



U7 Twin Pile



Federation of Piling Specialists



Deep Foundations Institute



Association of Specialist Underpinning Contractors and Engineered Foundations



Description

The system comprises of a series of pairs of reinforced steel cased mini-piles installed from one side of the wall only. Connection to the existing foundation is made by bond within a hole drilled through the foundation.

Loading Capabilities

Maximum load is 50kN per pair of piles. The minimum anchor pile length is 3.3m actual required lengths vary with soil parameters. The minimum compression pile length is 3.5m.

Application

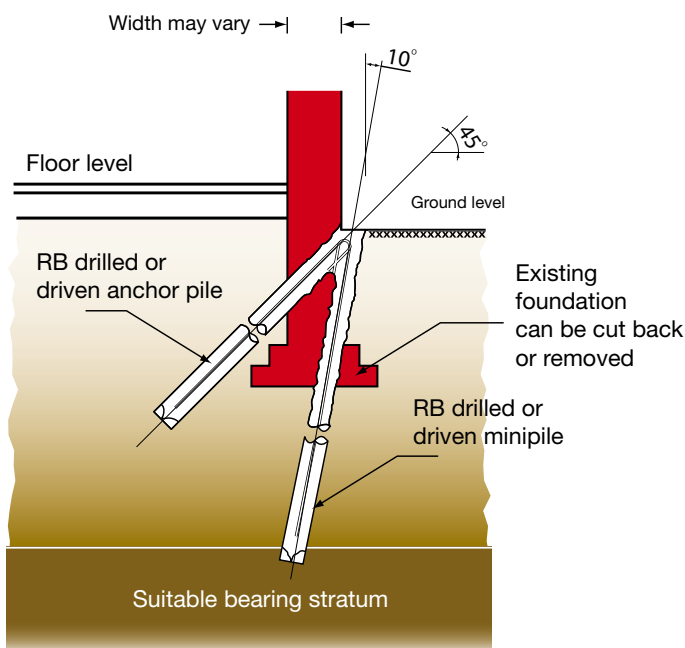
The minimum thickness of foundation are 225mm for the 90mm diameter pile and 200mm for the 100mm diameter pile.

Installation Procedure

The piles are formed by bottom driving 90mm or 120mm thin walled steel casing to lengths dictated by set and static calculation. The required reinforcement is then placed in the casing after being filled with concrete.

Advantages

- a) Recommended low cost underpinning scheme.
- b) Because large excavations are not required, disruption and mess are kept to a minimum.
- c) Economical at depths greater than 1.5m. Additional costs are linear for increased depth.



U7 Section through foundation



