



# Purlin Load Tables

## Table of Contents

Load Table Notes.....	7
Cee Purlin Section Properties.....	8
Cee Purlin Load Tables .....	11
Cee 4" x 1-5/8" - 18 gauge .....	11
Cee 4" x 1-5/8" - 16 gauge .....	12
Cee 4" x 1-5/8" - 14 gauge .....	13
Cee 4" x 1-5/8" - 12 gauge .....	14
Cee 4" x 2" - 18 gauge .....	15
Cee 4" x 2" - 16 gauge .....	16
Cee 4" x 2" - 14 gauge .....	17
Cee 4" x 2" - 12 gauge .....	18
Cee 4" x 2-1/2" - 16 gauge .....	19
Cee 4" x 2-1/2" - 14 gauge .....	20
Cee 4" x 2-1/2" - 12 gauge .....	21
Cee 4" x 3-1/2" - 16 gauge .....	22
Cee 4" x 3-1/2" - 14 gauge .....	23
Cee 4" x 3-1/2" - 12 gauge .....	24
Cee 6" x 1-5/8" - 18 gauge .....	25
Cee 6" x 1-5/8" - 16 gauge .....	26
Cee 6" x 1-5/8" - 14 gauge .....	27
Cee 6" x 1-5/8" - 12 gauge .....	28
Cee 6" x 2" - 18 gauge .....	29

Payette Steel Building Components, LLC

Cee 6" x 2" - 16 gauge ..... 30

Cee 6" x 2" - 14 gauge ..... 31

Cee 6" x 2" - 12 gauge ..... 32

Cee 6" x 2-1/2" - 16 gauge ..... 33

Cee 6" x 2-1/2" - 14 gauge ..... 34

Cee 6" x 2-1/2" - 12 gauge ..... 35

Cee 6" x 3-1/2" - 16 gauge ..... 36

Cee 6" x 3-1/2" - 14 gauge ..... 37

Cee 6" x 3-1/2" - 12 gauge ..... 38

Cee 8" x 2-1/2" - 16 gauge ..... 39

Cee 8" x 2-1/2" - 14 gauge ..... 40

Cee 8" x 2-1/2" - 12 gauge ..... 41

Cee 8" x 3-1/2" - 16 gauge ..... 42

Cee 8" x 3-1/2" - 14 gauge ..... 43

Cee 8" x 3-1/2" - 12 gauge ..... 44

Cee 8" x 4" - 16 gauge ..... 45

Cee 8" x 4" - 14 gauge ..... 46

Cee 8" x 4" - 12 gauge ..... 47

Cee 10" x 2-1/2" - 16 gauge ..... 48

Cee 10" x 2-1/2" - 14 gauge ..... 49

Cee 10" x 2-1/2" - 12 gauge ..... 50

Cee 10" x 3-1/2" - 16 gauge ..... 51

Cee 10" x 3-1/2" - 14 gauge ..... 52

Cee 10" x 3-1/2" - 12 gauge ..... 53

Cee 10" x 4" - 16 gauge ..... 54

Payette Steel Building Components, LLC

Cee 10" x 4" - 14 gauge .....	55
Cee 10" x 4" - 12 gauge .....	56
Cee 12" x 2-1/2" - 14 gauge .....	57
Cee 12" x 2-1/2" - 12 gauge .....	58
Cee 12" x 3-1/2" - 14 gauge .....	59
Cee 12" x 3-1/2" - 12 gauge .....	60
Cee 12" x 4" - 14 gauge .....	61
Cee 12" x 4" - 12 gauge .....	62
Cee 14" x 2-1/2" - 14 gauge .....	63
Cee 14" x 2-1/2" - 12 gauge .....	64
Cee 14" x 3-1/2" - 14 gauge .....	65
Cee 14" x 3-1/2" - 12 gauge .....	66
Cee 14" x 4" - 14 gauge .....	67
Cee 14" x 4" - 12 gauge .....	68
Zee Purlin Section Properties .....	69
Zee Purlin Load Tables .....	73
Zee 4" x 1-5/8" - 18 gauge .....	73
Zee 4" x 1-5/8" - 16 gauge .....	74
Zee 4" x 1-5/8" - 14 gauge .....	75
Zee 4" x 1-5/8" - 12 gauge .....	76
Zee 4" x 2" - 18 gauge .....	77
Zee 4" x 2" - 16 gauge .....	78
Zee 4" x 2" - 14 gauge .....	79
Zee 4" x 2" - 12 gauge .....	80
Zee 4" x 2-1/2" - 16 gauge .....	81

Payette Steel Building Components, LLC

Zee 4" x 2-1/2" - 14 gauge.....	82
Zee 4" x 2-1/2" - 12 gauge.....	83
Zee 4" x 3-1/2" - 16 gauge.....	84
Zee 4" x 3-1/2" - 14 gauge.....	85
Zee 4" x 3-1/2" - 12 gauge.....	86
Zee 6" x 1-5/8" - 18 gauge.....	87
Zee 6" x 1-5/8" - 16 gauge.....	88
Zee 6" x 1-5/8" - 14 gauge.....	89
Zee 6" x 1-5/8" - 12 gauge.....	90
Zee 6" x 2" - 18 gauge .....	91
Zee 6" x 2" - 16 gauge .....	92
Zee 6" x 2" - 14 gauge .....	93
Zee 6" x 2" - 12 gauge .....	94
Zee 6" x 2-1/2" - 16 gauge.....	95
Zee 6" x 2-1/2" - 14 gauge.....	96
Zee 6" x 2-1/2" - 12 gauge.....	97
Zee 6" x 3-1/2" - 16 gauge.....	98
Zee 6" x 3-1/2" - 14 gauge.....	99
Zee 6" x 3-1/2" - 14 gauge.....	100
Zee 8" x 2-1/2" - 16 gauge.....	101
Zee 8" x 2-1/2" - 14 gauge.....	102
Zee 8" x 2-1/2" - 12 gauge.....	103
Zee 8" x 3-1/2" - 16 gauge.....	104
Zee 8" x 3-1/2" - 14 gauge.....	105
Zee 8" x 3-1/2" - 12 gauge.....	106

Payette Steel Building Components, LLC

Zee 8" x 4" - 16 gauge .....	107
Zee 8" x 4" - 14 gauge .....	108
Zee 8" x 4" - 12 gauge .....	109
Zee 10" x 2-1/2" - 16 gauge .....	110
Zee 10" x 2-1/2" - 14 gauge .....	111
Zee 10" x 2-1/2" - 12 gauge .....	112
Zee 10" x 3-1/2" - 16 gauge .....	113
Zee 10" x 3-1/2" - 14 gauge .....	114
Zee 10" x 3-1/2" - 12 gauge .....	115
Zee 10" x 4" - 16 gauge .....	116
Zee 10" x 4" - 14 gauge .....	117
Zee 10" x 4" - 12 gauge .....	118
Zee 12" x 2-1/2" - 14 gauge .....	119
Zee 12" x 2-1/2" - 12 gauge .....	120
Zee 12" x 3-1/2" - 14 gauge .....	121
Zee 12" x 3-1/2" - 12 gauge .....	122
Zee 12" x 4" - 14 gauge .....	123
Zee 12" x 4" - 12 gauge .....	124
Zee 14" x 2-1/2" - 14 gauge .....	125
Zee 14" x 2-1/2" - 12 gauge .....	126
Zee 14" x 3-1/2" - 14 gauge .....	127
Zee 14" x 3-1/2" - 12 gauge .....	128
Zee 14" x 4" - 14 gauge .....	129
Zee 14" x 4" - 12 gauge .....	130

## Load Table Notes

1. Tabulated values are allowable superimposed loads (PLF) on normal 1/2:12 to 4:12 roof pitches. Purlin weights have not been subtracted from them.
2. Weight of roofing material and other dead loads must be subtracted from tabulated values of purlins to determine net live load capabilities.
3. Allowable loads have been calculated in accordance with AISI S100-16 (2020) w/S2. These values are valid only if the compression flange of the section is adequately supported laterally.
4. Consult with your engineer or architect for design applications such as very low or very high roof pitches (1/4:12, over 4:12), floating Standing Seam Roof, and for uplift (suction) criteria. Sag rods or angle bracing are usually required when members are not laterally supported by sheeting on the compression flange.
5. End bearing capacity must be checked using actual load, bearing lengths, and the web crippling chart.
6. For full member capacity, 1/2" diameter A-325 bolts are recommended for all lap bolts.
7. Web stiffeners can be provided by welding or bolting a clip plate to the support rafters and connecting the purlins through the web holes to the clip.
8. Tabulated values are based on a 6" bearing at interior supports. Reaction at end supports can be approximated by the following equations:
  - a. Simple Span  $R = 0.50WL$
  - b. 2 Spans  $R = 0.375WL$
  - c. 3 or More Spans  $R = 0.40WL$
9. Maximum live loads for deflection ratios other than L/180 can be calculated using the values tabulated as follows:
  - a. For L/120: Max. LL (PLF) =  $(180/120) \times (\text{Tabulated Value})$ .
  - b. For L/240: Max. LL (PLF) =  $(180/240) \times (\text{Tabulated Value})$ .
  - c. For L/360: Max. LL (PLF) =  $(180/360) \times (\text{Tabulated Value})$ .
10. Material is ASTM A653/A653M – Grade 55.
  - a.  $F_y = 55$  ksi
  - b.  $F_u = 70$  ksi

Cee Purlin Section Properties

CEE			FULL SECTION PROPERTIES									EFFECTIVE SECTION PROPERTIES (FULLY BRACED)					
Size	Thickness		Weight	A	I <sub>x-x</sub>	S <sub>x-x</sub>	r <sub>x</sub>	I <sub>y-y</sub>	r <sub>y</sub>	C <sub>w</sub>	J	A <sub>e</sub>	I <sub>xe</sub>	S <sub>xe</sub>	S <sub>ye</sub>	Max	V <sub>ay</sub>
Web x Flange	G <sub>a</sub>	in	plf	in <sup>2</sup>	in <sup>4</sup>	in <sup>3</sup>	in	in <sup>4</sup>	in	in <sup>6</sup>	in <sup>4</sup> x 1000	in <sup>2</sup>	in <sup>4</sup>	in <sup>3</sup>	in <sup>3</sup>	k-in	kips
4" x 1-5/8"	18	0.048	1.36	0.40	0.96	0.48	1.55	0.17	0.65	0.75	0.301	0.29	0.92	0.45	0.15	14.82	2.49
4" x 1-5/8"	16	0.058	1.66	0.49	1.16	0.58	1.54	0.20	0.64	0.89	0.556	0.40	1.15	0.57	0.19	18.85	3.77
4" x 1-5/8"	14	0.069	1.95	0.57	1.35	0.68	1.54	0.23	0.64	1.02	0.907	0.50	1.35	0.68	0.23	22.29	4.95
4" x 1-5/8"	12	0.103	2.86	0.84	1.94	0.97	1.52	0.33	0.62	1.39	2.970	0.82	1.94	0.97	0.32	26.68	7.26
4" x 2"	18	0.048	1.48	0.44	1.10	0.55	1.59	0.27	0.79	1.20	0.328	0.32	1.04	0.50	0.20	16.61	2.49
4" x 2"	16	0.058	1.81	0.53	1.33	0.67	1.58	0.33	0.78	1.44	0.606	0.44	1.31	0.65	0.26	21.39	3.77
4" x 2"	14	0.069	2.12	0.62	1.55	0.78	1.58	0.38	0.78	1.65	0.989	0.55	1.55	0.78	0.31	25.58	4.95
4" x 2"	12	0.103	3.12	0.92	2.23	1.12	1.56	0.54	0.76	2.26	3.244	0.90	2.23	1.12	0.43	36.78	7.26
4" x 2-1/2"	16	0.058	2.01	0.59	1.56	0.78	1.62	0.55	0.97	2.40	0.672	0.45	1.46	0.70	0.36	22.95	3.77
4" x 2-1/2"	14	0.069	2.36	0.69	1.82	0.91	1.62	0.64	0.96	2.76	1.098	0.55	1.73	0.84	0.42	27.51	4.95
4" x 2-1/2"	12	0.103	3.47	1.02	2.62	1.31	1.60	0.91	0.95	3.82	3.608	1.00	2.62	1.31	0.60	43.22	7.26
4" x 3-1/2"	16	0.058	2.41	0.71	2.01	1.01	1.69	1.23	1.32	5.24	0.805	0.46	1.69	0.75	0.58	24.85	3.77
4" x 3-1/2"	14	0.069	2.83	0.83	2.35	1.18	1.68	1.43	1.31	6.06	1.316	0.58	2.02	0.91	0.69	30.00	4.95
4" x 3-1/2"	12	0.103	4.17	1.23	3.41	1.70	1.67	2.06	1.30	8.49	4.336	1.02	3.14	1.47	0.99	48.49	7.26
6" x 1-5/8"	18	0.048	1.68	0.50	2.53	0.84	2.26	0.19	0.62	1.59	0.372	0.30	2.44	0.80	0.16	26.21	1.73
6" x 1-5/8"	16	0.058	2.06	0.61	3.08	1.03	2.26	0.23	0.62	1.90	0.689	0.41	3.05	1.01	0.20	33.38	3.22
6" x 1-5/8"	14	0.069	2.42	0.71	3.60	1.20	2.25	0.27	0.62	2.19	1.125	0.52	3.60	1.20	0.24	39.50	5.24
6" x 1-5/8"	12	0.103	3.56	1.05	5.20	1.73	2.23	0.38	0.60	3.00	3.699	0.87	5.20	1.73	0.33	47.68	11.51
6" x 2"	18	0.048	1.80	0.53	2.85	0.95	2.32	0.31	0.77	2.55	0.399	0.32	2.71	0.88	0.21	28.93	1.73
6" x 2"	16	0.058	2.21	0.65	3.47	1.16	2.31	0.38	0.76	3.06	0.738	0.45	3.42	1.13	0.27	37.22	3.22
6" x 2"	14	0.069	2.59	0.76	4.05	1.35	2.30	0.44	0.76	3.52	1.207	0.57	4.05	1.35	0.32	44.49	5.24
6" x 2"	12	0.103	3.82	1.12	5.87	1.96	2.29	0.62	0.74	4.88	3.972	0.95	5.87	1.96	0.45	64.47	11.51
6" x 2-1/2"	16	0.058	2.41	0.71	3.98	1.33	2.37	0.64	0.95	5.10	0.805	0.46	3.74	1.20	0.37	39.41	3.22
6" x 2-1/2"	14	0.069	2.83	0.83	4.66	1.55	2.37	0.74	0.95	5.90	1.316	0.57	4.43	1.43	0.44	46.99	5.24
6" x 2-1/2"	12	0.103	4.17	1.23	6.77	2.26	2.35	1.06	0.93	8.25	4.336	1.05	6.77	2.26	0.63	74.31	11.51
6" x 3-1/2"	16	0.058	2.80	0.82	5.01	1.67	2.47	1.42	1.31	11.19	0.938	0.47	4.27	1.29	0.62	42.33	3.22



Payette Steel Building Components, LLC

CEE			FULL SECTION PROPERTIES									EFFECTIVE SECTION PROPERTIES (FULLY BRACED)					
Size	Thickness		Weight	A	I <sub>x-x</sub>	S <sub>x-x</sub>	r <sub>x</sub>	I <sub>y-y</sub>	r <sub>y</sub>	C <sub>w</sub>	J	A <sub>e</sub>	I <sub>xe</sub>	S <sub>xe</sub>	S <sub>ye</sub>	Max	V <sub>ay</sub>
Web x Flange	Ga	in	plf	in <sup>2</sup>	in <sup>4</sup>	in <sup>3</sup>	in	in <sup>4</sup>	in	in <sup>6</sup>	in <sup>4</sup> x 1000	in <sup>2</sup>	in <sup>4</sup>	in <sup>3</sup>	in <sup>3</sup>	k-in	kips
6" x 3-1/2"	14	0.069	3.30	0.97	5.87	1.96	2.46	1.66	1.31	12.98	1.534	0.59	5.08	1.55	0.73	50.88	5.24
6" x 3-1/2"	12	0.103	4.87	1.43	8.56	2.85	2.44	2.39	1.29	18.36	5.065	1.07	7.87	2.47	1.05	81.46	11.51
8" x 2-1/2"	16	0.058	2.80	0.82	7.82	1.96	3.08	0.70	0.92	9.24	0.938	0.46	7.34	1.76	0.39	58.12	2.36
8" x 2-1/2"	14	0.069	3.30	0.97	9.16	2.29	3.07	0.82	0.92	10.70	1.534	0.58	8.72	2.11	0.46	69.62	3.89
8" x 2-1/2"	12	0.103	4.87	1.43	13.37	3.34	3.05	1.16	0.90	15.04	5.065	1.07	13.37	3.34	0.65	110.04	11.71
8" x 3-1/2"	16	0.058	3.20	0.94	9.66	2.42	3.20	1.57	1.29	20.26	1.070	0.47	8.07	1.80	0.64	59.33	2.36
8" x 3-1/2"	14	0.069	3.76	1.11	11.33	2.83	3.20	1.83	1.29	23.54	1.752	0.60	9.89	2.28	0.76	75.04	3.89
8" x 3-1/2"	12	0.103	5.57	1.64	16.58	4.14	3.18	2.64	1.27	33.46	5.793	1.09	15.27	3.62	1.09	119.24	11.71
8" x 4"	16	0.058	3.40	1.00	10.58	2.65	3.25	2.17	1.47	27.80	1.137	0.47	8.36	1.80	0.77	49.61	2.36
8" x 4"	14	0.069	4.00	1.18	12.41	3.10	3.25	2.53	1.47	32.33	1.861	0.60	10.38	2.33	0.93	76.74	3.89
8" x 4"	12	0.103	5.92	1.74	18.18	4.55	3.23	3.67	1.45	46.14	6.157	1.11	16.12	3.74	1.35	123.06	11.71
10" x 2-1/2"	16	0.058	3.20	0.94	13.31	2.66	3.76	0.75	0.89	14.96	1.070	0.46	11.85	2.18	0.39	71.85	1.86
10" x 2-1/2"	14	0.069	3.76	1.11	15.60	3.12	3.75	0.87	0.89	17.34	1.752	0.58	14.60	2.79	0.46	92.03	3.07
10" x 2-1/2"	12	0.103	5.57	1.64	22.83	4.57	3.73	1.24	0.87	24.45	5.793	1.09	22.83	4.57	0.66	150.35	10.33
10" x 3-1/2"	16	0.058	3.60	1.06	16.20	3.24	3.91	1.69	1.26	32.80	1.203	0.47	12.98	2.25	0.66	73.94	1.86
10" x 3-1/2"	14	0.069	4.23	1.25	19.00	3.80	3.91	1.97	1.26	38.15	1.970	0.60	16.03	2.88	0.78	94.77	3.07
10" x 3-1/2"	12	0.103	6.27	1.84	27.87	5.57	3.89	2.84	1.24	54.41	6.522	1.10	25.76	4.91	1.12	161.70	10.33
10" x 4"	16	0.058	3.80	1.12	17.64	3.53	3.97	2.33	1.44	45.00	1.270	0.48	13.42	2.25	0.78	62.00	1.86
10" x 4"	14	0.069	4.47	1.31	20.70	4.14	3.97	2.72	1.44	52.40	2.079	0.61	16.63	2.90	0.95	95.49	3.07
10" x 4"	12	0.103	6.62	1.95	30.39	6.08	3.95	3.94	1.42	75.01	6.886	1.12	27.11	5.06	1.38	166.74	10.33

