

Cuerden Business Village Gas Risk Assessment

Project Description Sheet

Cavity tray / DPC type membrane dressed across cavity and bonded to internal membrane unde ed (150 min lap) -65 thick screed finish approved) void vent (mu 25) at 1.8m centres LAP gas resistant +0.150 m em brane 0.000 150 structural slab -DPC 50 sand blinding 100 dia perforated pipe (1.8m centres) min 200 deep single See Table for m in 150 thick hardcore Formation Level extension kit (mu253) 600 Typical Section Through

Strip Footing
Scale 1:10

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

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.

The Old Bank House 6 Berry Lane Longridge, Preston PR3 3JA



