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    224 BOT 0.2302 0.5161 | 2513.74(   1) 23145.3 0.109  OK
            168 TOP 0.2500 0.5161 | 4153.98(   7) 23145.3 0.179  OK
 ------------------------------------------------------------------


 << BOTTOM >>

 -. Information of Parameters.
    Elem No.  : 224
    Node No.  : 179
    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 =       0.2302 mm^2/mm.  (     230.2434 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                  =    2513.7417  N-mm./mm.
    RatM   = Mu / phiMn =   0.109  <  1.0  --->  O.K !

 << TOP >>

 -. Information of Parameters.
    Elem No.  : 168
    Node No.  : 155
    Thickness :  200.0000 mm.
    Materials :  fc  =     27.5790 MPa.
                 Fy  =    413.6856 MPa.
    Covering  :  dB  =  75.0000 mm.
                 dT  =  75.0000 mm.
    LCB No.   :    7

 -. 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                  =    4153.9763  N-mm./mm.
    RatM   = Mu / phiMn =   0.179  <  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    447 BOT 0.4500 0.5161 | 15255.4(   7) 42361.6 0.360  OK
            549 TOP 0.4500 0.5161 | 11938.7(   1) 42361.6 0.282  OK
 ------------------------------------------------------------------


 << BOTTOM >>

 -. Information of Parameters.
    Elem No.  : 447
    Node No.  : 559
    Thickness :  300.0000 mm.
    Materials :  fc  =     27.5790 MPa.
                 Fy  =    413.6856 MPa.
    Covering  :  dB  =  75.0000 mm.
                 dT  =  75.0000 mm.
    LCB No.   :    7

 -. 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                  =   15255.3534  N-mm./mm.
    RatM   = Mu / phiMn =   0.360  <  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.  : 549
    Node No.  : 731
    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                  =   11938.7490  N-mm./mm.
    RatM   = Mu / phiMn =   0.282  <  1.0  --->  O.K !
```