Payette Steel Building Components, LLC

CEE			FULL SECTION PROPERTIES									EFFECTIVE SECTION PROPERTIES (FULLY BRACED)					
Size	Thickness		Weight	A	I <sub>x-x</sub>	S <sub>x-x</sub>	r <sub>x</sub>	I <sub>y-y</sub>	r <sub>y</sub>	C <sub>w</sub>	J	A <sub>e</sub>	I <sub>xe</sub>	S <sub>xe</sub>	S <sub>ye</sub>	Max	V <sub>ay</sub>
Web x Flange	Ga	in	plf	in <sup>2</sup>	in <sup>4</sup>	in <sup>3</sup>	in	in <sup>4</sup>	in	in <sup>6</sup>	in <sup>4</sup> x 1000	in <sup>2</sup>	in <sup>4</sup>	in <sup>3</sup>	in <sup>3</sup>	k-in	kips
12" x 2-1/2"	14	0.069	4.23	1.25	24.26	4.04	4.41	0.91	0.86	25.95	1.970	0.58	20.95	3.10	0.47	101.95	2.53
12" x 2-1/2"	12	0.103	6.27	1.84	35.56	5.93	4.39	1.30	0.84	36.67	6.522	1.09	34.26	5.48	0.67	180.55	8.52
12" x 3-1/2"	14	0.069	4.70	1.38	29.16	4.86	4.59	2.07	1.22	57.15	2.188	0.60	23.65	3.43	0.79	113.07	2.53
12" x 3-1/2"	12	0.103	6.97	2.05	42.85	7.14	4.57	2.99	1.21	81.70	7.250	1.11	39.74	6.34	1.14	208.81	8.52
12" x 4"	14	0.069	4.94	1.45	31.61	5.27	4.67	2.88	1.41	78.50	2.297	0.61	24.50	3.47	0.97	114.24	2.53
12" x 4"	12	0.103	7.32	2.15	46.50	7.75	4.65	4.17	1.39	112.63	7.614	1.13	41.71	6.53	1.41	215.11	8.52
14" x 2-1/2"	14	0.069	4.70	1.38	35.40	5.06	5.06	0.95	0.83	36.62	2.188	0.58	29.54	3.65	0.48	120.36	2.16
14" x 2-1/2"	12	0.103	6.97	2.05	51.99	7.43	5.04	1.35	0.81	51.84	7.250	1.10	48.83	6.55	0.68	215.58	7.25
14" x 3-1/2"	14	0.069	5.17	1.52	42.09	6.01	5.26	2.16	1.19	80.80	2.406	0.61	32.90	3.99	0.80	131.49	2.16
14" x 3-1/2"	12	0.103	7.67	2.26	61.93	8.85	5.24	3.12	1.18	115.69	7.979	1.12	56.77	7.70	1.15	253.51	7.25
14" x 4"	14	0.069	5.40	1.59	45.43	6.49	5.35	3.01	1.38	111.03	2.515	0.61	34.04	4.04	0.98	133.05	2.16
14" x 4"	12	0.103	8.02	2.36	66.91	9.56	5.33	4.35	1.36	159.55	8.343	1.14	58.79	7.77	1.43	255.84	7.25

Cee Purlin Load Tables

Cee 4" x 1-5/8" - 18 gauge



Stress Controlling (plf)		Cee 4 x 1-5/8 18 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	154	241	249	241	249	241	220	159	384	301
9	122	191	217	191	217	191	166	112	270	211
10	99	154	176	154	176	154	130	82	197	154
11	82	128	145	128	141	128	105	61	148	116
12	69	107	122	107	112	107	86	47	114	89
13	58	91	104	91	91	91	72	37	89	70
14	50	79	90	79	76	79	61	30	72	56
15	44	69	78	69	64	68	52	24	58	46
16	39	60	68	60	55	59	46	20	48	38
17	34	53	58	53	48	52	40	17	40	31
18	30	48	50	48	42	46	35	14	34	26
19	27	43	43	43	37	40	31	12	29	22
20	25	39	38	39	33	36	28	10	25	19
21	22	35	34	35	29	33	25	9	21	17
22	20	32	30	32	26	29	23	8	18	14

Payette Steel Building Components, LLC  
Cee 4" x 1-5/8" - 16 gauge

Stress Controlling (plf)		Cee 4 x 1-5/8 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	196	306	348	306	348	306	278	197	474	372
9	155	241	275	241	275	241	210	138	333	261
10	125	196	222	196	222	196	165	101	243	190
11	103	162	184	162	179	162	132	76	182	143
12	87	136	155	136	142	136	109	58	141	110
13	74	116	132	116	116	116	91	46	111	87
14	64	100	114	100	96	100	77	37	88	69
15	56	87	99	87	81	86	66	30	72	56
16	49	76	86	76	70	75	58	25	59	46
17	43	68	73	68	60	65	51	21	49	39
18	39	60	63	60	53	58	45	17	42	33
19	35	54	55	54	46	51	40	15	35	28
20	31	49	48	49	41	46	36	13	30	24
21	28	44	43	44	37	41	32	11	26	21
22	26	40	38	40	33	37	29	9	23	18

Payette Steel Building Components, LLC  
 Cee 4" x 1-5/8" - 14 gauge

Stress Controlling (plf)		Cee 4 x 1 5/8 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	233	365	415	365	415	365	332	230	555	435
9	184	288	328	288	328	288	251	162	390	305
10	149	233	265	233	265	233	196	118	284	223
11	123	193	219	193	213	193	158	89	214	167
12	104	162	184	162	170	162	130	68	164	129
13	88	138	157	138	138	138	109	54	129	101
14	76	119	135	119	115	119	92	43	104	81
15	66	104	118	104	97	103	79	35	84	66
16	58	91	103	91	83	89	69	29	69	54
17	52	81	88	81	72	78	60	24	58	45
18	46	72	75	72	63	69	53	20	49	38
19	41	65	66	65	55	61	47	17	41	32
20	37	58	58	58	49	55	43	15	36	28
21	34	53	51	53	44	49	38	13	31	24
22	31	48	46	48	39	45	35	11	27	21

Payette Steel Building Components, LLC  
Cee 4" x 1-5/8" - 12 gauge

Stress Controlling (plf)		Cee 4 x 1 5/8 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	333	520	592	520	592	520	473	331	798	625
9	263	411	467	411	467	411	358	233	560	439
10	213	333	379	333	379	333	280	170	408	320
11	176	275	313	275	304	275	225	127	307	240
12	148	231	263	231	242	231	185	98	236	185
13	126	197	224	197	197	197	155	77	186	146
14	109	170	193	170	164	170	131	62	149	117
15	95	148	168	148	138	147	113	50	121	95
16	83	130	147	130	118	127	98	41	100	78
17	74	115	125	115	102	111	86	35	83	65
18	66	103	108	103	89	98	76	29	70	55
19	59	92	94	92	79	87	68	25	60	47
20	53	83	82	83	70	78	61	21	51	40
21	48	75	73	75	63	70	55	18	44	35
22	44	69	65	69	56	63	50	16	38	30

Payette Steel Building Components, LLC

Cee 4" x 2" - 18 gauge

Stress Controlling (plf)		Cee 4 x 2 18 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	172	268	249	268	249	268	244	181	436	341
9	136	212	222	212	222	212	185	127	306	240
10	110	172	195	172	195	172	144	93	223	175
11	91	142	161	142	157	142	116	70	168	131
12	76	119	136	119	125	119	95	54	129	101
13	65	101	115	101	102	101	80	42	102	80
14	56	88	100	88	84	88	68	34	81	64
15	49	76	87	76	71	76	58	27	66	52
16	43	67	76	67	61	66	51	23	54	43
17	38	59	64	59	53	57	44	19	45	36
18	34	53	55	53	46	51	39	16	38	30
19	30	48	48	48	41	45	35	14	33	25
20	27	43	42	43	36	40	31	12	28	22
21	25	39	38	39	32	36	28	10	24	19
22	23	35	33	35	29	33	26	9	21	16

Payette Steel Building Components, LLC

Cee 4" x 2" - 16 gauge

Stress Controlling (plf)		Cee 4 x 2 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	223	348	387	348	387	348	317	225	541	424
9	176	275	313	275	313	275	240	158	380	298
10	143	223	254	223	254	223	188	115	277	217
11	118	184	210	184	204	184	151	86	208	163
12	99	155	176	155	162	155	124	67	160	126
13	84	132	150	132	132	132	104	52	126	99
14	73	114	129	114	110	114	88	42	101	79
15	63	99	113	99	93	98	76	34	82	64
16	56	87	98	87	79	85	66	28	68	53
17	49	77	84	77	69	75	58	23	56	44
18	44	69	72	69	60	66	51	20	48	37
19	40	62	63	62	53	58	45	17	40	32
20	36	56	55	56	47	52	41	14	35	27
21	32	51	49	51	42	47	37	12	30	23
22	29	46	44	46	38	43	33	11	26	20



Payette Steel Building Components, LLC

Cee 4" x 2" - 14 gauge

Stress Controlling (plf)		Cee 4 x 2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	268	418	476	418	476	418	381	265	637	499
9	211	330	376	330	376	330	288	186	448	351
10	171	268	304	268	304	268	225	135	326	256
11	142	221	252	221	245	221	181	102	245	192
12	119	186	211	186	195	186	149	78	189	148
13	101	158	180	158	159	158	125	62	149	116
14	87	137	155	137	132	137	106	49	119	93
15	76	119	135	119	111	118	91	40	97	76
16	67	105	118	105	95	102	79	33	80	62
17	59	93	100	93	82	89	69	28	66	52
18	53	83	86	83	72	79	61	23	56	44
19	47	74	75	74	63	70	54	20	48	37
20	43	67	66	67	56	63	49	17	41	32
21	39	61	59	61	50	56	44	15	35	28
22	35	55	52	55	45	51	40	13	31	24

Payette Steel Building Components, LLC

Cee 4" x 2" - 12 gauge

Stress Controlling (plf)		Cee 4 x 2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	384	600	683	600	683	600	546	381	917	718
9	304	474	540	474	540	474	413	267	644	505
10	246	384	437	384	437	384	324	195	470	368
11	203	318	361	318	351	318	260	146	353	276
12	171	267	304	267	279	267	214	113	272	213
13	146	227	259	227	228	227	179	89	214	167
14	125	196	223	196	189	196	152	71	171	134
15	109	171	194	171	160	170	130	58	139	109
16	96	150	170	150	137	147	113	48	115	90
17	85	133	144	133	118	128	99	40	96	75
18	76	119	124	119	103	113	88	33	81	63
19	68	106	108	106	91	101	78	28	68	54
20	61	96	95	96	81	90	70	24	59	46
21	56	87	84	87	72	81	63	21	51	40
22	51	79	75	79	65	73	57	18	44	35

Payette Steel Building Components, LLC  
 Cee 4" x 2-1/2" - 16 gauge

Stress Controlling (plf)		Cee 4 x 2-1/2 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	240	375	387	375	387	375	342	255	614	481
9	190	296	337	296	337	296	258	179	431	338
10	154	240	273	240	273	240	202	131	314	246
11	127	198	226	198	220	198	163	98	236	185
12	107	167	190	167	175	167	134	76	182	143
13	91	142	162	142	142	142	112	59	143	112
14	78	123	139	123	118	123	95	48	115	90
15	68	107	121	107	100	106	82	39	93	73
16	60	94	106	94	85	92	71	32	77	60
17	53	83	90	83	74	80	62	27	64	50
18	47	74	78	74	65	71	55	22	54	42
19	43	67	68	67	57	63	49	19	46	36
20	38	60	59	60	51	56	44	16	39	31
21	35	54	53	54	45	51	39	14	34	27
22	32	50	47	50	41	46	36	12	30	23

Payette Steel Building Components, LLC  
Cee 4" x 2-1/2" - 14 gauge

Stress Controlling (plf)		Cee 4 x 2-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	288	450	512	450	512	450	410	300	724	567
9	228	356	405	356	405	356	310	211	508	398
10	184	288	328	288	328	288	243	154	371	290
11	152	238	271	238	263	238	195	116	278	218
12	128	200	228	200	210	200	160	89	214	168
13	109	171	194	171	171	171	134	70	169	132
14	94	147	167	147	142	147	114	56	135	106
15	82	128	146	128	120	127	98	46	110	86
16	72	113	127	113	102	110	85	38	90	71
17	64	100	108	100	89	96	75	31	75	59
18	57	89	93	89	77	85	66	26	64	50
19	51	80	81	80	68	76	59	22	54	42
20	46	72	71	72	61	68	53	19	46	36
21	42	65	63	65	54	61	47	17	40	31
22	38	60	56	60	49	55	43	14	35	27

Payette Steel Building Components, LLC

Cee 4" x 2-1/2" - 12 gauge

Stress Controlling (plf)		Cee 4 x 2-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	449	702	799	702	799	702	639	447	1077	844
9	355	555	631	555	631	555	483	314	757	593
10	288	449	511	449	511	449	378	229	552	432
11	238	371	423	371	411	371	304	172	414	325
12	200	312	355	312	327	312	250	133	319	250
13	170	266	303	266	266	266	209	104	251	197
14	147	229	261	229	221	229	178	83	201	157
15	128	200	227	200	187	198	153	68	163	128
16	112	176	198	176	160	172	133	56	135	106
17	100	156	169	156	138	150	116	47	112	88
18	89	139	145	139	121	133	103	39	95	74
19	80	124	126	124	107	118	91	33	80	63
20	72	112	111	112	95	105	82	29	69	54
21	65	102	98	102	85	95	74	25	60	47
22	59	93	88	93	76	86	67	22	52	41

Payette Steel Building Components, LLC  
 Cee 4" x 3-1/2" - 16 gauge

Stress Controlling (plf)		Cee 4 x 3-1/2 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	257	402	387	402	387	402	366	307	739	579
9	203	318	344	318	344	318	277	215	519	407
10	165	257	293	257	293	257	217	157	378	296
11	136	213	242	213	235	213	174	118	284	223
12	114	179	203	179	187	179	143	91	219	171
13	97	152	173	152	152	152	120	71	172	135
14	84	131	149	131	127	131	102	57	138	108
15	73	114	130	114	107	114	87	47	112	88
16	64	101	114	101	91	98	76	38	92	72
17	57	89	97	89	79	86	67	32	77	60
18	51	79	83	79	69	76	59	27	65	51
19	46	71	72	71	61	67	52	23	55	43
20	41	64	64	64	54	60	47	20	47	37
21	37	58	56	58	48	54	42	17	41	32
22	34	53	50	53	44	49	38	15	36	28

Payette Steel Building Components, LLC  
Cee 4" x 3-1/2" - 14 gauge

Stress Controlling (plf)		Cee 4 x 3-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	312	488	547	488	547	488	444	364	876	686
9	247	385	439	385	439	385	336	255	615	482
10	200	312	355	312	355	312	263	186	448	351
11	165	258	294	258	285	258	211	140	337	264
12	139	217	247	217	227	217	174	108	260	203
13	118	185	210	185	185	185	145	85	204	160
14	102	159	181	159	154	159	123	68	163	128
15	89	139	158	139	130	138	106	55	133	104
16	78	122	138	122	111	119	92	45	109	86
17	69	108	117	108	96	104	81	38	91	72
18	62	96	101	96	84	92	71	32	77	60
19	55	86	88	86	74	82	64	27	65	51
20	50	78	77	78	66	73	57	23	56	44
21	45	71	68	71	59	66	51	20	48	38
22	41	65	61	65	53	60	46	17	42	33

Payette Steel Building Components, LLC  
Cee 4" x 3-1/2" - 12 gauge

Stress Controlling (plf)		Cee 4 x 3-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	504	788	897	788	897	788	717	551	1328	1041
9	398	623	708	623	708	623	542	387	933	731
10	323	504	574	504	574	504	425	282	680	533
11	267	417	474	417	461	417	342	212	511	400
12	224	350	398	350	367	350	281	163	394	308
13	191	298	340	298	299	298	235	129	310	242
14	165	257	293	257	248	257	199	103	248	194
15	143	224	255	224	210	223	171	84	202	158
16	126	197	223	197	179	193	149	69	166	130
17	112	174	189	174	155	169	130	57	138	108
18	100	156	163	156	136	149	115	48	117	91
19	89	140	142	140	120	132	103	41	99	78
20	81	126	125	126	106	118	92	35	85	67
21	73	114	110	114	95	106	83	30	73	58
22	67	104	98	104	85	96	75	27	64	50



Payette Steel Building Components, LLC  
Cee 6" x 1-5/8" - 18 gauge

Stress Controlling (plf)		Cee 6 x 1-5/8 18 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	274	429	244	429	244	402	244	422	1016	796
9	217	339	217	339	217	339	217	296	713	559
10	176	274	195	274	195	274	195	216	520	407
11	145	227	177	227	177	227	177	162	391	306
12	122	191	162	191	162	191	153	125	301	236
13	104	162	150	162	150	162	128	98	237	185
14	90	140	139	140	135	140	108	79	190	148
15	78	122	130	122	114	121	93	64	154	121
16	69	107	121	107	98	105	81	53	127	99
17	61	95	103	95	84	92	71	44	106	83
18	54	85	89	85	74	81	63	37	89	70
19	49	76	77	76	65	72	56	31	76	59
20	44	69	68	69	58	64	50	27	65	51
21	40	62	60	62	52	58	45	23	56	44
22	36	57	54	57	46	52	41	20	49	38

