

Table 4-14
Available Nominal Stress for
Compression Members

L_c r	$F_y = 35$ ksi		$F_y = 36$ ksi		$F_y = 46$ ksi		$F_y = 50$ ksi		$F_y = 65$ ksi		$F_y = 70$ ksi	
	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$
	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi
	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD
1	21.0	31.5	21.6	32.4	27.5	41.4	29.9	45.0	38.9	58.5	41.9	63.0
2	21.0	31.5	21.6	32.4	27.5	41.4	29.9	45.0	38.9	58.5	41.9	63.0
3	20.9	31.5	21.5	32.4	27.5	41.4	29.9	45.0	38.9	58.4	41.9	62.9
4	20.9	31.5	21.5	32.4	27.5	41.4	29.9	44.9	38.9	58.4	41.8	62.9
5	20.9	31.5	21.5	32.4	27.5	41.3	29.9	44.9	38.8	58.4	41.8	62.8
6	20.9	31.4	21.5	32.3	27.5	41.3	29.9	44.9	38.8	58.3	41.8	62.8
7	20.9	31.4	21.5	32.3	27.5	41.3	29.8	44.8	38.7	58.2	41.7	62.7
8	20.9	31.4	21.5	32.3	27.4	41.2	29.8	44.8	38.7	58.1	41.6	62.6
9	20.9	31.4	21.5	32.3	27.4	41.2	29.8	44.7	38.6	58.1	41.6	62.5
10	20.9	31.3	21.4	32.2	27.4	41.1	29.7	44.7	38.6	57.9	41.5	62.4
11	20.8	31.3	21.4	32.2	27.3	41.1	29.7	44.6	38.5	57.8	41.4	62.2
12	20.8	31.3	21.4	32.2	27.3	41.0	29.6	44.5	38.4	57.7	41.3	62.1
13	20.8	31.2	21.4	32.1	27.2	40.9	29.6	44.4	38.3	57.6	41.2	61.9
14	20.7	31.2	21.3	32.1	27.2	40.9	29.5	44.4	38.2	57.4	41.1	61.7
15	20.7	31.1	21.3	32.0	27.1	40.8	29.5	44.3	38.1	57.3	41.0	61.6
16	20.7	31.1	21.3	32.0	27.1	40.7	29.4	44.2	38.0	57.1	40.8	61.4
17	20.7	31.0	21.2	31.9	27.0	40.6	29.3	44.1	37.9	56.9	40.7	61.2
18	20.6	31.0	21.2	31.9	27.0	40.5	29.2	43.9	37.7	56.7	40.5	60.9
19	20.6	30.9	21.2	31.8	26.9	40.4	29.2	43.8	37.6	56.5	40.4	60.7
20	20.5	30.9	21.1	31.7	26.8	40.3	29.1	43.7	37.5	56.3	40.2	60.5
21	20.5	30.8	21.1	31.7	26.7	40.2	29.0	43.6	37.3	56.1	40.1	60.2
22	20.4	30.7	21.0	31.6	26.7	40.1	28.9	43.4	37.2	55.9	39.9	60.0
23	20.4	30.7	21.0	31.5	26.6	40.0	28.8	43.3	37.0	55.6	39.7	59.7
24	20.3	30.6	20.9	31.4	26.5	39.8	28.7	43.1	36.8	55.4	39.5	59.4
25	20.3	30.5	20.9	31.4	26.4	39.7	28.6	43.0	36.7	55.1	39.3	59.1
26	20.2	30.4	20.8	31.3	26.3	39.6	28.5	42.8	36.5	54.9	39.1	58.8
27	20.2	30.3	20.7	31.2	26.2	39.4	28.4	42.7	36.3	54.6	38.9	58.5
28	20.1	30.3	20.7	31.1	26.1	39.3	28.3	42.5	36.1	54.3	38.7	58.1
