

**MAIN PLATFORM MEMBER STRESSES**

Member	Original Member	1992	Gross Area	1992	2010 STAAD Forces (20000)	Minimum STAAD Forces	Stress Range	
		Reinforcement		Reinforcement			Min.	Max.
			[in <sup>2</sup> ]		[kip]	[kip]	[ksi]	[ksi]
Uo'-Uo		4-L5x3x3/8	11.44	4-L5x3x3/8				
Uo-U1	4-L3.5x3.5x5/16		8.36		-34.5		-4.13	
U1-U2	2-C18x42.7		25.2		-443.5		-17.60	
U2-U3	2-C18x51.9		30.6		-688.1		-22.49	
U3-U4	2-C18x58	4-L3.5x3x3/8	43.4	4-L3.5x3x3/8	-859.6		-19.81	
U4-U5	2-C18x58	4-L3.5x3x3/8	43.4	4-L3.5x3x3/8	-831.1		-19.15	
Lo-L1	2-18x1 1/16 + 21 7/8x1/2		49.1875		1398.4	901.4	18.33	28.43
L1-L2	2-18x1 1/16 + 21 7/8x1/2		49.1875		1400.6	902.7	18.35	28.47
L2-L23	2-18x1 1/4 + 21 1/2x1/2		55.75		1548.6	960.9	17.24	27.78
L23-L3	2-18x1 1/4 + 21 1/2x1/2		55.75		972.9			17.45
L3-L4	2-18x1 7/16 + 21 1/8x1/2		62.3125		1191.6			19.12
L4-L5	2-18x1 1/2 + 21x9/16		65.8125		1339.5			20.35
Uo-Lo	4-L5x5x3/8	4-L5x5x1/2	19	4-L5x5x1/2	-95.2		-5.01	
U1-L1	2-L5x3x5/16		4.8		6.4			1.33
U2-L2	2-C12x25		14.68		-313.7	-94.6	-21.37	-6.44
U2L3-L23		2-C8x13.75	8.08	2-C8x13.75	-117.2		-14.50	
U3-L3	2-C12x25	4-L3.5x2.5x5/16	21.8	4-L3.5x2.5x5/16	-354.3		-16.25	
U4-L4	2-C12x25		14.68		103.1/-136		-9.26	7.02
U5-L5	2-L6x3.5x5/16		5.74		-11.7		-2.04	
U1-Lo	2-C15x33.9		20		-362.1		-18.11	
U1-L2	2-C8x18.75		11.02		336.4	66.2	6.01	30.53
U2-U2L3	2-C8x18.75		11.02		391.4	109	9.89	35.52
U2L3-L2		2-C8x11.5	6.74	2-C8x11.5	71.7			10.64
U2L3-L3	2-C8x18.75	2-C8x18.75	22.04	2-C8x18.75	460.1			20.88
U3-L4	2-C10x20		11.74		300.3			25.58
U4-L5	2-C12x25		14.68		153.2/-123.8		-8.43	10.44