



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
<http://extranet.copro.eu/>



TECHNICAL DATA SHEET

QUICK CODE	VERSION	VALIDITY
0001/0009	6.1 - 28/05/2024	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 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 product meet the requirements from the tender?

FORM OF DELIVERY

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

TECHNICAL DRAWING	

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						Déviati on angulaire
Typ 2A		breedte	dikte onder spanband	breedte shear band	dikte shear band	breedte spanband	dikte spanband	mm/m
		width	thickness under tension band	width of shear band	thickness of shear band	width of tension band	thickness of tension band	
		largeur	épaisseur sous la bande de tension	largeur du renfort contre le cisaillement	épaisseur du renfort contre le cisaillement	Largeur de la bande de tension	épaisseur de la bande de tension	
		mm	mm	mm	mm	mm	mm	
Manchette.Basic (DN 100 N)	120 - 135	102	3,4	46,5	0,4	13,5	0,6	100
Manchette.Basic (DN 125 N)	150 - 165							
Manchette.Basic (DN 150 N)	175 - 190							
Manchette.Basic (DN 200 N)	235 - 250							

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						Déviati on angulaire		
Typ 2B		breedte	dikte onder spanband	breedte shear band	dikte shear band	breedte spanband	dikte spanband	mm/m		
		width	thickness under tension band	width of shear band	thickness of shear band	width of tension band	thickness of tension band			
		largeur	épaisseur sous la bande de tension	largeur du renfort contre le cisaillement	épaisseur du renfort contre le cisaillement	Largeur de la bande de tension	épaisseur de la bande de tension			
		mm	mm	mm	mm	mm	mm			
Manchette.Basic (DN 100 N)	120 - 137	150	7,7	68,5	0,36	13,5	0,6	100		
Manchette.Basic (DN 125 N)	140 - 165			78		15,5	0,65			
Manchette.Basic (DN 150 N)	175 - 200									
Manchette.Basic (SON 190)	190 - 215									
Manchette.Basic (SON 200)	200 - 225									
Manchette.Basic (DN 200 N)	225 - 250									
Manchette.Basic (DN 200 H)	245 - 275									
Manchette.Basic (SON 265)	265 - 290	185	9,2	97	0,75	15,5	0,75	50		
Manchette.Basic (DN 250 N)	285 - 310									
Manchette.Basic (SON 295)	295 - 320									
Manchette.Basic (DN 250 H)	305 - 335									
Manchette.Basic (SON 315)	315 - 345									
Manchette.Basic (DN 300 N)	335 - 360									
Manchette.Basic (DN 300 H)	355 - 385									
Manchette.Basic (SON 385)	385 - 410									
Manchette.Basic (DN 350 N)	400 - 425									
Manchette.Basic (SON 405)	405 - 430									
Manchette.Basic (DN 350 H)	420 - 445									
Manchette.Basic (SON 435)	435 - 465									
Manchette.Basic (DN 400 N)	460 - 490									
Manchette.Basic (DN 400 H)	480 - 510									
Manchette.Basic (SON 495)	495 - 525									
Manchette.Basic (SON 510)	510 - 540									
Manchette.Basic (SON 520)	520 - 550									
Manchette.Basic (DN 450 H)	530 - 560									
Manchette.Basic (SON 555)	555 - 580									
Manchette.Basic (DN 500 N)	570 - 600									
Manchette.Basic (DN 500 H)	590 - 620									

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						Déviatiion angulaire
Typ 2B		breedte	dikte onder spanband	breedte shear band	dikte shear band	breedte spanband	dikte spanband	mm/m
		width	thickness under tension band	width of shear band	thickness of shear band	width of tension band	thickness of tension band	
		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 600 N)	670 - 700	185	9,2	97	0,75	18,5	0,85	30
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							
Manchette.Basic (SON 820)	820 - 850							
Manchette.Basic (SON 845)	845 - 875							
Manchette.Basic (SON 860)	860 - 890							
Manchette.Basic (SON 900)	900 - 930							
Manchette.Basic (SON 920)	920 - 950							
Manchette.Basic (SON 945)	945 - 975							
Manchette.Basic (SON 970)	970 - 999							
Manchette.Basic (SON 1000)	1000 - 1099							
Manchette.Basic (DN 900 H)	1060 - 1090							
Manchette.Basic (SON 1100)	1100 - 1199							
Manchette.Basic (1165)	1145 - 1175							
Manchette.Basic (SON 1200)	1200 - 1299							
Manchette.Basic (DN 1000 H)	1247 - 1277							

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						Déviati on angulaire
Typ 2B		breedte	dikte onder spanband	breedte shear band	dikte shear band	breedte spanband	dikte spanband	mm/m
		width	thickness under tension band	width of shear band	thickness of shear band	width of tension band	thickness of tension band	
		largeur	épaisseur sous la bande de tension	largeur du renfort contre le cisaillement	épaisseur du renfort contre le cisaillement	Largeur de la bande de tension	épaisseur de la bande de tension	
		mm	mm	mm	mm	mm	mm	
Manchette.Basic (SON 1300)	1300 - 1399	185	9,2	97	0,75	18,5	0,85	30
Manchette.Basic (SON 1400)	1400 - 1499							
Manchette.Basic (DN 1200 H)	1430 - 1470							
Manchette.Basic (SON 1500)	1500 - 1599							
Manchette.Basic (SON 1600)	1600 - 1699							
Manchette.Basic (DN 1400 H)	1600 - 1630							
Manchette.Basic (SON 1700)	1700 - 1799							
Manchette.Basic (SON 1800)	1800 - 1899							
Manchette.Basic (SON 1900)	1900 - 1999							
Manchette.Basic (SON 2000)	2000 - 2099	185	9,5	185	0,8	16	0,8	50
Manchette.Pro (DN 200)	230 - 265							
Manchette.Pro (DN 250)	290 - 330							
Manchette.Pro (DN 300)	345 - 385							

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



Manchette.Basic



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 (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: 22/01/2024

COPRO

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

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