Payette Steel Building Components, LLC  
Cee 6" x 1-5/8" - 16 gauge

Stress Controlling (plf)		Cee 6 x 1-5/8 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	346	541	379	541	379	541	379	522	1258	986
9	274	428	337	428	337	428	337	367	884	692
10	222	346	303	346	303	346	292	267	644	505
11	183	286	276	286	276	286	235	201	484	379
12	154	241	253	241	252	241	193	155	373	292
13	131	205	233	205	205	205	161	122	293	230
14	113	177	201	177	171	177	137	97	235	184
15	99	154	175	154	144	153	118	79	191	150
16	87	135	153	135	123	132	102	65	157	123
17	77	120	130	120	107	116	90	54	131	103
18	68	107	112	107	93	102	79	46	110	87
19	61	96	97	96	82	91	71	39	94	74
20	55	87	86	87	73	81	63	33	81	63
21	50	79	76	79	65	73	57	29	70	55
22	46	72	68	72	59	66	52	25	61	47

Payette Steel Building Components, LLC  
Cee 6" x 1-5/8" - 14 gauge

Stress Controlling (plf)		Cee 6 x 1-5/8 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	412	643	536	643	536	643	536	615	1480	1160
9	325	508	476	508	476	508	443	432	1040	815
10	263	412	429	412	429	412	347	315	758	594
11	218	340	387	340	376	340	279	236	569	446
12	183	286	325	286	299	286	229	182	439	344
13	156	244	277	244	244	244	192	143	345	270
14	134	210	239	210	203	210	163	115	276	216
15	117	183	208	183	171	182	140	93	225	176
16	103	161	182	161	146	157	121	77	185	145
17	91	142	155	142	127	138	106	64	154	121
18	81	127	133	127	111	121	94	54	130	102
19	73	114	116	114	98	108	84	46	111	87
20	66	103	102	103	87	97	75	39	95	74
21	60	93	90	93	77	87	68	34	82	64
22	54	85	80	85	70	79	61	30	71	56

Payette Steel Building Components, LLC  
Cee 6" x 1-5/8" - 12 gauge

Stress Controlling (plf)		Cee 6 x 1-5/8 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	288	349	384	303	384	268	384	888	2138	1675
9	256	295	341	262	341	235	341	623	1502	1177
10	230	256	307	230	307	209	307	455	1095	858
11	209	226	279	206	279	189	279	341	823	644
12	192	202	256	186	256	172	256	263	634	496
13	177	183	236	169	236	158	236	207	498	390
14	164	167	219	156	219	146	219	166	399	313
15	153	153	205	144	205	135	202	135	324	254
16	144	142	192	134	192	126	175	111	267	209
17	131	132	181	125	181	119	153	93	223	175
18	117	124	171	117	160	112	136	78	188	147
19	105	116	162	111	141	106	121	66	160	125
20	95	110	147	105	125	100	108	57	137	107
21	86	104	130	99	112	95	98	49	118	93
22	78	98	116	94	100	91	88	43	103	81

Payette Steel Building Components, LLC

Cee 6" x 2" - 18 gauge

Stress Controlling (plf)		Cee 6 x 2 18 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	302	472	244	455	244	402	244	471	1134	888
9	239	373	217	373	217	353	217	331	796	624
10	193	302	195	302	195	302	195	241	580	455
11	160	250	177	250	177	250	177	181	436	342
12	134	210	162	210	162	210	162	139	336	263
13	114	179	150	179	150	179	141	110	264	207
14	99	154	139	154	139	154	119	88	212	166
15	86	134	130	134	125	133	103	71	172	135
16	75	118	122	118	107	115	89	59	142	111
17	67	104	113	104	93	101	78	49	118	93
18	60	93	98	93	81	89	69	41	100	78
19	54	84	85	84	72	79	61	35	85	66
20	48	75	75	75	64	71	55	30	73	57
21	44	68	66	68	57	64	50	26	63	49
22	40	62	59	62	51	58	45	23	55	43

Payette Steel Building Components, LLC

Cee 6" x 2" - 16 gauge

Stress Controlling (plf)		Cee 6 x 2 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	388	606	379	606	379	606	379	587	1413	1107
9	306	479	337	479	337	479	337	412	993	778
10	248	388	303	388	303	388	303	300	724	567
11	205	320	276	320	276	320	263	226	544	426
12	172	269	253	269	253	269	216	174	419	328
13	147	229	233	229	230	229	180	137	329	258
14	127	198	217	198	191	198	153	109	264	207
15	110	172	196	172	161	171	132	89	214	168
16	97	151	171	151	138	148	114	73	177	138
17	86	134	146	134	119	130	100	61	147	115
18	77	120	125	120	104	114	89	52	124	97
19	69	107	109	107	92	102	79	44	105	83
20	62	97	96	97	82	91	71	38	90	71
21	56	88	85	88	73	82	64	32	78	61
22	51	80	76	80	66	74	58	28	68	53

Payette Steel Building Components, LLC

Cee 6" x 2" - 14 gauge

Stress Controlling (plf)		Cee 6 x 2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	463	724	536	724	536	724	536	691	1665	1305
9	366	572	476	572	476	572	476	486	1170	916
10	296	463	429	463	429	463	390	354	853	668
11	245	383	390	383	390	383	314	266	641	502
12	206	322	357	322	337	322	258	205	493	387
13	175	274	312	274	274	274	216	161	388	304
14	151	236	269	236	228	236	183	129	311	243
15	132	206	234	206	192	204	157	105	253	198
16	116	181	204	181	165	177	137	86	208	163
17	103	160	174	160	143	155	120	72	174	136
18	91	143	150	143	125	137	106	61	146	115
19	82	128	130	128	110	121	94	52	124	97
20	74	116	114	116	98	109	84	44	107	84
21	67	105	101	105	87	98	76	38	92	72
22	61	96	90	96	78	88	69	33	80	63

Payette Steel Building Components, LLC

Cee 6" x 2" - 12 gauge

Stress Controlling (plf)		Cee 6 x 2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	288	349	384	303	384	268	384	1002	2414	1891
9	256	295	341	262	341	235	341	704	1695	1328
10	230	256	307	230	307	209	307	513	1236	968
11	209	226	279	206	279	189	279	385	929	727
12	192	202	256	186	256	172	256	297	715	560
13	177	183	236	169	236	158	236	234	563	441
14	164	167	219	156	219	146	219	187	450	353
15	153	153	205	144	205	135	205	152	366	287
16	144	142	192	134	192	126	192	125	302	236
17	135	132	181	125	181	119	174	104	252	197
18	128	124	171	117	171	112	154	88	212	166
19	119	116	162	111	159	106	137	75	180	141
20	108	110	153	105	142	100	123	64	154	121
21	98	104	146	99	127	95	110	55	133	105
22	89	98	131	94	114	91	100	48	116	91



Payette Steel Building Components, LLC

Cee 6" x 2-1/2" - 16 gauge

Stress Controlling (plf)		Cee 6 x 2-1/2 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	412	643	379	643	379	643	379	652	1571	1231
9	325	508	337	508	337	508	337	458	1103	864
10	263	412	303	412	303	412	303	334	804	630
11	218	340	276	340	276	340	276	251	604	473
12	183	286	253	286	253	286	229	193	465	365
13	156	244	233	244	233	244	192	152	366	287
14	134	210	217	210	203	210	163	122	293	230
15	117	183	202	183	171	182	140	99	238	187
16	103	161	182	161	146	157	121	82	196	154
17	91	142	155	142	127	138	106	68	164	128
18	81	127	133	127	111	121	94	57	138	108
19	73	114	116	114	98	108	84	49	117	92
20	66	103	102	103	87	97	75	42	101	79
21	60	93	90	93	77	87	68	36	87	68
22	54	85	80	85	70	79	61	31	76	59

Payette Steel Building Components, LLC  
 Cee 6" x 2-1/2" - 14 gauge

Stress Controlling (plf)		Cee 6 x 2-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	491	767	536	767	536	767	536	769	1853	1452
9	388	606	476	606	476	606	476	540	1302	1020
10	314	491	429	491	429	491	413	394	949	743
11	259	405	390	405	390	405	332	296	713	558
12	218	341	357	341	357	341	273	228	549	430
13	186	290	330	290	291	290	228	179	432	338
14	160	250	285	250	242	250	194	144	346	271
15	140	218	248	218	204	217	167	117	281	220
16	123	192	217	192	174	188	145	96	232	181
17	109	170	184	170	151	164	127	80	193	151
18	97	151	159	151	132	145	112	68	163	127
19	87	136	138	136	116	129	100	57	138	108
20	78	123	121	123	103	115	89	49	119	93
21	71	111	107	111	92	103	81	43	102	80
22	65	101	96	101	83	94	73	37	89	70

Payette Steel Building Components, LLC

Cee 6" x 2-1/2" - 12 gauge

Stress Controlling (plf)		Cee 6 x 2-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	288	349	384	303	384	268	384	1156	2784	2181
9	256	295	341	262	341	235	341	812	1955	1532
10	230	256	307	230	307	209	307	592	1425	1117
11	209	226	279	206	279	189	279	445	1071	839
12	192	202	256	186	256	172	256	342	825	646
13	177	183	236	169	236	158	236	269	649	508
14	164	167	219	156	219	146	219	216	519	407
15	153	153	205	144	205	135	205	175	422	331
16	144	142	192	134	192	126	192	144	348	273
17	135	132	181	125	181	119	181	120	290	227
18	128	124	171	117	171	112	171	101	244	191
19	121	116	162	111	162	106	158	86	208	163
20	115	110	153	105	153	100	141	74	178	140
21	110	104	146	99	146	95	127	64	154	121
22	103	98	140	94	131	91	115	56	134	105

Payette Steel Building Components, LLC

Cee 6" x 3-1/2" - 16 gauge

Stress Controlling (plf)		Cee 6 x 3-1/2 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	443	691	379	691	379	691	379	771	1857	1455
9	350	546	337	546	337	546	337	542	1305	1022
10	283	443	303	443	303	443	303	395	951	745
11	234	366	276	366	276	366	276	297	714	560
12	197	307	253	307	253	307	246	228	550	431
13	168	262	233	262	233	262	206	180	433	339
14	145	226	217	226	217	226	175	144	347	272
15	126	197	202	197	184	195	150	117	282	221
16	111	173	190	173	157	169	131	96	232	182
17	98	153	166	153	136	148	114	80	194	152
18	87	137	143	137	119	131	101	68	163	128
19	78	123	124	123	105	116	90	58	139	109
20	71	111	109	111	93	104	81	49	119	93
21	64	100	97	100	83	93	73	43	103	80
22	59	91	86	91	75	84	66	37	89	70

Payette Steel Building Components, LLC  
Cee 6" x 3-1/2" - 14 gauge

Stress Controlling (plf)		Cee 6 x 3-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	532	831	536	831	536	831	536	912	2197	1721
9	420	656	476	656	476	656	476	641	1543	1209
10	340	532	429	532	429	532	429	467	1125	881
11	281	439	390	439	390	439	360	351	845	662
12	236	369	357	369	357	369	296	270	651	510
13	201	315	330	315	315	315	248	213	512	401
14	174	271	306	271	262	271	210	170	410	321
15	151	236	269	236	221	235	181	138	333	261
16	133	208	235	208	189	203	157	114	275	215
17	118	184	200	184	164	178	138	95	229	179
18	105	164	172	164	143	157	122	80	193	151
19	94	147	150	147	126	139	108	68	164	128
20	85	133	131	133	112	125	97	58	141	110
21	77	121	116	121	100	112	87	50	121	95
22	70	110	104	110	90	101	79	44	106	83

Payette Steel Building Components, LLC  
 Cee 6" x 3-1/2" - 12 gauge

Stress Controlling (plf)		Cee 6 x 3-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	288	349	384	303	384	268	384	1383	3331	2609
9	256	295	341	262	341	235	341	971	2339	1833
10	230	256	307	230	307	209	307	708	1705	1336
11	209	226	279	206	279	189	279	532	1281	1004
12	192	202	256	186	256	172	256	410	987	773
13	177	183	236	169	236	158	236	322	776	608
14	164	167	219	156	219	146	219	258	622	487
15	153	153	205	144	205	135	205	210	505	396
16	144	142	192	134	192	126	192	173	416	326
17	135	132	181	125	181	119	181	144	347	272
18	128	124	171	117	171	112	171	121	292	229
19	121	116	162	111	162	106	162	103	249	195
20	115	110	153	105	153	100	153	88	213	167
21	110	104	146	99	146	95	139	76	184	144
22	105	98	140	94	140	91	126	66	160	125

Payette Steel Building Components, LLC  
Cee 8" x 2-1/2" - 16 gauge

Stress Controlling (plf)		Cee 8 x 2-1/2 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
10	386	524	298	472	298	429	298	656	1579	1237
12	268	414	248	381	248	352	248	379	914	716
14	197	308	213	308	213	299	213	239	575	451
16	151	236	186	236	186	231	178	160	386	302
18	119	186	166	186	162	178	138	112	271	212
20	97	151	149	151	127	142	110	82	197	155
22	80	125	118	125	102	115	90	62	148	116
24	67	105	95	105	84	96	75	47	114	89
26	57	89	79	89	70	81	63	37	90	70
28	49	77	66	77	60	69	54	30	72	56
30	43	67	56	67	51	60	47	24	58	46
32	38	59	49	58	45	52	41	20	48	38
34	33	52	42	50	39	46	36	17	40	31
36	30	47	37	45	35	41	32	14	34	27
38	27	42	33	40	31	36	29	12	29	23

Payette Steel Building Components, LLC  
 Cee 8" x 2-1/2" - 14 gauge

Stress Controlling (plf)		Cee 8 x 2-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
10	463	724	422	724	422	707	422	775	1867	1463
12	322	503	351	503	351	503	351	449	1080	846
14	236	369	301	369	301	369	286	282	680	533
16	181	283	264	283	257	277	213	189	456	357
18	143	223	234	223	195	213	165	133	320	251
20	116	181	179	181	152	170	132	97	233	183
22	96	150	141	150	123	138	108	73	175	137
24	80	126	114	126	101	115	90	56	135	106
26	69	107	95	107	84	97	76	44	106	83
28	59	92	79	92	71	83	65	35	85	67
30	51	80	68	80	61	71	56	29	69	54
32	45	71	58	69	53	62	49	24	57	45
34	40	63	51	61	47	55	43	20	47	37
36	36	56	45	53	41	49	38	17	40	31
38	32	50	40	47	37	43	34	14	34	27



Payette Steel Building Components, LLC  
 Cee 8" x 2-1/2" - 12 gauge

Stress Controlling (plf)		Cee 8 x 2-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
10	234	260	312	234	312	213	312	1169	2815	2205
12	195	205	260	189	260	175	260	676	1629	1276
14	167	170	223	158	223	148	223	426	1026	804
16	146	145	195	136	195	129	195	285	687	538
18	130	126	173	119	173	114	173	200	483	378
20	117	112	156	106	156	102	156	146	352	276
22	106	100	142	96	142	92	142	110	264	207
24	98	91	130	87	130	84	130	85	204	160
26	90	83	120	80	120	78	120	66	160	125
28	84	77	112	74	112	72	103	53	128	100
30	78	71	104	69	97	67	89	43	104	82
32	72	66	92	64	84	63	78	36	86	67
34	63	62	81	60	74	59	68	30	72	56
36	57	58	71	57	65	55	61	25	60	47
38	51	55	63	54	58	53	54	21	51	40

Payette Steel Building Components, LLC  
Cee 8" x 3-1/2" - 16 gauge

Stress Controlling (plf)		Cee 8 x 3-1/2 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
10	395	524	298	472	298	429	298	752	1811	1419
12	274	414	248	381	248	352	248	435	1048	821
14	202	315	213	315	213	299	213	274	660	517
16	154	241	186	241	186	236	182	184	442	346
18	122	191	166	191	166	182	141	129	310	243
20	99	154	149	154	130	145	113	94	226	177
22	82	128	120	128	105	118	92	71	170	133
24	69	107	98	107	86	98	76	54	131	103
26	58	91	81	91	72	82	65	43	103	81
28	50	79	68	79	61	70	55	34	82	65
30	44	69	58	68	52	61	48	28	67	53
32	39	60	50	59	46	53	42	23	55	43
34	34	53	43	52	40	47	37	19	46	36
36	30	48	38	46	35	42	33	16	39	30
38	27	43	34	40	31	37	29	14	33	26

Payette Steel Building Components, LLC  
 Cee 8" x 3-1/2" - 14 gauge

Stress Controlling (plf)		Cee 8 x 3-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
10	501	782	422	778	422	707	422	906	2183	1710
12	348	543	351	543	351	543	351	525	1264	990
14	255	399	301	399	301	399	301	330	796	623
16	196	306	264	306	264	299	231	221	533	418
18	155	241	234	241	210	231	179	155	374	293
20	125	196	193	196	165	183	143	113	273	214
22	103	162	153	162	132	149	116	85	205	161
24	87	136	124	136	109	124	97	66	158	124
26	74	116	102	116	91	104	82	52	124	97
28	64	100	86	100	77	89	70	41	99	78
30	56	87	73	86	66	77	61	34	81	63
32	49	76	63	75	58	67	53	28	67	52
34	43	68	55	65	51	59	47	23	56	44
36	39	60	48	58	45	53	41	19	47	37
38	35	54	43	51	40	47	37	17	40	31

Payette Steel Building Components, LLC  
Cee 8" x 3-1/2" - 12 gauge

Stress Controlling (plf)		Cee 8 x 3-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
10	234	260	312	234	312	213	312	1373	3307	2591
12	195	205	260	189	260	175	260	794	1914	1499
14	167	170	223	158	223	148	223	500	1205	944
16	146	145	195	136	195	129	195	335	807	633
18	130	126	173	119	173	114	173	235	567	444
20	117	112	156	106	156	102	156	172	413	324
22	106	100	142	96	142	92	142	129	311	243
24	98	91	130	87	130	84	130	99	239	187
26	90	83	120	80	120	78	120	78	188	147
28	84	77	112	74	112	72	111	63	151	118
30	78	71	104	69	104	67	96	51	122	96
32	73	66	98	64	92	63	84	42	101	79
34	69	62	87	60	80	59	74	35	84	66
36	61	58	77	57	71	55	66	29	71	56
38	55	55	68	54	63	53	59	25	60	47

Payette Steel Building Components, LLC

Cee 8" x 4" - 16 gauge

Stress Controlling (plf)		Cee 8 x 4 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
10	395	524	298	472	298	429	298	795	1916	1501
12	274	414	248	381	248	352	248	460	1109	869
14	202	315	213	315	213	299	213	290	698	547
16	154	241	186	241	186	236	182	194	468	366
18	122	191	166	191	166	182	141	136	329	257
20	99	154	149	154	130	145	113	99	240	188
22	82	128	120	128	105	118	92	75	180	141
24	69	107	98	107	86	98	76	58	139	109
26	58	91	81	91	72	82	65	45	109	85
28	50	79	68	79	61	70	55	36	87	68
30	44	69	58	68	52	61	48	29	71	56
32	39	60	50	59	46	53	42	24	58	46
34	34	53	43	52	40	47	37	20	49	38
36	30	48	38	46	35	42	33	17	41	32
38	27	43	34	40	31	37	29	14	35	27

