

Steel Design Report

Project:: Lesson2 (C:\DCC\VersaFrame 6\Projects\Lesson2_Done)
 Description:
 Date: 04/05/2013 03:18 PM

Company:
 User:
 Software: Digital Canal VersaFrame

Design Results (ASD 13)

GROUP DESIGN SUMMARY

ID	Section Description	Section Name	Governing Criteria	Stress Ratio	Load Combination
3	2	W10X49 ✓	Axial-Bending	0.0766	With_Wind
3	"	W12X53	Axial-Bending	0.0741	With_Wind
2	3	W8X28	Total Deflection Y	0.946	With_Wind
2	"	W10X22 ✓	Total Deflection Y	0.786	With_Wind
2	"	W12X26	Axial-Bending	0.469	With_Wind
2	"	W14X26	Axial-Bending	0.465	With_Wind
2	"	W16X26	Axial-Bending	0.424	With_Wind
2	"	W18X35	Axial-Bending	0.28	With_Wind
6	4	HSS4X4X1/8 ✓	Axial-Bending	0.0882	With_Wind
6	"	HSS5X4X1/8	Axial-Bending	0.0763	With_Wind
6	"	HSS6X4X1/8	Axial-Bending	0.0691	With_Wind

CRITICAL STRESS SUMMARY

ID	Ref. #	Section Name	Governing Criteria	Stress Ratio	Load Combination	Distance (ft)
1	1	W10X49 ✓	Axial-Bending	0.0598	Dead_Only	12.000
1	2	W12X53	Axial-Bending	0.0579	Dead_Only	12.000
2	1	W8X28	Total Deflection Y	0.9463	With_Wind	9.0000
2	2	W10X22 ✓	Total Deflection Y	0.7859	With_Wind	9.0000
2	3	W12X26	Axial-Bending	0.4690	With_Wind	9.0000
2	4	W14X26	Axial-Bending	0.4651	With_Wind	9.0000
2	5	W16X26	Axial-Bending	0.4240	With_Wind	9.0000
2	6	W18X35	Axial-Bending	0.2795	With_Wind	9.0000
3	1	W10X49 ✓	Axial-Bending	0.0766	With_Wind	12.000
3	2	W12X53	Axial-Bending	0.0741	With_Wind	12.000
4	1	HSS4X4X1/8 ✓	Axial-Bending	0.0882	With_Wind	10.817
4	2	HSS5X4X1/8	Axial-Bending	0.0763	With_Wind	10.817
4	3	HSS6X4X1/8	Axial-Bending	0.0691	With_Wind	10.817
5	1	HSS4X4X1/8 ✓	Axial-Bending	0.0426	With_Wind	10.817
5	2	HSS5X4X1/8	Axial-Bending	0.0377	With_Wind	10.817
5	3	HSS6X4X1/8	Axial-Bending	0.0338	With_Wind	10.817
6	1	HSS4X4X1/8 ✓	Axial-Bending	0.0882	With_Wind	10.817
6	2	HSS5X4X1/8	Axial-Bending	0.0763	With_Wind	10.817
6	3	HSS6X4X1/8	Axial-Bending	0.0691	With_Wind	10.817
7	1	HSS4X4X1/8 ✓	Axial-Bending	0.0426	With_Wind	10.817
7	2	HSS5X4X1/8	Axial-Bending	0.0377	With_Wind	10.817
7	3	HSS6X4X1/8	Axial-Bending	0.0338	With_Wind	10.817

SELECTED LOAD COMBINATIONS

Load Combination	Code Check	Total	Live	Dependent	Conditional
Dead_Only	x			-	-
With_Wind	x	x		-	-
Just_Wind			x	-	-