



technical sheet

CERTIFICATION OF

VITRIFIED CLAY PIPE SYSTEMS

BENOR

This technical data sheet was printed on 6/06/2025.
The validity of this technical data sheet can be checked on
<http://extranet.copro.eu/>



TECHNICAL DATA SHEET

QUICK CODE	VERSION	VALIDITY
0021/0002	7.1 - 28/05/2024	CERTIFIED
CERTIFICATE HOLDER	PRODUCTION UNIT	CERTIFICATE NUMBER
EURO SWEILLEM Stiegstrasse 60 D-41379 Brüggen-Bracht +49 2 15 71 28 64 11 info@euro-sweillem.de	SWEILLEM VITRIFIED CLAY PIPES CO. 6 El-Saad Street, Khalafawi Square EG-11614 Cairo +20 2 22 06 50 97 mostafa.sweillem@sweillem.net	BENOR 021/95 Vitrified clay pipe systems

PRODUCT

OFFICIAL NAME	COMMERCIAL NAME
PIPES, FITTINGS AND JOINTS	GLAZED SHORT LENGTH GZ

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

APPLICATION

- | | | |
|--|---|---|
| ☒ SB 250 - versie 3.1 | ☒ PTV 895-1 (3.0) | ☒ EN 295-1 (2013) |
| ☒ CCT/TB 2015 | | |
| ☒ CCT Qualiroutes (2017) | | |
| ☒ 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

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 should be marked with reference to PTV 895-4

Contact at

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 * **Certificate holder:** Uwe Bormann +49 2 15 71 28 64 Uwe.bormann@euro-sweillem.de
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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	Pass	-	-
Deviation from straightness (*)	PTV 895-1, Clause 3.4.7	mm/m	Pass	-	-
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	-	-
Fatigue strength under cyclic load	PTV 895-1, Clause 3.4.15		Pass	-	-
Watertightness of pipes and junctions (*)	PTV 895-1, Clause 3.4.16		Pass	-	-
Chemical resistance (*)	PTV 895-1, Clause 3.4.17	%	-	-	0,25
Abrasion resistance	PTV 895-1, Clause 3.4.19	Class	AH	-	-
Airtightness (*)	PTV 895-1, Clause 3.4.20		Pass	-	-
Resistance against high pressure water jetting (*)	PTV 895-1, Clause 3.4.22		Pass	-	-

N SHORT LENGTH, GZ NORMAL STRENGTH

Nominal size DN (MM)	Joint (-)	Strength class TKL (-)	Crushing strength FN (KN/m)	INNER ϕ d1 $\pm$ Tolerance (mm)	OUTER ϕ d3 $\pm$ Tolerance (mm)	Socket inner ϕ d4 $\pm$ Tolerance (mm)	Joint spigot outer ϕ d7 $\pm$ Tolerance (mm)	Length l1 (m)	B.M.R (KN/m)
125	F	-	34	126 $\pm$ 4	159 $\pm$ 2	-	-	0.75	3.0
150	F	-	34	151 $\pm$ 5	186 $\pm$ 2	-	-	0.75	4.0
200	F	200 / 160	40 / 32	200 $\pm$ 5	242 $\pm$ 3	-	-	0.75	7.4
200	C	200 / 160	40 / 32	200 $\pm$ 5	242 $\pm$ 5	260 $\pm$ 0.5	263 $\pm$ 0.5	0.75	7.4
250	C	160	40	250 $\pm$ 6	299 $\pm$ 6**	317.5 $\pm$ 0.5	320 $\pm$ 0.5	0.75	-
300	C	160	48	300 $\pm$ 7	355 $\pm$ 7**	371.5 $\pm$ 0.5	374.5 $\pm$ 0.5	0.75	-
400	C	160	64	398 $\pm$ 8	486 $\pm$ 8**	507.5 $\pm$ 0.5	510.5 $\pm$ 0.5	0.75	-
500	C	120	60	496 $\pm$ 9	581 $\pm$ 9**	605.0 $\pm$ 0.5	608.0 $\pm$ 0.5	0.75	-
600	C	95	57	597 $\pm$ 12	687 $\pm$ 12**	720.0 $\pm$ 0.5	723.2 $\pm$ 0.5	0.75	-

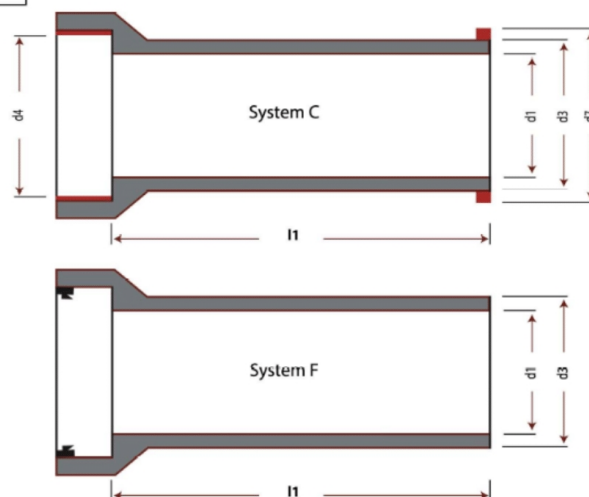
H SHORT LENGTH, GZ EXTRA STRENGTH

200	C	240	48	200 $\pm$ 5	254 $\pm$ 5**	275.0 $\pm$ 0.5	278.4 $\pm$ 0.5	0.75	8.6
250	C	240	60	250 $\pm$ 6	318 $\pm$ 6**	341.5 $\pm$ 0.5	344.9 $\pm$ 0.5	0.75	-
300	C	240	72	300 $\pm$ 7	376 $\pm$ 7**	398.5 $\pm$ 0.5	401.9 $\pm$ 0.5	0.75	-
400	C	200	80	398 $\pm$ 8	492 $\pm$ 8**	515.5 $\pm$ 0.5	518.7 $\pm$ 0.5	0.75	-
500	C	160	80	496 $\pm$ 9	609 $\pm$ 9**	637.0 $\pm$ 0.5	640.2 $\pm$ 0.5	0.75	-
600	C	160	96	597 $\pm$ 12	725 $\pm$ 12**	758.0 $\pm$ 0.5	761.6 $\pm$ 0.5	0.75	-
700	C	120	84	696 $\pm$ 14	831 $\pm$ 14**	871.0 $\pm$ 0.5	875.0 $\pm$ 0.5	0.75	-
800	C	120	96	796 $\pm$ 16	935 $\pm$ 16**	976.0 $\pm$ 0.5	979.0 $\pm$ 0.5	0.75	-

** Is not a requirement from PTV 895-1

Joint System C: d3 & d7 Measurements are not covered by PTV 895-1

Maximal deflection p. meter	
DN	Deflection mm
100 $\leq$ DN $\leq$ 200	80
200 < DN $\leq$ 500	30
500 < DN $\leq$ 800	20
DN > 800	10



Datasheet Short length, GZ | Quick Code: 0021/0002

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: Uwe Bormann

Date: 7/02/2024

COPRO

Name: Koen Van Daele

Date: 22/01/2024

Signature:



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