PROJECT TITLE :

MIDAS	Company		Client	
	Author		File Name	

```
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 midas Gen - RC-Slab Flexural Design     [ NSR-10 ]                          Gen 2025
============================================================================================


================================================================================
    [[[*]]]   SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN 1-[1], Dir 2.
================================================================================
 ------------------------------------------------------------------
     Thk   Elem POS  AsReq  AsUse |      Mu( LCB)     fMn   Rat CHK
 ------------------------------------------------------------------
  200.00     40 BOT 0.2500 0.5161 | 1450.52(   1) 23145.3 0.063  OK
            105 TOP 0.2500 0.5161 | 1395.10(   2) 23145.3 0.060  OK
 ------------------------------------------------------------------


 << BOTTOM >>

 -. Information of Parameters.
    Elem No.  : 40
    Node No.  : 33
    Thickness :  200.0000 mm.
    Materials :  fc  =     27.5790 MPa.
                 Fy  =    413.6856 MPa.
    Covering  :  dB  =  75.0000 mm.
                 dT  =  75.0000 mm.
    LCB No.   :    1

 -. Information of Strength Reduction Factor.
    phic   =   0.650
    phit   =   0.900
    et     = 0.03200
    ety    = 0.00207
    etu    = 0.00500
    et > etu ; Tension-controlled
    phi    = phit =   0.900

 -. Information of Design.
    b      =   1.0000 mm.  (by Code Unit Length).
    d      = 125.0000 mm.

 -. Information of Moments and Result.
    Rein. Bar :  #4 @250
    As_req =       0.2500 mm^2/mm.  (     250.0000 mm^2/m.)
    As_use =       0.5161 mm^2/mm.  (     516.1280 mm^2/m.)
    Mn     = As_use*Fy*[d-As_use*Fy/(1.7*fc*b)] =   25716.9770  N-mm./mm.
    phiMn  = phi * Mn   =   23145.2793  N-mm./mm.
    Mu                  =    1450.5196  N-mm./mm.
    RatM   = Mu / phiMn =   0.063  <  1.0  --->  O.K !

 << TOP >>

 -. Information of Parameters.
    Elem No.  : 105
    Node No.  : 119
    Thickness :  200.0000 mm.
    Materials :  fc  =     27.5790 MPa.
                 Fy  =    413.6856 MPa.
    Covering  :  dB  =  75.0000 mm.
                 dT  =  75.0000 mm.
    LCB No.   :    2

 -. Information of Strength Reduction Factor.
    phic   =   0.650
    phit   =   0.900
    et     = 0.03200
    ety    = 0.00207
    etu    = 0.00500
    et > etu ; Tension-controlled
    phi    = phit =   0.900

 -. Information of Design.
    b      =   1.0000 mm.  (by Code Unit Length).
    d      = 125.0000 mm.

 -. Information of Moments and Result.
    Rein. Bar :  #4 @250
    As_req =       0.2500 mm^2/mm.  (     250.0000 mm^2/m.)
    As_use =       0.5161 mm^2/mm.  (     516.1280 mm^2/m.)
```

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```
    Mn     = As_use*Fy*[d-As_use*Fy/(1.7*fc*b)] =   25716.9770  N-mm./mm.
    phiMn  = phi * Mn   =   23145.2793  N-mm./mm.
    Mu                  =    1395.0989  N-mm./mm.
    RatM   = Mu / phiMn =   0.060  <  1.0  --->  O.K !

================================================================================
    [[[*]]]   SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN 2-[1], Dir 2.
================================================================================
 ------------------------------------------------------------------
     Thk   Elem POS  AsReq  AsUse |      Mu( LCB)     fMn   Rat CHK
 ------------------------------------------------------------------
  300.00    364 BOT 0.4500 0.5161 | 4424.39(   2) 42361.6 0.104  OK
            300 TOP 0.4500 0.5161 | 5970.16(   1) 42361.6 0.141  OK
 ------------------------------------------------------------------


 << BOTTOM >>

 -. Information of Parameters.
    Elem No.  : 364
    Node No.  : 314
    Thickness :  300.0000 mm.
    Materials :  fc  =     27.5790 MPa.
                 Fy  =    413.6856 MPa.
    Covering  :  dB  =  75.0000 mm.
                 dT  =  75.0000 mm.
    LCB No.   :    2

 -. Information of Strength Reduction Factor.
    phic   =   0.650
    phit   =   0.900
    et     = 0.05999
    ety    = 0.00207
    etu    = 0.00500
    et > etu ; Tension-controlled
    phi    = phit =   0.900

 -. Information of Design.
    b      =   1.0000 mm.  (by Code Unit Length).
    d      = 225.0000 mm.

 -. Information of Moments and Result.
    Rein. Bar :  #4 @250
    As_req =       0.4500 mm^2/mm.  (     450.0000 mm^2/m.)
    As_use =       0.5161 mm^2/mm.  (     516.1280 mm^2/m.)
    Mn     = As_use*Fy*[d-As_use*Fy/(1.7*fc*b)] =   47068.4474  N-mm./mm.
    phiMn  = phi * Mn   =   42361.6026  N-mm./mm.
    Mu                  =    4424.3864  N-mm./mm.
    RatM   = Mu / phiMn =   0.104  <  1.0  --->  O.K !
```

PROJECT TITLE :

MIDAS	Company		Client	
	Author		File Name	

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 midas Gen - RC-Slab Flexural Design     [ NSR-10 ]                          Gen 2025
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 << TOP >>

 -. Information of Parameters.
    Elem No.  : 300
    Node No.  : 400
    Thickness :  300.0000 mm.
    Materials :  fc  =     27.5790 MPa.
                 Fy  =    413.6856 MPa.
    Covering  :  dB  =  75.0000 mm.
                 dT  =  75.0000 mm.
    LCB No.   :    1

 -. Information of Strength Reduction Factor.
    phic   =   0.650
    phit   =   0.900
    et     = 0.05999
    ety    = 0.00207
    etu    = 0.00500
    et > etu ; Tension-controlled
    phi    = phit =   0.900

 -. Information of Design.
    b      =   1.0000 mm.  (by Code Unit Length).
    d      = 225.0000 mm.

 -. Information of Moments and Result.
    Rein. Bar :  #4 @250
    As_req =       0.4500 mm^2/mm.  (     450.0000 mm^2/m.)
    As use =       0.5161 mm^2/mm.  (     516.1280 mm^2/m.)
    Mn     = As use*Fy*[d-As use*Fy/(1.7*fc*b)] =   47068.4474  N-mm./mm.
    phiMn  = phi * Mn   =   42361.6026  N-mm./mm.
    Mu                  =    5970.1620  N-mm./mm.
    RatM   = Mu / phiMn =   0.141  <  1.0  --->  O.K !
```