Payette Steel Building Components, LLC

Cee 8" x 4" - 14 gauge

Stress Controlling (plf)		Cee 8 x 4 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
10	512	799	422	778	422	707	422	966	2328	1824
12	355	555	351	555	351	555	351	559	1347	1055
14	261	408	301	408	301	408	301	352	848	665
16	200	312	264	312	264	306	236	236	568	445
18	158	247	234	247	215	236	183	166	399	313
20	128	200	198	200	168	187	146	121	291	228
22	106	165	156	165	135	153	119	91	219	171
24	89	139	126	139	111	127	99	70	168	132
26	76	118	104	118	93	107	84	55	132	104
28	65	102	88	102	79	91	72	44	106	83
30	57	89	75	88	68	79	62	36	86	68
32	50	78	65	76	59	69	54	29	71	56
34	44	69	56	67	52	61	48	25	59	46
36	39	62	49	59	46	54	42	21	50	39
38	35	55	44	52	41	48	38	18	42	33

Payette Steel Building Components, LLC

Cee 8" x 4" - 12 gauge

Stress Controlling (plf)		Cee 8 x 4 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
10	234	260	312	234	312	213	312	1469	3539	2772
12	195	205	260	189	260	175	260	850	2048	1604
14	167	170	223	158	223	148	223	535	1290	1010
16	146	145	195	136	195	129	195	359	864	677
18	130	126	173	119	173	114	173	252	607	475
20	117	112	156	106	156	102	156	184	442	347
22	106	100	142	96	142	92	142	138	332	260
24	98	91	130	87	130	84	130	106	256	201
26	90	83	120	80	120	78	120	84	201	158
28	84	77	112	74	112	72	112	67	161	126
30	78	71	104	69	104	67	99	54	131	103
32	73	66	98	64	95	63	87	45	108	85
34	69	62	90	60	83	59	77	37	90	71
36	63	58	79	57	73	55	68	31	76	59
38	57	55	70	54	65	53	61	27	64	51

Payette Steel Building Components, LLC  
 Cee 10" x 2-1/2" - 16 gauge

Stress Controlling (plf)		Cee 10 x 2-1/2 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	310	326	244	300	244	278	244	624	1503	1178
14	244	270	209	251	209	235	209	393	947	742
16	187	230	183	216	183	204	183	263	634	497
18	148	200	163	190	163	181	163	185	445	349
20	120	177	147	169	147	162	136	135	325	254
22	99	155	133	152	127	143	111	101	244	191
24	83	130	118	130	104	118	93	78	188	147
26	71	111	98	111	87	100	78	61	148	116
28	61	95	82	95	74	85	67	49	118	93
30	53	83	70	83	63	74	58	40	96	75
32	47	73	60	71	55	64	51	33	79	62
34	41	65	53	63	48	57	45	27	66	52
36	37	58	46	55	43	50	40	23	56	44
38	33	52	41	49	38	45	35	20	47	37
40	30	47	37	44	34	40	32	17	41	32



Payette Steel Building Components, LLC  
 Cee 10" x 2-1/2" - 14 gauge

Stress Controlling (plf)		Cee 10 x 2-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	425	539	351	495	351	458	351	755	1820	1425
14	313	445	301	415	301	389	301	476	1146	898
16	239	374	264	357	264	337	264	319	768	601
18	189	295	234	295	234	282	219	224	539	422
20	153	239	211	239	202	224	175	163	393	308
22	127	198	187	198	162	183	142	123	295	231
24	106	166	151	166	133	152	118	94	227	178
26	91	142	125	142	111	128	100	74	179	140
28	78	122	105	122	95	109	86	59	143	112
30	68	106	90	106	81	94	74	48	116	91
32	60	93	77	91	71	82	65	40	96	75
34	53	83	67	80	62	73	57	33	80	63
36	47	74	59	71	55	64	51	28	67	53
38	42	66	52	63	49	58	45	24	57	45
40	38	60	47	56	44	52	41	20	49	38

Payette Steel Building Components, LLC  
 Cee 10" x 2-1/2" - 12 gauge

Stress Controlling (plf)		Cee 10 x 2-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	172	181	230	167	230	154	230	1155	2782	2179
14	148	150	197	140	197	131	197	727	1752	1372
16	129	128	172	120	172	114	172	487	1174	919
18	115	111	153	105	153	100	153	342	824	646
20	103	98	138	94	138	90	138	249	601	471
22	94	88	125	85	125	81	125	187	451	354
24	86	80	115	77	115	74	115	144	348	272
26	79	73	106	71	106	68	106	114	273	214
28	74	68	98	65	98	63	98	91	219	172
30	69	63	92	61	92	59	92	74	178	139
32	65	58	86	57	86	55	86	61	147	115
34	61	55	81	53	81	52	81	51	122	96
36	57	51	77	50	77	49	77	43	103	81
38	54	48	72	47	72	46	72	36	88	69
40	52	46	69	45	69	44	67	31	75	59

Payette Steel Building Components, LLC  
 Cee 10" x 3-1/2" - 16 gauge

Stress Controlling (plf)		Cee 10 x 3-1/2 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	310	326	244	300	244	278	244	711	1712	1341
14	252	270	209	251	209	235	209	448	1078	845
16	193	230	183	216	183	204	183	300	722	566
18	152	200	163	190	163	181	163	211	507	397
20	124	177	147	169	147	162	141	154	370	290
22	102	159	133	152	131	146	115	115	278	218
24	86	134	122	134	107	122	96	89	214	168
26	73	114	101	114	90	103	81	70	168	132
28	63	98	85	98	76	88	69	56	135	106
30	55	86	72	85	66	76	60	45	110	86
32	48	75	62	74	57	66	52	37	90	71
34	43	67	54	65	50	59	46	31	75	59
36	38	60	48	57	44	52	41	26	63	50
38	34	53	42	51	39	46	37	22	54	42
40	31	48	38	45	35	42	33	19	46	36

Payette Steel Building Components, LLC  
 Cee 10" x 3-1/2" - 14 gauge

Stress Controlling (plf)		Cee 10 x 3-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	439	539	346	495	346	458	346	861	2074	1625
14	323	445	297	415	297	389	297	542	1306	1023
16	247	379	260	357	260	337	260	363	875	685
18	195	305	231	305	231	291	226	255	614	481
20	158	247	208	247	208	232	180	186	448	351
22	131	204	189	204	167	189	147	140	337	264
24	110	172	156	172	137	156	122	108	259	203
26	94	146	129	146	115	132	103	85	204	160
28	81	126	108	126	98	113	88	68	163	128
30	70	110	92	109	84	97	77	55	133	104
32	62	96	80	94	73	85	67	45	109	86
34	55	85	69	83	64	75	59	38	91	71
36	49	76	61	73	56	66	52	32	77	60
38	44	68	54	65	50	59	47	27	65	51
40	40	62	48	58	45	53	42	23	56	44

Payette Steel Building Components, LLC  
 Cee 10" x 3-1/2" - 12 gauge

Stress Controlling (plf)		Cee 10 x 3-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	172	181	230	167	230	154	230	1339	3224	2526
14	148	150	197	140	197	131	197	843	2031	1591
16	129	128	172	120	172	114	172	565	1360	1066
18	115	111	153	105	153	100	153	397	955	748
20	103	98	138	94	138	90	138	289	696	546
22	94	88	125	85	125	81	125	217	523	410
24	86	80	115	77	115	74	115	167	403	316
26	79	73	106	71	106	68	106	132	317	248
28	74	68	98	65	98	63	98	105	254	199
30	69	63	92	61	92	59	92	86	206	162
32	65	58	86	57	86	55	86	71	170	133
34	61	55	81	53	81	52	81	59	142	111
36	57	51	77	50	77	49	77	50	119	94
38	54	48	72	47	72	46	72	42	102	80
40	52	46	69	45	69	44	69	36	87	68

Payette Steel Building Components, LLC

Cee 10" x 4" - 16 gauge

Stress Controlling (plf)		Cee 10 x 4 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	310	326	244	300	244	278	244	750	1807	1415
14	252	270	209	251	209	235	209	472	1138	891
16	193	230	183	216	183	204	183	316	762	597
18	152	200	163	190	163	181	163	222	535	419
20	124	177	147	169	147	162	141	162	390	306
22	102	159	133	152	131	146	115	122	293	230
24	86	134	122	134	107	122	96	94	226	177
26	73	114	101	114	90	103	81	74	178	139
28	63	98	85	98	76	88	69	59	142	111
30	55	86	72	85	66	76	60	48	116	91
32	48	75	62	74	57	66	52	40	95	75
34	43	67	54	65	50	59	46	33	79	62
36	38	60	48	57	44	52	41	28	67	52
38	34	53	42	51	39	46	37	24	57	45
40	31	48	38	45	35	42	33	20	49	38

Payette Steel Building Components, LLC

Cee 10" x 4" - 14 gauge

Stress Controlling (plf)		Cee 10 x 4 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	442	539	346	495	346	458	346	910	2192	1717
14	325	445	297	415	297	389	297	573	1380	1081
16	249	379	260	357	260	337	260	384	925	724
18	197	307	231	307	231	293	227	270	649	509
20	159	249	208	249	208	233	181	197	473	371
22	132	206	189	206	168	190	148	148	356	279
24	111	173	157	173	138	158	123	114	274	215
26	94	147	130	147	116	133	104	89	215	169
28	81	127	109	127	98	113	89	72	173	135
30	71	111	93	110	84	98	77	58	140	110
32	62	97	80	95	73	86	67	48	116	91
34	55	86	70	83	64	75	59	40	96	75
36	49	77	62	73	57	67	53	34	81	64
38	44	69	55	65	51	60	47	29	69	54
40	40	62	49	58	45	54	42	25	59	46

Payette Steel Building Components, LLC

Cee 10" x 4" - 12 gauge

Stress Controlling (plf)		Cee 10 x 4 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	172	181	230	167	230	154	230	1427	3436	2692
14	148	150	197	140	197	131	197	898	2164	1695
16	129	128	172	120	172	114	172	602	1450	1136
18	115	111	153	105	153	100	153	423	1018	798
20	103	98	138	94	138	90	138	308	742	581
22	94	88	125	85	125	81	125	232	558	437
24	86	80	115	77	115	74	115	178	430	337
26	79	73	106	71	106	68	106	140	338	265
28	74	68	98	65	98	63	98	112	271	212
30	69	63	92	61	92	59	92	91	220	172
32	65	58	86	57	86	55	86	75	181	142
34	61	55	81	53	81	52	81	63	151	118
36	57	51	77	50	77	49	77	53	127	100
38	54	48	72	47	72	46	72	45	108	85
40	52	46	69	45	69	44	69	39	93	73



Payette Steel Building Components, LLC  
 Cee 12" x 2-1/2" - 14 gauge

Stress Controlling (plf)		Cee 12 x 2-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	422	444	342	408	342	378	342	1116	2687	2105
14	347	367	293	342	293	320	293	702	1692	1326
16	266	312	256	294	256	278	256	471	1134	888
18	210	272	228	258	228	246	228	331	796	624
20	170	241	205	230	205	220	194	241	580	455
22	141	216	186	207	180	199	158	181	436	342
24	118	185	168	185	148	168	132	139	336	263
26	101	157	139	157	124	142	111	110	264	207
28	87	136	117	136	105	121	95	88	212	166
30	76	118	100	117	90	105	82	71	172	135
32	66	104	86	102	78	92	72	59	142	111
34	59	92	75	89	69	81	63	49	118	93
36	53	82	66	78	61	72	56	41	100	78
38	47	74	58	70	54	64	50	35	85	66
40	43	66	52	62	48	57	45	30	73	57

Payette Steel Building Components, LLC  
 Cee 12" x 2-1/2" - 12 gauge

Stress Controlling (plf)		Cee 12 x 2-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	836	1306	782	1306	782	1272	782	1755	4227	3312
14	614	959	670	959	670	959	670	1105	2662	2085
16	470	734	586	734	586	719	554	740	1783	1397
18	371	580	521	580	506	554	430	520	1253	981
20	301	470	465	470	396	441	343	379	913	715
22	249	388	367	388	318	359	280	285	686	537
24	209	326	297	326	262	298	233	219	528	414
26	178	278	246	278	219	251	197	173	416	326
28	153	240	206	240	186	214	168	138	333	261
30	134	209	176	207	160	185	146	112	271	212
32	117	184	152	180	139	162	127	93	223	175
34	104	163	132	157	122	143	112	77	186	146
36	93	145	116	139	107	126	100	65	157	123
38	83	130	103	123	96	113	89	55	133	104
40	75	117	92	110	86	102	80	47	114	89

Payette Steel Building Components, LLC  
 Cee 12" x 3-1/2" - 14 gauge

Stress Controlling (plf)		Cee 12 x 3-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	422	444	342	408	342	378	342	1289	3105	2433
14	361	367	293	342	293	320	293	812	1956	1532
16	294	312	256	294	256	278	256	544	1310	1026
18	232	272	228	258	228	246	228	382	920	721
20	188	241	205	230	205	220	205	278	671	525
22	156	216	186	207	186	199	175	209	504	395
24	131	196	171	189	164	182	146	161	388	304
26	111	174	154	173	137	157	123	127	305	239
28	96	150	129	150	116	134	105	101	244	192
30	84	131	110	130	100	116	91	83	199	156
32	74	115	95	112	87	101	80	68	164	128
34	65	102	83	98	76	89	70	57	137	107
36	58	91	73	87	67	79	62	48	115	90
38	52	81	64	77	60	71	56	41	98	77
40	47	74	58	69	54	64	50	35	84	66

Payette Steel Building Components, LLC  
Cee 12" x 3-1/2" - 12 gauge

Stress Controlling (plf)		Cee 12 x 3-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	967	1495	782	1374	782	1272	782	2063	4968	3892
14	710	1110	670	1110	670	1078	670	1299	3129	2451
16	544	850	586	850	586	832	586	870	2096	1642
18	430	671	521	671	521	641	497	611	1472	1153
20	348	544	469	544	458	510	397	446	1073	841
22	288	449	424	449	368	415	324	335	806	632
24	242	378	344	378	303	344	269	258	621	487
26	206	322	284	322	253	290	227	203	488	383
28	178	277	239	277	215	248	195	162	391	306
30	155	242	204	240	185	214	169	132	318	249
32	136	212	176	208	160	187	147	109	262	205
34	120	188	153	182	141	165	130	91	218	171
36	107	168	134	160	124	146	115	76	184	144
38	96	151	119	143	111	131	103	65	156	123
40	87	136	106	127	99	117	93	56	134	105

Payette Steel Building Components, LLC

Cee 12" x 4" - 14 gauge

Stress Controlling (plf)		Cee 12 x 4 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	422	444	342	408	342	378	342	1359	3274	2565
14	361	367	293	342	293	320	293	856	2062	1615
16	298	312	256	294	256	278	256	573	1381	1082
18	235	272	228	258	228	246	228	403	970	760
20	190	241	205	230	205	220	205	294	707	554
22	157	216	186	207	186	199	177	221	531	416
24	132	196	171	189	166	182	147	170	409	321
26	113	176	155	173	139	159	124	134	322	252
28	97	152	131	152	118	136	107	107	258	202
30	85	132	111	131	101	117	92	87	210	164
32	74	116	96	114	88	102	81	72	173	135
34	66	103	84	100	77	90	71	60	144	113
36	59	92	74	88	68	80	63	50	121	95
38	53	82	65	78	61	72	56	43	103	81
40	48	74	58	70	54	64	51	37	88	69

Payette Steel Building Components, LLC

Cee 12" x 4" - 12 gauge

Stress Controlling (plf)		Cee 12 x 4 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	996	1495	782	1374	782	1272	782	2191	5277	4134
14	731	1143	670	1143	670	1078	670	1379	3323	2603
16	560	875	586	875	586	856	586	924	2226	1744
18	443	691	521	691	521	661	512	649	1563	1225
20	358	560	469	560	469	525	408	473	1140	893
22	296	463	426	463	379	427	333	355	856	671
24	249	389	354	389	312	355	277	274	660	517
26	212	331	293	331	261	299	234	215	519	406
28	183	286	246	286	221	256	201	172	415	325
30	159	249	210	247	190	221	174	140	338	265
32	140	219	181	214	165	193	152	116	278	218
34	124	194	158	187	145	170	134	96	232	182
36	111	173	139	165	128	151	119	81	195	153
38	99	155	123	147	114	135	106	69	166	130
40	90	140	110	131	102	121	96	59	142	112

Payette Steel Building Components, LLC  
Cee 14" x 2-1/2" - 14 gauge

Stress Controlling (plf)		Cee 14 x 2-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	360	379	337	348	337	322	337	1593	3837	3006
14	309	313	289	292	289	273	289	1003	2417	1893
16	270	267	253	251	253	237	253	672	1619	1268
18	240	232	225	220	225	210	225	472	1137	891
20	200	206	202	196	202	188	202	344	829	649
22	166	185	184	177	184	170	184	259	623	488
24	139	167	169	161	169	155	155	199	480	376
26	119	153	156	148	146	143	131	157	377	296
28	102	141	137	137	124	133	112	125	302	237
30	89	131	117	127	106	123	97	102	246	192
32	78	122	101	119	92	108	85	84	202	159
34	69	108	88	105	81	95	75	70	169	132
36	62	97	77	92	72	84	66	59	142	111
38	55	87	69	82	64	75	59	50	121	95
40	50	78	61	73	57	68	53	43	104	81

Payette Steel Building Components, LLC  
Cee 14" x 2-1/2" - 12 gauge

Stress Controlling (plf)		Cee 14 x 2-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	999	1272	774	1169	774	1082	774	2523	6078	4762
14	734	1051	664	980	664	918	664	1589	3828	2999
16	562	878	581	843	581	797	581	1064	2564	2009
18	444	694	516	694	516	663	514	748	1801	1411
20	360	562	464	562	464	527	410	545	1313	1028
22	297	464	422	464	380	429	334	409	986	773
24	250	390	355	390	313	356	278	315	760	595
26	213	332	293	332	261	300	235	248	598	468
28	183	287	247	287	222	256	201	199	478	375
30	160	250	210	248	191	222	174	161	389	305
32	140	219	181	215	166	193	152	133	321	251
34	124	194	158	188	145	170	134	111	267	209
36	111	173	139	166	128	151	119	93	225	176
38	100	156	123	147	114	135	107	79	191	150
40	90	140	110	132	102	121	96	68	164	129