29	20.1	30.2	20.6	31.0	26.0	39.1	28.2	42.3	35.9	54.0	38.5	57.8
30	20.0	30.1	20.6	30.9	25.9	39.0	28.0	42.1	35.7	53.7	38.2	57.5
31	20.0	30.0	20.5	30.8	25.8	38.8	27.9	41.9	35.5	53.4	38.0	57.1
32	19.9	29.9	20.4	30.7	25.7	38.6	27.8	41.8	35.3	53.1	37.7	56.7
33	19.8	29.8	20.4	30.6	25.6	38.5	27.7	41.6	35.1	52.7	37.5	56.4
34	19.8	29.7	20.3	30.5	25.5	38.3	27.5	41.4	34.9	52.4	37.2	56.0
35	19.7	29.6	20.2	30.4	25.4	38.1	27.4	41.2	34.6	52.1	37.0	55.6
36	19.6	29.5	20.1	30.3	25.2	37.9	27.2	40.9	34.4	51.7	36.7	55.2
37	19.5	29.4	20.1	30.1	25.1	37.8	27.1	40.7	34.2	51.4	36.4	54.8
38	19.5	29.3	20.0	30.0	25.0	37.6	26.9	40.5	33.9	51.0	36.2	54.3
39	19.4	29.1	19.9	29.9	24.9	37.4	26.8	40.3	33.7	50.6	35.9	53.9
40	19.3	29.0	19.8	29.8	24.7	37.2	26.6	40.0	33.4	50.2	35.6	53.5
ASD		LRFD										
$\Omega_c = 1.67$		$\phi_c = 0.90$										

Table 4-14 (continued)
Available Nominal Stress for
Compression Members

L_c r	$F_y = 35$ ksi		$F_y = 36$ ksi		$F_y = 46$ ksi		$F_y = 50$ ksi		$F_y = 65$ ksi		$F_y = 70$ ksi	
	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$
	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi
	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD
41	19.2	28.9	19.7	29.7	24.6	37.0	26.5	39.8	33.2	49.9	35.3	53.0
42	19.2	28.8	19.6	29.5	24.5	36.8	26.3	39.5	32.9	49.5	35.0	52.6
43	19.1	28.7	19.6	29.4	24.3	36.6	26.2	39.3	32.6	49.1	34.7	52.1
44	19.0	28.5	19.5	29.3	24.2	36.3	26.0	39.1	32.4	48.7	34.4	51.7
45	18.9	28.4	19.4	29.1	24.0	36.1	25.8	38.8	32.1	48.3	34.1	51.2
46	18.8	28.3	19.3	29.0	23.9	35.9	25.6	38.5	31.8	47.8	33.8	50.7
47	18.7	28.1	19.2	28.9	23.8	35.7	25.5	38.3	31.6	47.4	33.4	50.3
48	18.6	28.0	19.1	28.7	23.6	35.4	25.3	38.0	31.3	47.0	33.1	49.8
49	18.5	27.9	19.0	28.5	23.4	35.2	25.1	37.7	31.0	46.6	32.8	49.3
50	18.4	27.7	18.9	28.4	23.3	35.0	24.9	37.5	30.7	46.1	32.5	48.8
51	18.3	27.6	18.8	28.3	23.1	34.8	24.8	37.2	30.4	45.7	32.1	48.3
52	18.3	27.4	18.7	28.1	23.0	34.5	24.6	36.9	30.1	45.2	31.8	47.8
53	18.2	27.3	18.6	28.0	22.8	34.3	24.4	36.7	29.8	44.8	31.4	47.3
54	18.1	27.1	18.5	27.8	22.6	34.0	24.2	36.4	29.5	44.3	31.1	46.7
55	18.0	27.0	18.4	27.6	22.5	33.8	24.0	36.1	29.2	43.9	30.8	46.2
56	17.9	26.8	18.3	27.5	22.3	33.5	23.8	35.8	28.9	43.4	30.4	45.7
