**Noiseless soil system**

1. **Product description**: In house soil system of pipes and fittings, made of polypropylene (PP) with mineral insulation.
2. **Pipe** **profile:** comprises three carefully matched layers**,** reinforced with mineral substances and free from halogens, cadmium and heavy metals;

* Smooth inner layer, made of polypropylene copolymer (PP-CO)
* Solid sound absorbent middle layer, made of mineral-reinforced polypropylene (PP-MV)
* Impact-resistant outer layer, made of polypropylene copolymer (PP-CO). Installation, transportation and on-site handling possible at low temperatures.
* Pipes and fittings are supplied with a plug-in socket and inserted lip seal ring, tested according БДС EN 1451-1.

1. **Nominal ring stiffness (SN):** 4 kN/m2 (SN4).
2. **Sound insulation**:

Tested according БДС EN 14366.

All tests are made with standard equipment of brackets and sealing ring.

According ÖNORM B 8115-2, domestic installations must be arranged and designed in such a way that the noise level resulting from the operation of these installations from other units in use does not exceed 25 dB(A). System noise levels may be 5 dB higher or max 30 dB(A) in ancillary rooms.

The MASTER 3 PLUS soil pipe system fulfils these requirements in all possible flow volumes (up to 4l/sec.) without using fixing acoustic brackets.

1. **Fire safety:**

In conformity with БДС EN 1366-3 and БДС EN 13501-1.

1. **Water tightness of the joints:**

According БДС EN 1277(0.5 bar positive pressure and at -0.3 bar negative pressure (vacuum)).

Tested, Master 3 keeps -0,8 bar negative pressure (vacuum)for 1 hour.

1. **Temperature resistance:**

Long-term temperature load max. 95 °C

1. **Installation:**

According to ÖNORM B 2501, ÖNORM EN 12056 and installation instructions. Pipes and fittings are connected to each other by means of a plug-in socket with a factory-fitted lip seal ring. No heating or inflation of the socket is allowed.

1. **Fittings:**

All fittings should be manufactured by the pipes’ producer and according EN 1451-1,3.

1. **Nominal diameter**:

The dimensions of Pipelife MASTER 3 PLUS pipes and fittings comply with ÖNORM EN 1451-1.

1. **Marking**:

The pipes and the fittings are clearly visible and permanently marked with the company name, date, time, production line, product name, stiffness class, ice crystal, outer diameter, wall thickness, overall length, material, test number and an EAN code.

1. **Uniformity:**

If the terms of the agreement don’t say other, product uniformity applies to all technical specification listed in the catalogue and special characteristics, listed in technical documentation of the product.

1. **Exchange**:

If an equivalent product is listed, all its technical characteristics should be listed as well as respective standards.

1. **Quality** **control**:

Existing and working quality control system on production site according EN ISO 9001:2000.

1. **Technical** **specification** **display**-**example**:

Pipe Master 3 Plus PP-MV ф32х1.8mm according БДС EN 1451-1

Pipe Master 3 Plus PP-MV ф40х1.8mm according БДС EN 1451-1

Pipe Master 3 Plus PP-MV ф50х2,0mm according БДС EN 1451-1

Pipe Master 3 Plus PP-MV ф75х2,1mm according БДС EN 1451-1

Pipe Master 3 Plus PP-MV ф90х2,5mm according БДС EN 1451-1

Pipe Master 3 Plus PP-MV ф110х3,0mm according БДС EN 1451-1

Pipe Master 3 Plus PP-MV ф125х3,5mm according БДС EN 1451-1

Pipe Master 3 Plus PP-MV ф160х4,4mm according БДС EN 1451-1