

# NORDITUBE IBÉRICA

SPIRAL-WOUND PVC PIPES



PROVIDING SOLUTIONS







## NORDITUBE IBÉRICA PIPE SYSTEMS

NORDITUBE IBÉRICA is the leading manufacturer of spiral wound PVC pipe systems. The products range from diameters 230 mm up to 3000 mm and are used for gravity and low-pressure flows (up to 20 MCA).

The systems are made of spiral wound PVC profile. The profile has a smooth inner surface and a T-shaped outside wall. If an increased circumferential rigidity is required, the pipe may be reinforced with steel.

Additionally, manholes, connections, shafts, elbows, etc., linked to the pipe systems, are offered by NordiTube Ibérica.

The lightweight design of the system and its special components, along with the ease and simplicity of the installation, make these solutions highly mobile, efficient and cost effective.

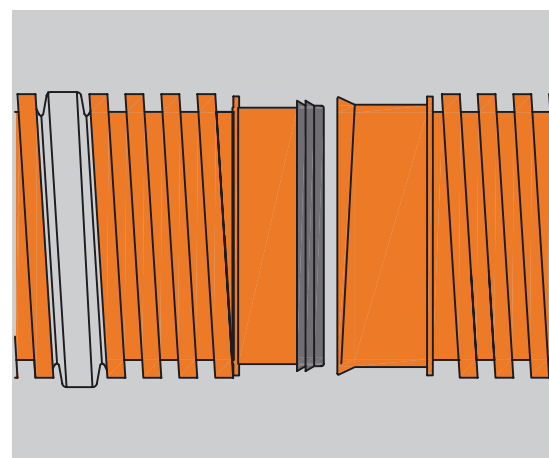


## JOINT SYSTEMS IN ACCORDANCE WITH UNE 1610

NordiTube Ibérica delivers joint systems according to UNE 1610.

## CHARACTERISTICS

- Made of PVC
- Spiral wound profile
- Smooth interior wall with increased flow characteristics
- Outside with T-shape for increased stiffness
- Steel reinforcement is available
- Joint systems according to UNE 1610







#### Advantages at a glance:

- Enhanced hydraulic flow characteristics due to smooth inside surface
- Chemical resistance ensures system durability
- Variable widths and lengths can be produced
- Fast and flexible response to customer inquiries
- Highly mobile system, due to lightweight design
- Production of parts on site possible
- Equipment and raw materials can be transported to remote terrain
- Time and cost efficient

## PRODUCT RANGE

#### NordiTube Ibérica offers products for different application:

|               |  |
|---------------|--|
| SANEALOC      | The all-rounder for waste water                            |
| CONCRETLOC    | Reinforced with concrete a strong solution for heavy loads |
| DRENOLOC      | Perforated pipe for drainage                               |
| STORMTANK     | For the regulation of storm water                          |
| SPECIAL PARTS | Custom made components                                     |

## GENERAL INFORMATION

NordiTube Ibérica pipes use the advantages of PVC material with innovative design to achieve excellent mechanical properties in combination with a simple handling on site.

Due to the smooth PVC surface the hydraulic capacity is superior to competitive PVC, PP or PE products. The circumferential deformation is less than 5% after 50 years (safety coefficient > 2).

The PVC profile is produced in long strips in our facility in Pinto (Madrid), which are then wound into pipe shapes. The finished pipes are produced in the facility of NordiTube Ibérica at Guadalajara, but the finishing can be done by the customers on the jobsite. The equipment and the PVC profile are easily to transport and can be used even in remote terrain.

Technical support and training of the customers technicians are also offered by NordiTube Ibérica. Due to the lightweight design, transport and handling on the jobsite are highly simplified.



# SANEALOC

## APPLICATION

SANEALOC can be used for all purposes – it’s the all-rounder in the product range up to a DN 1200. Due to the reinforcement with steel, the pipe achieves a stiffness according SN8 and can be placed directly in the ground.

The pipes come in brick red color, model RAL 8023, and it’s therefore perfectly usable for sewage pipes.