57	17.7	26.7	18.2	27.3	22.1	33.3	23.6	35.5	28.6	43.0	30.1	45.2
58	17.6	26.5	18.1	27.1	22.0	33.0	23.4	35.2	28.3	42.5	29.7	44.6
59	17.5	26.4	17.9	27.0	21.8	32.8	23.2	34.9	28.0	42.0	29.4	44.1
60	17.4	26.2	17.8	26.8	21.6	32.5	23.0	34.6	27.6	41.5	29.0	43.6
61	17.3	26.0	17.7	26.6	21.4	32.2	22.8	34.3	27.3	41.1	28.6	43.0
62	17.2	25.9	17.6	26.5	21.3	32.0	22.6	34.0	27.0	40.6	28.3	42.5
63	17.1	25.7	17.5	26.3	21.1	31.7	22.4	33.7	26.7	40.1	27.9	42.0
64	17.0	25.5	17.4	26.1	20.9	31.4	22.2	33.4	26.4	39.6	27.6	41.4
65	16.9	25.4	17.3	25.9	20.7	31.2	22.0	33.0	26.0	39.2	27.2	40.9
66	16.8	25.2	17.1	25.8	20.5	30.9	21.8	32.7	25.7	38.7	26.8	40.3
67	16.7	25.0	17.0	25.6	20.4	30.6	21.6	32.4	25.4	38.2	26.5	39.8
68	16.5	24.9	16.9	25.4	20.2	30.3	21.4	32.1	25.1	37.7	26.1	39.2
69	16.4	24.7	16.8	25.2	20.0	30.1	21.1	31.8	24.8	37.2	25.7	38.7
70	16.3	24.5	16.7	25.0	19.8	29.8	20.9	31.4	24.4	36.7	25.4	38.2
71	16.2	24.3	16.5	24.8	19.6	29.5	20.7	31.1	24.1	36.2	25.0	37.6
72	16.1	24.2	16.4	24.7	19.4	29.2	20.5	30.8	23.8	35.7	24.7	37.1
73	16.0	24.0	16.3	24.5	19.2	28.9	20.3	30.5	23.5	35.3	24.3	36.5
74	15.8	23.8	16.2	24.3	19.1	28.6	20.1	30.2	23.1	34.8	23.9	36.0
75	15.7	23.6	16.0	24.1	18.9	28.4	19.8	29.8	22.8	34.3	23.6	35.4
76	15.6	23.4	15.9	23.9	18.7	28.1	19.6	29.5	22.5	33.8	23.2	34.9
77	15.5	23.3	15.8	23.7	18.5	27.8	19.4	29.2	22.2	33.3	22.8	34.3
78	15.4	23.1	15.6	23.5	18.3	27.5	19.2	28.8	21.8	32.8	22.5	33.8
79	15.2	22.9	15.5	23.3	18.1	27.2	19.0	28.5	21.5	32.3	22.1	33.3
80	15.1	22.7	15.4	23.1	17.9	26.9	18.8	28.2	21.2	31.8	21.8	32.7
ASD		LRFD										
$\Omega_c = 1.67$		$\phi_c = 0.90$										

Table 4-14 (continued)
Available Nominal Stress for
Compression Members

L_c r	$F_y = 35$ ksi		$F_y = 36$ ksi		$F_y = 46$ ksi		$F_y = 50$ ksi		$F_y = 65$ ksi		$F_y = 70$ ksi	
	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$
	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi
	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD
81	15.0	22.5	15.3	22.9	17.7	26.6	18.5	27.9	20.9	31.4	21.4	32.2
82	14.9	22.3	15.1	22.7	17.5	26.3	18.3	27.5	20.5	30.9	21.1	31.7
83	14.7	22.1	15.0	22.5	17.3	26.0	18.1	27.2	20.2	30.4	20.7	31.1