Payette Steel Building Components, LLC  
 Cee 14" x 3-1/2" - 14 gauge

Stress Controlling (plf)		Cee 14 x 3-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	360	379	337	348	337	322	337	1819	4382	3433
14	309	313	289	292	289	273	289	1146	2760	2162
16	270	267	253	251	253	237	253	767	1849	1448
18	240	232	225	220	225	210	225	539	1298	1017
20	216	206	202	196	202	188	202	393	947	741
22	181	185	184	177	184	170	184	295	711	557
24	152	167	169	161	169	155	169	227	548	429
26	130	153	156	148	156	143	143	179	431	338
28	112	141	145	137	135	133	123	143	345	270
30	97	131	128	127	116	123	106	116	280	220
32	86	122	110	119	101	116	93	96	231	181
34	76	114	96	111	88	104	82	80	193	151
36	68	106	85	101	78	92	73	67	162	127
38	61	95	75	90	70	82	65	57	138	108
40	55	86	67	80	62	74	58	49	118	93

Payette Steel Building Components, LLC  
 Cee 14" x 3-1/2" - 12 gauge

Stress Controlling (plf)		Cee 14 x 3-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	1174	1272	774	1169	774	1082	774	2959	7127	5583
14	863	1051	664	980	664	918	664	1863	4488	3516
16	660	895	581	843	581	797	581	1248	3007	2355
18	522	780	516	740	516	704	516	877	2112	1654
20	423	660	464	659	464	619	464	639	1539	1206
22	349	546	422	546	422	504	393	480	1157	906
24	294	459	387	459	368	418	327	370	891	698
26	250	391	345	391	307	353	276	291	701	549
28	216	337	290	337	261	301	236	233	561	439
30	188	294	247	291	224	260	205	189	456	357
32	165	258	213	252	195	227	179	156	376	294
34	146	229	186	221	171	200	158	130	313	245
36	130	204	163	195	151	178	140	110	264	207
38	117	183	145	173	134	159	125	93	224	176
40	106	165	129	155	120	143	113	80	192	151

Payette Steel Building Components, LLC

Cee 14" x 4" - 14 gauge

Stress Controlling (plf)		Cee 14 x 4 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	360	379	337	348	337	322	337	1914	4610	3612
14	309	313	289	292	289	273	289	1205	2903	2274
16	270	267	253	251	253	237	253	807	1945	1524
18	240	232	225	220	225	210	225	567	1366	1070
20	216	206	202	196	202	188	202	413	996	780
22	183	185	184	177	184	170	184	311	748	586
24	154	167	169	161	169	155	169	239	576	451
26	131	153	156	148	156	143	145	188	453	355
28	113	141	145	137	137	133	124	151	363	284
30	99	131	130	127	118	123	107	122	295	231
32	87	122	112	119	102	116	94	101	243	190
34	77	114	97	111	90	105	83	84	203	159
36	68	107	86	102	79	93	73	71	171	134
38	61	96	76	91	71	83	66	60	145	114
40	55	87	68	81	63	75	59	52	124	98

Payette Steel Building Components, LLC

Cee 14" x 4" - 12 gauge

Stress Controlling (plf)		Cee 14 x 4 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	1185	1272	774	1169	774	1082	774	3111	7493	5870
14	870	1051	664	980	664	918	664	1959	4719	3697
16	666	895	581	843	581	797	581	1312	3161	2476
18	527	780	516	740	516	704	516	922	2220	1739
20	426	666	464	659	464	625	464	672	1619	1268
22	352	551	422	551	422	509	397	505	1216	953
24	296	463	387	463	371	422	330	389	937	734
26	252	394	348	394	310	356	279	306	737	577
28	218	340	293	340	263	304	239	245	590	462
30	190	296	249	294	226	263	207	199	480	376
32	167	260	215	255	197	229	181	164	395	310
34	148	231	187	223	172	202	159	137	329	258
36	132	206	165	197	152	179	141	115	278	217
38	118	185	146	175	136	160	126	98	236	185
40	107	167	130	156	122	144	114	84	202	158

## Zee Purlin Section Properties

ZEE			FULL SECTION PROPERTIES									EFFECTIVE SECTION PROPERTIES (FULLY BRACED)					
Size	Thickness		Weight	A	I <sub>x-x</sub>	S <sub>x-x</sub>	r <sub>x</sub>	I <sub>y-y</sub>	r <sub>y</sub>	C <sub>w</sub>	J	A <sub>e</sub>	I <sub>xe</sub>	S <sub>xe</sub>	S <sub>ye</sub>	Max	V <sub>ay</sub>
Web x Flange	gauge	in	plf	in <sup>2</sup>	in <sup>4</sup>	in <sup>3</sup>	in	in <sup>4</sup>	in	in <sup>6</sup>	in <sup>4</sup> x 1000	in <sup>2</sup>	in <sup>4</sup>	in <sup>3</sup>	in <sup>3</sup>	k-in	kips
4" x 1-5/8"	18	0.048	1.35	0.40	0.99	0.50	1.58	0.35	0.94	0.95	0.299	0.30	0.97	0.48	0.16	15.66	2.49
4" x 1-5/8"	16	0.058	1.65	0.49	1.21	0.60	1.58	0.43	0.94	1.15	0.553	0.40	1.21	0.60	0.20	19.90	3.77
4" x 1-5/8"	14	0.069	1.94	0.57	1.41	0.71	1.57	0.50	0.93	1.33	0.904	0.50	1.41	0.71	0.24	23.23	4.95
4" x 1-5/8"	12	0.103	2.86	0.84	2.04	1.02	1.56	0.71	0.92	1.86	2.977	0.82	2.04	1.02	0.35	33.56	7.26
4" x 2"	18	0.048	1.47	0.43	1.13	0.57	1.62	0.57	1.14	1.45	0.326	0.30	1.05	0.50	0.21	16.53	2.49
4" x 2"	16	0.058	1.80	0.53	1.38	0.69	1.61	0.69	1.14	1.75	0.603	0.40	1.32	0.64	0.28	20.95	3.77
4" x 2"	14	0.069	2.12	0.62	1.61	0.81	1.61	0.80	1.13	2.03	0.985	0.54	1.60	0.80	0.33	26.19	4.95
4" x 2"	12	0.103	3.12	0.92	2.33	1.17	1.59	1.15	1.12	2.87	3.250	0.90	2.33	1.17	0.48	38.39	7.26
4" x 2-1/2"	16	0.058	2.00	0.59	1.61	0.80	1.65	1.17	1.41	2.81	0.669	0.41	1.43	0.66	0.31	21.75	3.77
4" x 2-1/2"	14	0.069	2.35	0.69	1.88	0.94	1.65	1.37	1.41	3.26	1.095	0.51	1.70	0.79	0.38	26.12	4.95
4" x 2-1/2"	12	0.103	3.47	1.02	2.72	1.36	1.63	1.98	1.39	4.62	3.614	0.95	2.67	1.31	0.68	43.10	7.26

Payette Steel Building Components, LLC

ZEE			FULL SECTION PROPERTIES									EFFECTIVE SECTION PROPERTIES (FULLY BRACED)					
Size	Thickness		Weight	A	I <sub>x-x</sub>	S <sub>x-x</sub>	r <sub>x</sub>	I <sub>y-y</sub>	r <sub>y</sub>	C <sub>w</sub>	J	A <sub>e</sub>	I <sub>xe</sub>	S <sub>xe</sub>	S <sub>ye</sub>	Max	V <sub>ay</sub>
Web x Flange	Ga	in	plf	in <sup>2</sup>	in <sup>4</sup>	in <sup>3</sup>	in	in <sup>4</sup>	in	in <sup>6</sup>	in <sup>4</sup> x 1000	in <sup>2</sup>	in <sup>4</sup>	in <sup>3</sup>	in <sup>3</sup>	k-in	kips
4" x 3-1/2"	16	0.058	2.40	0.71	2.06	1.03	1.71	2.73	1.97	5.87	0.802	0.42	1.63	0.70	0.43	23.13	3.77
4" x 3-1/2"	14	0.069	2.82	0.83	2.41	1.20	1.70	3.19	1.96	6.83	1.131	0.53	1.96	0.86	0.51	28.24	4.95
4" x 3-1/2"	12	0.103	4.18	1.23	3.51	1.75	1.69	4.66	1.95	9.77	4.342	0.97	3.09	1.41	0.84	46.42	7.26
6" x 1-5/8"	18	0.048	1.67	0.49	2.58	0.86	2.29	0.35	0.85	2.30	0.370	0.30	2.52	0.83	0.16	27.18	1.73
6" x 1-5/8"	16	0.058	2.05	0.60	3.15	1.05	2.29	0.43	0.84	2.78	0.685	0.41	3.15	1.05	0.20	34.57	3.22
6" x 1-5/8"	14	0.069	2.41	0.71	3.69	1.23	2.28	0.50	0.84	3.22	1.122	0.51	3.69	1.23	0.24	40.46	5.24
6" x 1-5/8"	12	0.103	3.56	1.05	5.37	1.79	2.26	0.71	0.82	4.55	3.705	0.87	5.37	1.79	0.35	58.91	11.51
6" x 2"	18	0.048	1.79	0.53	2.90	0.97	2.34	0.57	1.04	3.53	0.397	0.31	2.71	0.86	0.21	28.47	1.73
6" x 2"	16	0.058	2.20	0.65	3.54	1.18	2.34	0.69	1.03	4.28	0.735	0.41	3.38	1.09	0.28	35.96	3.22
6" x 2"	14	0.069	2.59	0.76	4.14	1.38	2.33	0.80	1.03	4.97	1.204	0.55	4.11	1.36	0.33	44.80	5.24
6" x 2"	12	0.103	3.82	1.12	6.04	2.01	2.32	1.15	1.01	7.06	3.978	0.95	6.04	2.01	0.48	66.29	11.51
6" x 2-1/2"	16	0.058	2.41	0.71	3.98	1.33	2.37	0.64	0.95	5.10	0.805	0.46	3.74	1.30	0.37	39.41	3.22
6" x 2-1/2"	14	0.069	2.83	0.83	4.66	1.55	2.37	0.74	0.95	5.90	1.316	0.57	4.43	1.43	0.44	46.99	5.24
6" x 2-1/2"	12	0.103	4.17	1.23	6.77	2.26	2.35	1.06	0.93	8.25	4.336	1.05	6.77	2.26	0.63	74.31	11.51

Payette Steel Building Components, LLC

ZEE			FULL SECTION PROPERTIES									EFFECTIVE SECTION PROPERTIES (FULLY BRACED)					
Size	Thickness		Weight	A	I <sub>x-x</sub>	S <sub>x-x</sub>	r <sub>x</sub>	I <sub>y-y</sub>	r <sub>y</sub>	C <sub>w</sub>	J	A <sub>e</sub>	I <sub>xe</sub>	S <sub>xe</sub>	S <sub>ye</sub>	Max	V <sub>ay</sub>
Web x Flange	Ga	in	plf	in <sup>2</sup>	in <sup>4</sup>	in <sup>3</sup>	in	in <sup>4</sup>	in	in <sup>6</sup>	in <sup>4</sup> x 1000	in <sup>2</sup>	in <sup>4</sup>	in <sup>3</sup>	in <sup>3</sup>	k-in	kips
6" x 3-1/2"	16	0.058	2.80	0.82	5.01	1.67	2.47	1.42	1.31	11.19	0.938	0.47	4.27	1.29	0.62	42.33	3.22
6" x 3-1/2"	14	0.069	3.30	0.97	5.87	1.96	2.46	1.66	1.31	12.98	1.534	0.59	5.08	1.55	0.73	50.88	5.24
6" x 3-1/2"	12	0.103	4.87	1.43	8.56	2.85	2.44	2.39	1.29	18.36	5.065	1.07	7.87	2.47	1.05	81.46	11.51
8" x 2-1/2"	16	0.058	2.80	0.82	7.82	1.96	3.08	0.70	0.92	9.24	0.938	0.46	7.34	1.76	0.39	58.12	2.36
8" x 2-1/2"	14	0.069	3.30	0.97	9.16	2.29	3.07	0.82	0.92	10.70	1.534	0.58	8.72	2.11	0.46	69.62	3.89
8" x 2-1/2"	12	0.103	4.87	1.43	13.37	3.34	3.05	1.16	0.90	15.04	5.065	1.07	13.37	3.41	0.65	110.04	11.71
8" x 3-1/2"	16	0.058	3.20	0.94	9.66	2.42	3.20	1.57	1.29	20.26	1.070	0.47	8.07	1.80	0.64	59.33	2.36
8" x 3-1/2"	14	0.069	3.76	1.11	11.33	2.83	3.20	1.83	1.29	23.54	1.752	0.60	9.89	2.28	0.76	75.04	3.89
8" x 3-1/2"	12	0.103	5.57	1.64	16.58	4.14	3.18	2.64	1.27	33.46	5.793	1.09	15.27	3.62	1.09	119.24	11.71
8" x 4"	16	0.058	3.40	1.00	10.58	2.65	3.25	2.17	1.47	27.80	1.137	0.47	8.36	1.80	0.77	49.61	2.36
8" x 4"	14	0.069	4.00	1.18	12.41	3.10	3.25	2.53	1.47	32.33	1.861	0.60	10.38	2.33	0.93	76.74	3.89
8" x 4"	12	0.103	5.92	1.74	18.18	4.55	3.23	3.67	1.45	46.14	6.157	1.11	16.12	3.74	1.35	123.06	11.71

Payette Steel Building Components, LLC

ZEE			FULL SECTION PROPERTIES									EFFECTIVE SECTION PROPERTIES (FULLY BRACED)					
Size	Thickness		Weight	A	I <sub>x-x</sub>	S <sub>x-x</sub>	r <sub>x</sub>	I <sub>y-y</sub>	r <sub>y</sub>	C <sub>w</sub>	J	A <sub>e</sub>	I <sub>xe</sub>	S <sub>xe</sub>	S <sub>ye</sub>	Max	V <sub>ay</sub>
Web x Flange	gauge	in	plf	in <sup>2</sup>	in <sup>4</sup>	in <sup>3</sup>	in	in <sup>4</sup>	in	in <sup>6</sup>	in <sup>4</sup> x 1000	in <sup>2</sup>	in <sup>4</sup>	in <sup>3</sup>	in <sup>3</sup>	k-in	kips
10" x 2-1/2"	16	0.058	3.20	0.94	13.31	2.66	3.76	0.75	0.89	14.96	1.070	0.46	11.85	2.18	0.39	71.85	1.86
10" x 2-1/2"	14	0.069	3.76	1.11	15.60	3.12	3.75	0.87	0.89	17.34	1.752	0.58	14.60	2.79	0.46	92.03	3.07
10" x 2-1/2"	12	0.103	5.57	1.64	22.83	4.57	3.73	1.24	0.87	24.45	5.793	1.09	22.83	4.57	0.66	150.35	10.33
10" x 3-1/2"	16	0.058	3.60	1.06	16.20	3.24	3.91	1.69	1.26	32.80	1.203	0.47	12.98	2.25	0.66	73.94	1.86
10" x 3-1/2"	14	0.069	4.23	1.25	19.00	3.80	3.91	1.97	1.26	38.15	1.970	0.60	16.03	2.88	0.78	94.77	3.07
10" x 3-1/2"	12	0.103	6.27	1.84	27.87	5.57	3.89	2.84	1.24	54.41	6.522	1.10	25.76	4.91	1.12	161.70	10.33
10" x 4"	16	0.058	3.80	1.12	17.64	3.53	3.97	2.33	1.44	45.00	1.270	0.48	13.42	2.25	0.78	62.00	1.86
10" x 4"	14	0.069	4.47	1.31	20.70	4.14	3.97	2.72	1.44	52.40	2.079	0.61	16.63	2.90	0.95	95.49	3.07
10" x 4"	12	0.103	6.62	1.95	30.39	6.08	3.95	3.94	1.42	75.01	6.886	1.12	27.11	5.06	1.38	166.74	10.33
12" x 2-1/2"	14	0.069	4.23	1.25	24.26	4.04	4.41	0.91	0.86	25.95	1.970	0.58	20.95	3.10	0.47	101.95	2.53
12" x 2-1/2"	12	0.103	6.27	1.84	35.56	5.93	4.39	1.30	0.84	36.67	6.522	1.09	34.26	5.48	0.67	180.55	8.52
12" x 3-1/2"	14	0.069	4.70	1.38	29.16	4.86	4.59	2.07	1.22	57.15	2.188	0.60	23.65	3.43	0.79	113.07	2.53
12" x 3-1/2"	12	0.103	6.97	2.05	42.85	7.14	4.57	2.99	1.21	81.70	7.250	1.11	39.74	6.34	1.14	208.81	8.52
12" x 4"	14	0.069	4.94	1.45	31.61	5.27	4.67	2.88	1.41	78.50	2.297	0.61	24.50	3.47	0.97	114.24	2.53
12" x 4"	12	0.103	7.32	2.15	46.50	7.75	4.65	4.17	1.39	112.63	7.614	1.13	41.71	6.53	1.41	215.11	8.52
14" x 2-1/2"	14	0.069	4.70	1.38	35.40	5.06	5.06	0.95	0.83	36.62	2.188	0.58	29.54	3.65	0.48	120.36	2.16
14" x 2-1/2"	12	0.103	6.97	2.05	51.99	7.43	5.04	1.35	0.81	51.84	7.250	1.10	48.83	6.55	0.68	215.58	7.25
14" x 3-1/2"	14	0.069	5.17	1.52	42.09	6.01	5.26	2.16	1.19	80.80	2.406	0.61	32.90	3.99	0.80	131.49	2.16
14" x 3-1/2"	12	0.103	7.67	2.26	61.93	8.85	5.24	3.12	1.18	115.69	7.979	1.12	56.77	7.70	1.15	253.51	7.25
14" x 4"	14	0.069	5.40	1.59	45.43	6.49	5.35	3.01	1.38	111.03	2.515	0.61	34.04	4.04	0.98	133.05	2.16
14" x 4"	12	0.103	8.02	2.36	66.91	9.56	5.33	4.35	1.36	159.55	8.343	1.14	58.79	7.77	1.43	255.84	7.25