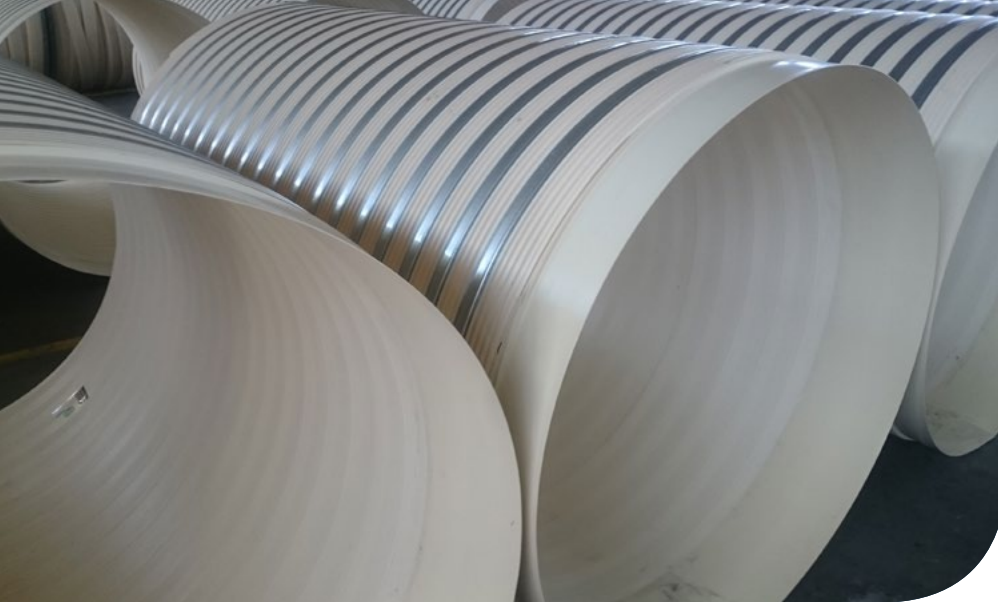


## DIAMETER RANGE

SANEALOC can be produced in a diameter range from 300 mm to 1200 mm. The length can be changed according to customer needs.

| Diameter (mm)           | 300  | 400  | 500   | 600   | 700   | 800   | 900   | 1,000 | 1,100 | 1,200 |
|-------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Interior diameter (mm)  | 286  | 380  | 480   | 576   | 676   | 768   | 868   | 968   | 1,068 | 1,168 |
| Pipe lenght (m)         | 6    | 6    | 6     | 6     | 6     | 6     | 4     | 4     | 4     | 4     |
| Total usable length (m) | 5,80 | 5,80 | 5,80  | 5,80  | 5,95  | 5,75  | 3,85  | 3,85  | 3,85  | 3,85  |
| Pipe weight (kg)        | 4,93 | 8,84 | 12,34 | 17,50 | 20,43 | 32,69 | 36,78 | 45,87 | 50,31 | 54,74 |





# CONCRETLOC

## APPLICATION

CONCRETLOC combines the advantages of the smooth surface and chemical resistance of PVC pipes with the mechanical properties of concrete pipes. After installation in the trench, the pipe is covered with in-situ concrete.

Therefore, CONCRETLOC is applicable, where high mechanical forces occur, (rail road or air traffic loads) or to simply ensure uniform stability in unstable soils.

- Sanitary drains and sewage systems
- Storm drains
- Channeling rivers and dykes
- Containment of tributaries
- Hydraulic passages
- Treatment plants
- Ventilation of tunnels and building



