

Quality Association of the Vitrified Clay Pipe Industry

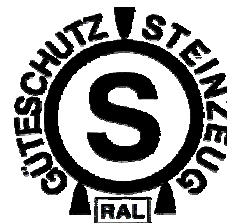
Testing, supervising and certificating authority

Steinzeug Abwassersysteme GmbH
Werk STG-3
Alfred-Nobel-Strasse 32

50226 Frechen

Notified body for the certification of

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



Köln, 29-11-2004

Test report

Nr. 19015 a

Subject	Third party certification
Ordered by	Quality Association of the Vitrified Clay Pipe Industry.
Order	Testing of jacking pipes
Manufacturer	Steinzeug Abwassersysteme GmbH., Werk STG-3
Order Nr.	GR2 - 76/04
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 routine testing has been performed completely. The results can be found in the monthly evaluation sheets.

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 **19015** dated 29-11-2004

Samples: 4 Jacking pipes EN295-7 DN 500 - FN 140 - 8,3 with stainless steel sleeve Typ 1

	Sample Nr.	349		350		351		Requirement	Unit	Acc. To	
Marking	EN 295-7	+		+		+		present	-	EN 295 - 7	
	Third party identification	+		+		+		present	-	EN 295 - 7	
	Manufacturer's designation	+		+		+		present	-	EN 295 - 7	
	Production date	08-07-04		06-07-04		03-07-04		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	25-08-04		25-08-04		25-08-04		present	-	WN 295 - 7	
	Invert marking	+		+		+		present	-	GUP	
	Quality mark	+		+		+		present	-	GUP	
Appearance	+		+		+		impeccable	-	GUP		
Glaze colour	+		+		+		RAL 8007, 8011	-	WN 295 - 1		
		min	max	min	max	min	max	min	max		
Dimension spigot end	e ground length	56,0	56,0	55,5	55,5	56,0	56,0	55,0	58,0	mm	WN 295 - 7
	d ₁ bore	497,0	500,0	496,0	500,0	499,0	501,0	492,5	507,5	mm	WN 295 - 7
	d ₃ outside ground diameter	619,5	619,5	619,5	619,5	619,5	619,5	619,0	620,0	mm	WN 295 - 7
	d _M outside diameter	653,0	655,0	652,0	655,0	655,0	657,0	646,0	661,0	mm	WN 295 - 7
	c	16	17	15	18	17	19	min	11	mm	WN 295 - 7
	Overall wall thickness	77,5	77,5	77,0	77,0	77,5	78,0			mm	
	Squareness of end	0		0		0		max	1	mm	EN 295 - 7
	Dimension socket end	e ground length	56,5	56,5	56,5	56,5	56,5	56,5	55,0	58,0	mm
d ₁ bore		496,0	497,0	496,0	497,0	497,0	498,0	492,5	507,5	mm	WN 295 - 7
d ₃ outside ground diameter		619,3	619,3	619,3	619,3	619,2	619,2	619,0	620,0	mm	WN 295 - 7
d _M outside diameter		652,0	653,0	651,0	653,0	654,0	655,0	646,0	661,0	mm	WN 295 - 7
c		14	16	13	16	13,5	17	min	11	mm	WN 295 - 7
Chamfer		11,0	11,0	11,0	11,0	11,0	11,0	10,0	13,0	mm	H.A.
Overall wall thickness		77,5	77,5	77,0	77,0	77,5	78,0			mm	
Squareness of end		0		0		0		max	1	mm	EN 295 - 7
l ₁ Length (average)	1985		1985		1985		1983	1985	mm	WN 295 - 7	
f deviation from straightness	1,0		1,0		1,0		max	5,0	mm	EN 295 - 7	
Water tightness	tight		tight		tight		tight		-	EN 295 - 7	
W ₁₅ Water addition	0,001		0,001		0,001		max	0,04	l/m ² /15'	GUP	
F _B Strength	344,9		363,7		434,5				kN		
F _N Crushing strength	173,8		183,2		218,9		min	140,0	kN/m	WN 295 - 7	
RBZ Bending tensile strength	16,3		17,4		20,5		min	14,0	N/mm ²	WN 295 - 7	

H.A. : Manufacturer's declaration

Underlined values do not meet the requirement

Testing Institute