

**Table 1: Material Properties**

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|                                           |                     |
|-------------------------------------------|---------------------|
| Material                                  | Material Properties |
| Concrete                                  | 100 MPa             |
| Reinforcement (Steel)                     | 100                 |
| Concrete Modulus of Elasticity (GPa)      | 22.5                |
| Reinforcement Modulus of Elasticity (GPa) | 0.75                |
| Concrete Poisson's Ratio                  | 2.5                 |
| Reinforcement Poisson's Ratio             | 2.5                 |
| Reinforcement Yield Strength (MPa)        | 200                 |
| Reinforcement Diameter (mm)               | Φ750 × 700          |

Table 2:

Table 2: Material Properties. This table lists the material properties for the concrete and reinforcement used in the analysis. The properties include the modulus of elasticity, Poisson's ratio, yield strength, and diameter of the reinforcement.

Table 3: Material Properties & Dimensions:

- Concrete Modulus of Elasticity (GPa)
- Reinforcement Modulus of Elasticity (GPa)

Table 4:

- Concrete Modulus of Elasticity (GPa), Reinforcement Modulus of Elasticity (GPa), Concrete Poisson's Ratio, Reinforcement Poisson's Ratio, Reinforcement Yield Strength (MPa), Reinforcement Diameter (mm)
- Concrete Modulus of Elasticity (GPa), Reinforcement Modulus of Elasticity (GPa), Concrete Poisson's Ratio, Reinforcement Poisson's Ratio, Reinforcement Yield Strength (MPa), Reinforcement Diameter (mm)

Table 5:



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