* MEMBER NAME : B01 [ All Section ]
  1. General Information
     1. Design Code : ECP\_203\_2007
     2. Unit System : N, mm
  2. Material
     1. : 24.00MPa
     2. : 400MPa
     3. : 400MPa
  3. Section
     1. Section Size : 400 x 600mm (R-Section)
     2. Cover : 40.00mm
     3. Compression Bar : Not Considered
     4. Splice Type : 50%



* 1. Moments and Forces
     1. : 0.000kN·m
     2. : 104kN·m
     3. : 0.000kN
  2. Reinforcement
     1. Top Bar : 4-#8 (
        + Layer 1 : 4 EA (
     2. Bot Bar : 4-#8 (
        + Layer 1 : 4 EA (
     3. Stirrup : 4-#3@200 (= 284mm²)
  3. Check Bending Moment Capacity (Positive)
     1. Calculate design parameter
     2. Check space of rebar
        + 200mm,

s = 91.85 < 200mm ¡æ O.K

* + 1. Calculate required ratio of reinforcement
       - = 0.0035
    2. Check ratio of tensile reinforcement
    3. Calculate moment capacity
       - Φ = 1.000
    4. Calculate ratio of moment capacity
  1. Check Bending Moment Capacity (Negative)
     1. Calculate design parameter
     2. Check space of rebar
        + Moment is zero. Skipped.
     3. Calculate required ratio of reinforcement
        + Moment is zero. Skipped.
     4. Calculate moment capacity
        + Moment is zero. Skipped.
  2. Check Shear Capacity
     1. Calculate shear strength by concrete
        + d = 538mm
     2. Calculate shear strength by stirrup
        + )
        + = 60.00mm²
     3. Calculate ratio of shear capacity (s = 200mm)