



# The ultimate in tie-down connectors TRDAC12100 Screwbolt UPLIFT CAPACITIES DERIVED IN ACCORDANCE WITH AS1684-1999

### Product description

The new revolutionary TRDAC12100 Screwbolt is manufactured from high strength carbon steel and consists of two key features,

- Patented thread design for high expansion free performance
- Internal M12 thread to facilitate M12 threaded rod

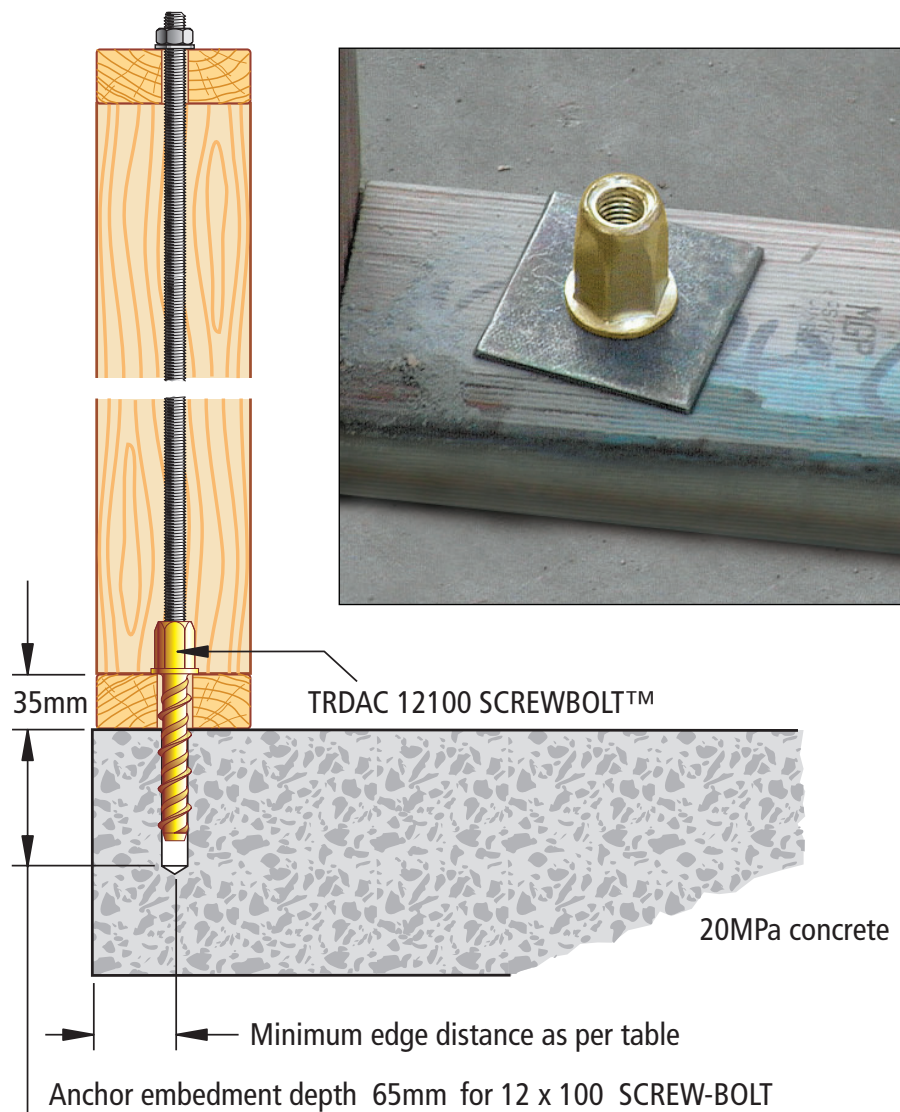
The TRDAC12100 Screwbolt is a quick and simple system, which provides timber frame top plate tie-down to slabs for residential timber frame construction without the costly time consuming requirements of chemical anchoring systems. Its unique thread design provides an undercutting effect in the concrete ensuring optimum performance in residential slabs at minimal edge distance (e.g. 35mm).

### Major Benefits

- **Faster & easier installation**
- **Simple operation**
- **No wastage**
- **Labour saving**
- **Cost saving**

### TRDAC Top Plate Tie Down Anchor

Part No.	Description	mm	mm	qty	qty
TRDAC12100	12 x 100mm	12	12	25	150



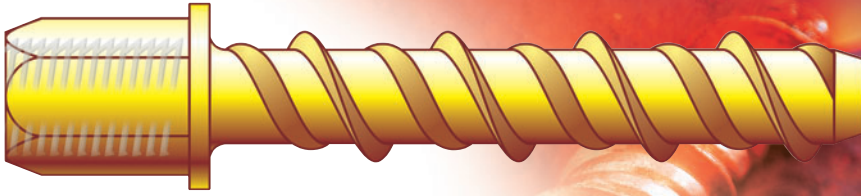
### LIMIT STATE DESIGN

Uplift capacity of wall frame tie-down connections using Powers connectors

Position of tie-down connection		Uplift Capacity (kN)					
Top or Bottom plates to slab		Unseasoned timber			Seasoned timber		
Anchor Size	Min. Edge Dist mm	J2	J3	J4	JD4	JD5	JD6
12 x 100mm	35	10	10	10	10	10	10
12 x 100mm	≥45	11	11	11	11	11	11

