

## Auditing Test Report

Test Report No.:SA13-4043/17

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: Y- Junctions (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 Y- junctions

Test Report No.:SA13-4043/17

Y-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	455	45° ± 5	42	No leak	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	5	131 ± 1.5	131.7	
150 mm / 100 mm	≥ 146	149		451		50				7	186 ± 2.0	187.6	
200 SS / 100 mm	≥ 195	203	500	505		46				5	260 ± 0.5	260.4	
200 ES / 100 mm		198		506		41				0	275 ± 0.5	275.2	
200 SS / 150 mm		200		505		48				5	260 ± 0.5	260.4	
200 ES / 150 mm		201		501		49				10	275 ± 0.5	275.4	
250 SS / 150 mm	≥ 244	250	500	510		48				11	317.5 ± 0.5	317.7	
250 ES / 150 mm		249		502		45				8	341.5 ± 0.5	341.6	
300 SS / 150 mm	≥ 293	300	500	505		50				9	371.5 ± 0.5	371.2	
300 ES / 150 mm		302		506		43				0	398.5 ± 0.5	398.9	
350 ES / 150 mm	≥ 341	351	1000	505		48				8	459 ± 0.5	459.4	
400 SS / 150 mm	≥ 390	400		1009		49				9	483.5 ± 0.5	483.5	
400 ES / 150 mm		402.1		1008		47				4	515.5 ± 0.5	515.4	
450 ES / 150 mm	≥ 439	448		1005		48				10	579 ± 0.5	579.3	
500 SS / 150 mm	≥ 487	502		1000		42				0	605 ± 0.5	605.3	
500 ES / 150 mm		501		998		40				11	637 ± 0.5	637.2	
600 ES / 150 mm	≥ 585	602		1005		42				0	758 ± 0.5	758.4	
200 SS / 200 SS	≥ 195	201		600		610				48	8	260 ± 0.5	260.3
250 SS / 200 SS	≥ 244	251				603				48	10	317.5 ± 0.5	317.6
250 ES / 200 SS		248				605				49	6	341.5 ± 0.5	341.3
300 SS / 200 SS	≥ 293	301			604	42	11	371.5 ± 0.5	371.8				
300 ES / 200 SS		305			600	46	15	398.5 ± 0.5	398.6				
350 ES / 200 SS	≥ 341	352			605	47	4	459 ± 0.5	459.4				
400 SS / 200 SS	≥ 390	401			1010	48	11	483.5 ± 0.5	483.4				
400 ES / 200 SS		401			1005	49	6	515.5 ± 0.5	515.8				
450 ES / 200 SS	≥ 439	452			1000	41	2	579 ± 0.5	579.3				
500 SS / 200 SS	≥ 487	504			1005	42	13	605 ± 0.5	605.4				
500 ES / 200 SS		500			1007	42	10	637 ± 0.5	637.2				
600 ES / 200 SS	≥ 585	598			1002	45	5	758 ± 0.5	758.3				
100 mm / 100 mm	≥ 96	102			450	455	46	14	131 ± 1.5	132.2			
150 mm / 150 mm	≥ 146	151	500		505	47	10	186 ± 2.0	186.5				
200 SS / 200 SS	≥ 195	202	600		602	44	14	260 ± 0.5	260.4				
200 ES / 200 ES		201	612		613	47	18	275 ± 0.5	275.4				
250 SS / 250 SS	≥ 244	249	740		744	41	17	317.5 ± 0.5	317.2				
250 ES / 250 ES		250	800		802	44	13	341.5 ± 0.5	341.1				
300 SS / 300 SS	≥ 293	301	810		812	42	11	371.5 ± 0.5	371.4				
300 ES / 300 ES		300	900		902	43	10	398.5 ± 0.5	398.9				
350 ES / 350 ES	≥ 341	349	1000	1004	44	10	459 ± 0.5	459.4					
400 SS / 400 SS	≥ 390	401	1000	1007	45	8	483.5 ± 0.5	483.2					
400 ES / 400 ES		406	1100	1101	48	11	515.5 ± 0.5	515.5					
450 ES / 450 ES	≥ 439	451	1225	1226	44	10	579 ± 0.5	579.4					
500 SS / 500 SS	≥ 487	501	1350	1344	46	20	605 ± 0.5	605.4					
500 ES / 500 ES		502	1350	1349	43	22	637 ± 0.5	637.4					
600 ES / 600 ES	≥ 585	600	1575	1576	45	21	758 ± 0.5	758.2					
700 ES / 700 ES	≥ 682	699	2000	2020	48	19	871 ± 0.5	871.4					

*scdham*

FUGRO - SUHAIMI LTD

Inam Syed

