

CERTIFICATION OF

VITRIFIED CLAY PIPE SYSTEMS



This technical data sheet was printed on 14/08/2024. The validity of this technical data sheet can be checked on http://extranet.copro.eu/



| TECHNICAL DATA SHEET | | | | | |
|---|--|--|--|--|--|
| QUICK CODE | VERSION | VALIDITY | | | |
| 0015/0001 | 8.0 - 14/08/2024 | 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 | | | | |
| 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 | | | | | |
| CCT Qualiroutes (2017) SB 250 - versie 4.1 CCT Qualiroutes (2021) SB 250 - versie 4.1 + errata | EN 295-1 (2013) g to the crossed-out reference documents or does not | | | | |

EXPLANATIONS (THIS DOES NOT COME UNDER SUPERVISION IN THE CONTEXT OF BENOR CERTIFICATION)

ATTENTION POINTS - TO BE CHECHED BY CUSTOMER (NOT LIMITED)

Drains and sewers.

Use:

QUICK CODE 0015/0001

- * 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

* 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

| CENEDAL DECLUDENCE: | | ACCORDING | LINUT | VALUE | MINI | 11.634 |
|---------------------------------------|-----|------------------------------|-------|-------------|----------|--------|
| GENERAL REQUIREMENTS | | ACCORDING | UNIT | VALUE | MIN | MAX |
| Water absortion | | PTV 895-1, Cla use 3.4.2 | % | - | - | 6 |
| Appearance | | PTV 895-1, Cla use 3.4.3 | | Glazed | - | - |
| DIMENSIONAL REQUIREMENTS | | ACCORDING | UNIT | VALUE | MIN | MAX |
| Internal diameter | (*) | PTV 895-1, Cla use 3.4.4 | mm | See drawing | - | - |
| Length | (*) | PTV 895-1, Cla use 3.4.5 | m | See drawing | - | - |
| Squareness of ends | (*) | PTV 895-1, Cla use 3.4.6 | mm | See drawing | - | - |
| Deviation from straightness | (*) | PTV 895-1, Cla use 3.4.7 | mm/m | See drawing | - | - |
| OTHER REQUIREMENTS | | ACCORDING | UNIT | VALUE | MIN | MAX |
| Crushing strength | (*) | PTV 895-1, Cla use 3.4.11 | kN/m | See drawing | - | - |
| Bending tensile strength | | PTV 895-1, Cla use 3.4.12 | N/mm² | - | 18 | - |
| Bending moment resistance | (*) | PTV 895-1, Cla use 3.4.13 | kNm | - | See draw | - |
| Fatigue strength under cyclic load | | PTV 895-1, Cla use 3.4.15 | | Pass | - | - |
| Watertightness of pipes and junctions | (*) | PTV 895-1, Cla use 3.4.16 | | Pass | - | - |
| Chemical resistance | (*) | PTV 895-1, Cla use 3.4.17 | % | - | - | 0.15 |
| Abrasion resistance | | PTV 895-1, Cla use 3.4.19 | Class | AH | - | 0.25 |
| Airtightness | (*) | PTV 895-1, Cla use 3.4.20 | | Pass | - | - |

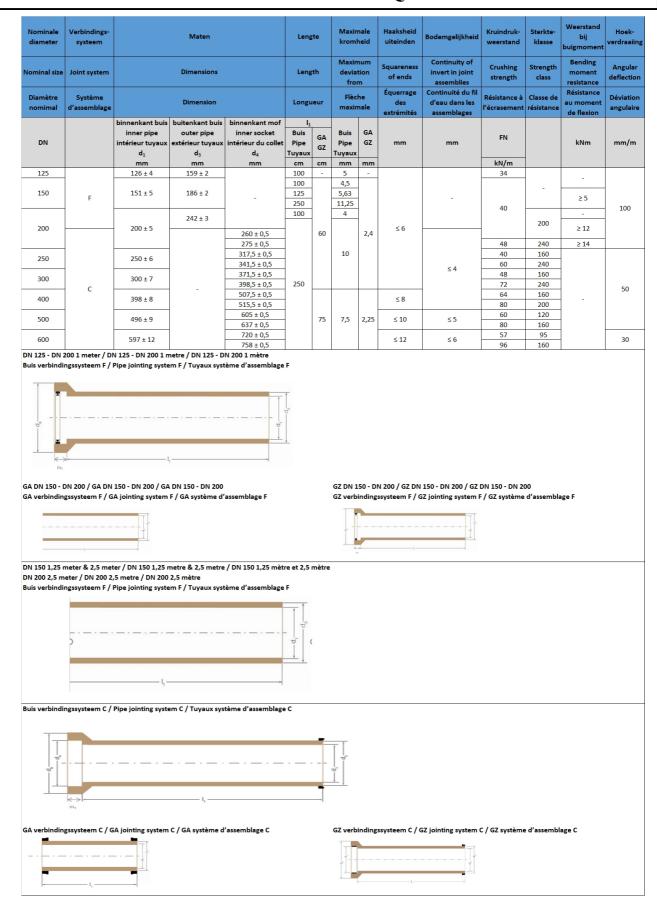
QUICK CODE 0015/0001

| Resistance against high pressure water jetting | (*) | PTV 895-1, Cla use 3.4.22 | | Pass | - | - |
|--|-----|------------------------------|-------|-------------|-----|-----|
| REQUIREMENTS FOR JOINT ASSEMBLIES | | ACCORDING | UNIT | VALUE | MIN | MAX |
| Watertightness of joint assemblies | (*) | PTV 895-1, Cla use 3.5.2 | | - | - | - |
| Under deflection | | | mm | See drawing | - | - |
| Under shear load | | | | Pass | - | - |
| Increased watertightness of jointed pipes at 1 bar | | PTV 895-1, Cla use 3.5.3 | | Pass | - | - |
| Continuity of invert in joint assemblies | (*) | PTV 895-1, Cla use 3.5.4 | | See drawing | - | - |
| Joint interchangeability of pipes and fittings | (*) | PTV 895-1, Cla use 3.5.5 | | See drawing | - | - |
| Jointing system | | | Class | See drawing | - | - |
| Chemical and physical resistance to effluent | (*) | PTV 895-1, Cla use 3.5.6 | Class | СН | - | - |
| Thermal cycling stability of joint assemblies | (*) | PTV 895-1, Cla use 3.5.7 | | Pass | - | - |
| Long-term thermal stability of joint assemblies | (*) | PTV 895-1, Cla use 3.5.8 | | Pass | - | - |
| Airtightness of jointed pipes | | PTV 895-1, Cla use 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

QUICK CODE 0015/0001



QUICK CODE 0015/0001

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: 14/08/2024

COPRO

Name: Koen Van Daele Date: 14/08/2024

Signature:

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

Zellik