

## Ultra dB



### PP soundproof indoor sewage system

Ultra dB is a complete system of pipes and fittings made of mineral-enhanced polypropylene. Each pipe has a double-layered structure, which consists of internal (white) and external (blue) layers, smooth, resistant to dirt and permanently overprinted with a centimetre scale.

|   |  |              |   |                 |         |
|---|--|--------------|---|-----------------|---------|
| <b>System name</b>                      | <b>Ultra dB</b>  |              |   |                 |         |
| <b>Production site</b>                  | Sieniawa Żarska 69,<br>68-213 Lipinki Łużyckie, Poland   |              |   |                 |         |
| <b>Material</b>                         | PP-M polypropylene with mineral fillers<br>(pipes and fittings)  |              |   |                 |         |
| <b>Wall structure</b>                   | <table border="1"> <tr> <td><b>pipes</b></td> <td>double-layer</td> </tr> <tr> <td><b>fittings</b></td> <td>uniform</td> </tr> </table>                                | <b>pipes</b> | double-layer                            | <b>fittings</b> | uniform |
| <b>pipes</b>                            | double-layer   |              |   |                 |         |
| <b>fittings</b>                         | uniform  |              |   |                 |         |
| <b>Colour</b>                           | <table border="1"> <tr> <td><b>pipes</b></td> <td>inner layer: white<br/>outer layer: blue</td> </tr> <tr> <td><b>fittings</b></td> <td>blue</td> </tr> </table>       | <b>pipes</b> | inner layer: white<br>outer layer: blue | <b>fittings</b> | blue    |
| <b>pipes</b>                            | inner layer: white<br>outer layer: blue  |              |   |                 |         |
| <b>fittings</b>                         | blue   |              |   |                 |         |
| <b>Ring stiffness</b>                   | SN ≥ 4 kN/m <sup>2</sup> , <b>S16</b> series   |              |   |                 |         |
| <b>Pipe diameter</b>                    | DN50 mm<br>DN75 mm<br>DN110 mm<br>DN125 mm<br>DN160 mm   |              |   |                 |         |
| <b>Area of use</b>                      | Area BD (PN-EN 1451:2018) for internal plumbing systems, on external walls, in underground systems not extending beyond the building envelope or embedded in concrete. |              |   |                 |         |
| <b>Maximum sewage temperature</b>       | 90°C at constant flow;<br><b>95°C</b> at instantaneous flow (up to 15 min)   |              |   |                 |         |
| <b>Minimum installation temperature</b> | <b>-20°</b><br>(can be installed in winter)  |              |   |                 |         |

|                              |   |
|------------------------------|---|
| <b>Seal</b>                  | SBR, three-lip in DN110, DN125 and DN160 pipes. Single-lip in other pipes and fittings.   |
| <b>Connection sealing</b>    | up to <b>4.5 bar</b> (45 m water column).<br>Applicable diameters: DN110, DN125, DN160  |
| <b>Other applications</b>    | Drainage of roof surfaces of buildings where the installation height does not exceed 45 m (according to the Technical Examination Report of Department of Material Engineering, GIG)                        |
| <b>Chemical resistance</b>   | Carriage and drainage of pH 2-12 sewage   |
| <b>Fire resistance class</b> | B2 (DIN 4102)   |
| <b>Density</b>               | 1.4 g/cm <sup>3</sup>   |
| <b>Impact strength</b>       | TIR <10   |
| <b>Documents</b>             | National Technical Assessment (NTA) ref. ITB- KOT-2017/0167 Issue 3;<br>National Declaration of Performance (NDP) ref. KDWU 067/3 and KDW 062/3, PZH-NIH Hygiene Certificate; Test Report ref. DFW/116/2018 |

| Acoustic characteristics (DN110)                             |   |
|--|---|
| <b>Standard steel clamping rings with elastomeric liners</b> | 11 dB (0.5 l/s); 14 dB (1 l/s);<br>16 dB (2 l/s); 20 dB (4 l/s)               |
| <b>BISMAT 1000 clamps</b>                                    | ≤ 10 dB (0.5 l/s);<br>≤ 10 dB (1 l/s);<br>13 dB (2 l/s); <b>16 dB</b> (4 l/s) |