84	14.6	22.0	14.9	22.3	17.1	25.8	17.9	26.9	19.9	29.9	20.4	30.6
85	14.5	21.8	14.7	22.1	16.9	25.5	17.7	26.5	19.6	29.4	20.0	30.1
86	14.4	21.6	14.6	22.0	16.7	25.2	17.4	26.2	19.3	29.0	19.7	29.5
87	14.2	21.4	14.5	21.8	16.6	24.9	17.2	25.9	19.0	28.5	19.3	29.0
88	14.1	21.2	14.3	21.6	16.4	24.6	17.0	25.5	18.6	28.0	19.0	28.5
89	14.0	21.0	14.2	21.4	16.2	24.3	16.8	25.2	18.3	27.6	18.6	28.0
90	13.8	20.8	14.1	21.2	16.0	24.0	16.6	24.9	18.0	27.1	18.3	27.5
91	13.7	20.6	13.9	21.0	15.8	23.7	16.3	24.6	17.7	26.6	18.0	27.0
92	13.6	20.4	13.8	20.8	15.6	23.4	16.1	24.2	17.4	26.2	17.6	26.5
93	13.5	20.2	13.7	20.5	15.4	23.1	15.9	23.9	17.1	25.7	17.3	26.0
94	13.3	20.0	13.5	20.3	15.2	22.8	15.7	23.6	16.8	25.3	17.0	25.5
95	13.2	19.9	13.4	20.1	15.0	22.6	15.5	23.3	16.5	24.8	16.6	25.0
96	13.1	19.7	13.3	19.9	14.8	22.3	15.3	22.9	16.2	24.4	16.3	24.5
97	13.0	19.5	13.1	19.7	14.6	22.0	15.0	22.6	15.9	23.9	16.0	24.0
98	12.8	19.3	13.0	19.5	14.4	21.7	14.8	22.3	15.6	23.5	15.7	23.5
99	12.7	19.1	12.9	19.3	14.2	21.4	14.6	22.0	15.3	23.0	15.3	23.0
100	12.6	18.9	12.7	19.1	14.1	21.1	14.4	21.7	15.0	22.6	15.0	22.6
101	12.4	18.7	12.6	18.9	13.9	20.8	14.2	21.3	14.7	22.1	14.7	22.1
102	12.3	18.5	12.5	18.7	13.7	20.6	14.0	21.0	14.4	21.7	14.4	21.7
103	12.2	18.3	12.3	18.5	13.5	20.3	13.8	20.7	14.2	21.3	14.2	21.3
104	12.1	18.1	12.2	18.3	13.3	20.0	13.6	20.4	13.9	20.9	13.9	20.9
105	11.9	17.9	12.1	18.1	13.1	19.7	13.4	20.1	13.6	20.5	13.6	20.5
106	11.8	17.7	11.9	17.9	12.9	19.4	13.2	19.8	13.4	20.1	13.4	20.1
107	11.7	17.5	11.8	17.7	12.8	19.2	13.0	19.5	13.1	19.7	13.1	19.7
108	11.5	17.3	11.7	17.5	12.6	18.9	12.8	19.2	12.9	19.4	12.9	19.4
109	11.4	17.2	11.5	17.3	12.4	18.6	12.6	18.9	12.7	19.0	12.7	19.0
110	11.3	17.0	11.4	17.1	12.2	18.3	12.4	18.6	12.4	18.7	12.4	18.7
111	11.2	16.8	11.3	16.9	12.0	18.1	12.2	18.3	12.2	18.3	12.2	18.3
112	11.0	16.6	11.1	16.7	11.8	17.8	12.0	18.0	12.0	18.0	12.0	18.0
113	10.9	16.4	11.0	16.5	11.7	17.5	11.8	17.7	11.8	17.7	11.8	17.7
114	10.8	16.2	10.9	16.3	11.5	17.3	11.6	17.4	11.6	17.4	11.6	17.4
115	10.7	16.0	10.7	16.2	11.3	17.0	11.4	17.1	11.4	17.1	11.4	17.1
116	10.5	15.8	10.6	16.0	11.1	16.7	11.2	16.8	11.2	16.8	11.2	16.8