Zee Purlin Load Tables

Zee 4" x 1-5/8" - 18 gauge



Stress Controlling (plf)		Zee 4 x 1-5/8 18 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	165	257	249	257	249	257	234	167	402	315
9	130	203	222	203	222	203	177	117	282	221
10	105	165	187	165	187	165	139	85	206	161
11	87	136	155	136	151	136	112	64	154	121
12	73	114	130	114	120	114	92	49	119	93
13	62	97	111	97	98	97	77	39	94	73
14	54	84	96	84	81	84	65	31	75	59
15	47	73	83	73	68	73	56	25	61	48
16	41	64	73	64	59	63	49	21	50	39
17	36	57	62	57	51	55	43	17	42	33
18	33	51	53	51	44	49	38	15	35	28
19	29	46	46	46	39	43	34	12	30	23
20	26	41	41	41	35	39	30	11	26	20
21	24	37	36	37	31	35	27	9	22	17
22	22	34	32	34	28	31	25	8	19	15

Payette Steel Building Components, LLC  
 Zee 4" x 1-5/8" - 16 gauge

Stress Controlling (plf)		Zee 4 x 1-5/8 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	206	322	366	322	366	322	293	207	498	390
9	163	254	289	254	289	254	221	145	349	274
10	132	206	234	206	234	206	173	106	255	200
11	109	170	194	170	188	170	139	79	191	150
12	91	143	163	143	150	143	115	61	147	115
13	78	122	139	122	122	122	96	48	116	91
14	67	105	119	105	101	105	81	39	93	73
15	59	91	104	91	86	91	70	31	75	59
16	51	80	91	80	73	79	61	26	62	49
17	46	71	77	71	63	69	53	22	52	41
18	41	64	67	64	55	61	47	18	44	34
19	36	57	58	57	49	54	42	15	37	29
20	33	51	51	51	43	48	38	13	32	25
21	30	47	45	47	39	43	34	11	28	22
22	27	43	40	43	35	39	31	10	24	19

Payette Steel Building Components, LLC  
Zee 4" x 1-5/8" - 14 gauge

Stress Controlling (plf)		Zee 4 x 1-5/8 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	244	381	433	381	433	381	346	241	580	454
9	192	301	342	301	342	301	262	169	407	319
10	156	244	277	244	277	244	205	123	297	233
11	129	201	229	201	223	201	165	93	223	175
12	108	169	192	169	177	169	136	71	172	135
13	92	144	164	144	144	144	113	56	135	106
14	80	124	141	124	120	124	96	45	108	85
15	69	108	123	108	101	108	83	37	88	69
16	61	95	108	95	87	93	72	30	72	57
17	54	84	91	84	75	81	63	25	60	47
18	48	75	79	75	65	72	56	21	51	40
19	43	67	69	67	58	64	50	18	43	34
20	39	61	60	61	51	57	44	15	37	29
21	35	55	53	55	46	51	40	13	32	25
22	32	50	48	50	41	46	36	12	28	22

Payette Steel Building Components, LLC  
Zee 4" x 1-5/8" - 12 gauge

Stress Controlling (plf)		Zee 4 x 1-5/8 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	350	547	622	547	622	547	498	348	839	657
9	276	432	492	432	492	432	376	245	589	462
10	224	350	398	350	398	350	295	178	430	336
11	185	289	329	289	320	289	237	134	323	253
12	156	243	276	243	254	243	195	103	249	195
13	133	207	236	207	207	207	163	81	196	153
14	114	179	203	179	172	179	138	65	157	123
15	100	156	177	156	145	154	119	53	127	100
16	87	137	154	137	124	134	103	44	105	82
17	77	121	131	121	108	117	90	36	87	68
18	69	108	113	108	94	103	80	31	74	58
19	62	97	98	97	83	92	71	26	63	49
20	56	87	86	87	74	82	64	22	54	42
21	51	79	77	79	66	74	57	19	46	36
22	46	72	68	72	59	67	52	17	40	32

Payette Steel Building Components, LLC  
Zee 4" x 2" - 18 gauge

Stress Controlling (plf)		Zee 4 x 2 18 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	172	268	249	268	249	268	244	184	443	347
9	136	212	222	212	222	212	185	129	311	244
10	110	172	195	172	195	172	144	94	227	178
11	91	142	161	142	157	142	116	71	170	133
12	76	119	136	119	125	119	95	54	131	103
13	65	101	115	101	102	101	80	43	103	81
14	56	88	100	88	84	88	68	34	83	65
15	49	76	87	76	71	76	58	28	67	53
16	43	67	76	67	61	66	51	23	55	43
17	38	59	64	59	53	57	44	19	46	36
18	34	53	55	53	46	51	39	16	39	30
19	30	48	48	48	41	45	35	14	33	26
20	27	43	42	43	36	40	31	12	28	22
21	25	39	38	39	32	36	28	10	24	19
22	23	35	33	35	29	33	26	9	21	17

Payette Steel Building Components, LLC  
 Zee 4" x 2" - 16 gauge

Stress Controlling (plf)		Zee 4 x 2 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	220	343	387	343	387	343	312	229	551	432
9	173	271	308	271	308	271	236	161	387	303
10	141	220	250	220	250	220	185	117	282	221
11	116	181	206	181	201	181	149	88	212	166
12	98	152	173	152	160	152	122	68	163	128
13	83	130	148	130	130	130	102	53	128	101
14	72	112	127	112	108	112	87	43	103	81
15	62	98	111	98	91	97	75	35	84	65
16	55	86	97	86	78	84	65	29	69	54
17	49	76	82	76	68	73	57	24	57	45
18	43	68	71	68	59	65	50	20	48	38
19	39	61	62	61	52	58	45	17	41	32
20	35	55	54	55	46	51	40	15	35	28
21	32	50	48	50	41	46	36	13	30	24
22	29	45	43	45	37	42	33	11	26	21

Payette Steel Building Components, LLC

Zee 4" x 2" - 14 gauge

Stress Controlling (plf)		Zee 4 x 2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	274	429	488	429	488	429	390	274	659	517
9	217	339	386	339	386	339	295	192	463	363
10	176	274	312	274	312	274	231	140	338	264
11	145	227	258	227	251	227	186	105	254	199
12	122	191	217	191	200	191	153	81	195	153
13	104	162	185	162	163	162	128	64	154	120
14	90	140	159	140	135	140	108	51	123	96
15	78	122	139	122	114	121	93	42	100	78
16	69	107	121	107	98	105	81	34	82	65
17	61	95	103	95	84	92	71	29	69	54
18	54	85	89	85	74	81	63	24	58	45
19	49	76	77	76	65	72	56	20	49	39
20	44	69	68	69	58	64	50	18	42	33
21	40	62	60	62	52	58	45	15	36	29
22	36	57	54	57	46	52	41	13	32	25

Payette Steel Building Components, LLC

Zee 4" x 2" - 12 gauge

Stress Controlling (plf)		Zee 4 x 2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	401	627	714	627	714	627	571	398	958	751
9	317	496	564	496	564	496	432	279	673	527
10	257	401	457	401	457	401	338	204	491	384
11	212	332	377	332	367	332	272	153	369	289
12	178	279	317	279	292	279	223	118	284	222
13	152	238	270	238	238	238	187	93	223	175
14	131	205	233	205	198	205	159	74	179	140
15	114	178	203	178	167	177	136	60	145	114
16	100	157	177	157	143	153	118	50	120	94
17	89	139	151	139	124	134	104	41	100	78
18	79	124	130	124	108	118	92	35	84	66
19	71	111	113	111	95	105	82	30	72	56
20	64	100	99	100	85	94	73	25	61	48
21	58	91	88	91	76	85	66	22	53	41
22	53	83	78	83	68	77	60	19	46	36



Payette Steel Building Components, LLC  
Zee 4" x 2-1/2" - 16 gauge

Stress Controlling (plf)		Zee 4 x 2-1/2 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	226	354	387	354	387	354	322	254	613	480
9	179	280	318	280	318	280	244	179	430	337
10	145	226	258	226	258	226	191	130	314	246
11	120	187	213	187	207	187	153	98	236	185
12	101	157	179	157	165	157	126	75	182	142
13	86	134	152	134	134	134	105	59	143	112
14	74	116	131	116	111	116	89	47	114	90
15	64	101	114	101	94	100	77	39	93	73
16	57	88	100	88	81	87	67	32	77	60
17	50	78	85	78	70	76	59	27	64	50
18	45	70	73	70	61	67	52	22	54	42
19	40	63	64	63	54	59	46	19	46	36
20	36	57	56	57	48	53	41	16	39	31
21	33	51	50	51	43	48	37	14	34	27
22	30	47	44	47	38	43	34	12	29	23

Payette Steel Building Components, LLC  
 Zee 4" x 2-1/2" - 14 gauge

Stress Controlling (plf)		Zee 4 x 2-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	271	423	482	423	482	423	385	300	724	567
9	214	335	381	335	381	335	292	211	508	398
10	173	271	308	271	308	271	228	154	371	290
11	143	224	255	224	248	224	184	116	278	218
12	120	188	214	188	197	188	151	89	214	168
13	103	160	182	160	161	160	126	70	169	132
14	88	138	157	138	133	138	107	56	135	106
15	77	120	137	120	113	120	92	46	110	86
16	68	106	120	106	96	104	80	38	90	71
17	60	94	102	94	83	91	70	31	75	59
18	54	84	88	84	73	80	62	26	64	50
19	48	75	76	75	64	71	55	22	54	42
20	43	68	67	68	57	64	49	19	46	36
21	39	61	59	61	51	57	45	17	40	31
22	36	56	53	56	46	52	40	14	35	27

Payette Steel Building Components, LLC  
Zee 4" x 2-1/2" - 12 gauge

Stress Controlling (plf)		Zee 4 x 2-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	449	702	799	702	799	702	639	459	1105	866
9	355	555	631	555	631	555	483	322	776	608
10	288	449	511	449	511	449	378	235	566	443
11	238	371	423	371	411	371	304	176	425	333
12	200	312	355	312	327	312	250	136	327	256
13	170	266	303	266	266	266	209	107	257	202
14	147	229	261	229	221	229	178	86	206	161
15	128	200	227	200	187	198	153	70	168	131
16	112	176	198	176	160	172	133	57	138	108
17	100	156	169	156	138	150	116	48	115	90
18	89	139	145	139	121	133	103	40	97	76
19	80	124	126	124	107	118	91	34	82	65
20	72	112	111	112	95	105	82	29	71	55
21	65	102	98	102	85	95	74	25	61	48
22	59	93	88	93	76	86	67	22	53	42

Payette Steel Building Components, LLC  
 Zee 4" x 3-1/2" - 16 gauge

Stress Controlling (plf)		Zee 4 x 3-1/2 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	240	375	387	375	387	375	342	303	729	571
9	190	296	337	296	337	296	258	213	512	401
10	154	240	273	240	273	240	202	155	373	293
11	127	198	226	198	220	198	163	116	281	220
12	107	167	190	167	175	167	134	90	216	169
13	91	142	162	142	142	142	112	71	170	133
14	78	123	139	123	118	123	95	56	136	107
15	68	107	121	107	100	106	82	46	111	87
16	60	94	106	94	85	92	71	38	91	71
17	53	83	90	83	74	80	62	32	76	60
18	47	74	78	74	65	71	55	27	64	50
19	43	67	68	67	57	63	49	23	54	43
20	38	60	59	60	51	56	44	19	47	37
21	35	54	53	54	45	51	39	17	40	32
22	32	50	47	50	41	46	36	15	35	27

Payette Steel Building Components, LLC  
Zee 4" x 3-1/2" - 14 gauge

Stress Controlling (plf)		Zee 4 x 3-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	295	461	525	461	525	461	420	360	868	680
9	233	364	414	364	414	364	317	253	609	477
10	189	295	336	295	336	295	248	184	444	348
11	156	244	277	244	270	244	200	139	334	261
12	131	205	233	205	215	205	164	107	257	201
13	112	175	199	175	175	175	137	84	202	158
14	96	151	171	151	145	151	117	67	162	127
15	84	131	149	131	123	130	100	55	132	103
16	74	115	130	115	105	113	87	45	108	85
17	65	102	111	102	91	99	76	38	90	71
18	58	91	95	91	79	87	67	32	76	60
19	52	82	83	82	70	77	60	27	65	51
20	47	74	73	74	62	69	54	23	56	44
21	43	67	65	67	56	62	48	20	48	38
22	39	61	58	61	50	56	44	17	42	33

Payette Steel Building Components, LLC  
Zee 4" x 3-1/2" - 12 gauge

Stress Controlling (plf)		Zee 4 x 3-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	484	756	860	756	860	756	688	551	1328	1041
9	382	597	679	597	679	597	520	387	933	731
10	310	484	550	484	550	484	407	282	680	533
11	256	400	455	400	442	400	328	212	511	400
12	215	336	382	336	352	336	269	163	394	308
13	183	286	326	286	287	286	225	129	310	242
14	158	247	281	247	238	247	191	103	248	194
15	138	215	245	215	201	214	164	84	202	158
16	121	189	214	189	172	185	143	69	166	130
17	107	167	182	167	149	162	125	57	138	108
18	96	149	156	149	130	143	111	48	117	91
19	86	134	136	134	115	127	98	41	99	78
20	77	121	120	121	102	113	88	35	85	67
21	70	110	106	110	91	102	79	30	73	58
22	64	100	94	100	82	92	72	27	64	50

Payette Steel Building Components, LLC  
 Zee 6" x 1-5/8" - 18 gauge

Stress Controlling (plf)		Zee 6 x 1-5/8 18 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	285	445	244	445	244	402	244	434	1045	818
9	225	352	217	352	217	352	217	305	734	575
10	182	285	195	285	195	285	195	222	535	419
11	151	235	177	235	177	235	177	167	402	315
12	127	198	162	198	162	198	158	128	309	242
13	108	168	150	168	150	168	133	101	243	191
14	93	145	139	145	139	145	112	81	195	153
15	81	127	130	127	118	126	97	66	158	124
16	71	111	122	111	101	109	84	54	131	102
17	63	99	107	99	88	95	74	45	109	85
18	56	88	92	88	77	84	65	38	92	72
19	50	79	80	79	67	75	58	32	78	61
20	46	71	70	71	60	67	52	28	67	52
21	41	65	62	65	54	60	47	24	58	45
22	38	59	56	59	48	54	42	21	50	39

Payette Steel Building Components, LLC  
Zee 6" x 1-5/8" - 16 gauge

Stress Controlling (plf)		Zee 6 x 1-5/8 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	360	563	379	563	379	563	379	538	1295	1015
9	285	445	337	445	337	445	337	378	910	713
10	231	360	303	360	303	360	303	275	663	520
11	191	298	276	298	276	298	244	207	498	390
12	160	250	253	250	253	250	200	159	384	301
13	136	213	233	213	213	213	168	125	302	236
14	118	184	209	184	177	184	142	100	242	189
15	102	160	182	160	150	159	122	82	197	154
16	90	141	159	141	128	138	106	67	162	127
17	80	125	135	125	111	120	93	56	135	106
18	71	111	116	111	97	106	82	47	114	89
19	64	100	101	100	85	94	73	40	97	76
20	58	90	89	90	76	84	66	34	83	65
21	52	82	79	82	68	76	59	30	72	56
22	48	74	70	74	61	69	54	26	62	49



Payette Steel Building Components, LLC  
Zee 6" x 1-5/8" - 14 gauge

Stress Controlling (plf)		Zee 6 x 1-5/8 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	422	659	536	659	536	659	536	630	1517	1189
9	333	521	476	521	476	521	454	442	1066	835
10	270	422	429	422	429	422	355	323	777	609
11	223	349	390	349	386	349	286	242	584	457
12	188	293	333	293	307	293	235	187	450	352
13	160	250	284	250	250	250	196	147	354	277
14	138	215	245	215	208	215	167	118	283	222
15	120	188	213	188	175	186	143	96	230	180
16	105	165	186	165	150	161	124	79	190	149
17	93	146	158	146	130	141	109	66	158	124
18	83	130	136	130	113	124	96	55	133	104
19	75	117	119	117	100	111	86	47	113	89
20	68	105	104	105	89	99	77	40	97	76
21	61	96	92	96	79	89	69	35	84	66
22	56	87	82	87	71	81	63	30	73	57

Payette Steel Building Components, LLC  
 Zee 6" x 1-5/8" - 12 gauge

Stress Controlling (plf)		Zee 6 x 1-5/8 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	288	349	384	303	384	268	384	917	2208	1730
9	256	295	341	262	341	235	341	644	1551	1215
10	230	256	307	230	307	209	307	469	1131	886
11	209	226	279	206	279	189	279	353	849	665
12	192	202	256	186	256	172	256	272	654	513
13	177	183	236	169	236	158	236	214	515	403
14	164	167	219	156	219	146	219	171	412	323
15	153	153	205	144	205	135	205	139	335	262
16	144	142	192	134	192	126	181	115	276	216
17	135	132	181	125	181	119	159	96	230	180
18	121	124	171	117	165	112	140	80	194	152
19	109	116	162	111	146	106	125	68	165	129
20	98	110	152	105	129	100	112	59	141	111
21	89	104	134	99	116	95	101	51	122	96
22	81	98	120	94	104	91	91	44	106	83

Payette Steel Building Components, LLC

Zee 6" x 2" - 18 gauge

Stress Controlling (plf)		Zee 6 x 2 18 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	295	461	244	455	244	402	244	473	1140	893
9	233	364	217	364	217	353	217	333	801	627
10	189	295	195	295	195	295	195	242	584	457
11	156	244	177	244	177	244	177	182	439	344
12	131	205	162	205	162	205	162	140	338	265
13	112	175	150	175	150	175	137	110	266	208
14	96	151	139	151	139	151	117	88	213	167
15	84	131	130	131	123	130	100	72	173	136
16	74	115	122	115	105	113	87	59	143	112
17	65	102	111	102	91	99	76	49	119	93
18	58	91	95	91	79	87	67	42	100	78
19	52	82	83	82	70	77	60	35	85	67
20	47	74	73	74	62	69	54	30	73	57
21	43	67	65	67	56	62	48	26	63	49
22	39	61	58	61	50	56	44	23	55	43

Payette Steel Building Components, LLC  
Zee 6" x 2" - 16 gauge

Stress Controlling (plf)		Zee 6 x 2 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	374	584	379	584	379	584	379	586	1412	1106
9	295	462	337	462	337	462	337	412	992	777
10	239	374	303	374	303	374	303	300	723	566
11	198	309	276	309	276	309	253	225	543	425
12	166	260	253	260	253	260	208	174	418	328
13	142	221	233	221	222	221	174	137	329	258
14	122	191	217	191	184	191	148	109	263	206
15	106	166	189	166	155	165	127	89	214	168
16	93	146	165	146	133	143	110	73	176	138
17	83	129	140	129	115	125	97	61	147	115
18	74	115	121	115	101	110	85	51	124	97
19	66	104	105	104	89	98	76	44	105	83
20	60	93	92	93	79	88	68	38	90	71
21	54	85	82	85	70	79	61	32	78	61
22	49	77	73	77	63	71	56	28	68	53

