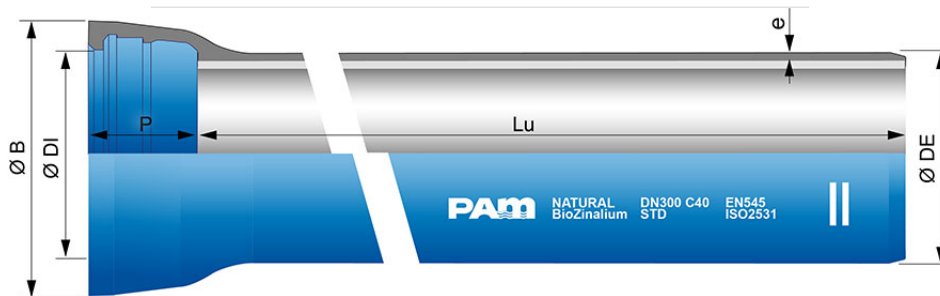


**NATURAL BioZinalium pipes DN60 to 1000 with STANDARD socket (preferred pressure classes)**



DN	Lu (m)	Class	e (mm)	ØDE (mm)	ØDI (mm)	P (mm)	ØB (mm)	Mass (kg/m)	References
60	6.00	C40	4.4	77	80.3	89.5	122.3	9.345	NSA60Q60AQ
80	6.00	C40	4.4	98	101.4	92.5	144.1	12.119	NSA80Q60AQ
100	6.00	C40	4.4	118	121.4	94.5	166.9	14.766	NSB10Q60AQ
125	6.00	C40	4.4	144	147.4	97.5	193.1	18.209	NSB12Q60AQ
150	6.00	C40	4.5	170	173.4	100.5	220.8	22.150	NSB15Q60AQ
200	6.00	C40	4.7	222	225.2	106.5	275.1	30.200	NSB20Q60AQ
250	6.00	C40	5.5	274	276.8	105.5	328.6	42.167	NSB25Q60AQ
300	6.00	C40	6.2	326	328.8	107.5	385.3	55.550	NSB30F60AQ
350	6.00	C30	6.4	378	380.9	110.5	444.5	68.833	NSB35G60AQ
400	6.00	C30	6.5	429	431.9	112.5	494.6	79.400	NSB40G60AQ
450	6.00	C30	6.9	478.6	480	115.5	546.5	93.800	NSB45G60AQ
500	6.00	C30	7.5	532	535	117.5	600.9	111.150	NSB50G60AQ
600	6.00	C30	8.7	635	638.1	132.5	712	150.566	NSB60G60AQ
700	6.96	C25	8.8	738	741.7	192	821.9	187.000	NSB70H70AQ
800	6.95	C25	9.6	842	845.8	197	935.6	229.000	NSB80H70AQ
900	6.95	C25	10.6	945	948.9	200	1043.4	279.000	NSB90H70AQ
1000	6.96	C25	11.6	1048	1052	203	1152.4	334.000	NSC10H70AQ

## Legend:

- DN: nominal diameter
- Lu: laying length, in m
- Class: pressure class according to EN 545 and ISO 2531
- e: nominal thickness according to ISO 2531, in mm
- ØDE: external nominal diameter of the barrel according to EN 545 and ISO 2531, 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 metre (including cement coating and socket), determined with the nominal thickness, in kg/m
- Reference: commercial reference Saint-Gobain PAM

## Field of use:

- For drinking water and other water network applications (except sewage water)

## Main characteristics:

- Pressure class in conformity with Standard EN 545-2010 and ISO 2531-2009
- External BioZinalium<sup>®</sup> coating consists of two layers:
  - a layer of zinc-aluminium 85/15 alloy, enriched with copper, with a minimum surface density of 400g/m<sup>2</sup>, applied by spraying molten metal onto the surface of the iron, using an electric arc spray gun, from ZnAl (Cu) alloy wire
  - a protective layer of Aquacoat (semi-permeable), a water-based blue acrylic of average thickness 80 microns applied using a spray gun (RAL 5005)
- Internal coating: sulfate resisting blast furnace cement mortar
- Standard joint in alimentary elastomer EPDM (ACS, KTW, WRAS,...)
- Vi anchoring without bolts

