



technical sheet

CERTIFICATION OF

VITRIFIED CLAY PIPE SYSTEMS

BENOR

This technical data sheet was printed on 21/01/2026.
The validity of this technical data sheet can be checked on
<http://extranet.copro.eu/>



TECHNICAL DATA SHEET

| QUICK CODE | VERSION | VALIDITY |
|--|---|---|
| 0015/0001 | 8.2 - 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 SOCKETED PIPES AND GA, 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 in kNm (if applicable)

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

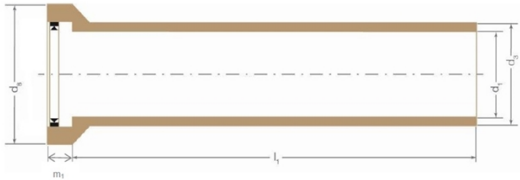
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 * **Certificate holder:** René van Veldhoven +32 11 21 02 32 rene.vanveldhoven@wienerberger.com

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 | - |
| 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 | % | - | - | 0.15 |
| Abrasion resistance | PTV 895-1, Clause 3.4.19 | Class | AH | - | 0.25 |
| Airtightness (*) | PTV 895-1, Clause 3.4.20 | | Pass | - | - |

| 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 | 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 mm | GA GZ | mm | mm | FN | | kNm | mm/m | | |
| | | | | | Buis Pipe Tuyaux cm | GA GZ cm | | kN/m | | | | | | | | |
| 125 | F | 126 ± 4 | 159 ± 2 | - | 100 | - | 5 | - | ≤ 6 | - | 34 | - | - | 100 | | |
| 150 | | 151 ± 5 | 186 ± 2 | | 100 | | 4,5 | | | | 40 | | ≥ 5 | | | |
| 200 | | 200 ± 5 | 242 ± 3 | | 125 | | 5,63 | | | | | | 200 | | - | |
| | | | | | 250 | | 11,25 | | | | | | | | ≥ 12 | |
| | C | | | | 100 | | 4 | | | | | | | | | |
| | | | | 260 ± 0,5 | 60 | 2,4 | 10 | 2,4 | ≤ 6 | ≤ 4 | | 240 | ≥ 14 | 50 | | |
| | | | 275 ± 0,5 | | | | | | | | 48 | 160 | | | | |
| | | | 317,5 ± 0,5 | | | | | | | | 40 | 160 | | | | |
| | | | 341,5 ± 0,5 | | | | | | | | 60 | 240 | | | | |
| 250 | | 250 ± 6 | | 371,5 ± 0,5 | 250 | | 7,5 | 2,25 | ≤ 8 | ≤ 5 | 48 | 160 | - | 30 | | |
| 300 | | 300 ± 7 | | 398,5 ± 0,5 | | | | | | | 72 | 240 | | | | |
| 400 | | 398 ± 8 | | 507,5 ± 0,5 | | | | | | | 64 | 160 | | | | |
| | | | | 515,5 ± 0,5 | | | | | | | 80 | 200 | | | | |
| 500 | | 496 ± 9 | | 605 ± 0,5 | 75 | | | | 7,5 | 2,25 | ≤ 10 | ≤ 6 | 60 | 120 | - | 30 |
| | | | | 637 ± 0,5 | | | | | | | | | 80 | 160 | | |
| | | | | 720 ± 0,5 | | | | | | | | | 57 | 95 | | |
| 600 | | 597 ± 12 | | 758 ± 0,5 | | | | | | | | | 96 | 160 | | |

DN 125 - DN 200 1 meter / DN 125 - DN 200 1 metre / DN 125 - DN 200 1 mètre
Buis verbindingsysteem F / Pipe jointing system F / Tuyaux système d'assemblage F



GA DN 150 - DN 200 / GA DN 150 - DN 200 / GA DN 150 - DN 200
GA verbindingsysteem F / GA jointing system F / GA système d'assemblage F



GZ DN 150 - DN 200 / GZ DN 150 - DN 200 / GZ DN 150 - DN 200
GZ verbindingsysteem F / GZ jointing system F / GZ système d'assemblage F



DN 150 1,25 meter & 2,5 meter / DN 150 1,25 metre & 2,5 metre / DN 150 1,25 mètre et 2,5 mètre
DN 200 2,5 meter / DN 200 2,5 metre / DN 200 2,5 mètre
Buis verbindingsysteem F / Pipe jointing system F / Tuyaux système d'assemblage F



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



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



GZ verbindingsysteem 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 (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: 14/08/2024

COPRO

Name: Koen Van Daele

Date: 14/08/2024

Signature:



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