Terrain dB12

Specialist soil and waste system to reduce the effect of noise
Acoustic drainage system with superior performance

We all know how much noise water can make when it travels through a building and how intrusive this sound can be. In endeavouring to meet sound controls within Building Regulations, additional materials and labour are required, increasing the cost and time on site.

Now there is a simple, quick and cost effective solution – Terrain dB12, which significantly reduces the air borne and solid borne noise emitted from a drainage system when in use.

The dB12 rating is a reference to sound pressure, this means the lower the rating the lower the pressure detected by the human ear. dB12 is as close to silent as you will get, ensuring your customers will get a great night’s sleep!

Terrain dB12 multilayer acoustic drainage pipe with acoustic fittings creates a high quality durable and reliable system developed specifically to meet construction requirements for increased levels of soundproofing, and ideally suitable for:

- Mixed development
- Hospitals
- Hotels
- Schools
- Commercial applications
Sound engineering principles

Terrain dB12 provides an acoustic system to complement the Terrain range of PVC drainage systems. Terrain dB12 is manufactured as a triple layer pipe system with specially developed layers of copolymer polypropylene. The system comes complete with a range of acoustically engineered fittings to ensure fast and easy drainage installations for soil and rainwater applications.

The Benefits

- Excellent sound insulation 12 dB(A) at flow rate 2 l/s*
- Flame retardant to B1 in compliance with DIN 4102
- Elevated impact resistance even at low temperatures
- Resistance to a wide range of chemical agents at high temperatures
- Push fit single lip Elastomeric seals
- Easy to install

*Test EN 14366 / DIN 4109
Technical characteristics

1. Outer layer
   - Co-polymer polypropylene
   - Elevated impact resistance at low temperatures
   - Excellent resistance to atmospheric agents
   - Flame retardant to B1
   - Blue, RAL 5015

2. Intermediate layer
   - Polypropylene with added minerals
   - Adds pipe rigidity
   - Optimum anti-squeezing characteristics

3. Inner layer
   - Co-polymer polypropylene
   - Elevated mechanical and abrasive resistance
   - Smooth surface
   - Blue, RAL 5015

The single lipped ‘elastomeric’ seals are factory pre-installed to provide a perfectly water tight seal that is not only safe and easy to insert, but provides longevity in operation.

The dimensions, method and quality assurance of the seals all conform to DIN Standard 4060 - Ring seals for waste systems and similar.

<table>
<thead>
<tr>
<th>Pipe Diameter</th>
<th>Pipe Length</th>
<th>Wall Thickness</th>
<th>Pipe Diameter</th>
<th>Pipe Length</th>
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<td>Maximum (mm)</td>
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Advanced technology and performance

Terrain dB12 has been specifically developed for acoustic soil applications, with four sizes of pipe from 40mm - 160mm and a comprehensive range of fittings to provide a complete solution for acoustic management of soil pipes.

Terrain dB12 multilayer acoustic pipe and fittings have been tested to the most recent European accreditations for airborne and impact noise, at the highly respected Fraunhofer Institute in Stuttgart.

<table>
<thead>
<tr>
<th>Terrain Acoustic</th>
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Superior performance in acoustic drainage

Terrain dB12 was specifically developed to meet the increasing demand for acoustic drainage, providing a simple method of dramatically reducing sound attenuation from soil and waste systems, suitable for most applications.

Finest material
The fittings are manufactured from Polypropylene with added minerals, quality tested for manufacture and comprehensively tested for performance.

Material applications
• For transporting domestic waste water at high and low temperatures
• Ventilation pipes for waste water applications
• Rainwater systems inside structures
• Waste water with pH values from 2 to 12

Acoustic bracket G½” and M10
Cost effective solution for sound attenuation

Key benefits for the designer
To meet the demands of the resistance of the passage of sound, Terrain dB12 provides a one stop solution to mitigating noise levels emitted by a drainage system.

Approved system performance by Respected German Test Centre Fraunhofer Institute in Stuttgart.

Key benefits for the contractor
Terrain dB12 is a fast, efficient and cost effective solution that uses familiar ring seal connection methods widely used by contractors.

A range of fittings and accessories enable Terrain dB12 to be incorporated into both new and refurbishment applications.

Terrain Technical
Terrain dB12 is supported by our renowned technical support team at Polypipe based from our state of the art facility at Aylesford, Kent, providing technical backup and installation training and support.
Terrain dB12

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