

Steel Design Report

Project:: Lesson2 (C:\DCC\VersaFrame\projects\Lesson2)
 Description:
 Date: 01/09/2004 10:29 AM

Company:
 User:
 Software: Digital Canal VersaFrame

Design Results (ASD)

GROUP DESIGN SUMMARY

ID	Section Description	Section Name	Governing Criteria	Stress Ratio	Load Combination
1	2	W10x49 ✓	Axial-Bending	0.12	Dead_Only
1	"	W12x53	Axial-Bending	0.116	Dead_Only
2	3	W8x28	Total Deflection Y	0.944	With_Wind
2	"	W10x22 ✓	Total Deflection Y	0.784	With_Wind
2	"	W12x26	Total Deflection Y	0.453	With_Wind
2	"	W14x26	Axial-Bending	0.418	Dead_Only
2	"	W16x26	Axial-Bending	0.385	Dead_Only
2	"	W18x35	Axial-Bending	0.257	Dead_Only
6	4	TS4x4x.125 ✓	Axial-Bending	0.147	Just_Wind
6	"	TS5x4x.1875	Axial-Bending	0.0882	Just_Wind
6	"	TS6x4x.125	Axial-Bending	0.113	Just_Wind

CRITICAL STRESS SUMMARY

ID	Ref. #	Section Name	Governing Criteria	Stress Ratio	Load Combination	Distance (ft)
1	1	W10x49 ✓	Axial-Bending	0.1202	Dead_Only	12.000
1	2	W12x53	Axial-Bending	0.1164	Dead_Only	12.000
2	1	W8x28	Total Deflection Y	0.9436	With_Wind	9.0000
2	2	W10x22 ✓	Total Deflection Y	0.7837	With_Wind	9.0000
2	3	W12x26	Total Deflection Y	0.4533	With_Wind	9.0000
2	4	W14x26	Axial-Bending	0.4184	Dead_Only	9.0000
2	5	W16x26	Axial-Bending	0.3847	Dead_Only	9.0000
2	6	W18x35	Axial-Bending	0.2566	Dead_Only	9.0000
3	1	W10x49 ✓	Axial-Bending	0.1202	Dead_Only	12.000
3	2	W12x53	Axial-Bending	0.1164	Dead_Only	12.000
4	1	TS4x4x.125 ✓	Axial-Bending	0.1474	Just_Wind	10.817
4	2	TS5x4x.1875	Axial-Bending	0.0882	Just_Wind	10.817
4	3	TS6x4x.125	Axial-Bending	0.1126	Just_Wind	10.817
5	1	TS4x4x.125 ✓	Axial-Bending	0.0779	Just_Wind	10.817
5	2	TS5x4x.1875	Axial-Bending	0.0471	Just_Wind	10.817
5	3	TS6x4x.125	Axial-Bending	0.0617	Just_Wind	10.817
6	1	TS4x4x.125 ✓	Axial-Bending	0.1474	Just_Wind	10.817
6	2	TS5x4x.1875	Axial-Bending	0.0882	Just_Wind	10.817
6	3	TS6x4x.125	Axial-Bending	0.1126	Just_Wind	10.817
7	1	TS4x4x.125 ✓	Axial-Bending	0.0779	Just_Wind	10.817
7	2	TS5x4x.1875	Axial-Bending	0.0472	Just_Wind	10.817
7	3	TS6x4x.125	Axial-Bending	0.0617	Just_Wind	10.817

SELECTED LOAD COMBINATIONS

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