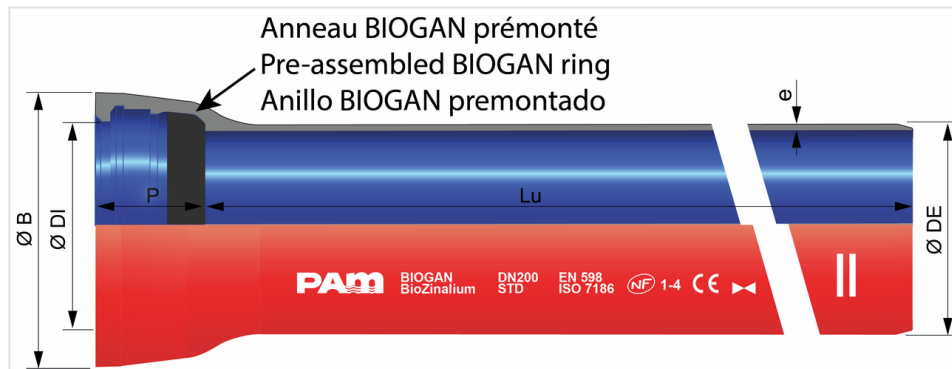


## BIOGAN BioZinalium pipes DN150 and 200 with STANDARD socket + Biogan Ring

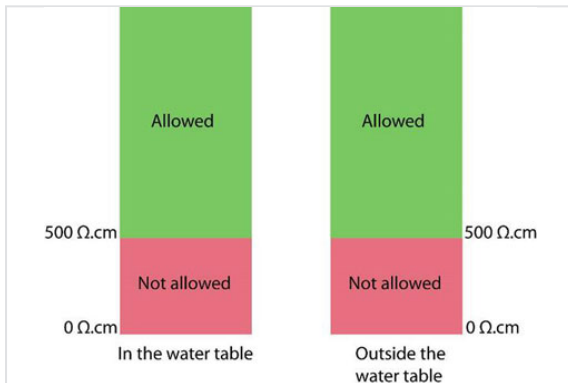


DN	Lu (m)	e nominal	ØDE (mm)	ØDI (mm)	P (mm)	ØB (mm)	Mass (kg/m)	References
150	6.00	4.5 mm	170	173.4	100.5	220.8	15.50	BSB15Q60TDR
200	6.00	4.7 mm	222	225.2	106.5	275.1	21.70	BSB20Q60TDR

### Legend:

- DN : nominal diameter
- Lu : laying length, in m
- e: thickness according to EN598 + A1 – August 2009, in mm
- ØDE : external nominal diameter of the barrel according to EN598 + A1 – August 2009, in mm
- ØDI : internal nominal diameter of the socket, in mm
- P : nominal depth of the socket, in mm
- ØB : nominal diameter of the socket, in mm
- Mass : total mass per meter (including coating and socket), determined with the nominal thickness, in kg/m
- Reference : commercial reference Saint-Gobain PAM
- Marking of the theoretical center of gravity

### Field of use:

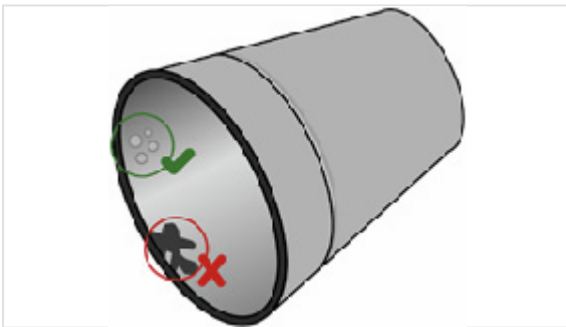


- Separate sewer system
- Application: gravity flow
- Type of effluent: domestic wastewater and rainwater
- Ecological with respect to the water table (bisphenol A Free)
- Perfectly watertight
- For effluents between pH4 and pH11 (pH12 en exceptional)
- For the soils with  $6 < \text{pH} < 9$
- Majority of the soils, except the acid peaty and polluted soils
- Is appropriate for the clay soils
- Resistivity of the soils:

### Main characteristics:

- External coating BioZinalium: a layer of zinc-aluminium alloy enriched with copper Zn85Al15 (Cu), with surface density of 400 g/m<sup>2</sup> covered with a protective red (RAL 3011) layer AQUACOAT 80 µm (mini average), without VOC and without BPA.
- Internal lining: ultramarine blue thermoplastic polymer DUCTAN – thickness 350 microns
- BIOGAN pipes are tested in accordance with the requirements of standard EN 598 + A1 – August 2009
- Pipe supplied with pre-assembled BIOGAN ring. Caution: BIOGAN Ring is not sealing ring.
- Mark NF
- CE Marking
- Declaration of performances [DoP-BIOGAN002EN](#)
- Designed in accordance with applicable regulations:
  - NF EN 476: general stipulations regarding components used in systems
  - NF EN 752: design of sewerage projects
  - NF EN 1610: acceptance of structures
  - CCTG: Fascicule 70 (sewage work)

## Pipe Cutting and repairing



### 1. Cutting

Cut the pipe with an electric or heat pipe cutting machine, for example.

