

## Auditing Test Report

Date: 05/07/2018

Lab No. : 40329-5

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 F according to EN 295-1:2013

### Size Description:

Nominal Size:	DN 150 * 1500 mm
Jointing System:	System F
Class:	34 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	
<b>Pipes</b>	Marking (visual Inspection)	-	✓	✓	✓	✓	✓	
	Crushing Strength	KN/m	51	53	49	≥ 40	✓	
	Internal Barrel Diameter "D1"	mm	150	148	148	≥ 146	✓	
	Length	mm	1515	1515	1510	1500 <sup>+4%</sup> <sub>-1%</sub>	✓	
	Water Tightness	L/m <sup>2</sup>	0.01	0.011	0.014	≤ 0.04	✓	
	Deviation from Straightness	mm	2.5	2.0	2.7	< 4.5	✓	
	Squareness of Ends	Socket	mm	1.6	1.4	1.8	< 6.0	✓
		Spigot	mm	2.1	1.9	2.1		
	Airtightness	mm	10	11	7	Drops ≤ 25	✓	
	Water Absorption	%	2.5	2.5	1.9	≤ 6 %	✓	
	Bending Moment Resistance	KNm	6.4	6.1	6.8	≥ 4	✓	
<b>Joint Assembly</b>	Joint Interchangeability	mm	185.7	186.2	185.5	186 ± 2.0	✓	
	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 3.75 KN for 15 min.			No visible leakage	✓	
	Continuity of Invert	mm	2.2	2	2.5	≤ 4	✓	

  
**FUGRO - SUHAIMI LTD**  
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 (Stamp Valid only for Lab Test Reports)  
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