| Diameter<br>(mm) | Interior diameter<br>(mm) | Pipe length<br>(m) | Total usable<br>length (m) | Pipe weight<br>(kg/ml) |
|------------------|---------------------------|--------------------|----------------------------|------------------------|
| 300              | 286                       | 6                  | 5,90                       | 4,88                   |
| 400              | 386                       | 6                  | 5,90                       | 6,53                   |
| 500              | 486                       | 6                  | 5,90                       | 8,21                   |
| 600              | 586                       | 6                  | 5,90                       | 9,87                   |
| 700              | 686                       | 6                  | 5,95                       | 11,58                  |
| 800              | 786                       | 6                  | 5,85                       | 13,48                  |
| 900              | 880                       | 4                  | 3,85                       | 20,37                  |
| 1,000            | 980                       | 4                  | 3,85                       | 22,82                  |
| 1,100            | 1,080                     | 4                  | 3,85                       | 24,95                  |
| 1,200            | 1,176                     | 4                  | 3,85                       | 35,16                  |
| 1,300            | 1,276                     | 2,4                | 2,25                       | 38,95                  |
| 1,400            | 1,376                     | 2,4                | 2,25                       | 41,71                  |
| 1,500            | 1,467                     | 2,4                | 2,25                       | 44,46                  |
| 1,600            | 1,568                     | 2,4                | 2,25                       | 65,95                  |
| 1,700            | 1,668                     | 2,4                | 2,25                       | 69,83                  |
| 1,800            | 1,768                     | 2,4                | 2,25                       | 73,70                  |
| 1,900            | 1,868                     | 2,4                | 2,25                       | 77,58                  |
| 2,000            | 1,968                     | 2,4                | 2,25                       | 81,89                  |
| 2,100            | 2,068                     | 2,4                | 2,25                       | 85,76                  |
| 2,200            | 2,168                     | 2,4                | 2,25                       | 89,64                  |
| 2,300            | 2,268                     | 2,4                | 2,25                       | 94,32                  |
| 2,400            | 2,368                     | 2,4                | 2,25                       | 109,74                 |
| 2,500            | 2,468                     | 2,2                | 2,05                       | 113,77                 |
| 2,600            | 2,568                     | 2,2                | 2,05                       | 118,09                 |
| 2,700            | 2,668                     | 2,2                | 2,05                       | 127,12                 |
| 2,800            | 2,768                     | 2,2                | 2,05                       | 131,44                 |
| 3,000            | 2,968                     | 2,2                | 2,05                       | 140,09                 |



## DRENOLOC

### APPLICATION

DRENOLOC is designed for drainage applications. As both is possible, perforations on the entire surface of the pipe (360°) or only a sectional perforation with a defined angle. The pipe may be adapted to customer's requirements, with 360° perforations, or only in preferred locations in the pipe.

- Drainage of roadways
- Railways
- Airports
- Farmland, etc.

### DIAMETER RANGE

DRENOLOC can be produced in a diameter range from 230 mm to 1500 mm.



| Diameter (mm)               | 230  | 250  | 300  | 350  | 400  | 500  | 600  | 700   | 800   | 900   | 1,000 | 1,100 | 1,200 | 1,300 | 1,400 | 1,500 |
|-----------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Interior diameter (mm)      | 216  | 236  | 286  | 336  | 386  | 486  | 580  | 680   | 780   | 876   | 976   | 1,076 | 1,168 | 1,268 | 1,368 | 1,468 |
| Angle perforation (degrees) | 90   | 90   | 90   | 90   | 90   | 90   | 90   | 90    | 90    | 90    | 90    | 90    | 90    | 90    | 90    | 90    |
|                             | 120  | 120  | 120  | 120  | 120  | 120  | 120  | 120   | 120   | 120   | 120   | 120   | 120   | 120   | 120   | 120   |
|                             | 180  | 180  | 180  | 180  | 180  | 180  | 180  | 180   | 180   | 180   | 180   | 180   | 180   | 180   | 180   | 180   |
|                             | 240  | 240  | 240  | 240  | 240  | 240  | 240  | 240   | 240   | 240   | 240   | 240   | 240   | 240   | 240   | 240   |
|                             | 360  | 360  | 360  | 360  | 360  | 360  | 360  | 360   | 360   | 360   | 360   | 360   | 360   | 360   | 360   | 360   |
| Drainage surface (cm²/ml)   | 47   | 51   | 61   | 71   | 82   | 119  | 143  | 119   | 136   | 153   | 136   | 149   | 163   | 177   | 190   | 204   |
|                             | 62   | 68   | 83   | 95   | 109  | 158  | 190  | 158   | 181   | 204   | 181   | 199   | 217   | 235   | 254   | 272   |
|                             | 94   | 102  | 122  | 143  | 163  | 238  | 285  | 238   | 272   | 306   | 272   | 299   | 326   | 353   | 380   | 408   |
|                             | 125  | 136  | 163  | 190  | 217  | 317  | 380  | 317   | 362   | 408   | 362   | 399   | 435   | 471   | 507   | 543   |
|                             | 187  | 204  | 245  | 285  | 326  | 475  | 571  | 475   | 543   | 611   | 543   | 598   | 652   | 706   | 761   | 815   |
| Pipe weight (kg/ml)         | 2,41 | 2,61 | 3,11 | 3,67 | 6,46 | 8,12 | 13,2 | 15,45 | 17,82 | 26,18 | 29,82 | 32,05 | 48,63 | 52,93 | 56,76 | 60,59 |
| Pipe length (m)             | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6     | 6     | 4     | 4     | 4     | 4     | 2,40  | 2,40  | 2,40  |
| Total usable length (m)     | 5,90 | 5,90 | 5,90 | 5,90 | 5,90 | 5,90 | 5,90 | 5,85  | 5,85  | 3,85  | 3,85  | 3,85  | 3,85  | 2,25  | 2,25  | 2,25  |