117	10.4	15.6	10.5	15.8	11.0	16.5	11.0	16.5	11.0	16.5	11.0	16.5
118	10.3	15.5	10.4	15.6	10.8	16.2	10.8	16.2	10.8	16.2	10.8	16.2
119	10.2	15.3	10.2	15.4	10.6	16.0	10.6	16.0	10.6	16.0	10.6	16.0
120	10.0	15.1	10.1	15.2	10.4	15.7	10.4	15.7	10.4	15.7	10.4	15.7
ASD		LRFD										
$\Omega_c = 1.67$		$\phi_c = 0.90$										

Table 4-14 (continued)
Available Nominal Stress for
Compression Members

$\frac{L_c}{r}$	$F_y = 35 \text{ ksi}$		$F_y = 36 \text{ ksi}$		$F_y = 46 \text{ ksi}$		$F_y = 50 \text{ ksi}$		$F_y = 65 \text{ ksi}$		$F_y = 70 \text{ ksi}$	
	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$
	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi
	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD
121	9.91	14.9	10.0	15.0	10.3	15.4	10.3	15.4	10.3	15.4	10.3	15.4
122	9.79	14.7	9.85	14.8	10.1	15.2	10.1	15.2	10.1	15.2	10.1	15.2
123	9.67	14.5	9.72	14.6	9.94	14.9	9.94	14.9	9.94	14.9	9.94	14.9
124	9.55	14.3	9.59	14.4	9.78	14.7	9.78	14.7	9.78	14.7	9.78	14.7
125	9.43	14.2	9.47	14.2	9.62	14.5	9.62	14.5	9.62	14.5	9.62	14.5
126	9.31	14.0	9.35	14.0	9.47	14.2	9.47	14.2	9.47	14.2	9.47	14.2
127	9.19	13.8	9.22	13.9	9.32	14.0	9.32	14.0	9.32	14.0	9.32	14.0
128	9.07	13.6	9.10	13.7	9.17	13.8	9.17	13.8	9.17	13.8	9.17	13.8
129	8.95	13.4	8.98	13.5	9.03	13.6	9.03	13.6	9.03	13.6	9.03	13.6
130	8.83	13.3	8.86	13.3	8.89	13.4	8.89	13.4	8.89	13.4	8.89	13.4
131	8.71	13.1	8.73	13.1	8.76	13.2	8.76	13.2	8.76	13.2	8.76	13.2
132	8.60	12.9	8.61	12.9	8.63	13.0	8.63	13.0	8.63	13.0	8.63	13.0
133	8.48	12.7	8.49	12.8	8.50	12.8	8.50	12.8	8.50	12.8	8.50	12.8
134	8.37	12.6	8.37	12.6	8.37	12.6	8.37	12.6	8.37	12.6	8.37	12.6
135	8.25	12.4	8.25	12.4	8.25	12.4	8.25	12.4	8.25	12.4	8.25	12.4
136	8.13	12.2	8.13	12.2	8.13	12.2	8.13	12.2	8.13	12.2	8.13	12.2
137	8.01	12.0	8.01	12.0	8.01	12.0	8.01	12.0	8.01	12.0	8.01	12.0
138	7.89	11.9	7.89	11.9	7.89	11.9	7.89	11.9	7.89	11.9	7.89	11.9
139	7.78	11.7	7.78	11.7	7.78	11.7	7.78	11.7	7.78	11.7	7.78	11.7
140	7.67	11.5	7.67	11.5	7.67	11.5	7.67	11.5	7.67	11.5	7.67	11.5
141	7.56	11.4	7.56	11.4	7.56	11.4	7.56	11.4	7.56	11.4	7.56	11.4
142	7.45	11.2	7.45	11.2	7.45	11.2	7.45	11.2	7.45	11.2	7.45	11.2
