



BANTEK BCP RE600 V1, Design load for good bond Condition, C20/25

Bar Size	Cross Sectional are of Reinforcement	Charatesirtic yeild strength of Reinforcement B 500B	Partial factor for reinforcing steel	Design Resistance of Reinforcement bar	Design Bond Stress (Concrete)	Development Length	Minimum Anchorage Length	kN																																		
mm	mm <sup>2</sup>	N/mm <sup>2</sup>		kN	N/mm <sup>2</sup>	mm	mm																																			
8	50.3	500	1.5	2.9	2.3	386	116	6	7	8	9	10	12	15	18	21																										
10	78.5	500	1.5	34.1	2.3	483	145		8	10	12	13	15	19	22	26	29																									
12	113.1	500	1.5	49.2	2.3	580	174			12	14	15	18	22	26	31	35	43																								
14	152.9	500	1.5	66.9	2.3	676	203							26	31	36	41	50	60																							
16	201.1	500	1.5	87.4	2.3	773	232					20	24	29	35	41	46	58	69	80																						
20	314.2	500	1.5	136.6	2.3	966	290						30	37	43	50	58	72	86	100	114	128																				
25	490.9	500	1.5	213.4	2.3	1208	362							46	55	64	72	89	107	125	142	160	178	195	213																	
28	615.8	500	1.5	267.7	2.3	1353	406											100	120	140	159	179	199	219	239	258																
32	804.2	500	1.5	349.7	2.3	1546	464									82	94	114	137	159	182	205	227	250	272	295	318	340														
40	1257	500	1.5	546.6	2.1	2100	630										107	133	159	183	209	235	261	287	313	339	365	391	416	443	469	495	521	547								
Anchorage Length (mm)								105	125	145	175	185	225	275	325	375	425	525	625	725	825	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100								