## STORM TANK



The advantages of the storm tanks made by NordiTube Ibérica compared with traditional concrete tanks are significant: PVC is completely inert, watertight, lasting, lightweight, resistant and has a low friction coefficient, can therefore be cleaned easily. Due to its chemical inertness, it resists to drain water and has an increased durability compared to concrete tanks.

The STORM tanks are tailored to the requirements of each client and have a high modularity. If necessary, the tanks may even be added on to at a later stage to increase capacity.

### Different types of modulation are possible:

- Longitudinal Sections
- Sequential Sections
- Parallel Sections

The tank is basically divided into three modules, but can be customized to the requirements with (maximum 3 m diameter):

- Collector Module
- Retention Module
- Discharge Module

All the modules are accessible via manholes and can include access ladders, lighting systems, cleaning units, valves, etc.

Just as our pipe systems, the STORM tanks benefit from the lightweight design and can be transported and installed with ease. Tank production and assembling are possible on site.

| Volume retained (m³)               | 150   |       | 300   |       | 500   |       | 1,000 |       | 2,000 |       |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| STORM LOC modules                  | 1     | 2     | 1     | 2     | 2     | 3     | 3     | 4     | 4     | 5     |
| Axis dimensions Length (m)         | 21,04 | 10,70 | 42,09 | 21,40 | 35,07 | 23,80 | 47,60 | 35,70 | 71,40 | 57,10 |
| Axis dimensions width (m)          | 3,50  | 6,75  | 3,50  | 6,75  | 6,75  | 10,00 | 10,00 | 13,25 | 13,25 | 16,50 |
| Execution time (Yield 3ml/h)       | 7,10  | 3,60  | 14,30 | 7,10  | 11,90 | 15,90 | 31,70 | 23,80 | 47,60 | 38,10 |
| N° of Pieces of assembly equipment | 1     | 2     | 1     | 2     | 2     | 2     | 2     | 3     | 3     | 3     |



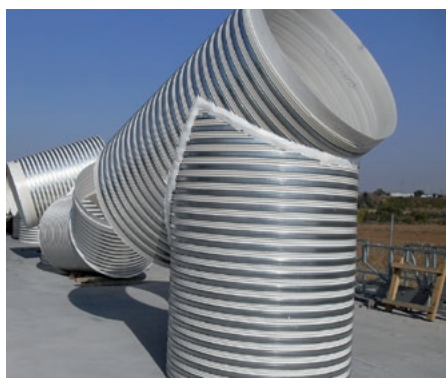
## SPECIAL PARTS



## SPECIAL PARTS

NordiTube Ibérica offers all types of shafts, connections, elbows, etc. that might be required on site. These special parts are manufactured in all diameters and are optimized for NordiTube Ibérica systems.

The lightweight nature of the NordiTube Ibérica products, along with the easy and simplicity of transport, assembly and installation, make these solutions highly cost effective.





