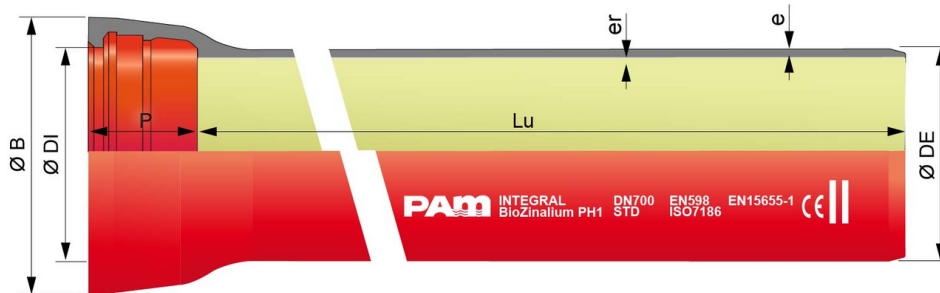


### INTEGRAL PH1 BioZinalium pipes DN150 to 2000 with STANDARD socket

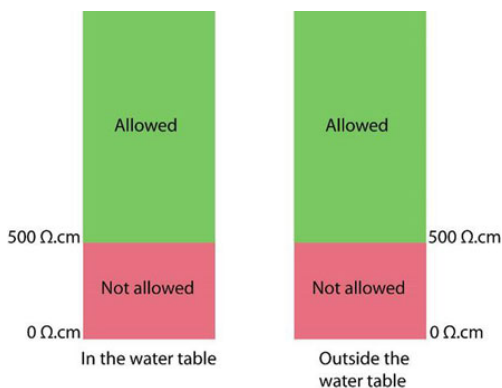


DN	Lu (m)	e (mm)	er (mm)	ØDE (mm)	ØDI (mm)	P (mm)	ØB (mm)	PFA	Mass (kg/m)	References
150	6.00	5	1.5	170	173.4	100.5	220.8	40 bar	20.18	TSB15S60VP
200	6.00	5.1	1.5	222	225.2	106.5	275.1	40 bar	27.13	TSB20S60VP
250	6.00	5.3	1.6	274	276.8	105.5	328.6	38 bar	34.92	TSB25S60VP
300	6.00	5.6	1.6	326	328.8	107.5	385.3	35 bar	43.91	TSB30S60VP
350	6.00	6	1.6	378	380.9	110.5	444.5	32 bar	54.40	TSB35S60VP
400	6.00	6.3	1.6	429	431.9	112.5	494.6	30 bar	64.75	TSB40S60VP
450	6.00	6.7	1.6	480	483	115.5	546.5	29 bar	77.37	TSB45S60VP
500	6.00	7	1.6	532	535	117.5	600.9	28 bar	89.47	TSB50S60VP
600	6.00	7.7	1.6	635	638.1	132.5	712	26 bar	117.80	TSB60S60VP
700	6.96	9.6	1.8	738	741.7	192	821.9	29 bar	199.41	TSB70E70VP
800	6.95	10.4	1.8	842	845.8	197	935.6	28 bar	244.24	TSB80E70VP
900	6.95	11.2	1.8	945	948.9	200	1043.4	27 bar	292.19	TSB90E70VP
1000	6.96	12	1.8	1048	1052	203	1152.4	26 bar	344.04	TSC10E70VP
1100	8.19	14.4	2.2	1152	1155.1	225	1263.7	29 bar	399.06	TSC11N80VP
1200	8.19	15.3	2.2	1255	1260	235	1373.7	29 bar	462.41	TSC12N80VP
1400	8.17	17.1	2.2	1462	1467.9	245	1592.1	28 bar	598.17	TSC14N80VP
1500	8.16	18	2.2	1565	1571.1	265	1709.8	27 bar	677.51	TSC15N80VP
1600	8.16	18.9	2.5	1668	1674.2	265	1815.9	27 bar	761.25	TSC16N80VP
1800	8.15	20.7	2.5	1875	1881.5	275	2032.2	27 bar	934.39	TSC18N80VP
2000	8.13	22.5	2.5	2082	2088.8	290	2259	26 bar	1129.20	TSC20N80VP

### Legend:

- DN : nominal diameter
- Lu : laying length, in m
- e: thickness according to EN598 + A1 - August 2009, in mm
- er: thickness of the polyurethane, according to NF EN 15655 - March 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 polyurethane coating and socket), determined with the nominal thickness, in kg/m
- Reference : commercial reference Saint-Gobain PAM

### Field of use:



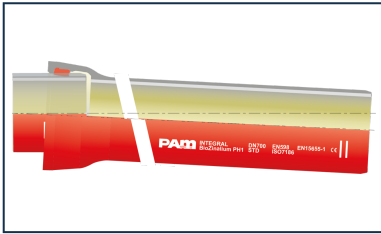
- Separate sewer system and combined sewer system
- Application: gravity flow and rising main sewerage systems
- Type of effluent: domestic wastewater and rainwater
- Perfectly watertight
- For effluents between pH1 and pH13
- For the soils with  $6 < \text{pH} < 9$
- Majority of the soils, except the acid peaty and polluted soils
- Suitable for clay soils
- Resistivity of the soils:

### Main characteristics:

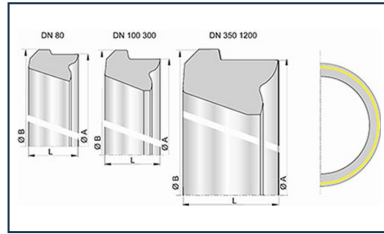
- External coating <sup>Bio</sup>Zinalium: a layer of zinc-aluminium alloy enriched with copper Zn85Al15 (Cu), with surface density of  $400 \text{ g/m}^2$  covered with a protective red (RAL 3011) layer AQUACOAT  $80 \mu\text{m}$  (mini average), without VOC and without BPA.
- Internal lining: polyurethane
- Spigot and socket coating: reinforced red epoxy paint 300 microns (mini average)

- Standard Gasket in Nitrile
- EN 598 / EN 15655 / CE Marking
- NF Mark
- Declaration of performances [DoP-INTEGRAL005EN](#)
- 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

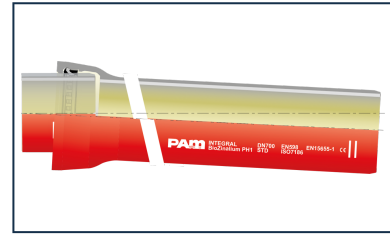
## Linked products



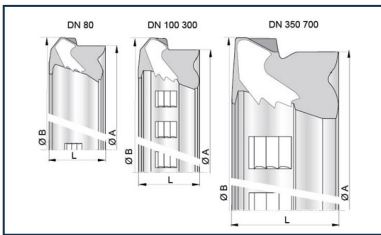
Kit Standard INTEGRAL  
pH1 Pipe + Standard  
Gasket



Nitrile STD Gasket  
DN80-2000



Kit Standard INTEGRAL  
pH1 Pipe + Standard Vi  
Gasket



Gasket ViLoK® (NBR STD  
Vi) DN80-700



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.