

Current Date: 09/10/2023 08:38 a.m.

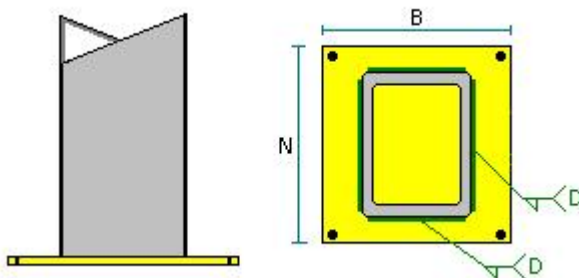
Units system: Metric

File name: C:\Users\Toshiba\Desktop\JCYD\PERNOS DE ANCLAJE\PERNOS Y PLACA.cnx\

Steel connections

Connection name : COBERTURA CURVA METALICA
Connection ID : 1
Design code : AISC 360-2005 LRFD

Family : Base plate (BPI)
 Type : Column - Base (CB)
 Description : COBERTURA CURVA METALICA



GENERAL DATA

Design axis : Major axis
 Cracked concrete : No
 Brittle steel : No
 Anchor bolts welded to base plate : Yes
 Consider friction : No
 Pressure distribution : Uniform

MEMBERS:

Column

Section = HSS_RECT 20X8X5_8
 a = 50.80 [cm]
 b = 20.32 [cm]
 T = 1.48 [cm]

Material = A36
 Fy = 2.53 [Ton/cm²]
 Fu = 4.08 [Ton/cm²]

Pedestal

Longitudinal dimension = 0.90 [m]
 Transversal dimension = 0.30 [m]
 Thickness = 1.00 [m]

Material = C 3-60
 Fc = 0.21 [Ton/cm²]

CONNECTION(S):

Base plate

Plate

Length	=	60.00 [cm]
Width	=	30.00 [cm]
Thickness	=	0.64 [cm]
Material	=	A36
Fy	=	2.53 [Ton/cm2]
Fu	=	4.08 [Ton/cm2]
Weld	=	E70XX
D	=	5 [1/16 in]

Grouting

Thickness	=	1.27 [cm]
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Anchors

Material	=	A307 GrC
Fy	=	2.53 [Ton/cm2]
Fu	=	4.08 [Ton/cm2]

Geometry type	=	Longitudinal
Anchor type	=	L-bolt
D	=	1.59 [cm]
Effective length	=	26.48 [cm]
Total length	=	30.48 [cm]
Lev	=	9.00 [cm]
Leh	=	7.50 [cm]

Longitudinal edge distance on the plate
Transverse edge distance on the plate

Anchor	Transverse [cm]	Longitudinal [cm]
1	-6.00	-22.50
2	-6.00	-7.50
3	-6.00	7.50
4	-6.00	22.50
5	6.00	22.50
6	6.00	7.50
7	6.00	-7.50
8	6.00	-22.50