

Auditing Test Report

Date 01/08/2021

Test Report No.:SA13-4043-38

Client

Saudi Vitrified Clay Pipe Co.
P.O. Box 6415
Riyadh 11442
Kingdom of Saudi Arabia

Sampling Date: 28/07/2021

Test Date: 29/07/2021

Auditing Purpose:

Testing of Vitrified Clay Fittings according to EN 295-1:2013

Size Description:

Nominal Size: Bends (DN 100mm up to and including DN 700 ES)
Joining System: System F & C

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"
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 Bends

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Bend Type	Internal Diameter (mm)		Angle of Curvature (°)		Water Tightness (L/m ²)		Air Tightness (mm)		Joint Interchangeability (mm)		
	Req.	Actual	Req.	Actual	Req.	Actual	Req.	Actual	Req.	Actual	
Bend 100 mm 45°	≥ 96	100	45°± 5	42	No visible leakage within 5 minutes under pressure 0.5 bar	No leak	Pressure drop shall not exceed 25 mm when subjected to 100 mm pressure during standard time	5	131 ± 1.5	131.4	
Bend 100 mm 90°		101	90°± 5	94		No leak		8		132	
Bend 150 mm 45°	≥ 146	149	45°± 5	41		No leak		6	186 ± 2.0	186.9	
Bend 150 mm 90°		151	90°± 5	93		No leak		8		187.2	
Bend 200 SS 45°	≥ 195	205	45°± 5	45		No leak		8	260 ± 0.5	260.4	
Bend 200 SS 90°		207	90°± 5	92		No leak		9		260.3	
Bend 200 ES 45°		200	45°± 5	44		No leak		4	275 ± 0.5	275.4	
Bend 200 ES 90°		204	90°± 5	92		No leak		2		275.3	
Bend 250 SS 45°	≥ 244	249	45°± 5	44		No leak		8	317.5 ± 0.5	317.7	
Bend 250 SS 90°		251	90°± 5	94		No leak		7		317.6	
Bend 250 ES 45°		248	45°± 5	46		No leak		8	341.5 ± 0.5	341.5	
Bend 250 ES 90°		252	90°± 5	93		No leak		9		341.7	
Bend 300 SS 45°		≥ 293	303	45°± 5		48		No leak	11	371.5 ± 0.5	371.6
Bend 300 SS 90°			299	90°± 5		91		No leak	10		371.9
Bend 300 ES 45°	302		45°± 5	44		No leak		9	398.5 ± 0.5	398.8	
Bend 300 ES 90°	298		90°± 5	94		No leak		11		398.6	
Bend 350 ES 45°	≥ 341	351	45°± 5	47		No leak		9	459 ± 0.5	459.3	
Bend 350 ES 90°		349	90°± 5	94		No leak		8		459.2	
Bend 400 SS 45°	≥ 390	401	45°± 5	43		No leak		7	483.5 ± 0.5	483.4	
Bend 400 SS 90°		402	90°± 5	92		No leak		10		483.2	
Bend 400 ES 45°		402	45°± 5	48	No leak	8	515.5 ± 0.5	515.6			
Bend 400 ES 90°		401	90°± 5	94	No leak	15		515.7			
Bend 500 SS 45°	≥ 487	500	45°± 5	42	No leak	8	605 ± 0.5	605.4			
Bend 500 SS 90°		505	90°± 5	94	No leak	14		605.1			
Bend 500 ES 45°		501	45°± 5	46	No leak	14	637 ± 0.5	637.6			
Bend 500 ES 90°		501	90°± 5	94	No leak	11		637.5			
Bend 600 ES 45°	≥ 585	602	45°± 5	49	No leak	17	758 ± 0.5	758.1			
Bend 600 ES 90°		601	90°± 5	91	No leak	15		758.4			
Bend 700 ES 45°	≥ 682	702	45°± 5	47	No leak	17	871 ± 0.5	871.3			
Bend 700 ES 90°		704	90°± 5	94	No leak	19		871.4			

FUGRO - SUHAIMI LTD

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