- Irrespective of the cutter used, always fit a diamond disc.
- Limit the metal filings and dusts sparks inside the pipe in particular under windy and rainy conditions.

If it remains metal filings and dusts but non-through in Ductan lining, it may be seen in the visual inspection but it does not compromise the lining integrity.

#### Control internal lining aspect closed to the cut:

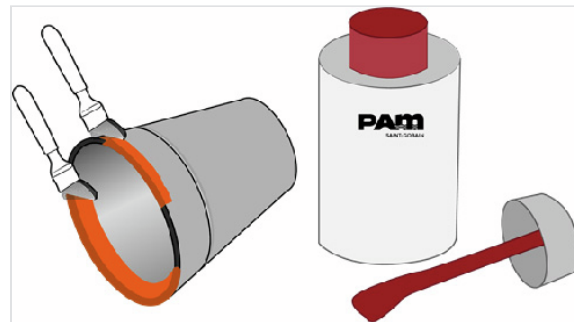
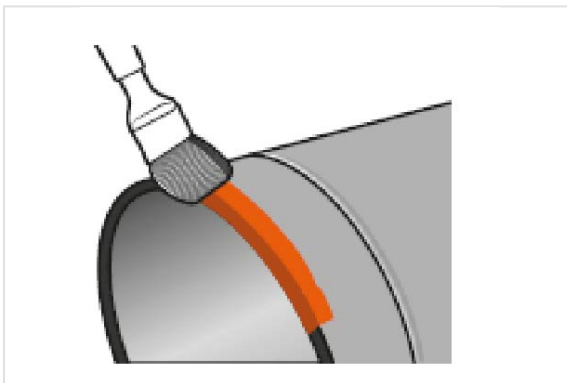
- Adhesion:
  - Remove every non adherent parts of the internal lining
  - Repair the exposed iron:
    - Defect size above 2 or 3 mm: see paragraph 4 "Internal lining repairs".
    - In any case, see paragraph 3 "Repair the exposed iron".
- Check the absence of blister: repair the blisters and through defects (exposed lining) according the paragraph 4 "Internal lining repairs"

## 2- Chamfering



Round off the angle with a file or a grinder.

## 3- Repair the exposed iron



- Repair the protective coating on the exposed face and chamfer.
- Brush to remove any dirt or loose particles.
- Dry the surfaces to be coated (in case of low temperatures or high humidity, use a gas burner).
- Shake the bucket before use so that the paint is homogeneous.
- Using the brush, apply Extrem 1 (on a clean, dry surface) thickly over existing coatings on the inside, cut and outside of the pipe.

The covering surface must be:

- at least 20 mm on the inside face to ensure continuity of protection between the Ductan® and ductile iron.
- 5 to 10 mm on the external face.

#### 4- Internal lining repairs: DUCTAN Internal Lining



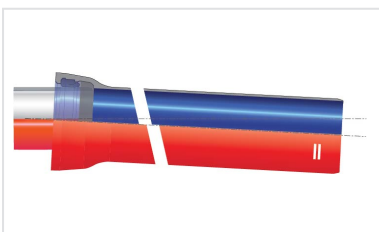
- Deburr the edges of the damaged area with a cutter.
- Sand and clean the damaged area.
- Apply the Eurokote 4820 mixture to the damaged area with a paintbrush

#### 5- Repair Products

Area		Reference	Product	Packing
Ductan Internal lining repair products	or	158255	EUROKOTE® 4820 blue	Dosis 1 kg (R 68% + D 32%)
		220815	EUROKOTE® 4820 blue	Kit of 5 syringes 50 ml
Cut	or	283230	EXTREM 1 RED	Bucket of 250 ml (0,5 kg)
		283231	EXTREM 1 RED	Bucket of 500 ml (1 kg)

#### [Laying procedure](#)

#### Linked products



Kit BIOGAN Pipe + BIOGAN Joint



BIOGAN® Ring DN150-200



Standard G Gasket (STD G) for BIOGAN pipes and fittings DN150-200



Lubricating paste -  
BLUPAM



Lubricating paste -  
NATURAL, INTEGRAL, and  
PLUVIAL ranges

*The information on this sketch is, to the best of our knowledge correct at the time of printing. However Saint-Gobain are constantly looking at ways of improving their products and services therefore reserve the right to change without prior notice, any of the data shown. Any orders placed will be subject to our Standard Conditions of Sale, available on request.*