Mark: J05

canamsteel Corporation

Project: WEST MIAMI SIX MODEL B

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FORCES IN MEMBERS [kips]

(THE SHOWN FORCES ARE REALS)
(Fy = 50 Ksi U/N)

(Eff. depth = 18.46 in)

Left Reaction = 3.96/ 0.00 kips Right Reaction = 3.96/ 0.00 kips

No	Tension	Compres.	REQUIRED MATERIAL x = tied at mid-length	Slend.	Util.	Length	REQUIRED WELD Eff.Throat-Ea.Side	Remarks
Top Chord								
1.1	0.00	-3.91	Top Hanbro	0	0.24	2'-4"		
1.2	0.00	-3.82	do	0	0.23	0'-11 3/4"		
1.3	0.00	-5.61	do	0	0.34	2'-0"		
1.4	0.00	-7.14	do	0	0.44	do		
1.5	0.00	-7.91	Top Hanbro	0	0.49	2'-0"		
Bottom Chord								
2.1	0.00	0.00	LL 1.5 x .109	z 102	0.31	2'-7 3/4"		
2.2	6.78	0.00	do	z 67	0.43	1'-8"		
2.3	9.58	0.00	do	z 81	0.51	2'-0"		
2.4	11.26	0.00	do	z 81	0.60	do		
2.5	11.82	0.00	LL 1.5 x .109	z 81	0.63	2'-0"		
End Diagonal								
3.1	7.11	0.00	RD 9/16"	z 185	0.95	2'-8 5/8"	.178 - 1"	
Diagonal Towards End								
4.1	2.69	0.00	RD 9/16"	z 116	0.36	1'-8"	.178 - 0 3/4"	
4.2	1.62	0.00	do	z 116	0.22	do	do	
4.3	1.24	0.00	RD 9/16"	z 116	0.17	1'-8"	.178 - 0 3/4"	
Diagonal Towards Center								
5.1	0.00	-3.33	RD 9/16"	z 105	0.92	1'-5 7/8"	.178 - 0 3/4"	
5.2	0.00	-2.69	do	z 116	0.98	1'-8"	do	
5.3	0.00	-1.62	do	z 116	0.59	do	do	
5.4	0.00	-1.24	RD 9/16"	z 116	0.45	1'-8"	.178 - 0 3/4"	
Secondary Web Member								
7.1	0.00	-0.74	RD 9/16"	z 97	0.19	1'-4 3/8"	.178 - 0 3/4"	

VIBRATION (ALLEN-MURRAY)

- Full height partition between floor ..... = (.29 % a/g)
- Demontable partition on all the surface ..... = (.48 % a/g)
- Without partition ..... =(.71 % a/g)
- Frequency ..... = 8.43 Hz.

BRIDGING

Laterals supports

Maximum spacing between rows of bridging
@ Top Chord: Roll Bars spaced at 21'' C/C (533 mm).
@ Bottom Chord: ==> 0 Row(s) Minimum

V3.6.3.1

Keep 1/3 stress increase for wind : No
Fabrication code unless noted
-LL = 2 angles short legs back to back, BL = 2 angles welded in box, BR = Round bar
-U = 1 U profile, UU = 2 U profiles one inside the other, -CL = Crimped angle
The welding length of web members is calculated according to non continuous joints.
It is shorter for continuous joints.

Projets no.: H4183-SJ1 Designer: Lois Avramides Shop: Jacksonville [Sales]

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