

Auditing Test Report

Test Report No.:SA13-4043/30

Date: 26/01/2023

Client

Saudi Vitrified Clay Pipe Co.

P.O. Box 6415

Riyadh 11442

Kingdom of Saudi Arabia

Sampling Date: 22/01/2023

Test Date: 23/01/2023

Auditing Purpose:

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

Size Description:

Nominal Size: DN 350 * 2000 mm
Jointing System: System C
Class: 200

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 of DN 350 ES

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Test Type		Unit	Sample 1	Sample 2	Sample 3	Req.	Result	
Pipes	Marking (visual Inspection)	-	✓	✓	✓	✓	✓	
	Crushing Strength	KN/m	101	102	99	≥ 70	✓	
	Internal Barrel Diameter "D1"	mm	349	348	350	≥ 341	✓	
	Length	mm	2010	2005	2005	2000 ^{+4%} _{-1%}	✓	
	Water Tightness	L/m ²	0.03	0.02	0.02	≤ 0.04	✓	
	Deviation from Straightness	mm	0.9	0.5	0.8	< 3.0	✓	
	Squareness of Ends	Socket	mm	3.1	3.2	3.5	< 7.0	✓
		Spigot	mm	3.4	3.5	3.2		
	Airtightness	mm	15	10	10	Drops ≤ 25	✓	
	Chemical Resistance	%	0.15	0.14	0.17	0.10-0.25%	✓	
Water Absorption	%	4.5	4.4	4.2	≤ 6 %	✓		
Joint Assembly	Joint Interchangeability (D4)	mm	459.4	459.3	459.4	459.0 ± 0.5	✓	
	Watertightness under Angular Deflection	0.5 bar	No leak, Deflection applied is 30 mm/m for 5 min.			No visible leakage	✓	
	Watertightness under Shear	0.5 bar	No leak, Shear force applied is 8.75 KN for 15 min.			No visible leakage	✓	
	Continuity of Invert	mm	3.4	2.8	2.9	≤ 4	✓	

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