UNDERPINNING – PILED RAFT

UP3

INTRODUCTION

Where either individual rooms, or entire dwellings require stabilisation, piled rafts prove to be the both cost efficient and feasible solution.

PILING OPTIONS

Nib / pile positions are no more than 1.45m centres, thus depending upon the weight of the structure, piles will be installed between loads of 50kN and 250kN. Therefore, the following piles would be utilised, dependant upon ground conditions present.

Driven

100mm Dia. – SWL 50kN

150mm Dia. – SWL 100kN

220mm Dia. – SWL 200kN

Augered

200mm Dia. – SWL 125kN

250mm Dia. – SWL 175kN

300mm Dia. – SWL 250kN

INSTALLATION

Piles either driven or augered are installed and then connected to reinforced concrete nibs, positioned through the walls. These are subsequently tied into a reinforced concrete raft above.

ADVANTAGES

I) Provides full lateral restraint throughout the structure to internal walls

II) Reduces costs as ground floor slab provided, therefore only insulation and screed required to complete ground floor

III) Provides full isolation from underlying strata in heave situations

IV) Cost efficient compared to individual needle beams or dig outs systems

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