PROJECT TITLE :

MIDAS	Company		Client	
	Author	Ing. Osvaldo Guzman Avila	File Name	P046-2024-MOD-001

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 midas Gen - RC-Slab Flexural Design     [ NSR-10 ]                          Gen 2024
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================================================================================
    [[[*]]]   SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN 1-[1], Dir 1.
================================================================================
 ------------------------------------------------------------------
     Thk   Elem POS  AsReq  AsUse |      Mu( LCB)     fMn   Rat CHK
 ------------------------------------------------------------------
  300.00     79 BOT 0.4500 0.4731 | 9707.84(   2) 38898.3 0.250  OK
             90 TOP 0.4500 0.4731 | 7334.59(   1) 38898.3 0.189  OK
 ------------------------------------------------------------------


 << BOTTOM >>

 -. Information of Parameters.
    Elem No.  : 79
    Node No.  : 13
    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     = 0.06572
    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 :  #3 @150
    As_req =       0.4500 mm^2/mm.  (     450.0000 mm^2/m.)
    As_use =       0.4731 mm^2/mm.  (     473.1173 mm^2/m.)
    Mn     = As_use*Fy*[d-As_use*Fy/(1.7*fc*b)] =   43220.3543  N-mm./mm.
    phiMn  = phi * Mn   =   38898.3189  N-mm./mm.
    Mu                  =    9707.8368  N-mm./mm.
    RatM   = Mu / phiMn =   0.250  <  1.0  --->  O.K !

 << TOP >>

 -. Information of Parameters.
    Elem No.  : 90
    Node No.  : 43
    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     = 0.06572
    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 :  #3 @150
    As_req =       0.4500 mm^2/mm.  (     450.0000 mm^2/m.)
    As_use =       0.4731 mm^2/mm.  (     473.1173 mm^2/m.)
    Mn     = As_use*Fy*[d-As_use*Fy/(1.7*fc*b)] =   43220.3543  N-mm./mm.
    phiMn  = phi * Mn   =   38898.3189  N-mm./mm.
    Mu                  =    7334.5935  N-mm./mm.
    RatM   = Mu / phiMn =   0.189  <  1.0  --->  O.K !

================================================================================
    [[[*]]]   SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN 4-[1], Dir 1.
================================================================================
 ------------------------------------------------------------------
     Thk   Elem POS  AsReq  AsUse |      Mu( LCB)     fMn   Rat CHK
 ------------------------------------------------------------------
  250.00    373 BOT 0.3500 0.3548 | 6668.73(   1) 22706.0 0.294  OK
            377 TOP 0.3500 0.3548 | 6499.79(   1) 22706.0 0.286  OK
 ------------------------------------------------------------------


 << BOTTOM >>

 -. Information of Parameters.
    Elem No.  : 373
    Node No.  : 374
    Thickness :  250.0000 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     = 0.06826
    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      = 175.0000 mm.

 -. Information of Moments and Result.
    Rein. Bar :  #3 @200
    As_req =       0.3500 mm^2/mm.  (     350.0000 mm^2/m.)
    As_use =       0.3548 mm^2/mm.  (     354.8380 mm^2/m.)
    Mn     = As_use*Fy*[d-As_use*Fy/(1.7*fc*b)] =   25228.8953  N-mm./mm.
    phiMn  = phi * Mn   =   22706.0058  N-mm./mm.
    Mu                  =    6668.7309  N-mm./mm.
    RatM   = Mu / phiMn =   0.294  <  1.0  --->  O.K !
```

PROJECT TITLE :

MIDAS	Company		Client	
	Author	Ing. Osvaldo Guzman Avila	File Name	P046-2024-MOD-001

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 midas Gen - RC-Slab Flexural Design     [ NSR-10 ]                          Gen 2024
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 << TOP >>

 -. Information of Parameters.
    Elem No.  : 377
    Node No.  : 478
    Thickness :  250.0000 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     = 0.06826
    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      = 175.0000 mm.

 -. Information of Moments and Result.
    Rein. Bar :  #3 @200
    As_req =       0.3500 mm^2/mm.  (     350.0000 mm^2/m.)
    As_use =       0.3548 mm^2/mm.  (     354.8380 mm^2/m.)
    Mn     = As_use*Fy*[d-As_use*Fy/(1.7*fc*b)] =   25228.8953  N-mm./mm.
    phiMn  = phi * Mn   =   22706.0058  N-mm./mm.
    Mu                  =    6499.7870  N-mm./mm.
    RatM   = Mu / phiMn =   0.286  <  1.0  --->  O.K !
```