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 required 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)
1. Multiply total lineal meter 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 be the estimate of concrete requirements.

For concrete quantities (More accurate)
1. Multiply total lineal meter 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 be 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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