



CERTIFICATION OF

VITRIFIED CLAY PIPE SYSTEMS

BENOR

This technical data sheet was printed on 2/04/2025.
The validity of this technical data sheet can be checked on
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TECHNICAL DATA SHEET

QUICK CODE	VERSION	VALIDITY
0001/0002	6.1 - 28/05/2024	CERTIFIED
CERTIFICATE HOLDER	PRODUCTION UNIT	CERTIFICATE NUMBER
STEINZEUG-KERAMO 'WERK 2' Paalsteenstraat 36 BE-3500 Hasselt +32 11 21 02 32 info@steinzeug-keramo.com	STEINZEUG-KERAMO 'WERK 2' Paalsteenstraat 36 BE-3500 Hasselt +32 11 21 02 32 info@steinzeug-keramo.com	BENOR 001/95 Vitrified clay pipe systems

PRODUCT

OFFICIAL NAME	COMMERCIAL NAME
PIPES, FITTINGS AND JOINTS	VITRIFIED CLAY T-PIPES

CAPTION ON THE PRODUCT

BENOR
Production date
Production unit
EN 295-1
PTV 895-1
Nominal size (DN...)
Joint system
Crushing strength FN in kN/m
Angle

APPLICATION

- | | | |
|--|---|---|
| ☒ CCT/TB 2015 | ☒ PTV 895-1 (3.0) | ☒ EN 295-1 (2013) |
| ☒ CCT Qualiroutes (2017) | | |
| ☒ SB 250 - versie 4.1 | | |
| ☒ CCT Qualiroutes (2021) | | |
| ☒ SB 250 - versie 4.1 + errata | | |

This product was not checked according to the crossed-out reference documents or does not comply with them.

Use: Drains and sewers.

EXPLANATIONS (THIS DOES NOT COME UNDER SUPERVISION IN THE CONTEXT OF BENOR CERTIFICATION)

ATTENTION POINTS - TO BE CHECKED BY CUSTOMER (NOT LIMITED)

- * Is there a delivery note for each delivery?
- * Is there reference to the technical data sheet on the delivery document?
- * Does the technical data sheet code mentioned on the delivery note correspond with the code mentioned on the product?
- * Does the product meet the requirements from the tender?

FORM OF DELIVERY

EXTRA INFORMATION

- * In case vulcanized rubber sealing elements are supplied as separate components, they should be marked with reference to PTV 8681-1 and the classification for high chemical resistance.
- * Coupling materials such as polypropylene sleeve couplings should be marked with reference to PTV 895-1.
- * The KeraMat Lubricant shall be used for all vitrified clay joint systems.
- * The conformity of the rubber components according to PTV 895-1 and EN 681-1 is demonstrated by an equivalence procedure, which is part of the BENOR certification of the vitrified clay product.

Contact at

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PRODUCT CHARACTERISTICS

GENERAL REQUIREMENTS	ACCORDING	UNIT	VALUE	MIN	MAX
Water absorption	PTV 895-1, Clause 3.4.2	%	-	-	6
Appearance	PTV 895-1, Clause 3.4.3		Glazed	-	-
DIMENSIONAL REQUIREMENTS	ACCORDING	UNIT	VALUE	MIN	MAX
Internal diameter (*)	PTV 895-1, Clause 3.4.4	mm	See drawing	-	-
Length (*)	PTV 895-1, Clause 3.4.5	m	See drawing	-	-
Squareness of ends (*)	PTV 895-1, Clause 3.4.6	mm	See drawing	-	-
Deviation from straightness (*)	PTV 895-1, Clause 3.4.7	mm/m	See drawing	-	-
Branch angle of junctions (*)	PTV 895-1, Clause 3.4.10	°	See drawing	-	-
OTHER REQUIREMENTS	ACCORDING	UNIT	VALUE	MIN	MAX
Bond strength of adhesive for fixing clay parts	PTV 895-1, Clause 3.4.14		-	-	-
<i>Minimum bending tensile strength of the bond</i>		N/mm ²	-	5	-
Watertightness of pipes and junctions (*)	PTV 895-1, Clause 3.4.16		Pass	-	-
Chemical resistance (*)	PTV 895-1, Clause 3.4.17	%	-	-	0.15
Abrasion resistance	PTV 895-1, Clause 3.4.19	Class	AH	-	0.25
Airtightness (*)	PTV 895-1, Clause 3.4.20		Pass	-	-
Resistance against high pressure water jetting (*)	PTV 895-1, Clause 3.4.22		Pass	-	-
REQUIREMENTS FOR JOINT ASSEMBLIES	ACCORDING	UNIT	VALUE	MIN	MAX

