

Auditing Test Report

Date: 05/07/2018

Lab No. : 40328

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 Pipe's Joints material for Vitrified Clay Pipes & Fittings " System C" according to EN 295-1:2013

Description: Seals for socketted pipes made from polyurethane elastic sealing material and rigid fairing material

Jointing System:

System C

Nominal Size:

DN 200 up to DN 1200

Samples (taken):

three specimens of polyurethane sealing and fairing materials from dispensing units in use

Description of Sampling

Samples were taken 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

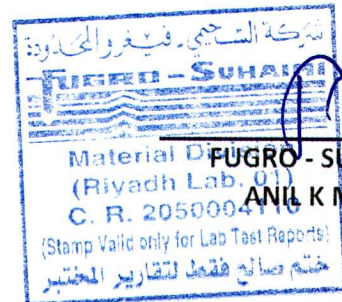
EN 295-1:2013	"Vitrified clay pipe systems for drains and sewers - Part 1: Requirements for pipes, fittings & joints"
EN 295-2:2013	"Vitrified clay pipe systems for drains and sewers - Part 2: Evaluation of conformity and sampling"
EN 295-3:2012	"Vitrified clay pipe systems for drains and sewers - Part 3: Test Methods"
EN 681-4:2006	"Elastomeric seals - Material requirements for pipe joint seals used in water and drainage applications - Part 4: Cast polyurethane sealing elements"



Results of Joint Material tests

Joint Material	Tests	Unit	Requirements (EN 681-4:2006)	Readings			Result
				1	2	3	
Polyurethane Sealing (Spigot Material)	Dimensions			Confrom according to ISO 3302			Pass
	Visual Imperfections			None			Pass
	Hardness	IRHD	67 ± 5	69.5	70.0	68.0	Pass
Rigid Fairing materials (Socket material)	Compression Set : 24 hrs at 70 C°	%	≤ 20	8.7	8.4	7.9	Pass
	Creep Deformation , at 1.25 N/mm, initial (t=10 ⁰ min.)	%	≤ 5	2.0	1.8	2.5	Pass
	Creep Deformation , at 1.25 N/mm, (t=10 ⁰ ...10 ⁴ min.)	%	≤ 8	3.7	3.2	3.5	Pass
	Indentation (after 24 h)	mm	≤ 0.5	0.3	0.4	0.4	Pass

* These type tests are not required as a factory production control system, as per EN 295-2:2013, clause 5.3.11



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