

**CERTIFICATION OF** 

### VITRIFIED CLAY PIPE SYSTEMS



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TECHNICAL DATA SHEET		
QUICK CODE	VERSION	VALIDITY
0001/0009	6.0 - 22/01/2024	CERTIFIED
CERTIFICATE HOLDER	PRODUCTION UNIT	CERTIFICATE NUMBER
STEINZEUG-KERAMO 'WERK 2' Paalsteenstraat 36 BE-3500 Hasselt +32 11 21 02 32 info@steinzeug-keramo.com	STEINZEUG-KERAMO 'WERK 2' Paalsteenstraat 36 BE-3500 Hasselt +32 11 21 02 32 info@steinzeug-keramo.com	BENOR 001/95 Vitrified clay pipe systems

PRODUCT	
OFFICIAL NAME	COMMERCIAL NAME
METAL BANDED FLEXIBLE COUPLINGS	KERAMAT FLEXIBLE COUPLING

#### CAPTION ON THE PRODUCT

- \* BENOR + PTV 895-4
- \* Nominal size
- \* Rubber type
- \* Manufacturer's identification
- \* Type of application (WC)
- \* Hardness class
- \* Production date or production period

#### **APPLICATION**

CCT/TB 2015

PTV 895-4 (3.0)

**EN 295-4 (2013)** 

CCT Qualiroutes (2017)

SB 250 - versie 4.1

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 CHECHED 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 product meet the requirements from the tender?

### FORM OF DELIVERY

## TECHNICAL DATA SHEET

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Individual pieces

#### EXTRA INFORMATION

Type of coupling: type 2A & 2B

The conformity of the rubber components according to PTV 895-4 and EN 681-1 is demonstrated by an equivalence procedure, which is part of the BENOR certification of the vitrified clay product.

The Keramat Lubricant shall be used.

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					
GENERAL REQUIREMENTS	VOLGENS	EENHEID	VALUE	MIN	MAX
Appearance			Pass	-	-
PERFORMANCE REQUIREMENTS FOR JOINT ASSEMBLIES	VOLGENS	EENHEID	VALUE	MIN	MAX
Watertightness under angular deflection	PTV 895-4, Cla use 3.5.3		See drawing	-	-
Watertightness under shear load	PTV 895-4, Cla use 3.5.4		Pass	-	-
Chemical and physical resistance to effluent	PTV 895-4, Cla use 3.5.5		СН	-	-
Thermal cycling stability	PTV 895-4, Cla use 3.5.6		Pass	-	-
Long-term thermal stability	PTV 895-4, Cla use 3.5.7		Pass	-	-
Increased watertightness at 1 bar	PTV 895-4, Cla use 3.5.8		Pass	-	-
PROPERTIES OF THE COMPONENTS	VOLGENS	EENHEID	VALUE	MIN	MAX
Rubber component			-	-	-
All characteristics (bushes and bodies)	PTV 832-1		Conforming	-	-
Dimensional tolerances	ISO 3302-1		E3/M3	-	-
Stainless steel component			-	-	-
Tension band strength			Pass	-	-
Steel grading			Class 1.4301	-	-
Dimensions			See drawing	-	-

### TECHNICAL DRAWING

# TECHNICAL DATA SHEET

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Product naam	Spanbereik (uitwendig diameter buis)		Maten					Hoek- verdraaiing
Product name	Clamping range (external diameter pipe)		Dimensions					Angular deflection
Nom du produit	Plage de serrage (diamètre extérieur tuyaux)		Dimension					Déviation angulaire
		breedte	dikte onder spanband	breedte shear band	dikte shear band	breedte spanband	dikte spanband	
Typ 2A		width	thickness under tension band	width of shear band	thickness of shear band	width of tension band	thickness of tension band	mm/m
тур 24		largeur	epaisseur sous la bande de tension	largeur du renfort contre le cisaillement	epaisseur du renfort contre le cisaillement	Largeur de la bande de tension	epaisseur de la bande de tension	
		mm	mm	mm	mm	mm	mm	
Manchette.Basic (DN 100 N)	120 - 135							
Manchette.Basic (DN 125 N)	150 - 165	102	3,4	46,5	0.4	13,5	0.6	100
Manchette.Basic (DN 150 N)	175 - 190	102	3,4	40,5	0,4	13,3	0,0	100

