

Auditing Test Report

Date: 05/07/2018

Lab No. : 40329-8

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:

04/07/2018

Auditing Purpose:

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

Size Description:

Nominal Size: **DN 200 ES * 2000 mm**
Jointing System: **System C**
Class: **240**

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	67	71	68	≥ 60	✓	
Internal Barrel Diameter "D1"		mm	199	198	200.5	≥ 195	✓	
Length		mm	2003	2005	2005	2000 ^{+4%} _{-1%}	✓	
Water Tightness		L/m ²	0.013	0.015	0.011	≤ 0.04	✓	
Deviation from Straightness		mm	3.1	2.2	2.9	< 4.0	✓	
Squareness of Ends		Socket	mm	3.2	3.5	3.0	< 6.0	✓
		Spigot	mm	4.0	3.9	4.2		
Airtightness		mm	12	14	10	Drops ≤ 25	✓	
Water Absorption		%	3.3	2.1	2.5	≤ 6 %	✓	
Bending Moment Resistance		KNm	11.6	12.0	12.5	≥ 8.6	✓	
Joint Assembly	Joint Interchangeability		mm	275.3	275.1	275.0	275 ± 0.5	✓
	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 5.0 KN for 15 min.			No visible leakage	✓
	Continuity of Invert		mm	1.3	2.7	2.2	≤ 4	✓

السحيمي فيفرو المحدودة

Material Division - FUGRO - SUHAIMI LTD
(Riyadh Lab. 01)
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 (Stamp Valid only for Lab Test Reports)
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