















-										
■ LRFD Manual Design Tables (P. 16.I-14										
TABLE 3-50										
	Desig 50 ksi	gn St Spec	ress fo ified Y	r Cor ield S	npress Stress	sion N Stee	/lembe l, o _c =	ers of 0.85 ^l	a]	
	Φ _c F _{cr} ksi	KI r	¢ _e F _{er} ksi	<u>KI</u> r	¢ <i>cF</i> cr ksi	$\frac{Kl}{r}$	φ _c F _{cr} ksi	<u>K</u> r	o _c F _{cr} ksi	
	42.5 42.5 42.5 42.5 42.5	41 42 43 44 45	37.6 37.4 37.1 36.9 36.7	81 82 83 84 85	26.3 28.0 25.7 25.4 25.1	121 122 123 124 125	14.6 14.3 14.1 13.9 13.7	161 162 163 164 165	8.23 8.13 8.03 7.93 7.84	
	42,4 42,4 42,3 42,3	46 47 48 49	36.4 36.2 35.9 35.7	85 87 88 89	24.8 24.4 24.1 23.8 23.5	126 127 128 129	13.4 13.2 13.0 12.8	168 167 168 169	7.74 7.65 7.56 7.47	

A guarde	Int	rod	uctio	011 011		RESSION	WEWBERS		ENCE 355 ©Assak
		D Ma	nual	Desi	ign Ta	able	s (P.	16.I-	145)
				TABL	E 3-50)			
	Desig 50 ksi	gn St Spec	ress fo ified Y	r Cor ield S	npres: Stress	sion I Stee	Membe I, o _c =	ers of 0.85 ^l	a]
闣	φ _c F _{er} ksi	$\frac{KI}{r}$	¢ _e F _e , ksi	<u>K1</u> r	¢ _c F _{cr} ksi	$\frac{Kl}{r}$	φ _c F _{cr} ksi	<u>Kl</u> r	o₂F₀₂ ksi
	41.8	55	34.1	95	22.0	135	11.7	175	6.97
	71.0			1.2.2	A	1.0.0			
	41.7 41.6 41.5 41.4 41.3	56 57 58 59 60	33.8 33.5 33.2 33.0 32.7	96 97 98 99 100	21.7 21.4 21.1 20.8 20.6	136 137 138 139 140	11.5 11.4 11.2 11.0 10.9	176 177 178 179 180	6.89 6.81 6.56 6.59







院。 mit	L	RFD Design Tables									E	ENCE 355 ©Assa		
∎ L	LRFD Manual Design Tables (P. 4-25)													
	n 20 kal M°= 0.45 F ₂ ,	. Ag	Table 4-2 (cont.). W-Shapes Design Strength in Axial Compression, φ _c P _n , kips								x—	Y 		
1	1		W12×											
	and a	106	96	87	79	72	6511	58	53	80	45	40		
	0	1330	1200	1090	986	B97	812	723	663	621	557	497		
							83.9	10000	1000	200	1000	150		
	6	1280	1150	1050	947	851	779	630	122.3	282	204	430		
	6 7	1280 1260	1150 1140	1050 1030	947 933	851 848	779	686	610	543	436	434		
	5 7 5	1280 1260 1220	1 150 1 140 1 120	1050 1030 1010	947 933 917	851 848 834	779 767 754	686 645	610 564	562 543 521	436 456	434		
	5 7 5 8 9	1280 1260 1240 1210	1 150 1 140 1 120 1 100	1050 1030 1010 994	947 933 917 900	851 848 834 818	779 767 754 739	630 666 645 631	610 554 577	562 543 521 497	436 456 445	434 416 396		
	5 7 8 9 10	1280 1260 1240 1240 1210 1210	1 150 1 140 1 120 1 100 1 070	1050 1030 1010 994 973	947 933 917 900 880	851 848 834 818 800	779 767 75A 759 723	630 666 645 631 611	610 554 577 509	562 543 521 497 472	504 436 456 445 422	434 416 396 376		



































		Des	ign	Tat	oles	MEMBERS		Slide No. 31 ENCE 355 ©Assakkaf
LRFD	Mar	iual D)esig	gn Ta	bles	(P. ′	16.I-	145)
Desig 50 ksi	gn Sti Spec	ress fo ified Y	r Cor ield S	E 3-50 npress Stress) sion N Steel	/lembe	ers of 0.85 ^l	a]
φ ₆ F ₆₇ ksi 42.5 42.5 42.5 42.4 42.4 42.4 42.4 42.3 42.2	K/ r 41 42 43 44 45 46 47 48 40 50	Φ _p F _{cr} ksi 37.6 37.4 37.1 36.9 36.9 36.4 36.2 35.9 35.7 35.4	KJ r 81 82 83 84 85 86 87 86 87 88 89 90	Φ _c F _{cr} ksi 25.3 25.0 25.7 25.4 25.1 24.8 24.4 24.4 23.8 23.5	<u>Ki</u> 121 122 123 124 125 126 127 128 129 130	€ _c <i>F</i> _{cr} ksi 14.6 14.3 14.1 13.9 13.7 13.4 13.2 13.0 12.8 12.6	<u>Ki</u> 161 162 163 164 165 166 167 168 169 170	C _e F _{er} ksi 8.23 8.13 8.03 7.93 7.84 7.74 7.65 7.56 7.47 7.38

uca w	LR	FD	Des	sign	Tal	oles			ENCE 355 ©Assa
		D Ma	nual	Desi	ign Ta	ables	s (P.	16.I-	145)
				TABL	E 3-50)			
	Desig 50 ksi	gn St Spec	ress fo	or Cor lield S	npres: Stress	sion M Stee	Nembe I, ø _c =	ers of 0.85 ^l	a]
	φ _c F _{cr} ksi	KI r	¢ _r F _{er} ksi	<u>K1</u> r	¢ _c F _{er} ksi	$\frac{Kl}{r}$	φ _c F _{er} ksi	$\frac{Kl}{r}$	o₅F₀, ksi
	41.8	55	34.1	95	22.0	135	11.7	175	6.97
	41.7	56 57	33.8 33.5	96 97	21.7 21.4	136 137	11.5 11.4	176 177	6.89 6.81
	41.5 41.4 41.3	58 59 60	33.2 33.0 32.7	98 99 100	21.1 20.8 20.6	138 139 140	11.2 11.0 10.9	178 179 160	6.56 6.59











