

تفاصيل حصر خرسانة القواعد العادية

Zone (1) :

The total area = 1419.8 m²

Area of voids = 332.53 m²

Area of arch (1) = 100.99 m²

Voids arch (1) = 20.75 m²

Area of arch (2) = 91.94 m²

Voids of arch (2) = 16.75 m²

Total area of (zone 1) = 1612.75 m²

Total area of voids of (zone 1) = 370 m²

The net area of plain concrete = 1612.75 – 370 = 1442.75 m²

*Volume of plain concrete = 1442.75 * 0.4 = 577.1 m³*

Zone (2) :

The total area of matt foundation = 2120.63 m²

The area of remained foundation = 500.88 m²

Area of voids in remained foundation = 119.81 m²

The total net area of (zone 2) = 2501.71 m²

Volume of plain concrete = 1000.7 m³

Zone (3):

The total area = 1419.82 m²

Area of voids = 298.1 m²

Area of arch (1) = 100.99 m²

Voids arch (1) = 20.75 m²

Area of arch (2) = 91.94 m²

Voids of arch (2) = 16.75 m²

Total area of (zone 2) = 1612.75 m²

Total area of voids of (zone 2) = 335.6 m²

The net area of plain concrete = 1612.75 – 335.6 = 1277.15 m²

Volume of plain concrete = 1277.15 *
0.4 = 510.9 m³

Zone (1) + zone (2) + zone (3) = 577.1 + 1000.7 + 510.9 = 2088.7 m³

Nearly = 2100 m³

المحتوى الأسمنتي للخرسانة العادية لا يقل عن 250 كجم / م³ .

عدد شكاثر الأسمنت = 5 * 2100 = 10500 شيكارة .

كمية الأسمنت بالطن = 10500 / 20 = 525 طن .

كمية الزلط = 0.8 * 2100 = 1680 م³ .

كمية الرمل = 0.4 * 2100 = 840 م³ .

تفاصيل حصر الخرسانه المسلحه للقواعد

Zone (1):

Total area= 1443 .15 m²

Area of voids= 597 .044 m²

Net area of R .C=1443 .15 - 597 .044 = 846.1 m²

Volume of R .C = 846 .1 * .5 =423.05 m³

Zone (2):

Net area of matt foundation = 2063.4 m²

Area of remained foundation = 397.58 m²

Area of voids = 122.94 m²

Total net area of (zone 2) = 2338.04 m²

Volume of R.C = 2338.04 * 0.5 =1169.02 m³

Zone (3):

Total area= 1444 .81 m²

Area of voids= 540 .37 m²

Net area of R .C=1444.15 – 540.37 = 904.44 m²

Volume of R .C = 904.44 * .5 = 452.22 m³

-Inverted beam:

Zone (1):

Total area = 1327.42 m²

Area of voids = 1025.83 m²

Net area of R.C = 301.59 m²

*Volume of R.C = 301.59 * 0.7 = 211.1 m³*

Zone (2):

Total area = 2349.42 m²

Are of voids = 1498.86 m²

Net are of R.C = 850.56 m²

*Volume of R.C = 850.56 * 0.7 = 595.4 m³*

Zone (3):

Total area = 1327.42 m²

Area of voids = 1025.83 m²

Net area of R.C = 301.59 m²

*Volume of R.C = 301.59 * 0.7 = 211.1 m³*

- smells:

Zone (1):

$$\text{Volume of R.C (s1)} = L * B * H$$

$$= 67.77 * 0.25 * 0.6 = 10.2 \text{ m}^3$$

$$\text{Volume of R.C (s2)} = 23.7 * 0.25 * 0.5 = 2.97 \text{ m}^3$$

$$\text{Total volume of R.C} = 10.2 + 2.97 = 13.2 \text{ m}^3$$

Zone (3):

$$\text{Volume of R.C (s1)} = 117.8 * 0.25 * 0.6 = 17.67 \text{ m}^3$$

$$\text{Volume of R.C (s2)} = 68.1 * 0.25 * 0.5 = 8.51 \text{ m}^3$$

$$\text{Total volume of R.C} = 17.67 + 8.51 = 26.2 \text{ m}^3$$

$$\text{The total volume of reinforced concrete} = 3101.29 \text{ m}^3$$

$$\text{Nearly} = 3100 \text{ m}^3$$

المحتوى الأسمنتى للخرسانة المسلحة لا يقل عن 350 كجم/م³.

$$\text{عدد الشكاثر} = 3100 * 7 = 21700 \text{ شيكارة}.$$

$$\text{عدد الأسمنت بالطن} = 21700 / 20 = 1085 \text{ طن}.$$

$$\text{كمية الزلط} = 3100 * 0.8 = 2480 \text{ م}^3.$$

$$\text{كمية الرمل} = 3100 * 0.4 = 1240 \text{ م}^3.$$