Product naam	Spanbereik (uitwendig diameter buis)				Maten			Hoek- verdraaiing
Product name	Clamping range (external diameter pipe)		Dimension Dimension					
Nom du produit	Plage de serrage (diamètre extérieur tuyaux)							
		breedte	dikte onder spanband	breedte shear band	dikte shear band	breedte spanband	dikte spanband	
Turn 2P		width	thickness under tension band	width of shear band	thickness of shear band	width of tension band	thickness of tension band	/
Тур 2В		largeur	epaisseur sous la bande de tension	largeur du renfort contre le cisaillement	epaisseur du renfort contre le cisaillement	Largeur de la bande de tension	epaisseur de la bande de tension	mm/m
		mm	mm	mm	mm	mm	mm	
Manchette.Basic (DN 100 N)	120 - 137	1	0 7,7	68,5	0,36	13,5	0,6	100
Manchette.Basic (DN 125 N)	140 - 165	-						
Manchette.Basic (DN 150 N)	175 - 200	150		78			0,65	
Manchette.Basic (SON 190)	190 - 215							
Manchette Basic (SON 200)	200 - 225 225 - 250							
Manchette.Basic (DN 200 N) Manchette.Basic (DN 200 H)	245 - 275	-						
Manchette.Basic (SON 265)	265 - 290	1						
Manchette.Basic (DN 250 N)	285 - 310							
Manchette.Basic (SON 295)	295 - 320	1						
Manchette.Basic (DN 250 H)	305 - 335	1						
Manchette.Basic (SON 315)	315 - 345	1						
Manchette.Basic (DN 300 N)	335 - 360	1						
Manchette.Basic (DN 300 H)	355 - 385	1						
Manchette.Basic (SON 385)	385 - 410							
Manchette.Basic (DN 350 N)	400 - 425					15,5		
Manchette.Basic (SON 405)	405 - 430	]						
Manchette.Basic (DN 350 H)	420 - 445	185	9,2	97	0,75			50
Manchette.Basic (SON 435)	435 - 465	103	3,2	<i>31</i>	0,73			
Manchette.Basic (DN 400 N)	460 - 490							
Manchette.Basic (DN 400 H)	480 - 510	_					0,75	
Manchette.Basic (SON 495)	495 - 525	-						
Manchette.Basic (SON 510)	510 - 540	1						
Manchette.Basic (SON 520)	520 - 550	4						
Manchette.Basic (DN 450 H)	530 - 560	-						
Manchette.Basic (SON 555)	555 - 580	-						
Manchette.Basic (DN 500 N)	570 - 600	1						
Manchette.Basic (DN 500 H)	590 - 620							

