Calculations for Waffle Pod Slab

Requirements for plan take off and estimating:

Architectural floor plan, Engineer plan and Slab detail or Soil test report.

For Waffle Pod accessories

1. *Divide the total area m^2 by 1.51 to get number of Waffle Pod require for the slab.*

2. *Multiply the number of pods by 1.40 to calculate the number of 4 way spacer.*

3. *Divide the total number of 4 way spacer by 3 to calculate number of 2 way spacer.*

4. *Divide the length of the perimeter beam by 1.2 to calculate a total of trench mesh chair.*

5. *Multiply the number of pods by 3 to calculate the Bar Chairs (25/40) required.*

For reinforcing quantities

1. *Multiply the number of pods by 2.3 then divide by 5.5 to calculate the number of Y bar in 6 meter lengths required.*

2. *Measure and calculate any extra Y bar requirements (ie. principal ribs re-entrant corners etc)*

3. *Divide lineal meters of edge beam 5.5 to calculate the trench mesh or bar as required by engineer (Y bar may be replaced with trench mesh)*

4. *Divide total m^2 of slab by 12.5 to calculate mesh requirements.*

For concrete quantities (Quick calculation only)

85mm Thick slab:

- *Multiply m^2 of slab by 0.155 for 310 high slab.*
- *Multiply m^2 of slab by 0.175 for 385 high slab.*
- *Multiply m^2 of slab by 0.195 for 460 high slab.*

100mm Thick slab:

- *Multiply m^2 of slab by 0.170 for 310 high slab.*
- *Multiply m^2 of slab by 0.190 for 385 high slab.*
- *Multiply m^2 of slab by 0.210 for 460 high slab.*

For concrete quantities (More accurate)

1. *Multiply total lineal mere of edge beam by (Normally) 150x150*

2. *Multiply total lineal meter of edge beam by the total height of slab by 50mm*

3. *Divide total m^2 of slab by 8.35 on 260 mm high slab.*

   Divide total m^2 of slab by 7.80 on 310 mm high slab.

   Divide total m^2 of slab by 6.93 on 385 mm high slab.

   Divide total m^2 of slab by 6.30 on 460 mm high slab.

   Divide total m^2 of slab by 5.00 on 610 mm high slab.

4. *Add totals of steps 1-2 & 3 together and add 3% for waste this would b the estimate of concrete requirements.*

For concrete volume of piers

350mm diameter multiply lineal meter by 0.097 equals m^3 required.

450mm diameter multiply lineal meter by 0.156 equals m^3 required.

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