50 x 50 x 3.0 (min) washer to be used with the 12 mm TRDAC 12100 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. TRDAC 12100 SCREWBOLT™ uplift capacities have been derived in accordance with AS 1684-1999 requirements for top or bottom plates to slab tie down connections.



**VIC HQ:**  
 5-7 HENLEY CRT  
 MOORABBIN VIC 3189  
 T **03-9553 3999**  
 F **03-9553 4400**

**NSW:**  
 4 ALBAN STREET  
 LIDCOMBE NSW 2141  
 T **02-9748 7766**  
 F **02-9648 5977**

**QLD:**  
 UNIT 7 / LOT 3  
 70 FLANDERS ST  
 SALISBURY QLD 4107  
 T **07-3216 7122**  
 F **07-3216 7216**

**FAR NORTH QLD:**  
 T **0439 083 646**  
 F **07-4036 4166**

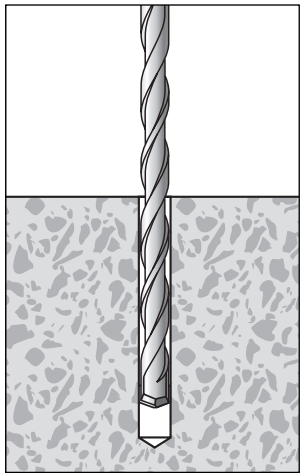
**SA:**  
 UNIT 15 / 36-38 TIKALARA ST  
 REGENCY PARK SA 5010  
 T **08-8346 5611**  
 F **08-8346 5711**

**TAS:**  
 34 DERWENT PARK RD  
 DERWENT PARK TAS 7009  
 T **03-6273 5800**  
 F **03-6273 4977**

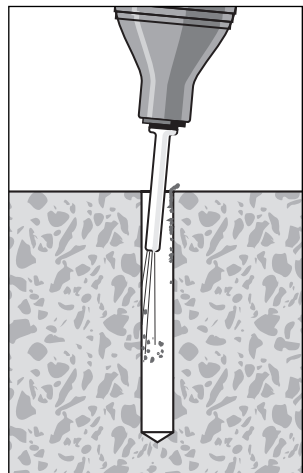
**WA:**  
 PO BOX 3380  
 MALAGA WA 6090  
 T **08-9248 1004**  
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 PO BOX 302 076  
 NORTH HARBOUR  
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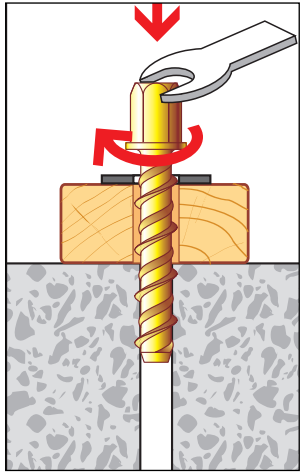
**Installation Procedure**



**1** Using the proper diameter bit, drill a hole into the base material to a depth of at least one to two anchor diameters deeper than the embedment required.

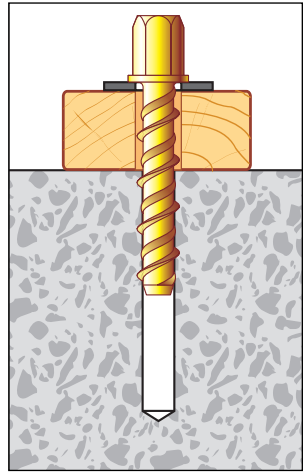


**2** Blow the hole clean of dust and other material.



**3**

- Insert the anchor through the fixture into the anchor hole
- Begin tightening the anchor by applying forward pressure when engaging the first thread.  
Additional initial forward pressure may be required for installation in high strength, dense base material.
- Continue tightening the anchor until the head is seated against the fixture.
- In extremely dense materials, use of an impact wrench is recommended.
- The installation is now complete.



**4** Installation tips:

- Use quality hexagonal socket with a ratchet spanner
- Where substrate allows, a torque controlled impact wrench can be used.
- During installation debris or dust created by the thread cutting action may cause some resistance to be experienced. This is easily overcome by unscrewing the TRDAC 12100 SCREWBOLT™ for one turn, or more and then continue to fix to the full embedment

