

Auditing Test Report

Date: 07/07/2018

Lab No. : 40329-20

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 500 * 2500 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

	Test Type	Unit	Sample 1	Sample 2	Sample 3	Req.	Result	
Pipes	Marking (visual Inspection)	-	✓	✓	✓	✓	✓	
	Crushing Strength	KN/m	95	89	99	≥ 80	✓	
	Internal Barrel Diameter "D1"	mm	504	505	503	≥ 487	✓	
	Length	mm	2505	2008	2504	2500 ^{+4%} _{-1%}	✓	
	Water Tightness	L/m ²	0.02	0.015	0.015	≤ 0.04	✓	
	Deviation from Straightness	mm	0.6	0.2	0.4	< 3.0	✓	
	Squareness of Ends	Socket	mm	6.8	6.1	5.6	< 10.0	✓
		Spigot	mm	5.8	6.4	6.1		
		Airtightness	mm	17	14	15	Drops ≤ 25	✓
		Water Absorption	%	4.1	4.5	4.2	≤ 6 %	✓
Joint Assembly	Joint Interchangeability	mm	637.2	637.3	637.4	637 ± 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 12.5 KN for 15 min.			No visible leakage	✓	
	Continuity of Invert	mm	3.1	3.2	3.8	≤ 5.0	✓	


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