



technical sheet

CERTIFICATION OF

VITRIFIED CLAY PIPE SYSTEMS

BENOR

This technical data sheet was printed on 9/11/2024.
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TECHNICAL DATA SHEET		
QUICK CODE	VERSION	VALIDITY
0015/0007	7.0 - 8/11/2024	CERTIFIED
CERTIFICATE HOLDER	PRODUCTION UNIT	CERTIFICATE NUMBER
STEINZEUG-KERAMO Europaallee 63 D-50226 Frechen +49 22 34 50 70 info@steinzeug-keramo.com	STEINZEUG-KERAMO 'WERK 1' Verlängerte Torgauerstrasse 1 D-06905 Bad Schmiedeberg +49 34 92 57 50 info@steinzeug-keramo.com	BENOR 015/95 Vitrified clay pipe systems

PRODUCT																
OFFICIAL NAME	COMMERCIAL NAME															
ADAPTORS, CONNECTORS AND FLEXIBLE COUPLINGS	VITRIFIED CLAY CONNECTING SOCKETS															
CAPTION ON THE PRODUCT																
BENOR Production date Production unit EN 295-4 PTV 895-4 Nominal size (DN...) Joint system																
APPLICATION																
<table border="0"> <tr> <td><input checked="" type="checkbox"/> CCT/TB 2015</td> <td><input checked="" type="checkbox"/> PTV 895-4 (3.0)</td> <td><input checked="" type="checkbox"/> EN 295-4 (2013)</td> </tr> <tr> <td><input checked="" type="checkbox"/> CCT Qualiroutes (2017)</td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> SB 250 - versie 4.1</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 895-4 (3.0)	<input checked="" type="checkbox"/> EN 295-4 (2013)	<input checked="" type="checkbox"/> CCT Qualiroutes (2017)			<input checked="" type="checkbox"/> SB 250 - versie 4.1			<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 (2021)																
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EXPLANATIONS (THIS DOES NOT COME UNDER SUPERVISION IN THE CONTEXT OF BENOR CERTIFICATION)
ATTENTION POINTS - TO BE CHECKED BY CUSTOMER (NOT LIMITED)
<ul style="list-style-type: none"> * 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

On a pallet.

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, metal banded flexible couplings and adaptors, connectors, insertable fittings and sealing rings and heatshrinkable sleeves should be marked with reference to PTV 895-4.

* The KeraMat Lubricant shall be used for all vitrified clay joint systems.

* The conformity of the rubber components according to PTV 895-4 and EN 681-1 is demonstrated by an equivalence procedure, which is part of the BENOR certification of the vitrified clay product.

Contact at

* **COPRO:** Koen Van Daele +32 2 468 00 95 koen.vandaele@copro.eu

* **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 895-4, Clause 3.4.2	%	-	-	6
Appearance	PTV 895-4, Clause 3.4.3		Glazed	-	-
DIMENSIONAL REQUIREMENTS	ACCORDING	UNIT	VALUE	MIN	MAX
Internal diameter (*)	PTV 895-4, Clause 3.4.4	mm	See drawing	-	-
Length (*)	PTV 895-4, Clause 3.4.5	mm	See drawing	-	-
OTHER REQUIREMENTS	ACCORDING	UNIT	VALUE	MIN	MAX
Tightness (*)	PTV 895-4, clause 3.4.9		-	-	-
<i>Airtightness</i>			Pass	-	-
<i>Watertightness</i>			Pass	-	-
Chemical resistance	PTV 895-4, clause 3.4.10	%	-	-	0.15
REQUIREMENTS FOR JOINT ASSEMBLIES	ACCORDING	UNIT	VALUE	MIN	MAX
Joint interchangeability (*)	PTV 895-4, Clause 3.5.2		-	-	-
<i>Jointing system</i>		Class	See drawing	-	-
Watertightness under angular deflection (*)	PTV 895-4, Clause 3.5.3	mm	Highest value of deflection	100	-
Watertightness under shear load (*)	PTV 895-4, Clause 3.5.4		Pass	-	-
Chemical and physical resistance to effluent (*)	PTV 895-4, Clause 3.5.5	Class	CH	-	-
Thermal cycling stability (*)	PTV 895-4, Clause 3.5.6		Pass	-	-
Long-term thermal stability (*)	PTV 895-4, Clause 3.5.7		Pass	-	-
Increased watertightness at 1 bar	PTV 895-4, Clause 3.5.8		Pass	-	-

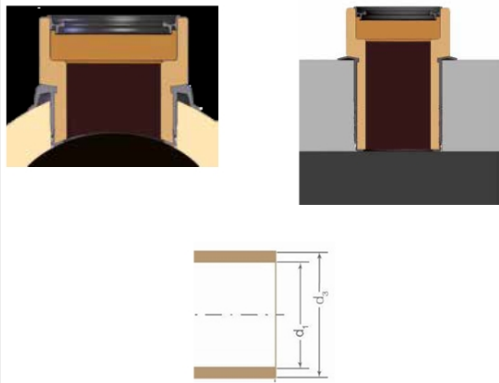
Watertightness assembly of connector and clay pipe	PTV 895-4, Clause 3.5.9		Pass	-	-
Increased watertightness at 1 bar connector + pipe	PTV 895-4, Clause 3.5.10		Pass	-	-

(*) 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	Sterkte-klasse
Nominal size	Joint system	Dimensions		Length	Strength class
Diamètre nominal	Système d'assemblage	Dimension		Longueur	Classe de résistance
DN 1		binnenkant buis inner pipe intérieur tuyaux d ₁ mm	buitenkant buis outer pipe extérieur tuyaux d ₃ mm	l ₁ mm	
150	F	151 ± 5	187 +0,5 / -0	40 ± 2,5	34
				70 ± 2,5	
				100 ± 2,5	
				120 ± 2,5	
				140 ± 2,5	
				160 ± 2,5	
200	F	200 ± 5	240,5 +0,5 / -0	70 ± 2,5	200
				100 ± 2,5	
				120 ± 2,5	
				140 ± 2,5	
				160 ± 2,5	
				180 ± 2,5	
200 ± 2,5					

Indrukstof C verbindingssysteem F / Connecting socket C jointing system F
Raccord de piquage C système d'assemblage F



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

Name: René van Veldhoven

Date: 8/11/2024

Name: Koen Van Daele

Date: 8/11/2024

Signature:



COPRO NPO - Z.1 Researchpark - Kranenberg 190 - B-1731
Zellik