

**Terrain Acoustic dB12 Soil & Waste System Specification Clauses**

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## 1000 PERFORMANCE OBJECTIVES

The soil and waste from the building will be collected and discharged to the below ground drainage system by the Polypipe Terrain Ltd system. Terrain Acoustic dB12 systems are in full compliance with BS EN 12056 part 2 gravity drainage systems inside buildings.

## 2000 SYSTEM DESCRIPTION

All soil pipework is to be Terrain Acoustic dB12, which may be used in conjunction with either the Terrain Acoustic dB12 or Terrain series 200 waste systems, in the size range 40mm to 160mm. All joints to either solvent welded or ring sealed unless expansion joints are required when the Terrain purpose made seal ring joint expansion fitting must be used.

All pipes must have been tempered to reduce the risk of shortening (reversion) from high temperature discharges.

## 3000 MATERIALS

All materials will be manufactured under a BS.5750/ISO 9000 approved scheme.

All component parts of the system will be covered by manufacturer's warranty.

Pipe fittings and accessories: polypropylene be manufactured to BS EN 1451 or BS EN 1329 where applicable.

## 4000 INSTALLATION

All pipe and fitting joints will be connected using a ring seal connection.

Intermediate sliding supports must be provided in accordance with the Terrain application technique manual.

Intermediate sliding supports to fasten the pipe will be at the following intervals:

Diameter	Distance Between Guide Brackets	Distance Between Fixed Points
40	0.8	3
50	0.8	3
110	1.1	3
160	1.6	3

## 5000 FIRE COMPARTMENT INTEGRITY

Where pipes penetrate through fire compartments, built-in fire sleeves must be provided in accordance with BS 476 and Building Regulations part B. Fire protection to Terrain Acoustic dB12 pipework sizes 50mm, 110mm and 160mm outside diameter, where it passes through a designated fire barrier, compartment walls or floors, to be Terrain Acoustic dB12 intumescent fire sleeves.

The sleeve construction is to be of metal, lined with a graphite based intumescent material. The one-piece shell is to be wrapped around the pipe and held in place by a locking tab. One end of the body is to have tabs with holes for fixing to the surface.

Fixing instructions are to be as per manufacturer's recommendations.

### Vertical fixing within floor slab

Vertical Terrain Acoustic dB12 pipework of sizes 50mm, 110mm and 160mm outside diameter passing through a fire barrier to have a fire collar sleeve, supplied by Terrain, positioned within the slab thickness, but exposed at the soffit. Following installation, all openings around the sleeve are to be made good using material that will provide the necessary fire rating (i.e. concrete etc).

## **Vertical fixing to soffit of floor slab**

Vertical Terrain Acoustic dB12 pipework of sizes 50mm, 110mm and 160mm outside diameter passing through a fire barrier to have a fire collar, sleeve supplied by Terrain, fitted around the pipework and to be securely fixed flush with the soffit of the floor slab. Any imperfection between the fire collar flange and the mating surface is to be filled with intumescent mastic.

## **Horizontal fixing within wall thickness**

Horizontal Terrain Acoustic dB12 pipework of sizes 50mm, 110mm and 160mm outside diameter passing through a fire barrier to have a fire collar sleeve, supplied by Terrain, fitted around the pipework within the wall thickness with one face of the sleeve exposed. If the wall is of sufficient thickness to accommodate two sleeves, each sleeve is to have a face exposed.

## **Horizontal fixing to surface of wall**

Horizontal Terrain Acoustic dB12 pipework of sizes 50mm, 110mm and 160mm outside diameter passing through a fire barrier to have a fire collar sleeve, supplied by Terrain, fitted around the pipework on both sides of the barrier. Both sleeves to be securely fixed to the barrier and any imperfection in the joint between the Fire collar flange and the barrier surface to be filled with an intumescent mastic.

## **6000 HEALTH AND SAFETY**

When the horizontal high level pipework is being installed at high level, the installer will be responsible for providing a suitable working platform for the installation of the pipework.

Where any power tools or electrical equipment is used in the installation of Terrain pipework a Risk Assessment must be carried out before the commencement of work.

## **7000 RECORD DRAWINGS**

The installer will keep a set of working drawings on site marked-up to show "as installed" routes, sizes, access locations, invert levels etc. On completing the installation the installer will incorporate the alterations onto their working drawings using computer aided draughting and issue to the client via the engineer.

It should be noted that the installation would not be deemed complete until the record drawings and, where necessary, revised calculations have been issued and accepted.

## **8000 OPERATING AND MAINTENANCE MANUALS**

The installer will issue four bound copies of Operating and Maintenance manuals for the soil & waste disposal system to include the following as a minimum:-

- a) Indicating names and address of client, project manager, architect, consulting engineers, contractors and installer.
- b) Description of systems installed.
- c) Planned maintenance requirements.
- d) Details of guarantee.
- e) Isometrics (which have been produced using CAD).

It should be noted that the installation would not be deemed complete until the Operating and Maintenance Manuals have been issued and accepted.

## 9000 INSPECTION and TESTING

The work shall be inspected and tested during installation at agreed stages. **ALL WORK WHICH WILL BE CONCEALED SHALL BE TESTED BEFORE IT IS FINALLY ENCLOSED.**

A final test shall be made upon completion for soundness and performance in accordance with BS EN 12056 Code of Practice for Sanitary Pipework

All completed soil & waste systems to be air tested to a minimum of 38mm water gauge over 3 minutes. There will be no drop in pressure during this period in time.

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