

Current Date: 13/10/2022 05:57 p.m.

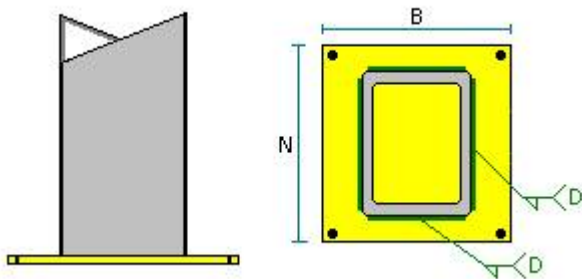
Units system: Metric

File name: C:\Users\Toshiba\Desktop\JCYD\COBERTURA-COLISEO SAN ANDRES\PERNO Y PLACA DE ANCLAJE\PERNO Y PLACA DE ANCLAJE DE COBERTURA -

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:

<u>Column</u>	
Section	= HSS_RECT 20X8X5_8
a	= 50.80 [cm]
b	= 20.32 [cm]
T	= 1.48 [cm]
Material	= A36
Fy	= 2.53 [Ton/cm ²]
Fu	= 4.08 [Ton/cm ²]

<u>Pedestal</u>	
Longitudinal dimension	= 0.90 [m]
Transversal dimension	= 0.30 [m]
Thickness	= 1.00 [m]
Material	= C 3-60
Fc	= 0.21 [Ton/cm ²]

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