

The following tie-down connections have been compiled by TRADAC in conjunction with RAMSET. They are based on typical concrete thickness and strength, anchor size and embedment. For situations other than those given, refer to the RAMSET technical data.



## UPLIFT CAPACITY OF WALL FRAME TIE-DOWN USING **Ramset™** CONNECTORS

Position of tie-down connection			Uplift capacity (kN)						
			Unseasoned timber			Seasoned timber			
Top or Bottom plates to slab			J2	J3	J4	JD4	JD5	JD6	
	Anchor size	Min. Edge distance	<b>Chemset™ Injection 100 series</b>						
	M12	35	10	10	10	10	10	10	
		≥48	12	12	12	12	12	12	
	M16	50	15	15	15	15	15	15	
		≥65	18	18	18	18	18	18	
	Anchor size	Min. Edge distance	<b>Chemset™ Spin Capsules</b>						
	M12	35	16	16	16	16	16	12	
		≥48	20	20	20	20	16	12	
	M16	50	24	24	24	24	24	21	
		≥65	29	29	29	29	28	21	
	Anchor size	Min. Edge distance	<b>Chemset™ Injection 800 series</b>						
	M12	35	18	18	18	18	16	12	
≥48		22	22	22	20	16	12		
M16	50	26	26	26	26	26	21		
	≥65	30	30	30	30	28	21		
	Max. Plate Thickness	Anchor Type	Min. Edge distance	<b>Dynabolt™ Anchors</b>					
	35	DP12100	60	11	11	11	11	11	
			≥85	14	14	14	14	14	
	35	DP12125	80	12	12	12	12	12	
			≥125	15	15	15	15	15	
	45	DP12125	65	11	11	11	11	11	
			≥90	14	14	14	14	14	
	Max. Plate Thickness	Anchor Type	Min. Edge distance	<b>Trubolt™ Anchors</b>					
	35	T12140	60	12	12	12	12	12	
			≥120	18	18	18	18	16	
	35	T12180	60	19	19	19	19	16	
			≥120	22	22	22	20	16	