

Polypipe Building Services Terrain Q Acoustic

1. General

The Terrain Q acoustic soil and waste drainage system consist of:

A range of extruded multilayer Polypropylene pipes with the external layer offering UV and abrasion resistance. Mineral reinforced central layer gives increased mechanical strength and improved temperature characteristics. The internal layer is manufactured using anti-fouling additive, this helps to minimise encrustation on the internal pipe bore.

A range of Push-Fit rubber ringseal engineered fittings for ease of installations engineered made from Polypropylene.

1.1 Operating Pressure and Temperature:

Terrain Q system is recommended for use as a gravity soil and waste system. It has a nominal pressure rating of 0.5bar.

Terrain Q may be used to convey liquids with a maximum temperature of 80°C when subjected to continuous flow. Intermittent discharges of up to 97°C may occur providing they are of less than 2 minutes duration.

1.2 System Sizes

Terrain Q is manufactured in the range from OD 40mm to OD of 200mm.

1.3 System Applications

Terrain Q system can be used for the following applications:

- In-building soil and waste
- Gravity rainwater
- Chemical (laboratory) soil and waste. Refer to the Terrain Q Technical Manual for table of chemical fluids and temperatures or email buildingservices.technical@polypipe.com

2. Quality Assurance

- BS EN ISO 9001 – Quality Management System
- BS EN ISO 14001 – Environmental Management System BS ISO 45001 – Occupational Health & Safety Management System
- PAS 99 – Integrated Management Registration
- BS ISO 56002 – Innovation Management System
- Cradle to Cradle Gold Certification 4965: Products Innovation Institute

3. Fire Protection

Firetrap Sleeves for Terrain Q are rated up to 4 hours fire rating to BS 476 Part 20, BS EN 1366-3 and offers protection above and below slab. The Firetrap Sleeves also hold a European Technical Assessment ETA-20/1151

Please refer to the Terrain Q Technical Manual Literature & Technical Info | Polypipe or email buildingservices.technical@polypipe.com

4. Installation Guidance

4.1 General

Installation of all sanitary pipework shall conform to EN 12056 parts 1, 2 and 5.

4.2 Thermal Movement

Control of thermal movement must be considered for a Terrain Q system. A fixed point is required every 3m run either vertical or horizontal.

4.3 Bracketry

Should be rubber lined bracketry as those listed within the Terrain Q range and are designed to optimise vibration de-coupling, these are designed not to be over-tightened on the pipe surface to avoid forming an acoustic bridge. Please refer to Terrain Q technical manual or email buildingservices.technical@polypipe.com

4.4 Stack Ventilation

A vent pipe for purposes of the installation shall be considered part of the system and as such be installed using the same methods as that seen for the soil pipe.

An alternative to the traditional secondary ventilation can be the Terrain P.A.P.A.®/Pleura system, this product can only be offered as a technical design option from Polypipe and schematic drawings would need to be provided to: buildingservices.technical@polypipe.com

5. Polypipe Advantage

The Terrain Q system can also be supplied as a fabrication option, the Advantage team supporting with design, fabrication, coordinated delivery and support. Enquiries should be sent to buildingservices.technical@polypipe.com

6. Testing

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