



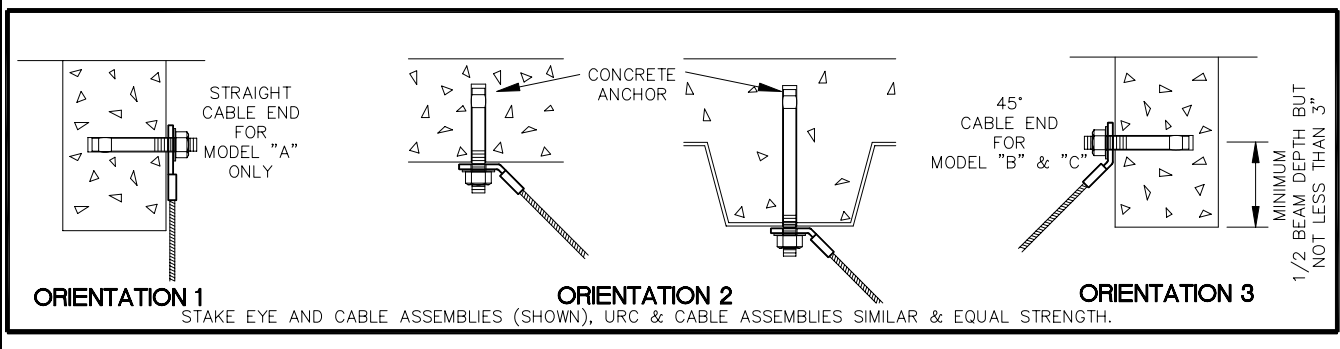
**Anchorage in 3000 psi NORMAL-WEIGHT CONCRETE**

**Using the URC or Stake Eye End Fitting**

BRACE SIZE	FASTENER CODE	CONCRETE			Installation TORQUE ft-lb	ORIENTATION 1				ORIENTATION 2				ORIENTATION 3			
		QTY.	FASTENER	EMBEDMENT		BRACE ANGLE				BRACE ANGLE				BRACE ANGLE			
						30°	45°	60°	90°	30°	45°	60°	90°	30°	45°	60°	90°
12	57	1	3/8 x 3 Hilti TZ	2"	25	300	424	519	600	258	422	519	600	300	422	448	490
18	57	1	3/8 x 3 Hilti TZ	2"	25	371	525	643	743	258	422	665	743	383	422	448	490
18	58	1	1/2 x 4 1/2 Hilti TZ	2"	40	550	778	952	1100	317	575	952	1100	550	575	519	519
36	58	1	1/2 x 4 1/2 Hilti TZ	2"	40	645	913	1118	1291	317	575	1082	1291	624	550	519	519
18	58	1	1/2 x 4 1/2 Hilti TZ	3 1/4"	40	550	778	952	1100	550	778	952	1100	550	778	952	1063
36	58	1	1/2 x 4 1/2 Hilti TZ	3 1/4"	40	945	1337	1638	1891	591	1000	1662	1891	958	1000	1025	1063
36	59	1	5/8 x 6 Hilti TZ	4"	60	1333	1886	2307	2667	876	1489	2307	2667	1333	1489	1519	1561
48	59	1	5/8 x 6 Hilti TZ	4"	60	1898	2170	2659	3070	876	1489	2500	3070	1441	1489	1519	1561
48	60	1	3/4 x 8 Hilti TZ	4 3/4"	110	2031	2874	3520	4064	1142	1949	3296	4064	1901	1949	1979	2021
36	58	2	1/2 x 4 1/2 Hilti TZ	2"	40	1290	1826	2236	2582	634	1150	2164	2582	1248	1100	1038	1038
36	58	2	1/2 x 4 1/2 Hilti TZ	3 1/4"	40	1333	1886	2307	2667	1182	1886	2307	2667	1333	1886	2050	2126
48	58	2	1/2 x 4 1/2 Hilti TZ	3 1/4"	40	1890	2674	3276	3782	1182	2000	3324	3782	1916	2000	2050	2126
48	59	2	5/8 x 6 Hilti TZ	4"	60	2200	3112	3806	4400	1752	2978	3806	4400	2200	2978	3038	3122
48	60	2	3/4 x 8 Hilti TZ	4 3/4"	110	2200	3112	3806	4400	2200	3112	3806	4400	2200	3112	3806	4042

**NOTES:**

1. When 2 fasteners are required, use the Cable Load Doubler Sling Assembly on Page 1-28.
2. Stake Eye end fitting not available in Size 48.
3. Hilti TZ Concrete Anchors are prequalified for seismic applications in accordance with ACI 355.2 per ACI 318-02 Appendix D as required by ASCE 7-05 Section 13.4.2, so that it is not necessary to base horizontal earthquake load calculations on  $R_p=1.5$ . Refer to ICC Evaluation Service Report ESR-1917.



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