# TECHNICAL DATA SHEET

# **QUICK CODE 0001/0009**

	Spanbereik							
Product naam	(uitwendig diameter				Maten			Hoek-
	buis)							verdraaiing
	Clamping range							
Product name	(external diameter				Dimensions			Angular deflection
	pipe)							
Nom du produit	Plage de serrage (diamètre extérieur					Déviation		
Nom au produit	tuyaux)			•	Dimension			angulaire
	tuyuun		dikte onder	breedte shear		breedte		
		breedte	spanband	band	dikte shear band	spanband	dikte spanband	
		width	thickness under	width of shear	thickness of	width of tension	thickness of	
Typ 2B		width	tension band	band	shear band	band	tension band	mm/m
1 4 5 2 5			epaisseur sous la	largeur du renfort	epaisseur du	Largeur de la	epaisseur de la	
		largeur	bande de tension	contre le	renfort contre le	bande de tension	bande de tension	
			banac ac tension	cisaillement	cisaillement	barrae de terrision	banac ac tension	
		mm	mm	mm	mm	mm	mm	
Manchette.Basic (DN 600 N)	670 - 700							
Manchette.Basic (DN 600 H)	705 - 735	_						
Manchette.Basic (DN 700 N)	775 - 805	_						
Manchette.Basic (DN 700 H)	820 - 850	_						
Manchette.Basic (DN 800 N)	885 - 915	_						
Manchette.Basic (DN 800 H)	920 - 950							
Manchette.Basic (SON 610)	610 - 640	-						
Manchette.Basic (SON630)	630 - 660	-						
Manchette.Basic (SON 650)	650 - 680	-						
Manchette.Basic (SON 685)	685 - 715	-						
Manchette.Basic (SON 730)	730 - 760	-						
Manchette.Basic (SON 750)	750 - 780	-						
Manchette.Basic (SON 800)	800 - 830	185	9,2	97	0,75	18,5	0,85	30
Manchette Basic (SON 820)	820 - 850	-						
Manchette Basic (SON 845)	845 - 875 860 - 890	+						
Manchette.Basic (SON 860)  Manchette.Basic (SON 900)	900 - 930	1						
Manchette.Basic (SON 920)	920 - 950	-						
Manchette.Basic (SON 945)	945 - 975	1						
Manchette.Basic (SON 970)	970 - 999	1						
Manchette.Basic (SON 1000)	1000 - 1099	1						
Manchette.Basic (DN 900 H)	1060 - 1090	1						
Manchette.Basic (SON 1100)	1100 - 1199	1						
Manchette.Basic (1165)	1145 - 1175	1						
Manchette.Basic (SON 1200)	1200 - 1299	1						
Manchette.Basic (DN 1000 H)	1247 - 1277	1						

Product naam	Spanbereik (uitwendig diameter buis)		Maten vo					
Product name	Clamping range (external diameter pipe)		Dimensions					
Nom du produit	Plage de serrage (diamètre extérieur tuyaux)		Dimension					
Typ 2B		breedte	dikte onder spanband	breedte shear band	dikte shear band	breedte spanband	dikte spanband	
		width	thickness under tension band	width of shear band	thickness of shear band	width of tension band	thickness of tension band	mm/m
		largeur	epaisseur sous la bande de tension	largeur du renfort contre le cisaillement	epaisseur du renfort contre le cisaillement	Largeur de la bande de tension	epaisseur de la bande de tension	mnıyııı
		mm	mm	mm	mm	mm	mm	
Manchette.Basic (SON 1300)	1300 - 1399							
Manchette.Basic (SON 1400)	1400 - 1499			97	0,75	18,5		
Manchette.Basic (DN 1200 H)	1430 - 1470							
Manchette.Basic (SON 1500)	1500 - 1599							
Manchette.Basic (SON 1600)	1600 - 1699	185	9,2				0.85	30
Manchette.Basic (DN 1400 H)	1600 - 1630	103	5,2				0,63	30
Manchette.Basic (SON 1700)	1700 - 1799							
		.						
Manchette.Basic (SON 1800)	1800 - 1899							
Manchette.Basic (SON 1800) Manchette.Basic (SON 1900)	1800 - 1899 1900 - 1999							
Manchette.Basic (SON 1900)	1900 - 1999	150	7,5	150				100
Manchette.Basic (SON 1900) Manchette.Basic (SON 2000)	1900 - 1999 2000 - 2099	150	7,5 9,5	150 185	0,8	16	0,8	100

Manchet Type 2B / Flexible coupling Type 2 B / Manchette Type 2 B







Manchette.Basi

Manchette.Basic spanband vanaf DN 600 N

Manchette.Pro

#### **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: 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