

Note:

1. Loads shown are unfactored dead and imposed loads.
2. Basement slab loads are excluded from the column and wall loads shown. The basement slab is assumed to be ground bearing.

Basement slab load, Ground bearing:
Dead = 9.2 kN/m²
Imposed = 1.5 kN/m²

Column load at pad foundation level. Columns supporting internal loadbearing wall above ground:

In temporary condition (construction loads) pad foundation supports column load:

Dead = 200 kN (construction loads)

Imposed = 25 kN (construction loads)

In final condition column load is carried on basement slab with pad foundation acting to stiffen the base. (basement slab 2.0x1.4m forms effective base)

Dead = 300 kN (final design loads)

Imposed = 100 kN (final design loads)

Vertical loads on perimeter underpinned retaining wall:

Dead = 110 kN/m

Imposed = 20 kN/m

(Retaining wall shown blue)

Dead = 120 kN/m

Imposed = 20 kN/m

(Retaining wall shown green)

Dead = 130 kN/m

Imposed = 20 kN/m

(Retaining wall shown red)

Dead = 50 kN/m

Imposed = 5 kN/m

(Retaining wall shown purple)

Denotes Steel column supported on pad foundation.
Pad foundation 1.5mx1.0m.
Pad foundations installed from ground level as part of underpinning works. (See detail drawing).

300mm thk. slab

Basement Plan showing estimate of Foundation loads.

Pad foundations supporting first floor extension. Ground beams span on to pads:

Dead = 160 kN

Imposed = 40 kN

10 Clorane Gardens

Structural scheme.

Wall and Column loads at basement level.

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ALAN BAXTER PARTNERSHIP^{LLP}

CONSULTING STRUCTURAL ENGINEERS

THE CLOCK BUILDING

PYMES COURT

BUSBRIDGE ROAD

LOOSE

MAIDSTONE

KENT ME15 0HZ

TELEPHONE: 01622 744263

FAX: 01622 749270

EMAIL: mail@abpengineers.co.uk

ABP