

# TRDAC SCREW-BOLT™



## Uplift capacity of wall frame tie-down connections using POWERS® connectors

### Limit State Design

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 dist mm	<b>TRDAC12100 SCREW-BOLT</b>					
	<b>12 x 100</b>	35	10	10	10	10	10	10
		≥45	11	11	11	11	11	11
	Anchor size	Min edge dist	<b>TRDAC12150 SCREW-BOLT</b>					
<b>12 x 150</b>	35	17	17	17	17	16	12	
	≥45	18	18	18	18	16	12	

Anchor embedment depth minimum 60mm for 12 x 100  
110mm for 12 x 150

50 x 50 x 3.0 (min) washer to be used with the 12 mm TRDAC SCREWBOLT™

**Note:**

For bottom plates greater than 35mm but 50mm or less in thickness, Limit State Design uplift capacities listed above shall be multiplied by 0.85

TRDAC12100 and TRDAC12150 SCREW-BOLT™ uplift capacities have been derived in accordance with AS1684-1999 requirements for top or bottom plates to slab tie down connection.