

BAR SIZE	LAP CLASS	f'c = 7000 psi															
		CONCRETE COVER = 0.75"				CONCRETE COVER = 1.00"				CONCRETE COVER = 1.50"				CONCRETE COVER = 2.00"			
		UNCOATED		EPOXY-COATED ¹⁰		UNCOATED		EPOXY-COATED ¹⁰		UNCOATED		EPOXY-COATED ¹⁰		UNCOATED		EPOXY-COATED ¹⁰	
		TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER
#3	A	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
(#10)	B	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
#4	A	14	12	19	17	12	12	15	13	12	12	14	12	12	12	14	12
(#13)	B	19	16	24	21	16	16	19	17	16	16	18	16	16	16	18	16
#5	A	21	16	27	24	17	13	22	20	14	12	19	17	14	12	17	13
(#16)	B	27	21	35	31	22	17	29	25	19	16	24	21	19	16	22	17
#6	A	28	22	37	33	23	18	30	27	17	13	22	20	17	13	22	20
(#19)	B	37	28	48	42	30	23	39	35	22	17	29	26	22	17	29	26
#7	A	45	35	-	-	38	29	-	-	28	22	-	-	25	19	-	-
(#22)	B	59	45	-	-	49	38	-	-	36	28	-	-	32	25	-	-
#7	A	56	43	-	-	47	36	-	-	35	27	-	-	28	22	-	-
(#25)	B	73	56	-	-	61	47	-	-	46	35	-	-	37	28	-	-
#9	A	68	52	-	-	57	44	-	-	44	34	-	-	35	27	-	-
(#29)	B	88	68	-	-	74	57	-	-	56	44	-	-	46	35	-	-
#10	A	82	63	-	-	69	53	-	-	53	41	-	-	43	33	-	-
(#32)	B	106	82	-	-	90	69	-	-	69	53	-	-	56	43	-	-
#11	A	96	74	-	-	82	63	-	-	63	49	-	-	52	40	-	-
(#36)	B	125	96	-	-	106	82	-	-	82	63	-	-	67	52	-	-

BASED ON ACI 318-05, SECTION 12.2 & 12.15

TABLE 7 - TENSION DEVELOPMENT LENGTHS
OF STANDARD HOOKS AND ASTM A970
TERMINATORS FOR EPOXY - COATED BARS ¹⁰

BAR SIZE	LENGTHS (in.) PER CONCRETE STRENGTH (psi)				
	4000 psi	5000 psi	6000 psi	7000 psi	8000 psi
#3 (#10)	9	8	7	7	6
#4 (#13)	12	10	10	9	8
#5 (#16)	15	13	12	11	10
#6 (#19)	17	16	14	13	12

BASED ON ACI 318-05, SECTION 12.5

TABLE 9 - TENSION DEVELOPMENT AND LAP SPLICE LENGTHS FOR PLAN WELDED WIRE FABRIC

WIRE	WIRE SPACING	DEVELOPMENT LENGTH (IN.) PER CROSS LAP				SPLICE LENGTH (IN.) PER CROSS WIRE SPACING (IN.)			
		4	6	8	12	4	6	8	12
W0.5 TO W6	4 6 12	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	8 8 8	10 10 10	14 14 14

BASED ON ACI 318-05, SECTION 12.19

TABLE 6 - TENSION DEVELOPMENT LENGTHS OF STANDARD HOOKS AND ASTM A970 TERMINATORS FOR UNCOATED BARS

BAR SIZE	LENGTHS (in.) PER CONCRETE STRENGTH (psi)				
	4000 psi	5000 psi	6000 psi	7000 psi	8000 psi
#3 (#10)	7	7	6	6	6
#4 (#13)	10	9	8	7	7
#5 (#16)	12	11	10	9	9
#6 (#19)	15	13	12	11	10
#7 (#22)	17	15	14	13	12
#8 (#25)	19	17	16	15	14
#9 (#29)	22	19	18	16	15
#10 (#32)	24	22	20	19	17
#11 (#36)	27	24	22	21	19
#14 (#43)	32	29	27	25	23
#18 (#57)	43	39	35	33	31

BASED ON ACI 318-05, SECTION 12.5

TABLE 8 - COMPRESSION DEVELOPMENT AND LAP SPLICE LENGTHS FOR UNCOATED AND EPOXY-COATED BARS

	LENGTHS (in.) PER CONCRETE STRENGTH (psi)					
	4000 psi	5000 psi	6000 psi	7000 psi	8000 psi	LAP SPLICE
#3 (#10)	8	8	8	8	8	12
#4 (#13)	10	9	9	9	9	15
#5 (#16)	12	12	12	12	12	19
#6 (#19)	15	14	14	14	14	23
#7 (#22)	17	16	16	16	16	27
#8 (#25)	19	18	18	18	18	30
#9 (#29)	22	21	21	21	21	34
#10 (#32)	24	23	23	23	23	38
#11 (#36)	27	26	26	26	26	43
#14 ⁵ (#43)	32	31	31	31	31	N/A
#18 ⁵ (#57)	43	41	41	41	41	N/A

BASED ON ACI 318-05, SECTION 12.3 & 12.16

CONSTRUCTION DOCUMENTS - FINAL SUBMISSION

[illegible]