

## Auditing Test Report

Date 01/08/2021

Test Report No.:SA13-4043-17

### 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: 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

Test Report No.:SA13-4043-17

T-Junction Type	Internal Diameter (mm)		Length (Req.: Nominal length <sup>+4%</sup> <sub>-1%</sub> )		Branch Angle		Water Tightness (L/m <sup>2</sup> )		Air Tightness (mm)		Joint Interchangeability (mm)		
	Req.	Actual	Nominal Length	Actual	Req.	Actual	Req.	Actual	Req.	Actual	Req.	Actual	
100 mm / 100 mm	≥ 96	99	450	451	90° ± 5	95	No leak	No leak	Pressure drop shall not exceed 25 mm when subjected to 100 mm pressure during standard time	11	131 ± 1.5	131.4	
150 mm / 100 mm	≥ 146	148		451		90				12	186 ± 2.0	187.2	
200 SS / 100 mm	≥ 195	200	500	502		91				No leak	5	260 ± 0.5	260.4
200 ES / 100 mm		201		498		92				No leak	10	275 ± 0.5	275.3
200 SS / 150 mm		199		499		92				No leak	5	260 ± 0.5	260.4
200 ES / 150 mm		201		505		94				No leak	8	275 ± 0.5	275.5
250 SS / 150 mm	≥ 244	249	500	503		95				No leak	9	317.5 ± 0.5	317.3
250 ES / 150 mm		251		497		94				No leak	11	341.5 ± 0.5	341.2
300 SS / 150 mm	≥ 293	301	500	498		92				No leak	10	371.5 ± 0.5	371.4
300 ES / 150 mm		305		504		93				No leak	12	398.5 ± 0.5	398.9
350 ES / 150 mm	≥ 341	352	500	502		92				No leak	2	459 ± 0.5	459.4
400 SS / 150 mm	≥ 390	400		1000		1001				91	No leak	5	483.5 ± 0.5
400 ES / 150 mm		402	1002			92				No leak	8	515.5 ± 0.5	515.7
450 ES / 150 mm	≥ 439	450	1000	1001		93				No leak	11	579 ± 0.5	579.4
500 SS / 150 mm	≥ 487	501		600		1005				90	No leak	14	605 ± 0.5
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
200 SS / 200 SS	≥ 195	201		600		608				94	No leak	10	260 ± 0.5
250 SS / 200 SS	≥ 244	250	600			602				92	No leak	9	317.5 ± 0.5
250 ES / 200 SS		249		605		92				No leak	8	341.5 ± 0.5	341.4
300 SS / 200 SS	≥ 293	302	600	604	94	No leak	13	371.5 ± 0.5	371.2				
300 ES / 200 SS		300		608	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				
400 SS / 200 SS	≥ 390	405		1000	1001	92	No leak	15	483.5 ± 0.5	483.2			
400 ES / 200 SS		401	1005		91	No leak	17	515.5 ± 0.5	515.4				
450 ES / 200 SS	≥ 439	449	1000	1008	90	No leak	19	579 ± 0.5	579.4				
500 SS / 200 SS	≥ 487	501		600	1004	90	No leak	22	605 ± 0.5	605.3			
500 ES / 200 SS		502	1007		93	No leak	21	637 ± 0.5	637.2				
600 ES / 200 SS	≥ 585	600	1000	1008	91	No leak	21	758 ± 0.5	758.4				
100 mm / 100 mm	≥ 96	99		450	452	94	No leak	17	131 ± 1.5	131.7			
150 mm / 150 mm	≥ 146	150	500	501	92	No leak	16	186 ± 2.0	187.2				
200 SS / 200 SS	≥ 195	199	600	606	95	No leak	13	260 ± 0.5	260.4				
200 ES / 200 ES		200	600	604	94	No leak	12	275 ± 0.5	275.4				
250 SS / 250 SS	≥ 244	252	650	655	93	No leak	12	317.5 ± 0.5	317.7				
250 ES / 250 ES		250	650	654	94	No leak	16	341.5 ± 0.5	341.4				
300 SS / 300 SS	≥ 293	303	700	709	95	No leak	15	371.5 ± 0.5	371.5				
300 ES / 300 ES		304	800	802	90	No leak	14	398.5 ± 0.5	398.8				
350 ES / 350 ES	≥ 341	350	900	901	92	No leak	10	459 ± 0.5	459.4				
400 SS / 400 SS	≥ 390	399	1000	1003	93	No leak	13	483.5 ± 0.5	483.4				
400 ES / 400 ES		402	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				
500 SS / 500 SS	≥ 487	502	1175	1171	94	No leak	15	605 ± 0.5	605.3				
500 ES / 500 ES		505	1200	1205	91	No leak	15	637 ± 0.5	637.2				
600 ES / 600 ES	≥ 585	604	1350	1353	94	No leak	14	758 ± 0.5	758.3				
700 ES / 700 ES	≥ 682	700	1550	1552	90	No leak	10	871 ± 0.5	871.2				

FUGRO - SUHAIMI LTD

Neesar Ahmed

