# **QUICK CODE 0015/0004**

COPRO

technical sheet

## **CERTIFICATION OF**

# VITRIFIED CLAY PIPE SYSTEMS

This technical data sheet was printed on 29/04/2024. The validity of this technical data sheet can be checked on http://extranet.copro.eu/



BENOR

		VERSION		VALIDITY
0015/000 <sup>,</sup>	4	6.0 - 22/01/2	2024	CERTIFIED
CERTIFICATE H	HOLDER	PRODUCTION UNIT	r	CERTIFICATE NUMBER
STEINZEUG-KE Europaallee 63 D-50226 Frech +49 22 34 50 7 info@steinzeu	3 nen	STEINZEUG-KERAN Verlängerte Torga D-06905 Bad Schm +49 34 92 57 50 <u>info@steinzeug-ke</u>	uerstrasse 1 liedeberg	BENOR 015/95 Vitrified clay pipe systems
PRODUCT	F		COMMERCIAL NAME	
	└ ITTINGS AND J	OINTS	VITRIFIED C	LAY BENDS
CAPTION ON T	THE PRODUCT		1	
Production uni EN 295-1 PTV 895-1 Nominal size ( Joint system Crushing stren	it			
Production dat Production uni EN 295-1 PTV 895-1 Nominal size ( Joint system Crushing stren Angle APPLICATION	it (DN)			
Production uni EN 295-1 PTV 895-1 Nominal size ( Joint system Crushing stren Angle	it (DN) agth FN in kN/m CCT/TB 2015 CCT Qualiroute SB 250 - versie CCT Qualiroute SB 250 - versie SB 250 - versie	es (2017) 4.1 es (2021) 4.1 + errata	TV 895-1 (3.0) g to the crossed-out r	EN 295-1 (2013) reference documents or does not

# **QUICK CODE 0015/0004**

- \* 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

#### **PRODUCT CHARACTERISTICS** ACCORDING UNIT VALUE MIN MAX **GENERAL REQUIREMENTS** Water absortion PTV 895-1, Cla % 6 use 3.4.2 PTV 895-1, Cla Glazed Appearance \_ use 3.4.3 ACCORDING DIMENSIONAL REQUIREMENTS UNIT VALUE MIN MAX PTV 895-1, Cla Internal diameter mm See drawing (\*) use 3.4.4 Length (\*) PTV 895-1, Cla m See drawing \_ use 3.4.5 PTV 895-1, Cla Angle of curvature and radius of (\*) See drawning bends use 3.4.9 OTHER REOUIREMENTS ACCORDING UNIT VALUE MIN MAX Chemical resistance (\*) PTV 895-1, Cla % 0,15 use 3.4.17 Class PTV 895-1, Cla AH 0,25 Abrasion resistance use 3.4.19 PTV 895-1, Cla Pass Airtightness (\*) \_ use 3.4.20 **Tightness of fittings** (\*) PTV 895-1, Cla use 3.4.21 Airtightness Pass Pass Watertightness \_ -(\*) PTV 895-1, Cla Resistance against high pressure Pass use 3.4.22 water jetting **REQUIREMENTS FOR JOINT ASSEMBLIES** UNIT VALUE ACCORDING MIN MAX PTV 895-1, Cla Watertightness of joint assemblies (\*) use 3.5.2 Under deflection mm see drawing Under shear load Pass

# **QUICK CODE 0015/0004**

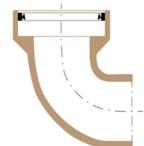
Increased watertightness of jointed pipes at 1 bar		PTV 895-1, Cla use 3.5.3		Pass	-	-
Continuity of invert in joint assemblies	(*)	PTV 895-1, Cla use 3.5.4		See drawing	-	-
Joint interchangeability of pipes and fittings	(*)	PTV 895-1, Cla use 3.5.5		-	-	-
Jointing system			Class	See drawing	-	-
Chemical 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

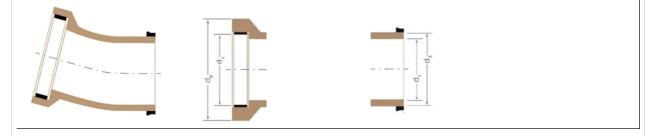
Nominale diameter	Verbindings- systeem		Maten			Kromn	-	k, radius bochten	en lengte	Bodemgelijkheid	Sterkte- klasse	Hoek- verdraai
Nominal size	Joint system		Dimensior	15		Angle of		re, radius bends	and length	Continuity of invert in joint assemblies	Strength class	Angula deflectio
Diamètre nomimal	Système d'assemblag		Dimensio	n		Courbu		on et lon oudes	gueur des	Continuité du fil d'eau dans les	Classe de résistanc	
DN		binnenkant buis inner pipe intérieur tuyaux d <sub>1</sub>	outer pipe extérieur tuyaux		binnenkant mof inner socket intérieur du collet d4	15°±3°	30° ± 4°	45°±5°	90° ± 5°	mm		mm/m
		mm	mm	mm	mm	mm	mm	mm	mm			
100		100 ± 4	131 ± 1.5	70			250 ± 25		285 ± 25			
125	F	126 ± 4	159 ± 2	70			230 ± 23		290 ± 25	-	34	
150		151±5	186 ± 2	75	-		$260 \pm 25$		295 ± 25			100
200		200 ± 5	242±3		260 ± 0,5 275 ± 0,5		270 ± 25		325 ± 25		160 200 240	100
		250 ± 6	-	85	317,5±0,5		350 ± 25		-	≤4	160 240	
250	С	20020			341,5 ± 0,5	1					240	50

Bochten verbindingssysteem F / Bends jointing system F / Coudes système d'assemblage F





Bochten verbindingssysteem C / Bends jointing system C / Coudes système d'assemblage C



# **QUICK CODE 0015/0004**

Nominale diameter	Verbindings- systeem		Maten			bo	ochten	n lengte van	Bodemgelijkheid		Hoek- verdraaii
Nominal size	Joint system		Dimension	15	Angle o		re, radius bends	and length	Continuity of invert in joint assemblies	Strength class	Angula deflectio
Diamètre nomimal	Système d'assemblage	Dimension					yon et lon oudes	gueur des	Continuité du fil d'eau dans les assemblages	Classe de résistance	Déviation angulaire
DN		binnenkant buis inner pipe intérieur tuyaux d <sub>1</sub>	buitenkant buis outer pipe extérieur tuyaux d <sub>3</sub>	e min	15°±3°	30° ± 4°	45° ± 5°	90°±5°	mm		mm/n
		mm	mm	mm	mm	mm	mm	mm			
150	F	151 ± 5	100.0			0.45					
ochten verb			186 ± 2 g system F / Coud	75 les système d'assemblage	275 ± 25 F	315	± 25	415 ± 25	-	34	100

## 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 (2.0), 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: Date: René van Veldhoven 22/01/2024

### COPRO

Name: Date: Signature: Koen Van Daele 22/01/2024

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