

# Cuerden Business Village Gas Risk Assessment

## Project Description Sheet

### Location

Cuerden Way, Preston

### Client

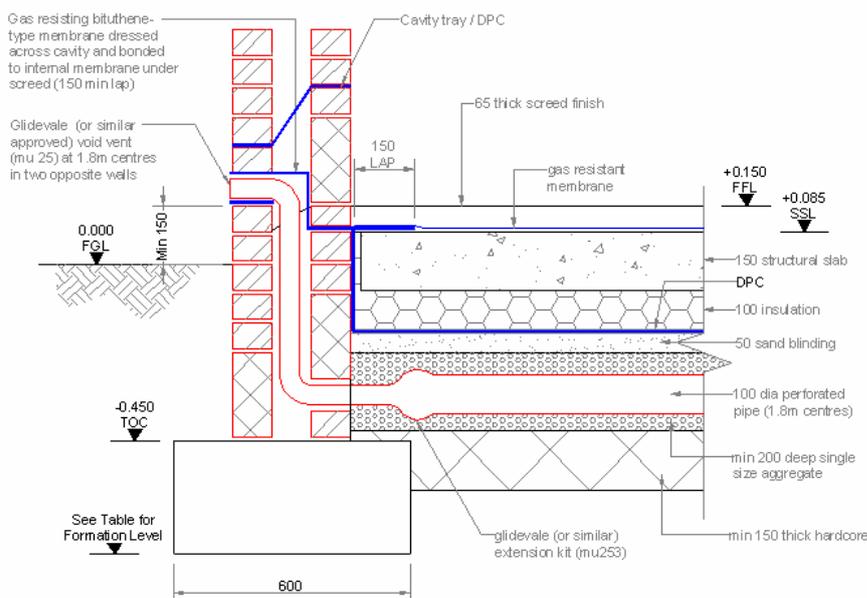
Development Partnership  
Lancashire Ltd

### Completed

Ongoing

### Key Project Elements

Phase 1 Land Quality Assessment  
Ground Investigation  
Phase 2a Interpretative Report  
Gas Risk Assessment  
Foundation Design  
Gas Membrane Specification



Typical Section Through Strip Footing

Scale 1:10

PSA Design were commissioned to assess likely contamination of the site of a former nightclub in Bamber Bridge, Preston. The land was to be developed for commercial offices.

The site was investigated both for geotechnical properties of the ground, to aid foundation design plus a contaminated land assessment carried out in accordance with BS 10175:2001.

The investigation concluded that the site was underlain by a moderately dense sand / stiff clay of glacial till origin.

The desk study flagged up two historic landfills within 100m of the site, an infilled sandpit and large mill pond.

The investigation combined gaining geotechnical parameters for the foundation design with environmental data. Gas monitoring revealed moderate levels of carbon dioxide within the ground which following a gas risk assessment required further action.

Appropriate foundations were designed that adopted gas prevention measures including a passive venting and membrane system.

PSA Design provided full design services for the site including structural, highways transport and drainage works.