

Terrain FUZE HDPE is a high performance, modern drainage system which has been used on a wide range of prestigious tall buildings. It's manufactured from high density polyethylene (HDPE) so has strong abrasion, chemical and temperature resistance.

Within this technical bulletin we will look at the systems jointing methods available and why Terrain FUZE HDPE is the ideal system to use for your tall building.

### Jointing methods

Terrain FUZE HDPE is predominately jointed using either a butt fusion or electrofusion welding process, although other jointing methods are available.

### Butt welding

Butt welding is a process of using a hot plate to melt the ends of two pipe or fitting ends together. This method creates a permanent joint which cannot be pulled apart, this is the preferred method for off-site fabrication of drainage stacks.

### Electrofusion welding

An electrical current is passed through the coupling causing the wire to heat up and melt the surface of the fitting and the coupling. This jointing method is also permanent and ideal for on-site jointing, additional installations and repair work to be made.

### Expansion and ring seal sockets

Terrain FUZE HDPE, like other plastic systems will expand and contract with changes in temperature. An expansion joint contains a ring seal which allows the pipe to freely move. Expansion and ring seal sockets can also be used to adapt on to other materials of the same size. For example, 110mm PVCu will fit directly into a 110mm FUZE ring seal.

### Flanged joints

Available in sizes from 50 to 315mm, flange joints allow for a demountable connection. Flange connections are common in industrial plants as well as connections on water storage tanks. The backing rings supplied as part of the Terrain FUZE HDPE system use standard dimensions to PN10/16



Butt weld



Electrofusion weld



Expansion socket



Flanged joint

#### Compression joints

Available in sizes from 40 to 110mm, compression joints can be used to allow for a demountable connection or for when connecting different materials is required.

#### Threaded connections

Available in sizes from 40 to 75mm in female and 50 to 75mm in male, a range of BSP threaded fittings are available for jointing on to other materials

#### What makes Terrain FUZE HDPE ideal for drainage in tall buildings

- Highly resistant to impact even at low temperatures
- Highly resistant to chemical agents
- Leak free homogenous welded joints
- Corrosion and abrasion resistant
- Light in weight and easy to install
- Ideal for fabrication
- Suitable for use with the Terrain HydroMax™ siphonic system
- Compatible with our other Terrain drainage systems
- BBA certified



BSP male thread



BSP female thread



Compression joint