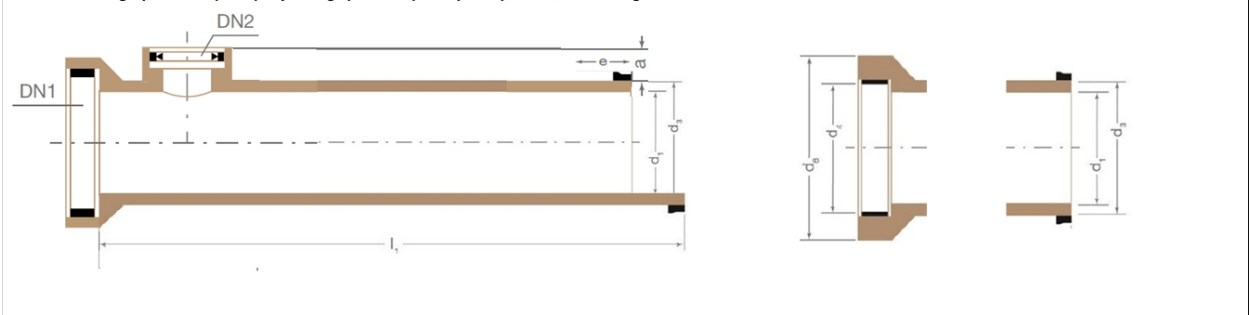
Watertightness of joint assemblies (*)	PTV 895-1, Cla use 3.5.2		-	-	-
Under deflection		mm	See drawing	-	-
Under shear load			Pass	-	-
Increased watertightness of jointed pipes at 1 bar	PTV 895-1, Cla use 3.5.3		Pass	-	-
Continuity of invert in joint assemblies (*)	PTV 895-1, Cla use 3.5.4		See drawing	-	-
Joint interchangeability of pipes and fittings (*)	PTV 895-1, Cla use 3.5.5		-	-	-
Jointing system		Class	See drawing	-	-
Chemical and physical resistance to effluent (*)	PTV 895-1, Cla use 3.5.6	Class	CH	-	-
Thermal cycling stability of joint assemblies (*)	PTV 895-1, Cla use 3.5.7		Pass	-	-
Long-term thermal stability of joint assemblies (*)	PTV 895-1, Cla use 3.5.8		Pass	-	-
Airtightness of jointed pipes	PTV 895-1, Cla use 3.5.9		Pass	-	-

(*) These product characteristics are a statement by the producer taken from its declaration of performance. The certificate holder declares that the values listed are in accordance with its declaration of performance.

TECHNICAL DRAWING

Nominale diameter		Verbindings-systeem	DN 1		DN 2		Lengte		Maximale kromheid	Haaksheid uiteinden	Bodemgelijkheid	Sterkte-klasse	Hoek-verdraaiing		
			Maten		Maten										
Nominal size		Joint system	Dimensions		Dimensions		Length		Maximum deviation from straightness	Squareness of ends	Continuity of invert in joint assemblies	Strength class	Angular deflection		
Diamètre nominal		Système d'assemblage	Dimension		Dimension		Longueur		Flèche maximale	Équerrage des extrémités	Continuité du fil d'eau dans les assemblages	Classe de résistance	Déviati on angulaire		
DN 1	DN 2		binnenkant buis inner pipe intérieur tuyaux d ₁ mm	binnenkant mof inner socket intérieur du collet d ₄ mm	binnenkant inner intérieur d ₁ mm	a max 90° ± 5° mm	I ₁		200 cm mm	250 cm mm	mm	mm	mm/m		
							cm	cm	mm	mm					
250	125	CF	250 ± 6	317,5 ± 0,5	126 ± 4	170	200		8	10	≤ 6		160/34	50	
	150				151 ± 5	180							160/200		
	200				200 ± 5	180							240/34		
	125			341,5 ± 0,5	126 ± 4	170							240/200		
	150				151 ± 5	180							160/34		
	200				200 ± 5	180							160/200		
300	125		300 ± 7	371,5 ± 0,5	126 ± 4	170					≤ 4		240/34		
	150				151 ± 5	180							160/34		
	200				200 ± 5	180							160/200		
	125			398,5 ± 0,5	126 ± 4	170							240/34		
	150				151 ± 5	180							240/200		
	200				200 ± 5	180							160/34		
350	125		348 ± 7	433,5 ± 0,5	126 ± 4	170	250		6		≤ 7		160/34	30	
	150				151 ± 5	180							160/200		
	200				200 ± 5	180							160/34		
400	125		398 ± 8	507,5 ± 0,5	126 ± 4	170	-		7,5		≤ 8		160/34		
	150				151 ± 5	180							160/200		
	200				200 ± 5	180							200/34		
	125			515,5 ± 0,5	126 ± 4	170							200/200		
	150				151 ± 5	180							120/34		
	200				200 ± 5	180							120/200		
500	125		496 ± 9	605 ± 0,5	126 ± 4	170					≤ 10	≤ 5	120/34		
	150				151 ± 5	180							120/200		
	200				200 ± 5	180							160/34		
	125			637 ± 0,5	126 ± 4	170							160/200		
	150				151 ± 5	180							95/34		
	200				200 ± 5	180							95/200		
600	125		597 ± 12	720 ± 0,5	126 ± 4	170	200	-	6	-	≤ 12	≤ 6	160/34		
	150				151 ± 5	180							120/34		
	200				200 ± 5	180							120/200		
	125			758 ± 0,5	126 ± 4	170							120/34		
	150				151 ± 5	180							120/34		
	200				200 ± 5	180							120/200		
700	125		696 ± 14	871 ± 0.5	126 ± 4	170	200	-	6	-			120/34		
	150				151 ± 5	180							120/200		
	200				200 ± 5	180							120/200		
800	125		796 ± 16	976 ± 0.5	126 ± 4	170	200	-	6	-			120/34		
	150				151 ± 5	180							120/34		
	200				200 ± 5	180							120/200		

T-buis verbindingssysteem CF / T-Pipes jointing system CF / T-Tuyaux système d'assemblage CF



ATTESTATION

The BENOR certification of the product states that there is, on the basis of a periodic external supervision, a sufficient degree of confidence that the certificate holder is in a position to continuously guarantee the conformity of the product as specified in the reference documents and TRA 95 BENOR (3.0).

This datasheet contains the performance characteristics specified by the manufacturer. The datasheet is verified by the certification body.

The certificate holder declares that the product supplier/delivered by it conforms to the datasheet as set out on the delivery note.

By making it available digitally, the producer declares that he agrees with this sheet

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Date: 22/01/2024

COPRO

Name: Koen Van Daele

Date: 22/01/2024

Signature:



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