

5.2 DESIGN RESISTANCE (STRUCTURAL APPLICATION) [kN]

General Parameter			Non-cracked concrete				Cracked concrete				
Family	Code	Size	ETA	Tension $N_{Rk, ucr}$		Shear $V_{Rk, ucr}$		Tension $N_{Rk, ucr}$		Shear $V_{Rk, ucr}$	
			Assessed	($h_{ef, std}$)	($h_{ef, red}$)	($h_{ef, std}$)	($h_{ef, red}$)	($h_{ef, std}$)	($h_{ef, red}$)	($h_{ef, std}$)	($h_{ef, red}$)
THE	THE05040	Ø5 x 40	--	--	4,58	--	4,58	--	3,27	--	3,27
	THE05050	Ø5 x 50	--	6,96	4,58	<u>5,46</u>	4,58	4,97	3,27	4,97	3,27
	THE05060	Ø5 x 60	--								
	THE05080	Ø5 x 80	--								
	THE05100	Ø5 x 100	--								
	THE06040	Ø6 x 40	✓	--	2,78	--	4,45	--	2,65	--	3,18
	THE06050	Ø6 x 50	✓	--		--					
	THE06060	Ø6 x 60	✓	9,47	2,78	<u>8,35</u>	4,45	6,77	2,65	6,77	3,18
	THE06070	Ø6 x 70	✓								
	THE06080	Ø6 x 80	✓								
	THE06100	Ø6 x 100	✓								
	THE06120	Ø6 x 120	✓	12,06	6,43	12,06	7,72	8,61	4,59	8,61	5,51
	THE08055	Ø8 x 55	✓								
	THE08060	Ø8 x 60	✓								
	THE08070	Ø8 x 70	✓								
	THE08080	Ø8 x 80	✓	12,06	6,43	12,06	7,72	8,61	4,59	8,61	5,51
	THE08090	Ø8 x 90	✓								
	THE08100	Ø8 x 100	✓								
	THE08110	Ø8 x 110	✓								
	THE08120	Ø8 x 120	✓	18,43	8,98	<u>18,27</u>	8,98	13,16	6,42	<u>18,27</u>	6,42
	THE08140	Ø8 x 140	✓								
	THE10060	Ø10 x 60	✓								
	THE10070	Ø10 x 70	✓								
	THE10080	Ø10 x 80	✓	18,43	8,98	<u>18,27</u>	8,98	13,16	6,42	<u>18,27</u>	6,42
	THE10090	Ø10 x 90	✓								
	THE10100	Ø10 x 100	✓								
	THE10120	Ø10 x 120	✓								
	THE10140	Ø10 x 140	✓	25,64	14,84	<u>24,83</u>	14,84	18,31	10,60	<u>24,83</u>	10,60
	THE12080	Ø12 x 80	✓								
	THE12090	Ø12 x 90	✓								
	THE12110	Ø12 x 110	✓								
	THE12130	Ø12 x 130	✓	29,65	14,84	<u>35,15</u>	14,84	21,18	10,60	<u>35,15</u>	10,60
THE12150	Ø12 x 150	✓									
THE14080	Ø14 x 80	✓									
THE14100	Ø14 x 100	✓									
THE14120	Ø14 x 120	✓	29,65	14,84	<u>35,15</u>	14,84	21,18	10,60	<u>35,15</u>	10,60	
THE14130	Ø14 x 130	✓									
THE14140	Ø14 x 140	✓									
THE14160	Ø14 x 160	✓									
THE18100	Ø18 x 100	✓	--	19,47	--	38,94	--	13,91	--	27,81	
THE18130	Ø18 x 130	✓	--		--						
THE18160	Ø18 x 160	✓	39,83	19,47	<u>53,85</u>	38,94	28,45	13,91	<u>53,85</u>	27,81	
THE18180	Ø18 x 180	✓									
THE18200	Ø18 x 200	✓									