Payette Steel Building Components, LLC

Zee 6" x 2" - 14 gauge

Stress Controlling (plf)		Zee 6 x 2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	467	729	536	729	536	729	536	703	1694	1327
9	369	576	476	576	476	576	476	494	1190	932
10	299	467	429	467	429	467	393	360	867	680
11	247	386	390	386	390	386	316	271	652	511
12	207	324	357	324	339	324	260	208	502	393
13	177	276	314	276	276	276	217	164	395	309
14	152	238	271	238	230	238	184	131	316	248
15	133	207	236	207	194	206	158	107	257	201
16	117	182	206	182	166	178	138	88	212	166
17	103	161	175	161	144	156	121	73	177	138
18	92	144	151	144	125	138	107	62	149	117
19	83	129	131	129	111	122	95	53	126	99
20	75	117	115	117	98	109	85	45	108	85
21	68	106	102	106	88	98	77	39	94	73
22	62	96	91	96	79	89	69	34	81	64

Payette Steel Building Components, LLC  
Zee 6" x 2" - 12 gauge

Stress Controlling (plf)		Zee 6 x 2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	288	349	384	303	384	268	384	1031	2484	1946
9	256	295	341	262	341	235	341	724	1744	1367
10	230	256	307	230	307	209	307	528	1272	996
11	209	226	279	206	279	189	279	397	955	749
12	192	202	256	186	256	172	256	306	736	577
13	177	183	236	169	236	158	236	240	579	453
14	164	167	219	156	219	146	219	192	463	363
15	153	153	205	144	205	135	205	156	377	295
16	144	142	192	134	192	126	192	129	310	243
17	135	132	181	125	181	119	178	107	259	203
18	128	124	171	117	171	112	158	91	218	171
19	121	116	162	111	162	106	140	77	185	145
20	110	110	153	105	145	100	126	66	159	125
21	100	104	146	99	130	95	113	57	137	108
22	91	98	135	94	117	91	103	50	119	94

Payette Steel Building Components, LLC  
Zee 6" x 2-1/2" - 16 gauge

Stress Controlling (plf)		Zee 6 x 2-1/2 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	446	697	379	697	379	697	379	652	1571	1231
9	352	551	337	551	337	551	337	458	1103	864
10	285	446	303	446	303	446	303	334	804	630
11	236	369	276	369	276	369	276	251	604	473
12	198	310	253	310	253	310	248	193	465	365
13	169	264	233	264	233	264	208	152	366	287
14	146	228	217	228	217	228	176	122	293	230
15	127	198	202	198	185	197	151	99	238	187
16	111	174	190	174	159	171	132	82	196	154
17	99	154	167	154	137	149	115	68	164	128
18	88	138	144	138	120	132	102	57	138	108
19	79	124	125	124	106	117	91	49	117	92
20	71	111	110	111	94	105	81	42	101	79
21	65	101	98	101	84	94	73	36	87	68
22	59	92	87	92	76	85	66	31	76	59

Payette Steel Building Components, LLC

Zee 6" x 2-1/2" – 14 gauge

Stress Controlling (plf)		Zee 6 x 2-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	491	767	536	767	536	767	536	769	1853	1452
9	388	606	476	606	476	606	476	540	1302	1020
10	314	491	429	491	429	491	413	394	949	743
11	259	405	390	405	390	405	332	296	713	558
12	218	341	357	341	357	341	273	228	549	430
13	186	290	330	290	291	290	228	179	432	338
14	160	250	285	250	242	250	194	144	346	271
15	140	218	248	218	204	217	167	117	281	220
16	123	192	217	192	174	188	145	96	232	181
17	109	170	184	170	151	164	127	80	193	151
18	97	151	159	151	132	145	112	68	163	127
19	87	136	138	136	116	129	100	57	138	108
20	78	123	121	123	103	115	89	49	119	93
21	71	111	107	111	92	103	81	43	102	80
22	65	101	96	101	83	94	73	37	89	70



Payette Steel Building Components, LLC  
Zee 6" x 2-1/2" - 12 gauge

Stress Controlling (plf)		Zee 6 x 2-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	288	349	384	303	384	268	384	1156	2784	2181
9	256	295	341	262	341	235	341	812	1955	1532
10	230	256	307	230	307	209	307	592	1425	1117
11	209	226	279	206	279	189	279	445	1071	839
12	192	202	256	186	256	172	256	342	825	646
13	177	183	236	169	236	158	236	269	649	508
14	164	167	219	156	219	146	219	216	519	407
15	153	153	205	144	205	135	205	175	422	331
16	144	142	192	134	192	126	192	144	348	273
17	135	132	181	125	181	119	181	120	290	227
18	128	124	171	117	171	112	171	101	244	191
19	121	116	162	111	162	106	158	86	208	163
20	115	110	153	105	153	100	141	74	178	140
21	110	104	146	99	146	95	127	64	154	121
22	103	98	140	94	131	91	115	56	134	105

Payette Steel Building Components, LLC  
Zee 6" x 3-1/2" - 16 gauge

Stress Controlling (plf)		Zee 6 x 3-1/2 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	443	691	379	691	379	691	379	771	1857	1455
9	350	546	337	546	337	546	337	542	1305	1022
10	283	443	303	443	303	443	303	395	951	745
11	234	366	276	366	276	366	276	297	714	560
12	197	307	253	307	253	307	246	228	550	431
13	168	262	233	262	233	262	206	180	433	339
14	145	226	217	226	217	226	175	144	347	272
15	126	197	202	197	184	195	150	117	282	221
16	111	173	190	173	157	169	131	96	232	182
17	98	153	166	153	136	148	114	80	194	152
18	87	137	143	137	119	131	101	68	163	128
19	78	123	124	123	105	116	90	58	139	109
20	71	111	109	111	93	104	81	49	119	93
21	64	100	97	100	83	93	73	43	103	80
22	59	91	86	91	75	84	66	37	89	70

Payette Steel Building Components, LLC  
Zee 6" x 3-1/2" - 14 gauge

Stress Controlling (plf)		Zee 6 x 3-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	532	831	536	831	536	831	536	912	2197	1721
9	420	656	476	656	476	656	476	641	1543	1209
10	340	532	429	532	429	532	429	467	1125	881
11	281	439	390	439	390	439	360	351	845	662
12	236	369	357	369	357	369	296	270	651	510
13	201	315	330	315	315	315	248	213	512	401
14	174	271	306	271	262	271	210	170	410	321
15	151	236	269	236	221	235	181	138	333	261
16	133	208	235	208	189	203	157	114	275	215
17	118	184	200	184	164	178	138	95	229	179
18	105	164	172	164	143	157	122	80	193	151
19	94	147	150	147	126	139	108	68	164	128
20	85	133	131	133	112	125	97	58	141	110
21	77	121	116	121	100	112	87	50	121	95
22	70	110	104	110	90	101	79	44	106	83

Payette Steel Building Components, LLC  
Zee 6" x 3-1/2" - 14 gauge

Stress Controlling (plf)		Zee 6 x 3-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
8	288	349	384	303	384	268	384	1383	3331	2609
9	256	295	341	262	341	235	341	971	2339	1833
10	230	256	307	230	307	209	307	708	1705	1336
11	209	226	279	206	279	189	279	532	1281	1004
12	192	202	256	186	256	172	256	410	987	773
13	177	183	236	169	236	158	236	322	776	608
14	164	167	219	156	219	146	219	258	622	487
15	153	153	205	144	205	135	205	210	505	396
16	144	142	192	134	192	126	192	173	416	326
17	135	132	181	125	181	119	181	144	347	272
18	128	124	171	117	171	112	171	121	292	229
19	121	116	162	111	162	106	162	103	249	195
20	115	110	153	105	153	100	153	88	213	167
21	110	104	146	99	146	95	139	76	184	144
22	105	98	140	94	140	91	126	66	160	125

Payette Steel Building Components, LLC  
Zee 8" x 2-1/2" - 16 gauge

Stress Controlling (plf)		Zee 8 x 2-1/2 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
10	386	524	298	472	298	429	298	656	1579	1237
12	268	414	248	381	248	352	248	379	914	716
14	197	308	213	308	213	299	213	239	575	451
16	151	236	186	236	186	231	178	160	386	302
18	119	186	166	186	162	178	138	112	271	212
20	97	151	149	151	127	142	110	82	197	155
22	80	125	118	125	102	115	90	62	148	116
24	67	105	95	105	84	96	75	47	114	89
26	57	89	79	89	70	81	63	37	90	70
28	49	77	66	77	60	69	54	30	72	56
30	43	67	56	67	51	60	47	24	58	46
32	38	59	49	58	45	52	41	20	48	38
34	33	52	42	50	39	46	36	17	40	31
36	30	47	37	45	35	41	32	14	34	27
38	27	42	33	40	31	36	29	12	29	23

Payette Steel Building Components, LLC  
 Zee 8" x 2-1/2" - 14 gauge

Stress Controlling (plf)		Zee 8 x 2-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
10	463	724	422	724	422	707	422	775	1867	1463
12	322	503	351	503	351	503	351	449	1080	846
14	236	369	301	369	301	369	286	282	680	533
16	181	283	264	283	257	277	213	189	456	357
18	143	223	234	223	195	213	165	133	320	251
20	116	181	179	181	152	170	132	97	233	183
22	96	150	141	150	123	138	108	73	175	137
24	80	126	114	126	101	115	90	56	135	106
26	69	107	95	107	84	97	76	44	106	83
28	59	92	79	92	71	83	65	35	85	67
30	51	80	68	80	61	71	56	29	69	54
32	45	71	58	69	53	62	49	24	57	45
34	40	63	51	61	47	55	43	20	47	37
36	36	56	45	53	41	49	38	17	40	31
38	32	50	40	47	37	43	34	14	34	27

Payette Steel Building Components, LLC  
 Zee 8" x 2-1/2" - 12 gauge

Stress Controlling (plf)		Zee 8 x 2-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
10	234	260	312	234	312	213	312	1169	2815	2205
12	195	205	260	189	260	175	260	676	1629	1276
14	167	170	223	158	223	148	223	426	1026	804
16	146	145	195	136	195	129	195	285	687	538
18	130	126	173	119	173	114	173	200	483	378
20	117	112	156	106	156	102	156	146	352	276
22	106	100	142	96	142	92	142	110	264	207
24	98	91	130	87	130	84	130	85	204	160
26	90	83	120	80	120	78	120	66	160	125
28	84	77	112	74	112	72	105	53	128	100
30	78	71	104	69	99	67	91	43	104	82
32	73	66	94	64	86	63	79	36	86	67
34	65	62	82	60	76	59	70	30	72	56
36	58	58	72	57	67	55	62	25	60	47
38	52	55	64	54	60	53	55	21	51	40

Payette Steel Building Components, LLC  
 Zee 8" x 3-1/2" - 16 gauge

Stress Controlling (plf)		Zee 8 x 3-1/2 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
10	395	524	298	472	298	429	298	752	1811	1419
12	274	414	248	381	248	352	248	435	1048	821
14	202	315	213	315	213	299	213	274	660	517
16	154	241	186	241	186	236	182	184	442	346
18	122	191	166	191	166	182	141	129	310	243
20	99	154	149	154	130	145	113	94	226	177
22	82	128	120	128	105	118	92	71	170	133
24	69	107	98	107	86	98	76	54	131	103
26	58	91	81	91	72	82	65	43	103	81
28	50	79	68	79	61	70	55	34	82	65
30	44	69	58	68	52	61	48	28	67	53
32	39	60	50	59	46	53	42	23	55	43
34	34	53	43	52	40	47	37	19	46	36
36	30	48	38	46	35	42	33	16	39	30
38	27	43	34	40	31	37	29	14	33	26



Payette Steel Building Components, LLC  
 Zee 8" x 3-1/2" - 14 gauge

Stress Controlling (plf)		Zee 8 x 3-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
10	501	782	422	778	422	707	422	906	2183	1710
12	348	543	351	543	351	543	351	525	1264	990
14	255	399	301	399	301	399	301	330	796	623
16	196	306	264	306	264	299	231	221	533	418
18	155	241	234	241	210	231	179	155	374	293
20	125	196	193	196	165	183	143	113	273	214
22	103	162	153	162	132	149	116	85	205	161
24	87	136	124	136	109	124	97	66	158	124
26	74	116	102	116	91	104	82	52	124	97
28	64	100	86	100	77	89	70	41	99	78
30	56	87	73	86	66	77	61	34	81	63
32	49	76	63	75	58	67	53	28	67	52
34	43	68	55	65	51	59	47	23	56	44
36	39	60	48	58	45	53	41	19	47	37
38	35	54	43	51	40	47	37	17	40	31

Payette Steel Building Components, LLC  
 Zee 8" x 3-1/2" - 12 gauge

Stress Controlling (plf)		Zee 8 x 3-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
10	234	260	312	234	312	213	312	1373	3307	2591
12	195	205	260	189	260	175	260	794	1914	1499
14	167	170	223	158	223	148	223	500	1205	944
16	146	145	195	136	195	129	195	335	807	633
18	130	126	173	119	173	114	173	235	567	444
20	117	112	156	106	156	102	156	172	413	324
22	106	100	142	96	142	92	142	129	311	243
24	98	91	130	87	130	84	130	99	239	187
26	90	83	120	80	120	78	120	78	188	147
28	84	77	112	74	112	72	111	63	151	118
30	78	71	104	69	104	67	96	51	122	96
32	73	66	98	64	92	63	84	42	101	79
34	69	62	87	60	80	59	74	35	84	66
36	61	58	77	57	71	55	66	29	71	56
38	55	55	68	54	63	53	59	25	60	47

Payette Steel Building Components, LLC

Zee 8" x 4" - 16 gauge

Stress Controlling (plf)		Zee 8 x 4 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
10	395	524	298	472	298	429	298	795	1916	1501
12	274	414	248	381	248	352	248	460	1109	869
14	202	315	213	315	213	299	213	290	698	547
16	154	241	186	241	186	236	182	194	468	366
18	122	191	166	191	166	182	141	136	329	257
20	99	154	149	154	130	145	113	99	240	188
22	82	128	120	128	105	118	92	75	180	141
24	69	107	98	107	86	98	76	58	139	109
26	58	91	81	91	72	82	65	45	109	85
28	50	79	68	79	61	70	55	36	87	68
30	44	69	58	68	52	61	48	29	71	56
32	39	60	50	59	46	53	42	24	58	46
34	34	53	43	52	40	47	37	20	49	38
36	30	48	38	46	35	42	33	17	41	32
38	27	43	34	40	31	37	29	14	35	27

Payette Steel Building Components, LLC

Zee 8" x 4" - 14 gauge

Stress Controlling (plf)		Zee 8 x 4 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
10	512	799	422	778	422	707	422	966	2328	1824
12	355	555	351	555	351	555	351	559	1347	1055
14	261	408	301	408	301	408	301	352	848	665
16	200	312	264	312	264	306	236	236	568	445
18	158	247	234	247	215	236	183	166	399	313
20	128	200	198	200	168	187	146	121	291	228
22	106	165	156	165	135	153	119	91	219	171
24	89	139	126	139	111	127	99	70	168	132
26	76	118	104	118	93	107	84	55	132	104
28	65	102	88	102	79	91	72	44	106	83
30	57	89	75	88	68	79	62	36	86	68
32	50	78	65	76	59	69	54	29	71	56
34	44	69	56	67	52	61	48	25	59	46
36	39	62	49	59	46	54	42	21	50	39
38	35	55	44	52	41	48	38	18	42	33

Payette Steel Building Components, LLC

Zee 8" x 4" - 12 gauge

Stress Controlling (plf)		Zee 8 x 4 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
10	234	260	312	234	312	213	312	1469	3539	2772
12	195	205	260	189	260	175	260	850	2048	1604
14	167	170	223	158	223	148	223	535	1290	1010
16	146	145	195	136	195	129	195	359	864	677
18	130	126	173	119	173	114	173	252	607	475
20	117	112	156	106	156	102	156	184	442	347
22	106	100	142	96	142	92	142	138	332	260
24	98	91	130	87	130	84	130	106	256	201
26	90	83	120	80	120	78	120	84	201	158
28	84	77	112	74	112	72	112	67	161	126
30	78	71	104	69	104	67	99	54	131	103
32	73	66	98	64	95	63	87	45	108	85
34	69	62	90	60	83	59	77	37	90	71
36	63	58	79	57	73	55	68	31	76	59
38	57	55	70	54	65	53	61	27	64	51

Payette Steel Building Components, LLC  
 Zee 10" x 2-1/2" - 16 gauge

Stress Controlling (plf)		Zee 10 x 2-1/2 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	310	326	244	300	244	278	244	624	1503	1178
14	244	270	209	251	209	235	209	393	947	742
16	187	230	183	216	183	204	183	263	634	497
18	148	200	163	190	163	181	163	185	445	349
20	120	177	147	169	147	162	136	135	325	254
22	99	155	133	152	127	143	111	101	244	191
24	83	130	118	130	104	118	93	78	188	147
26	71	111	98	111	87	100	78	61	148	116
28	61	95	82	95	74	85	67	49	118	93
30	53	83	70	83	63	74	58	40	96	75
32	47	73	60	71	55	64	51	33	79	62
34	41	65	53	63	48	57	45	27	66	52
36	37	58	46	55	43	50	40	23	56	44
38	33	52	41	49	38	45	35	20	47	37
40	30	47	37	44	34	40	32	17	41	32

Payette Steel Building Components, LLC

Zee 10" x 2-1/2" - 14 gauge

Stress Controlling (plf)		Zee 10 x 2-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	425	539	346	495	346	458	346	755	1820	1425
14	313	445	297	415	297	389	297	476	1146	898
16	239	374	260	357	260	337	260	319	768	601
18	189	295	231	295	231	282	219	224	539	422
20	153	239	208	239	202	224	175	163	393	308
22	127	198	187	198	162	183	142	123	295	231
24	106	166	151	166	133	152	118	94	227	178
26	91	142	125	142	111	128	100	74	179	140
28	78	122	105	122	95	109	86	59	143	112
30	68	106	90	106	81	94	74	48	116	91
32	60	93	77	91	71	82	65	40	96	75
34	53	83	67	80	62	73	57	33	80	63
36	47	74	59	71	55	64	51	28	67	53
38	42	66	52	63	49	58	45	24	57	45
40	38	60	47	56	44	52	41	20	49	38

