

Bar Size	Area	Top Bars ⁽¹⁾	Others ⁽²⁾	Top Bars ⁽³⁾	Others ⁽⁴⁾
#10	71	430	380	345	305
#13	129	560	495	450	395
#16	199	685	605	550	485
#19	284	885	785	710	625
#22	387	1210	1065	965	855
#25	510	1590	1405	1275	1125
#29	645	2010	1775	1610	1420
#32	819	2555	2255	2045	1805
#36	1006	3135	2770	2510	2215
#43	1452	3895	3440	3120	2750
#57	2581	5300	4675	4240	3740

Notes:

- (1) $1.7 \times l_d$
- (2) $1.5 \times l_d$
- (3) $1.7 \times 0.8 \times l_d$
- (4) $1.5 \times 0.8 \times l_d$
5. All lengths are in millimeters, and are modified for ≥ 150 mm spacing and minimum 75 mm clear spacing between bars.
6. $d_b < \text{Cover}$; $2d_b < \text{Clear Spacing}$
7. Values are for normal weight concrete.
8. Top bars are horizontal bars with more than 300 mm of fresh concrete below the reinforcement.

DEVELOPMENT LENGTHS FOR EPOXY COATED BARS IN TENSION

$$f'_c = 21 \text{ MPa}$$

Figure 62-2G