



technical sheet

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
0015/0003	6.3 - 8/02/2025	CERTIFIED
CERTIFICATE HOLDER	PRODUCTION UNIT	CERTIFICATE NUMBER
WIENERBERGER INFRA Europaallee 63 D-50226 Frechen +49 22 34 50 70 info@steinzeug-keramo.com	WIENERBERGER INFRA 'WERK 1' Verlängerte Torgauerstrasse 1 D-06905 Bad Schmiedeberg +49 34 92 57 50 info@steinzeug-keramo.com	BENOR 0015/95 Vitrified clay pipe systems

PRODUCT

OFFICIAL NAME	COMMERCIAL NAME
PIPES, FITTINGS AND JOINTS	VITRIFIED CLAY JUNCTIONS

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

- | | | |
|--|---|---|
| <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"/> SB 250 - versie 4.1 | | |
| <input checked="" type="checkbox"/> CCT Qualiroutes (2021) | | |
| <input checked="" type="checkbox"/> 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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 * **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	-	-
Branch angle of junctions (*)	PTV 895-1, Clause 3.4.10	°	See drawing	-	-
OTHER REQUIREMENTS	ACCORDING	UNIT	VALUE	MIN	MAX
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/AN	-	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		-	-	-
Jointing system			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	-	-
Airtightness of jointed pipes		PTV 895-1, Clause 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	Haaksheid uiteinden	Bodemgelijkheid	Sterkte-klasse	Hoek-verdraaiing
			Maten				Hoek van aftakking en maten								
Nominal size		Joint system	Dimensions				Branch angle of junctions and dimensions				Length	Squareness of ends	Continuity of invert in joint assemblies	Strength class	Angular deflection
Diamètre nominal		Système d'assemblage	Dimension				Angle des branchements et dimension				Longueur	Équerrage des extrémités	Continuité du fil d'eau dans les assemblages	Classe de résistance	Déviation angulaire
DN 1	DN 2		binnenkant buis inner pipe intérieur tuyaux d ₁ mm	buitenkant buis outer pipe extérieur tuyaux d ₃ mm	e min mm	binnenkant mof inner socket intérieur du collet d ₄ mm	binnenkant buis inner pipe intérieur tuyaux d ₁ mm	a max 45° ± 5° mm 90° ± 5° mm		binnenkant mof inner socket intérieur du collet d ₄ mm	I ₁ cm	mm	mm		mm/m
100	100	FF	100 ± 4	131 ± 1.5	70	-	100 ± 4	240	-	40	≤ 6	-	34/34	100	
125	100		126 ± 4	159 ± 2			100 ± 4	-	-						
125	125						126 ± 4	260	160						
150	100		151 ± 5	186 ± 2			100 ± 4	240	-						
125	150		200 ± 5	186 ± 2	75		126 ± 4	260	-	46					
150	125						151 ± 5	270	160						
100	150						100 ± 4	250	-						50
125	125						126 ± 4	300	-						
150	150						151 ± 5	305	170	60					
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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: 22/01/2024

COPRO

Name: Koen Van Daele

Date: 22/01/2024

Signature:



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