Payette Steel Building Components, LLC  
 Zee 10" x 2-1/2" – 12 gauge

Stress Controlling (plf)		Zee 10 x 2-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	172	181	230	167	230	154	230	1155	2782	2179
14	148	150	197	140	197	131	197	727	1752	1372
16	129	128	172	120	172	114	172	487	1174	919
18	115	111	153	105	153	100	153	342	824	646
20	103	98	138	94	138	90	138	249	601	471
22	94	88	125	85	125	81	125	187	451	354
24	86	80	115	77	115	74	115	144	348	272
26	79	73	106	71	106	68	106	114	273	214
28	74	68	98	65	98	63	98	91	219	172
30	69	63	92	61	92	59	92	74	178	139
32	65	58	86	57	86	55	86	61	147	115
34	61	55	81	53	81	52	81	51	122	96
36	57	51	77	50	77	49	77	43	103	81
38	54	48	72	47	72	46	72	36	88	69
40	52	46	69	45	69	44	67	31	75	59



Payette Steel Building Components, LLC

Zee 10" x 3-1/2" - 16 gauge

Stress Controlling (plf)		Zee 10 x 3-1/2 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	310	326	244	300	244	278	244	711	1712	1341
14	252	270	209	251	209	235	209	448	1078	845
16	193	230	183	216	183	204	183	300	722	566
18	152	200	163	190	163	181	163	211	507	397
20	124	177	147	169	147	162	141	154	370	290
22	102	159	133	152	131	146	115	115	278	218
24	86	134	122	134	107	122	96	89	214	168
26	73	114	101	114	90	103	81	70	168	132
28	63	98	85	98	76	88	69	56	135	106
30	55	86	72	85	66	76	60	45	110	86
32	48	75	62	74	57	66	52	37	90	71
34	43	67	54	65	50	59	46	31	75	59
36	38	60	48	57	44	52	41	26	63	50
38	34	53	42	51	39	46	37	22	54	42
40	31	48	38	45	35	42	33	19	46	36

Payette Steel Building Components, LLC  
 Zee 10" x 3-1/2" - 14 gauge

Stress Controlling (plf)		Zee 10 x 3-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	439	539	346	495	346	458	346	861	2074	1625
14	323	445	297	415	297	389	297	542	1306	1023
16	247	379	260	357	260	337	260	363	875	685
18	195	305	231	305	231	291	226	255	614	481
20	158	247	208	247	208	232	180	186	448	351
22	131	204	189	204	167	189	147	140	337	264
24	110	172	156	172	137	156	122	108	259	203
26	94	146	129	146	115	132	103	85	204	160
28	81	126	108	126	98	113	88	68	163	128
30	70	110	92	109	84	97	77	55	133	104
32	62	96	80	94	73	85	67	45	109	86
34	55	85	69	83	64	75	59	38	91	71
36	49	76	61	73	56	66	52	32	77	60
38	44	68	54	65	50	59	47	27	65	51
40	40	62	48	58	45	53	42	23	56	44

Payette Steel Building Components, LLC

Zee 10" x 3-1/2" - 12 gauge

Stress Controlling (plf)		Zee 10 x 3-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	172	181	230	167	230	154	230	1339	3224	2526
14	148	150	197	140	197	131	197	843	2031	1591
16	129	128	172	120	172	114	172	565	1360	1066
18	115	111	153	105	153	100	153	397	955	748
20	103	98	138	94	138	90	138	289	696	546
22	94	88	125	85	125	81	125	217	523	410
24	86	80	115	77	115	74	115	167	403	316
26	79	73	106	71	106	68	106	132	317	248
28	74	68	98	65	98	63	98	105	254	199
30	69	63	92	61	92	59	92	86	206	162
32	65	58	86	57	86	55	86	71	170	133
34	61	55	81	53	81	52	81	59	142	111
36	57	51	77	50	77	49	77	50	119	94
38	54	48	72	47	72	46	72	42	102	80
40	52	46	69	45	69	44	69	36	87	68

Payette Steel Building Components, LLC  
 Zee 10" x 4" - 16 gauge

Stress Controlling (plf)		Zee 10 x 4 16 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	310	326	244	300	244	278	244	750	1807	1415
14	252	270	209	251	209	235	209	472	1138	891
16	193	230	183	216	183	204	183	316	762	597
18	152	200	163	190	163	181	163	222	535	419
20	124	177	147	169	147	162	141	162	390	306
22	102	159	133	152	131	146	115	122	293	230
24	86	134	122	134	107	122	96	94	226	177
26	73	114	101	114	90	103	81	74	178	139
28	63	98	85	98	76	88	69	59	142	111
30	55	86	72	85	66	76	60	48	116	91
32	48	75	62	74	57	66	52	40	95	75
34	43	67	54	65	50	59	46	33	79	62
36	38	60	48	57	44	52	41	28	67	52
38	34	53	42	51	39	46	37	24	57	45
40	31	48	38	45	35	42	33	20	49	38

Payette Steel Building Components, LLC

Zee 10" x 4" - 14 gauge

Stress Controlling (plf)		Zee 10 x 4 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	442	539	346	495	346	458	346	910	2192	1717
14	325	445	297	415	297	389	297	573	1380	1081
16	249	379	260	357	260	337	260	384	925	724
18	197	307	231	307	231	293	227	270	649	509
20	159	249	208	249	208	233	181	197	473	371
22	132	206	189	206	168	190	148	148	356	279
24	111	173	157	173	138	158	123	114	274	215
26	94	147	130	147	116	133	104	89	215	169
28	81	127	109	127	98	113	89	72	173	135
30	71	111	93	110	84	98	77	58	140	110
32	62	97	80	95	73	86	67	48	116	91
34	55	86	70	83	64	75	59	40	96	75
36	49	77	62	73	57	67	53	34	81	64
38	44	69	55	65	51	60	47	29	69	54
40	40	62	49	58	45	54	42	25	59	46

Payette Steel Building Components, LLC

Zee 10" x 4" - 12 gauge

Stress Controlling (plf)		Zee 10 x 4 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	172	181	230	167	230	154	230	1427	3436	2692
14	148	150	197	140	197	131	197	898	2164	1695
16	129	128	172	120	172	114	172	602	1450	1136
18	115	111	153	105	153	100	153	423	1018	798
20	103	98	138	94	138	90	138	308	742	581
22	94	88	125	85	125	81	125	232	558	437
24	86	80	115	77	115	74	115	178	430	337
26	79	73	106	71	106	68	106	140	338	265
28	74	68	98	65	98	63	98	112	271	212
30	69	63	92	61	92	59	92	91	220	172
32	65	58	86	57	86	55	86	75	181	142
34	61	55	81	53	81	52	81	63	151	118
36	57	51	77	50	77	49	77	53	127	100
38	54	48	72	47	72	46	72	45	108	85
40	52	46	69	45	69	44	69	39	93	73

Payette Steel Building Components, LLC

Zee 12" x 2-1/2" - 14 gauge

Stress Controlling (plf)		Zee 12 x 2-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	422	444	342	408	342	378	342	1116	2687	2105
14	347	367	293	342	293	320	293	702	1692	1326
16	266	312	256	294	256	278	256	471	1134	888
18	210	272	228	258	228	246	228	331	796	624
20	170	241	205	230	205	220	194	241	580	455
22	141	216	186	207	180	199	158	181	436	342
24	118	185	168	185	148	168	132	139	336	263
26	101	157	139	157	124	142	111	110	264	207
28	87	136	117	136	105	121	95	88	212	166
30	76	118	100	117	90	105	82	71	172	135
32	66	104	86	102	78	92	72	59	142	111
34	59	92	75	89	69	81	63	49	118	93
36	53	82	66	78	61	72	56	41	100	78
38	47	74	58	70	54	64	50	35	85	66
40	43	66	52	62	48	57	45	30	73	57

Payette Steel Building Components, LLC

Zee 12" x 2-1/2" - 12 gauge

Stress Controlling (plf)		Zee 12 x 2-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	836	1306	782	1306	782	1272	782	1755	4227	3312
14	614	959	670	959	670	959	670	1105	2662	2085
16	470	734	586	734	586	719	554	740	1783	1397
18	371	580	521	580	506	554	430	520	1253	981
20	301	470	465	470	396	441	343	379	913	715
22	249	388	367	388	318	359	280	285	686	537
24	209	326	297	326	262	298	233	219	528	414
26	178	278	246	278	219	251	197	173	416	326
28	153	240	206	240	186	214	168	138	333	261
30	134	209	176	207	160	185	146	112	271	212
32	117	184	152	180	139	162	127	93	223	175
34	104	163	132	157	122	143	112	77	186	146
36	93	145	116	139	107	126	100	65	157	123
38	83	130	103	123	96	113	89	55	133	104
40	75	117	92	110	86	102	80	47	114	89



Payette Steel Building Components, LLC

Zee 12" x 3-1/2" - 14 gauge

Stress Controlling (plf)		Zee 12 x 3-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	422	444	342	408	342	378	342	1289	3105	2433
14	361	367	293	342	293	320	293	812	1956	1532
16	294	312	256	294	256	278	256	544	1310	1026
18	232	272	228	258	228	246	228	382	920	721
20	188	241	205	230	205	220	205	278	671	525
22	156	216	186	207	186	199	175	209	504	395
24	131	196	171	189	164	182	146	161	388	304
26	111	174	154	173	137	157	123	127	305	239
28	96	150	129	150	116	134	105	101	244	192
30	84	131	110	130	100	116	91	83	199	156
32	74	115	95	112	87	101	80	68	164	128
34	65	102	83	98	76	89	70	57	137	107
36	58	91	73	87	67	79	62	48	115	90
38	52	81	64	77	60	71	56	41	98	77
40	47	74	58	69	54	64	50	35	84	66

Payette Steel Building Components, LLC

Zee 12" x 3-1/2" - 12 gauge

Stress Controlling (plf)		Zee 12 x 3-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	967	1495	782	1374	782	1272	782	2063	4968	3892
14	710	1110	670	1110	670	1078	670	1299	3129	2451
16	544	850	586	850	586	832	586	870	2096	1642
18	430	671	521	671	521	641	497	611	1472	1153
20	348	544	469	544	458	510	397	446	1073	841
22	288	449	424	449	368	415	324	335	806	632
24	242	378	344	378	303	344	269	258	621	487
26	206	322	284	322	253	290	227	203	488	383
28	178	277	239	277	215	248	195	162	391	306
30	155	242	204	240	185	214	169	132	318	249
32	136	212	176	208	160	187	147	109	262	205
34	120	188	153	182	141	165	130	91	218	171
36	107	168	134	160	124	146	115	76	184	144
38	96	151	119	143	111	131	103	65	156	123
40	87	136	106	127	99	117	93	56	134	105

Payette Steel Building Components, LLC

Zee 12" x 4" - 14 gauge

Stress Controlling (plf)		Zee 12 x 4 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	422	444	342	408	342	378	342	1359	3274	2565
14	361	367	293	342	293	320	293	856	2062	1615
16	298	312	256	294	256	278	256	573	1381	1082
18	235	272	228	258	228	246	228	403	970	760
20	190	241	205	230	205	220	205	294	707	554
22	157	216	186	207	186	199	177	221	531	416
24	132	196	171	189	166	182	147	170	409	321
26	113	176	155	173	139	159	124	134	322	252
28	97	152	131	152	118	136	107	107	258	202
30	85	132	111	131	101	117	92	87	210	164
32	74	116	96	114	88	102	81	72	173	135
34	66	103	84	100	77	90	71	60	144	113
36	59	92	74	88	68	80	63	50	121	95
38	53	82	65	78	61	72	56	43	103	81
40	48	74	58	70	54	64	51	37	88	69

Payette Steel Building Components, LLC

Zee 12" x 4" - 12 gauge

Stress Controlling (plf)		Zee 12 x 4 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	996	1495	782	1374	782	1272	782	2191	5277	4134
14	731	1143	670	1143	670	1078	670	1379	3323	2603
16	560	875	586	875	586	856	586	924	2226	1744
18	443	691	521	691	521	661	512	649	1563	1225
20	358	560	469	560	469	525	408	473	1140	893
22	296	463	426	463	379	427	333	355	856	671
24	249	389	354	389	312	355	277	274	660	517
26	212	331	293	331	261	299	234	215	519	406
28	183	286	246	286	221	256	201	172	415	325
30	159	249	210	247	190	221	174	140	338	265
32	140	219	181	214	165	193	152	116	278	218
34	124	194	158	187	145	170	134	96	232	182
36	111	173	139	165	128	151	119	81	195	153
38	99	155	123	147	114	135	106	69	166	130
40	90	140	110	131	102	121	96	59	142	112

Payette Steel Building Components, LLC

Zee 14" x 2-1/2" - 14 gauge

Stress Controlling (plf)		Zee 14 x 2-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	360	379	337	348	337	322	337	1593	3837	3006
14	309	313	289	292	289	273	289	1003	2417	1893
16	270	267	253	251	253	237	253	672	1619	1268
18	240	232	225	220	225	210	225	472	1137	891
20	200	206	202	196	202	188	202	344	829	649
22	166	185	184	177	184	170	184	259	623	488
24	139	167	169	161	169	155	155	199	480	376
26	119	153	156	148	146	143	131	157	377	296
28	102	141	137	137	124	133	112	125	302	237
30	89	131	117	127	106	123	97	102	246	192
32	78	122	101	119	92	108	85	84	202	159
34	69	108	88	105	81	95	75	70	169	132
36	62	97	77	92	72	84	66	59	142	111
38	55	87	69	82	64	75	59	50	121	95
40	50	78	61	73	57	68	53	43	104	81

Payette Steel Building Components, LLC

Zee 14" x 2-1/2" - 12 gauge

Stress Controlling (plf)		Zee 14 x 2-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	999	1272	774	1169	774	1082	774	2523	6078	4762
14	734	1051	664	980	664	918	664	1589	3828	2999
16	562	878	581	843	581	797	581	1064	2564	2009
18	444	694	516	694	516	663	514	748	1801	1411
20	360	562	464	562	464	527	410	545	1313	1028
22	297	464	422	464	380	429	334	409	986	773
24	250	390	355	390	313	356	278	315	760	595
26	213	332	293	332	261	300	235	248	598	468
28	183	287	247	287	222	256	201	199	478	375
30	160	250	210	248	191	222	174	161	389	305
32	140	219	181	215	166	193	152	133	321	251
34	124	194	158	188	145	170	134	111	267	209
36	111	173	139	166	128	151	119	93	225	176
38	100	156	123	147	114	135	107	79	191	150
40	90	140	110	132	102	121	96	68	164	129

Payette Steel Building Components, LLC

Zee 14" x 3-1/2" - 14 gauge

Stress Controlling (plf)		Zee 14 x 3-1/2 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	360	379	337	348	337	322	337	1819	4382	3433
14	309	313	289	292	289	273	289	1146	2760	2162
16	270	267	253	251	253	237	253	767	1849	1448
18	240	232	225	220	225	210	225	539	1298	1017
20	216	206	202	196	202	188	202	393	947	741
22	181	185	184	177	184	170	184	295	711	557
24	152	167	169	161	169	155	169	227	548	429
26	130	153	156	148	156	143	143	179	431	338
28	112	141	145	137	135	133	123	143	345	270
30	97	131	128	127	116	123	106	116	280	220
32	86	122	110	119	101	116	93	96	231	181
34	76	114	96	111	88	104	82	80	193	151
36	68	106	85	101	78	92	73	67	162	127
38	61	95	75	90	70	82	65	57	138	108
40	55	86	67	80	62	74	58	49	118	93

Payette Steel Building Components, LLC

Zee 14" x 3-1/2" - 12 gauge

Stress Controlling (plf)		Zee 14 x 3-1/2 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	1174	1272	774	1169	774	1082	774	2959	7127	5583
14	863	1051	664	980	664	918	664	1863	4488	3516
16	660	895	581	843	581	797	581	1248	3007	2355
18	522	780	516	740	516	704	516	877	2112	1654
20	423	660	464	659	464	619	464	639	1539	1206
22	349	546	422	546	422	504	393	480	1157	906
24	294	459	387	459	368	418	327	370	891	698
26	250	391	345	391	307	353	276	291	701	549
28	216	337	290	337	261	301	236	233	561	439
30	188	294	247	291	224	260	205	189	456	357
32	165	258	213	252	195	227	179	156	376	294
34	146	229	186	221	171	200	158	130	313	245
36	130	204	163	195	151	178	140	110	264	207
38	117	183	145	173	134	159	125	93	224	176
40	106	165	129	155	120	143	113	80	192	151



Payette Steel Building Components, LLC

Zee 14" x 4" - 14 gauge

Stress Controlling (plf)		Zee 14 x 4 14 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	360	379	337	348	337	322	337	1914	4610	3612
14	309	313	289	292	289	273	289	1205	2903	2274
16	270	267	253	251	253	237	253	807	1945	1524
18	240	232	225	220	225	210	225	567	1366	1070
20	216	206	202	196	202	188	202	413	996	780
22	183	185	184	177	184	170	184	311	748	586
24	154	167	169	161	169	155	169	239	576	451
26	131	153	156	148	156	143	145	188	453	355
28	113	141	145	137	137	133	124	151	363	284
30	99	131	130	127	118	123	107	122	295	231
32	87	122	112	119	102	116	94	101	243	190
34	77	114	97	111	90	105	83	84	203	159
36	68	107	86	102	79	93	73	71	171	134
38	61	96	76	91	71	83	66	60	145	114
40	55	87	68	81	63	75	59	52	124	98

Payette Steel Building Components, LLC

Zee 14" x 4" - 12 gauge

Stress Controlling (plf)		Zee 14 x 4 12 gauge						Deflection Controlling (L/180) (plf)		
		Lap = 3 foot		Lap = 2 foot		Lap = 1 foot				
Span (Ft)	1 span	3 span	2 span	3 span	2 span	3 span	2 span	1 span	2 span	3 span
12	1185	1272	774	1169	774	1082	774	3111	7493	5870
14	870	1051	664	980	664	918	664	1959	4719	3697
16	666	895	581	843	581	797	581	1312	3161	2476
18	527	780	516	740	516	704	516	922	2220	1739
20	426	666	464	659	464	625	464	672	1619	1268
22	352	551	422	551	422	509	397	505	1216	953
24	296	463	387	463	371	422	330	389	937	734
26	252	394	348	394	310	356	279	306	737	577
28	218	340	293	340	263	304	239	245	590	462
30	190	296	249	294	226	263	207	199	480	376
32	167	260	215	255	197	229	181	164	395	310
34	148	231	187	223	172	202	159	137	329	258
36	132	206	165	197	152	179	141	115	278	217
38	118	185	146	175	136	160	126	98	236	185
40	107	167	130	156	122	144	114	84	202	158