



## TECHNICAL DATA SHEET

**PE-100 Drainage Pipe**

|                            |                                                                                                                                                                                |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Art. No.                   | D11021UP                                                                                                                                                                       |
| Material                   | PE-100                                                                                                                                                                         |
| SDR                        | 21                                                                                                                                                                             |
| Nominal diameter (DN / d1) | 110mm                                                                                                                                                                          |
| Wall thickness (e)         | 5.3mm                                                                                                                                                                          |
| Weight (kg/m)              | 1.78                                                                                                                                                                           |
| Perforation type           | UP                                                                                                                                                                             |
| Length                     | 6m                                                                                                                                                                             |
| Color                      | Black                                                                                                                                                                          |
| Application                | Perforated drainage pipe for railway track and subgrade drainage (non-pressure system)                                                                                         |
| Standards                  | EN 12666-1<br>DIN 4262-1<br>DBS 918 064<br>EN ISO 9969 (Ring stiffness – tested to SN16)<br>DIN 19523 (Jetting resistance)<br>EN 681-1 (Elastomeric seals – system components) |



| Perforation type                                                                                                                                                                                                                                                                                                                                                                           |                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Multi-Purpose Pipes, Unslotted (UP)</b><br>Unperforated pipes used for conveying large volumes of water, without any infiltration function. They are used as collection drainage pipes and channel the water via manholes or drainage shafts to the discharge point.                                                                                                                    |    |
| <b>Multi-Purpose Pipes, 1/3 Slotted (MP)</b><br>Pipes perforated along one-third of their circumference. They are designed for both partial soil drainage and water collection, as the lower section remains closed, allowing efficient water conveyance.                                                                                                                                  |    |
| <b>Partial Leachate Pipes, 2/3 Slotted (LP)</b><br>Pipes perforated along two-thirds of their circumference. They are installed on a sloped bedding and are intended for collecting infiltration water, groundwater, and surface runoff through the upper perforations, while conveying the water through the closed lower section into the drainage system.                               |  |
| <b>Full Leachate Pipes, 3/3 Slotted (TP)</b><br>The most efficient pipes for applications involving permeable soils. Thanks to perforations distributed around the entire circumference of the pipe and the use of an appropriate filtration layer, these pipes can collect and convey not only infiltration and groundwater, but also water generated by hydrostatic pressure from below. |  |

\* Technical data is subject to manufacturing tolerances and standards requirements.

\* Designation based on DIN 4262-1.

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