓	✓
Crushing Strength		KN/m	111	118	108	≥ 95	✓	
Internal Barrel Diameter "D1"		mm	908	907	910	≥ 878	✓	
Length		mm	2005	2008	2000	2000 ^{+4%} _{-1%}	✓	
Water Tightness		L/m ²	0.031	0.034	0.027	≤ 0.04	✓	
Deviation from Straightness		mm	0.6	0.8	0.5	< 3.0	✓	
Squariness of Ends		Socket	mm	8.4	9.7	9.1	< 18.0	✓
		Spigot	mm	9.8	10.5	10.0		
Airtightness		mm	20	18	22	Drops ≤ 25	✓	
Water Absorption		%	5.3	5.5	4.9	≤ 6 %	✓	
Joint Assembly	Joint Interchangeability		mm	1096.2	1096.3	1096.0	1096 ± 0.5	✓
	Watertightness under Angular Deflection		-	No leak, Deflection applied is 10 mm/m for 5 min.			No visible leakage	✓
	Watertightness under Shear		-	No leak, Shear force applied is 22.5 KN for 15 min.			No visible leakage	✓
	Continuity of Invert		mm	5.8	6.2	5.6	≤ 9.0	✓



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