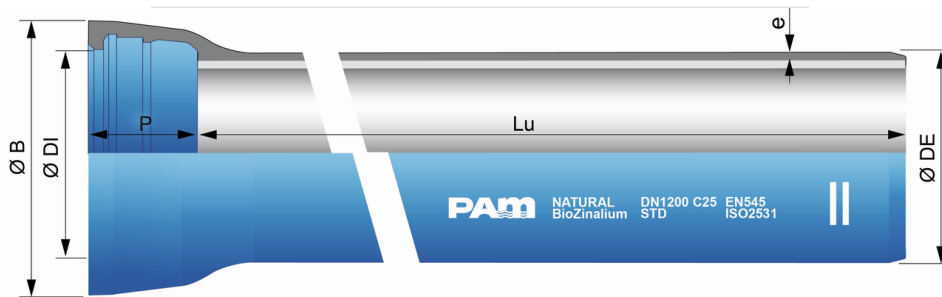
## Type of soils:

BioZinalium<sup>®</sup> coating can be in contact with all type of soil, as defined in Annex D.2.2 of EN545:2010, except:

- peaty and acid soils
- soils containing wastes, scraps, ashes, slags or soils contaminated by industrial effluents or other wastes
- soils located under the level of the marine water table with a resistivity lower than 500 Ω cm

In such soils, and also in the event of stray currents, it is recommended to use other types of external coatings for more aggressive soils (TT PE or TT PUX ranges).

## NATURAL BioZinalium pipes DN1100 to 2000 with STANDARD socket



DN	Lu (m)	Class	e (mm)	ØDE (mm)	ØDI (mm)	P (mm)	ØB (mm)	Mass (kg/m)	References
1100	8.19	C25	12.6	1152	1155.1	225	1263.7	399.420	NSC11H80AQ
1200	8.19	C25	13.6	1255	1260	235	1373.7	465.560	NSC12H80AQ
1400	8.17	C25	15.7	1462	1467.9	245	1592.1	643.950	NSC14H80AQ
1500	8.16	C25	16.7	1565	1571.1	265	1709.8	729.940	NSC15H80AQ
1600	8.16	C25	17.7	1668	1674.2	265	1815.9	819.220	NSC16H80AQ
1800	8.15	C25	19.7	1875	1881.5	275	2032.2	1009.500	NSC18H80AQ
2000	8.13	C25	21.8	2082	2088.8	290	2259	1224.200	NSC20H80AQ

### Legend:

- DN: nominal diameter
- Lu: laying length, in m
- Class: pressure class according to EN 545 and ISO 2531
- e: nominal thickness according to ISO 2531, in mm
- ØDE: external nominal diameter of the barrel according to EN 545 and ISO 2531, 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 metre (including cement coating and socket), determined with the nominal thickness, in kg/m
- Reference: commercial reference Saint-Gobain PAM

### Field of use:

- For drinking water and other water network applications (except sewage water)

### Main characteristics:

- Pressure class in conformity with Standard EN 545-2010 and ISO 2531-2009
- External BioZinalium<sup>®</sup> coating consists of two layers:
  - a layer of zinc-aluminium 85/15 alloy, enriched with copper, with a minimum surface density of 400g/m<sup>2</sup>, applied by spraying molten metal onto the surface of the iron, using an electric arc spray gun, from ZnAl (Cu) alloy wire
  - a protective layer of Aquacoat (semi-permeable), a water-based blue acrylic of average thickness 80 microns applied using a spray gun (RAL 5005)
- Internal coating: sulfate resisting blast furnace cement mortar
- Standard joint in alimentary elastomer EPDM (ACS, KTW, WRAS,...)

### Type of soils:

BioZinalium<sup>®</sup> coating can be in contact with all type of soil, as defined in Annex D.2.2 of EN545:2010, except:

- peaty and acid soils
- soils containing wastes, scraps, ashes, slags or soils contaminated by industrial effluents or other wastes
- soils located under the level of the marine water table with a resistivity lower than 500 Ω cm

In such soils, and also in the event of stray currents, it is recommended to use other types of external coatings for more aggressive soils (TT PE or TT PUX ranges).

### Type of water:

NATURAL<sup>®</sup> ductile iron pipes with internal coating of sulphate resisting blast furnace cement mortar are adapted to convey all types of drinking water in conformity with Directive EU 2020/2184.

In case of other type of water, please refer to below information:

Parameter	Minimum value		Maximum value		
	pH	CO2 aggressive	Sulphate	Magnesium	Ammonium
Unit	-	mg/l	mg/l	mg/l	mg/l
Value	5,5	15	3000	500	30

Blast furnace cement mortar is a sulphate resisting cement (SRC).

## Linked products



Kit Standard Pipe +  
Standard Gasket



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.*

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Blast furnace cement mortar is a sulphate resisting cement (SRC).

## Linked products



Kit Standard Pipe +  
Standard Gasket



Kit Standard Pipe +  
Standard Vi Gasket



Lubricating paste -  
BLUPAM



Lubricating paste -  
NATURAL, INTEGRAL, and  
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