

Auditing Test Report

Date 10/01/2024

Test Report No.: SA13-4043/16

Client

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

Sampling Date: 06/01/2024

Test Date: 07/01/2024

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)
Jointing 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	0	131 ± 1.5	131.9
Bend 100 mm 90°		99	90°± 5	94		No leak		8		132.2
Bend 150 mm 45°	≥ 146	150	45°± 5	45		No leak		0	186 ± 2.0	187
Bend 150 mm 90°		151	90°± 5	93		No leak		10		187.4
Bend 200 SS 45°	≥ 195	205	45°± 5	45		No leak		8	260 ± 0.5	260.4
Bend 200 SS 90°		202	90°± 5	89		No leak		9		260.3
Bend 200 ES 45°		202	45°± 5	44		No leak		4	275 ± 0.5	275.4
Bend 200 ES 90°		204	90°± 5	92		No leak		0		275.4
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°		250	45°± 5	46		No leak		8	341.5 ± 0.5	341.5
Bend 250 ES 90°		252	90°± 5	90		No leak		9		341.7
Bend 300 SS 45°	≥ 293	303	45°± 5	48		No leak		5	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	43		No leak		9	398.5 ± 0.5	398.9
Bend 300 ES 90°		300	90°± 5	94		No leak		11		398.6
Bend 350 ES 45°	≥ 341	351	45°± 5	46		No leak		9	459 ± 0.5	459.3
Bend 350 ES 90°		352	90°± 5	94		No leak		5		459.2
Bend 400 SS 45°	≥ 390	401	45°± 5	43		No leak		7	483.5 ± 0.5	483.5
Bend 400 SS 90°		402	90°± 5	92		No leak		8		483.2
Bend 400 ES 45°		402	45°± 5	44	No leak	8	515.5 ± 0.5	515.7		
Bend 400 ES 90°		402	90°± 5	94	No leak	10		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	90	No leak	9		605.2		
Bend 500 ES 45°		501	45°± 5	46	No leak	5	637 ± 0.5	637.6		
Bend 500 ES 90°		501	90°± 5	94	No leak	11		637.5		
Bend 600 ES 45°	≥ 585	600	45°± 5	44	No leak	10	758 ± 0.5	758.3		
Bend 600 ES 90°		601	90°± 5	91	No leak	15		758.2		
Bend 700 ES 45°	≥ 682	702	45°± 5	47	No leak	5	871 ± 0.5	871.4		
Bend 700 ES 90°		704	90°± 5	90	No leak	19		871.4		

FUGRO - SUHAIMI LTD

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