

# 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, 15-11-2004

## Test report

Nr. 19016

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 0
Order Nr.	GD2 - 75/04
Sampling date	26-10-2004
Sample entry date	28-10-2004
Samples	4 Jacking pipes EN295-7-DN 500 FN 140 - 8.3 with stainless steel sleeve Typ 1
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 **19016** dated **15-11-2004**

Samples: 4 Jacking pipes EN295-7-DN 500 FN 140 - 8.3 with stainless steel sleeve Typ 1

	Sample Nr.	349		350		351		Requirement		Einheit	Nach	
Kennzeichnung	EN 295-7	+		+		+		present		-	EN 295-7	
	Third party identification	+		+		+		present		-	EN 295-7	
	Manufacturer's designation	+		+		+		present		-	EN 295-7	
	Production date	8-7-2004		16-2-2004		16-2-2004		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	25-8-2004		17-3-2004		17-3-2004		present		-	EN 295-7	
	Invert marking	+		-		-		present		-	GUP	
	Quality mark	+		*		*		present		-	GUP	
	Appearance	+		+		+		impeccable		-	EN 295-7	
		min	max	min	max	min	max	min	max			
Dimensions	d <sub>3</sub> Outside ground diameter	619,5	619,5	619,5	619,5	619,5	619,5	619,0	620,0	mm	WN 295-7	
	d <sub>k</sub> Sleeve outside diameter	639,5	640,0	639,5	640,0	639,5	640,0	639,0	641,0	mm	WN 295-7	
	b <sub>k</sub> Sleeve width	126,0	127,0	126,0	127,0	125,0	127,0	125,0	129,0	mm	WN 295-7	
	d <sub>zi</sub> Inside diameter integrated packing ring	513,0	513,5	513,5	514,0	513,5	513,5	512,0	514,0	mm	WN 295-7	
	d <sub>15</sub> Internal diameter jointing element	622,0	623,0	622,0	623,0	622,0	623,0	-	-	mm		
	D <sub>z</sub> Wall thickness packing ring	17,0	17,0	17,0	17,0	17,0	17,0	15,0	17,0	mm	WN 295-7	
	a <sub>Sp</sub>	59,0		61,5		60,5				mm		
	a <sub>Kupl</sub>	62,0		61,5		60,5				mm		
Δa Invert conformity			( Nr.349 / 350 ) 2,5					max. 5		mm	WN 295-7	
Function	<b>Water tightness</b>			Spigot 78 in Socket 79				<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>		
				15,0 kN tight				5 kPa		12,5	kN	EN 295-7
				15,0 kN tight				50 kPa		12,5	kN	EN 295-7
	Shear load							<b>Pressure</b>		<b>Shear load</b>		
with vertical movement restriction of 6 mm			15,0 kN tight (pipe does not move 6 mm)				5 kPa		12,5	kN	EN 295-7	
			15,0 kN tight (pipe does not move 6 mm)				50 kPa		12,5	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