143	7.35	11.0	7.35	11.0	7.35	11.0	7.35	11.0	7.35	11.0	7.35	11.0
144	7.25	10.9	7.25	10.9	7.25	10.9	7.25	10.9	7.25	10.9	7.25	10.9
145	7.15	10.7	7.15	10.7	7.15	10.7	7.15	10.7	7.15	10.7	7.15	10.7
146	7.05	10.6	7.05	10.6	7.05	10.6	7.05	10.6	7.05	10.6	7.05	10.6
147	6.96	10.5	6.96	10.5	6.96	10.5	6.96	10.5	6.96	10.5	6.96	10.5
148	6.86	10.3	6.86	10.3	6.86	10.3	6.86	10.3	6.86	10.3	6.86	10.3
149	6.77	10.2	6.77	10.2	6.77	10.2	6.77	10.2	6.77	10.2	6.77	10.2
150	6.68	10.0	6.68	10.0	6.68	10.0	6.68	10.0	6.68	10.0	6.68	10.0
151	6.59	9.91	6.59	9.91	6.59	9.91	6.59	9.91	6.59	9.91	6.59	9.91
152	6.51	9.78	6.51	9.78	6.51	9.78	6.51	9.78	6.51	9.78	6.51	9.78
153	6.42	9.65	6.42	9.65	6.42	9.65	6.42	9.65	6.42	9.65	6.42	9.65
154	6.34	9.53	6.34	9.53	6.34	9.53	6.34	9.53	6.34	9.53	6.34	9.53
155	6.26	9.40	6.26	9.40	6.26	9.40	6.26	9.40	6.26	9.40	6.26	9.40
156	6.18	9.28	6.18	9.28	6.18	9.28	6.18	9.28	6.18	9.28	6.18	9.28
157	6.10	9.17	6.10	9.17	6.10	9.17	6.10	9.17	6.10	9.17	6.10	9.17
158	6.02	9.05	6.02	9.05	6.02	9.05	6.02	9.05	6.02	9.05	6.02	9.05
159	5.95	8.94	5.95	8.94	5.95	8.94	5.95	8.94	5.95	8.94	5.95	8.94
160	5.87	8.82	5.87	8.82	5.87	8.82	5.87	8.82	5.87	8.82	5.87	8.82
ASD		LRFD										
$\Omega_c = 1.67$		$\phi_c = 0.90$										

Table 4-14 (continued)
Available Nominal Stress for
Compression Members

L_c r	$F_y = 35$ ksi		$F_y = 36$ ksi		$F_y = 46$ ksi		$F_y = 50$ ksi		$F_y = 65$ ksi		$F_y = 70$ ksi	
	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$	F_n/Ω_c	$\phi_c F_n$
	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi	ksi
	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD
161	5.80	8.72	5.80	8.72	5.80	8.72	5.80	8.72	5.80	8.72	5.80	8.72
162	5.73	8.61	5.73	8.61	5.73	8.61	5.73	8.61	5.73	8.61	5.73	8.61
163	5.66	8.50	5.66	8.50	5.66	8.50	5.66	8.50	5.66	8.50	5.66	8.50
164	5.59	8.40	5.59	8.40	5.59	8.40	5.59	8.40	5.59	8.40	5.59	8.40
165	5.52	8.30	5.52	8.30	5.52	8.30	5.52	8.30	5.52	8.30	5.52	8.30
166	5.45	8.20	5.45	8.20	5.45	8.20	5.45	8.20	5.45	8.20	5.45	8.20
167	5.39	8.10	5.39	8.10	5.39	8.10	5.39	8.10	5.39	8.10	5.39	8.10
168	5.33	8.00	5.33	8.00	5.33	8.00	5.33	8.00	5.33	8.00	5.33	8.00