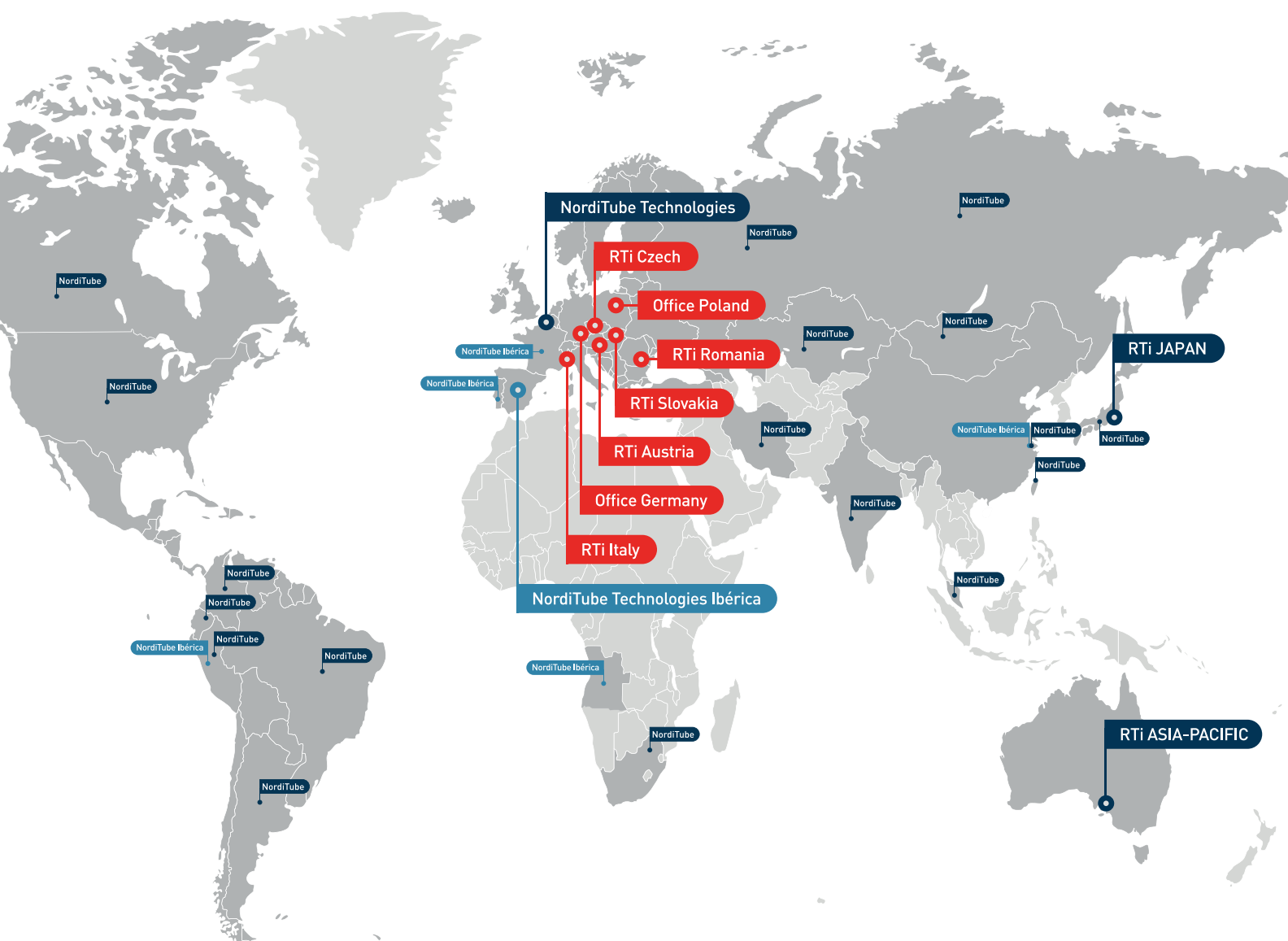
## ALTERNATIVES FOR DISTRIBUTION

Due to the lightweight design, pipes can be produced in the facility of NordiTube Ibérica in Spain and easily transported to jobsites by truck.

Beside this option, NordiTube Ibérica also proposes equipment for rent or buy, technical training and the profile separately. This option allows customers, to set up their own production for a job or for running business in their own countries or next to jobsites and to produce pipes following their requirements with their own local labor forces.

- Equipment for rent or sale
- Training provided by NordiTube Technologies Ibérica SL
- Profile and steel delivery on jobsite
- Highly mobile
- Production even on remote terrain
- Local labour forces





## NORDITUBE TECHNOLOGIES IBÉRICA SLU

NordiTube Technologies Ibérica SLU is a globally operating company with its registered office in Spain. NordiTube Ibérica belongs to the RTi Rohrtechnik group, which is one of the worldwide leading specialist for pipe rehabilitation.

With 30 years of market experience, NordiTube Ibérica knows that their success for their products and systems are based on the following principles:

- Wide range of high-quality products
- Very light and easy to install products
- Comprehensive technical assistance
- Development of new products
- Custom made solutions
- High quality standards
- Production on site possible

- RTi companies - Construction
- NordiTube companies - Production & Sales
- NordiTube partner countries - Overseas
- NordiTube Ibérica partner countries





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