



technical sheet

CERTIFICATION OF

VITRIFIED CLAY PIPE SYSTEMS

BENOR

This technical data sheet was printed on 29/04/2024.
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TECHNICAL DATA SHEET		
QUICK CODE	VERSION	VALIDITY
0008/0001	4.0 - 29/04/2024	CERTIFIED
CERTIFICATE HOLDER	PRODUCTION UNIT	CERTIFICATE NUMBER
STEINZEUG-KERAMO Europaallee 63 D-50226 Frechen +49 22 34 50 70 info@steinzeug-keramo.com	SAUDI VITRIFIED CLAY PIPE CO 'WERK 6' Riyadh 11442 SAU-6415 Riyadh +96 61 14 76 91 92 svcp@svcp-sa.com	BENOR 0008/95 Vitrified clay pipe systems

PRODUCT													
OFFICIAL NAME	COMMERCIAL NAME												
PIPES, FITTINGS AND JOINTS	VITRIFIED CLAY SOCKETED 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 Bending moment resistance in kNm AH / CH													
APPLICATION													
<table border="0"> <tr> <td><input checked="" type="checkbox"/> CCT/TB 2015</td> <td><input checked="" type="checkbox"/> PTV 895-1 (3.0)</td> <td><input checked="" type="checkbox"/> EN 295-1 (2013)</td> </tr> <tr> <td><input checked="" type="checkbox"/> CCT Qualiroutes (2017)</td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> CCT Qualiroutes (2021)</td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> SB 250 - versie 4.1 + errata</td> <td></td> <td></td> </tr> </table> <p>This product was not checked according to the crossed-out reference documents or does not comply with them.</p> <p>Use: Drains and sewers.</p>		<input checked="" type="checkbox"/> CCT/TB 2015	<input checked="" type="checkbox"/> PTV 895-1 (3.0)	<input checked="" type="checkbox"/> EN 295-1 (2013)	<input checked="" type="checkbox"/> CCT Qualiroutes (2017)			<input checked="" type="checkbox"/> CCT Qualiroutes (2021)			<input checked="" type="checkbox"/> SB 250 - versie 4.1 + errata		
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<input checked="" type="checkbox"/> CCT Qualiroutes (2017)													
<input checked="" type="checkbox"/> CCT Qualiroutes (2021)													
<input checked="" type="checkbox"/> SB 250 - versie 4.1 + errata													

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 832-1 and the classification for high chemical resistance.
- * 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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- * **Certificate holder:** René van Veldhoven +32 11 21 02 32 R.vanVeldhoven@steinzeug-keramo.com

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	-	-
OTHER REQUIREMENTS	ACCORDING	UNIT	VALUE	MIN	MAX
Crushing strength (*)	PTV 895-1, Clause 3.4.11	kN/m	See drawing	-	-
Bending tensile strength	PTV 895-1, Clause 3.4.12	N/mm ²	-	18	-
Bending moment resistance (*)	PTV 895-1, Clause 3.4.13	kNm	See drawing	-	-
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

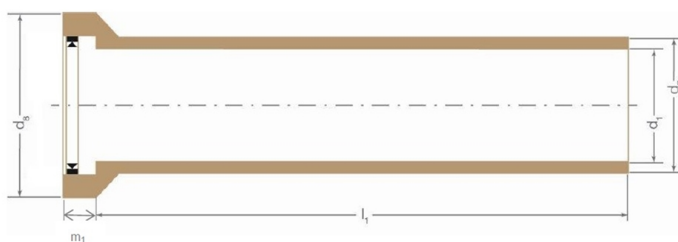
Watertightness of joint assemblies (*)	PTV 895-1, Clause 3.5.2		-	-	-
<i>Under deflection</i>		mm	See drawing	-	-
<i>Under shear load</i>			Pass	-	-
Increased watertightness of jointed pipes at 1 bar	PTV 895-1, Clause 3.5.3		Pass	-	-
Continuity of invert in joint assemblies (*)	PTV 895-1, Clause 3.5.4		See drawing	-	-
Joint interchangeability of pipes and fittings (*)	PTV 895-1, Clause 3.5.5		-	-	-
<i>Jointing system</i>		Class	See drawing	-	-
Chemical and physical resistance to effluent (*)	PTV 895-1, Clause 3.5.6	Class	CH	-	-
Thermal cycling stability of joint assemblies (*)	PTV 895-1, Clause 3.5.7		Pass	-	-
Long-term thermal stability of joint assemblies (*)	PTV 895-1, Clause 3.5.8		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	Maten			Lengte	Maximale kromheid				Haaksheid uiteinden	Bodemgelijkheid	Kruindruk-weerstand	Sterkte-klasse	Weerstand bij buigmoment	Hoek-verdraaiing			
Nominal size	Joint system	Dimensions			Length	Maximum deviation from straightness				Squareness of ends	Continuity of invert in joint assemblies	Crushing strength	Strength class	Bending moment resistance	Angular deflection			
Diamètre nominal	Système d'assemblage	Dimension			Longueur	Flèche maximale				Équerrage des extrémités	Continuité du fil d'eau dans les assemblages	Résistance à l'écrasement	Classe de résistance	Résistance au moment de flexion	Déviation angulaire			
DN		binnenkant buis inner pipe intérieur tuyaux d ₁ mm	buitenkant buis outer pipe extérieur tuyaux d ₃ mm	binnenkant mof inner socket intérieur du collet d ₄ mm	I ₁		Buis Pipe Tuyaux				GA GZ	Buis Pipe Tuyaux mm	GA GZ	mm	FN kN/m	kNm	mm/m	
					cm	cm	100 cm	125 cm	150 cm	200 cm								mm
125	F	126 ± 4	159 ± 2	-	100	125	-	5,0	6,25	-	-	-	≤ 6	-	34	-	≥ 4,0	100
150		151 ± 5	186 ± 2	-	100	150	-	4,5	-	6,75	6,75	-	-	-	-	-	≥ 5,0	-
1000	C	1000 ± 25	-	1204,7 ± 0,5	200	75	-	-	-	6	2,25	≤ 20	-	≤ 10	100	95	-	10

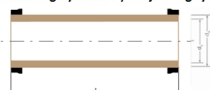
Buis verbindingssysteem F / Pipe jointing system F / Tuyaux système d'assemblage F



Buis verbindingssysteem C / Pipe jointing system C / Tuyaux système d'assemblage C



GA verbindingssysteem C / GA jointing system C / GA système d'assemblage C



GZ verbindingssysteem C / GZ jointing system C / GZ système d'assemblage C



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 (2.0), 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

Name: René van Veldhoven
Date: 26/02/2024

COPRO

Name: Koen Van Daele
Date: 29/04/2024
Signature:



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