169	5.25	7.89	5.25	7.89	5.25	7.89	5.25	7.89	5.25	7.89	5.25	7.89
170	5.20	7.82	5.20	7.82	5.20	7.82	5.20	7.82	5.20	7.82	5.20	7.82
171	5.14	7.73	5.14	7.73	5.14	7.73	5.14	7.73	5.14	7.73	5.14	7.73
172	5.08	7.64	5.08	7.64	5.08	7.64	5.08	7.64	5.08	7.64	5.08	7.64
173	5.02	7.55	5.02	7.55	5.02	7.55	5.02	7.55	5.02	7.55	5.02	7.55
174	4.96	7.46	4.96	7.46	4.96	7.46	4.96	7.46	4.96	7.46	4.96	7.46
175	4.91	7.38	4.91	7.38	4.91	7.38	4.91	7.38	4.91	7.38	4.91	7.38
176	4.85	7.29	4.85	7.29	4.85	7.29	4.85	7.29	4.85	7.29	4.85	7.29
177	4.80	7.21	4.80	7.21	4.80	7.21	4.80	7.21	4.80	7.21	4.80	7.21
178	4.74	7.13	4.74	7.13	4.74	7.13	4.74	7.13	4.74	7.13	4.74	7.13
179	4.69	7.05	4.69	7.05	4.69	7.05	4.69	7.05	4.69	7.05	4.69	7.05
180	4.64	6.97	4.64	6.97	4.64	6.97	4.64	6.97	4.64	6.97	4.64	6.97
181	4.59	6.90	4.59	6.90	4.59	6.90	4.59	6.90	4.59	6.90	4.59	6.90
182	4.54	6.82	4.54	6.82	4.54	6.82	4.54	6.82	4.54	6.82	4.54	6.82
183	4.49	6.75	4.49	6.75	4.49	6.75	4.49	6.75	4.49	6.75	4.49	6.75
184	4.44	6.67	4.44	6.67	4.44	6.67	4.44	6.67	4.44	6.67	4.44	6.67
185	4.39	6.60	4.39	6.60	4.39	6.60	4.39	6.60	4.39	6.60	4.39	6.60
186	4.34	6.53	4.34	6.53	4.34	6.53	4.34	6.53	4.34	6.53	4.34	6.53
187	4.30	6.46	4.30	6.46	4.30	6.46	4.30	6.46	4.30	6.46	4.30	6.46
188	4.25	6.39	4.25	6.39	4.25	6.39	4.25	6.39	4.25	6.39	4.25	6.39
189	4.21	6.32	4.21	6.32	4.21	6.32	4.21	6.32	4.21	6.32	4.21	6.32
190	4.16	6.26	4.16	6.26	4.16	6.26	4.16	6.26	4.16	6.26	4.16	6.26
191	4.12	6.19	4.12	6.19	4.12	6.19	4.12	6.19	4.12	6.19	4.12	6.19
192	4.08	6.13	4.08	6.13	4.08	6.13	4.08	6.13	4.08	6.13	4.08	6.13
193	4.04	6.06	4.04	6.06	4.04	6.06	4.04	6.06	4.04	6.06	4.04	6.06
194	3.99	6.00	3.99	6.00	3.99	6.00	3.99	6.00	3.99	6.00	3.99	6.00
195	3.95	5.94	3.95	5.94	3.95	5.94	3.95	5.94	3.95	5.94	3.95	5.94
196	3.91	5.88	3.91	5.88	3.91	5.88	3.91	5.88	3.91	5.88	3.91	5.88
197	3.87	5.82	3.87	5.82	3.87	5.82	3.87	5.82	3.87	5.82	3.87	5.82
198	3.83	5.76	3.83	5.76	3.83	5.76	3.83	5.76	3.83	5.76	3.83	5.76
199	3.80	5.70	3.80	5.70	3.80	5.70	3.80	5.70	3.80	5.70	3.80	5.70
200	3.76	5.65	3.76	5.65	3.76	5.65	3.76	5.65	3.76	5.65	3.76	5.65
ASD		LRFD										
$\Omega_c = 1.67$		$\phi_c = 0.90$										