

Auditing Test Report

Test Report No.:SA13-4043/18

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 Fittings according to EN 295-1:2013

Size Description:

Nominal Size: T- Junctions (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 T-junctions

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T-Junction Type	Internal Diameter (mm)		Length (Req. : Nominal length $\pm 1\%$)		Branch Angle		Water Tightness (L/m ²)		Air Tightness (mm)		Joint Interchangeability (mm)	
	Req.	Actual	Nominal Length	Actual	Req.	Actual	Req.	Actual	Req.	Actual	Req.	Actual
100 mm / 100 mm	≥ 96	100	450	451	90° ± 5	87	No leak	0	131 ± 1.5	131.9	131 ± 1.5	131.9
150 mm / 100 mm	≥ 146	150		499		90						
200 SS / 100 mm	≥ 195	199	500	502	91	No leak	5	260 ± 0.5	260.3	260 ± 0.5	260.3	
200 ES / 100 mm		201		501	88	No leak	5	275 ± 0.5	275.3			
200 SS / 150 mm	≥ 244	199	500	505	89	No leak	10	260 ± 0.5	260.3	260 ± 0.5	260.3	
200 ES / 150 mm		201		505	94	No leak	5	275 ± 0.5	275.5			
250 SS / 150 mm	≥ 293	249	500	503	95	No leak	9	317.5 ± 0.5	317.3	317.5 ± 0.5	317.3	
250 ES / 150 mm		250		497	90	No leak	11	341.5 ± 0.5	341.5			
300 SS / 150 mm	≥ 341	301	500	500	92	No leak	5	371.5 ± 0.5	371.4	371.5 ± 0.5	371.4	
300 ES / 150 mm		305		504	93	No leak	6	398.5 ± 0.5	398.9			
350 ES / 150 mm	≥ 390	345	500	502	88	No leak	2	459 ± 0.5	459.4	459 ± 0.5	459.4	
400 SS / 150 mm		401		1001	89	No leak	5	483.5 ± 0.5	483.4			
400 ES / 150 mm	≥ 439	402	1000	1002	92	No leak	8	515.5 ± 0.5	515.7	515.5 ± 0.5	515.7	
450 ES / 150 mm		445		1001	93	No leak	11	579 ± 0.5	579.4			
500 SS / 150 mm	≥ 487	495	1000	1000	88	No leak	14	605 ± 0.5	605.3	605 ± 0.5	605.3	
500 ES / 150 mm		505		1005	94	No leak	12	637 ± 0.5	637.4			
600 ES / 150 mm	≥ 585	601	1000	1001	95	No leak	11	758 ± 0.5	758.1	758 ± 0.5	758.1	
200 SS / 200 SS		201		608	94	No leak	10	260 ± 0.5	260.4			
250 SS / 200 SS	≥ 244	250	600	602	92	No leak	9	317.5 ± 0.5	317.8	317.5 ± 0.5	317.8	
250 ES / 200 SS		249		605	92	No leak	8	341.5 ± 0.5	341.4			
300 SS / 200 SS	≥ 293	303	600	604	94	No leak	13	371.5 ± 0.5	371.2	371.5 ± 0.5	371.2	
300 ES / 200 SS		302		610	94	No leak	12	398.5 ± 0.5	398.7			
350 ES / 200 SS	≥ 341	349	600	603	95	No leak	9	459 ± 0.5	459.3	459 ± 0.5	459.3	
400 SS / 200 SS		405		999	92	No leak	10	483.5 ± 0.5	483.2			
400 ES / 200 SS	≥ 390	402	1000	1005	91	No leak	17	515.5 ± 0.5	515.4	515.5 ± 0.5	515.4	
450 ES / 200 SS		449		1008	90	No leak	19	579 ± 0.5	579.4			
500 SS / 200 SS	≥ 487	501	1000	1004	90	No leak	22	605 ± 0.5	605.3	605 ± 0.5	605.3	
500 ES / 200 SS		502		995	93	No leak	21	637 ± 0.5	637.2			
600 ES / 200 SS	≥ 585	595	1000	1008	91	No leak	21	758 ± 0.5	758.4	758 ± 0.5	758.4	
100 mm / 100 mm		101		450	449	94	No leak	10	131 ± 1.5			132.4
150 mm / 150 mm	≥ 146	150	500	501	92	No leak	16	186 ± 2.0	187.7	186 ± 2.0	187.7	
200 SS / 200 SS		199	600	606	95	No leak	13	260 ± 0.5	260.4			
200 ES / 200 ES	≥ 195	200	600	604	94	No leak	12	275 ± 0.5	275.4	275 ± 0.5	275.4	
250 SS / 250 SS		252	650	655	93	No leak	8	317.5 ± 0.5	317.6			
250 ES / 250 ES	≥ 244	250	650	654	94	No leak	16	341.5 ± 0.5	341.4	341.5 ± 0.5	341.4	
300 SS / 300 SS		303	700	709	95	No leak	15	371.5 ± 0.5	371.5			
300 ES / 300 ES	≥ 293	304	800	802	90	No leak	9	398.5 ± 0.5	398.7	398.5 ± 0.5	398.7	
350 ES / 350 ES		350	900	901	92	No leak	10	459 ± 0.5	459.4			
400 SS / 400 SS	≥ 341	400	1000	1003	93	No leak	13	483.5 ± 0.5	483.4	483.5 ± 0.5	483.4	
400 ES / 400 ES		400	1000	1002	95	No leak	14	515.5 ± 0.5	515.4			
450 ES / 450 ES	≥ 439	450	1100	1101	90	No leak	12	579 ± 0.5	579.3	579 ± 0.5	579.3	
500 SS / 500 SS		502	1175	1171	94	No leak	19	605 ± 0.5	605.3			
500 ES / 500 ES	≥ 487	505	1200	1205	91	No leak	15	637 ± 0.5	637.4	637 ± 0.5	637.4	
600 ES / 600 ES		604	1350	1353	94	No leak	14	758 ± 0.5	758.3			
700 ES / 700 ES	≥ 682	705	1550	1552	90	No leak	4	871 ± 0.5	871.2	871 ± 0.5	871.2	

T-Junctions

90° ± 5

No visible leakage within 15 minutes under pressure 0.5 bar

Pressure drop shall not exceed 25 mm when subjected to 100 mm pressure during standard time

Yedham

FUGRO - SUHAIMI LTD

Inam Syed

