

# Quality Association of the Vitrified Clay Pipe Industry

Testing, supervising and certificating authority

Steinzeug Abwassersysteme GmbH  
Werk STG-3  
Alfred-Nobel-Strasse 32  
0  
D - 50226 Frechen

## Notified body for the certification of

- Vitrified clay pipes and fittings
- Seals and sealing materials for drainage applications
- Sanitary components
- Toilets



Köln, 10/03/2005

## Test report

Nr. 19091

Subject	Third party certification
Ordered by	<b>Quality Association of the Vitrified Clay Pipe Industry.</b>
Order	Testing of jacking pipe joints
Manufacturer	Steinzeug Abwassersysteme GmbH., Werk STG-3 Frechen
Order Nr.	GD2 - 5/05
Sampling date	1/02/2005
Sample entry date	11/02/2005
Samples	4 Jacking pipes EN295-7-DN 600 FN 96 - 9.6 with stainless steel sleeve and tension ring
Evaluation	The requirements of EN 295-7, WN 295 and the quality and testing rules for vitrified clay jacking pipes are fulfilled.

**The quality committee**

This test report contains an annex of 1 page and shall not be used abridged.

**Quality Association of the Vitrified Clay Pipe Industry.**

Annex page 1 of test report nr **19091** dated **10/03/2005**

Samples: 4 Jacking pipes EN295-7-DN 600 FN 96 - 9.6 with stainless steel sleeve and tension ring

Sample Nr.	24		25		26		Requirement		Unit	Acc. To	
	min	max	min	max	min	max	min	max			
EN 295-7	+		+		+		present		-	EN 295-7	
Third party identification	+		+		+		present		-	EN 295-7	
Manufacturer's designation	+		+		+		present		-	EN 295-7	
Production date	7/04/2004		13/04/2004		8/04/2004		present		-	EN 295-7	
Nominal size (DN)	+		+		+		present		-	EN 295-7	
Crushing strength (FN)	+		+		+		present		-	EN 295-7	
Design jacking load	+		+		+		present		-	EN 295-7	
Finishing date	23/11/2004		23/11/2004		23/11/2004		present		-	EN 295-7	
Invert marking	+		+		+		present		-	GUP	
Quality mark	+		+		+		present		-	GUP	
Appearance	+		+		+		impeccable		-	EN 295-7	
<b>Dimensions</b>											
d <sub>3</sub> Outside ground diameter	722,5		722,5		722,5		722,0	723,0	mm	WN 295-7	
e <sub>gesamt</sub> Ground length	69,0	69,5	69,0	69,5	69,5	70,0	68,0	72,0			
b <sub>Spr</sub> Tension ring width	30,0	30,0	30,0	30,0	30,1	30,2	29,5	30,5			
d <sub>k</sub> Sleeve outside diameter	731,0	731,0	731,0	731,0	-	-	730,0	732,0	mm	WN 295-7	
b <sub>k</sub> Sleeve width	142,0	142,0	142,0	142,0	-	-	142,0	144,0	mm	WN 295-7	
s <sub>k</sub> Sleeve wall thickness	2,9	3,0	2,9	3,0	-	-	2,8	3,2			
D <sub>z</sub> Wall thickness packing ring	19,0	19,0	19,0	19,0	-	-	18,0	20,0	mm	WN 295-7	
d <sub>za</sub> Outside diameter packing ring	714,0	714,0	713,0	714,0	-	-	712,0	714,0	mm		
d <sub>zi</sub> Inside diameter packing ring	615,0	615,0	615,0	615,0	-	-	614,0	616,0	mm		
a <sub>Sp</sub>	59,5		60,5		60,5				mm		
a <sub>Kupl</sub>	60,0		60,5		60,5				mm		
Δa Invert conformity			1				max. 2		mm	WN 295-7	
<b>Function</b>											
<b>Water tightness</b>	Spigot 24 in Socket 25						<b>Pressure</b>				
Without external load			tight				5 kPa			EN 295-7	
			tight				50 kPa			EN 295-7	
Under angular deflection						<b>Pressure</b>	<b>Deflection</b>				
			tight			5 kPa	20	mm/m		EN 295-7	
			tight			50 kPa	20	mm/m		EN 295-7	
Shear load with supported sleeve						<b>Pressure</b>	<b>Shear load</b>				
			18,0 kN tight			5 kPa	15	kN		EN 295-7	
			18,0 kN tight			50 kPa	15	kN		EN 295-7	
Shear load						<b>Pressure</b>	<b>Shear load</b>				
with vertical movement restriction of 6 mm			18,0 kN tight (pipe does not move 6 mm)			5 kPa	15	kN		EN 295-7	
			18,0 kN tight (pipe does not move 6 mm)			50 kPa	15	kN		EN 295-7	

Sleeve dimension as assembled

Underlined values do not meet the requirement

The watertightness at 2,4 bar has been proved

Testing institute

