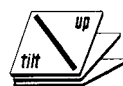
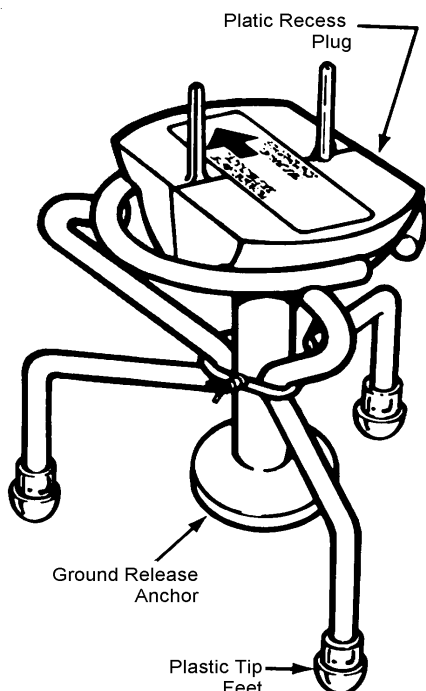


## T-41 Ground Release Insert



Tilt-Lift Equipment P/L  
Concrete Accessories

The ground release insert is a simple and fast method of lifting concrete tilt-up wall panels into position and allows the hardware to be easily released from the ground. Ladders are normally not required during the hardware release process which greatly increases worker safety and productivity.



### Features of the T-41 Ground Release Insert are:

**Flexible plastic antenna** folds over when screed passes, but springs back to indicate insert location.

**Plastic Recess plug** creates a void for attaching the Ground Release Lifting Hardware to the insert head. The expendable plastic recess plug is easily removed from hardened concrete.

**Directional label** indicates correct panel thickness and direction of plastic recess plug in relation to top & bottom of panel.

**Ground Release Anchor.** This hot forged anchor permits rapid hardware attachment and allows smooth rotation of the hardware during the release operation.

**Support Chair** is sized for appropriate panel thickness. Each leg has a plastic tip which protects the wire legs from exposure and potential rust problems.

**Ground Release inserts** are shipped assembled, ready to use and are size 3 mm less than panel thickness.

The lifting anchors used in the T-41 Ground release insert meet the V-notch charpy test minimum 27 joule requirements for L15 steels as set out in AS 3850. Tilt-Lift Equipment anchors also have the identifying marks as required by the Victorian Work Cover Industry Standard for Precast and Tilt-Up Concrete Buildings. The tonnage of the anchor, anchor length and Tilt-Lift Equipment identifying mark are all visible on the top of the lifting head. "TLE" is the identifying mark for Tilt-Lift Equipment.

Note: Although the tonnage of the anchor may be 5 tonne, the Working Load Limit of the lifting anchor will in most situations will be determined by the concrete strength, edge distance and overall length off the anchor. The working load limit for the T-41 ground release insert, is set out in the table below. (Note: No additional reinforcing is required to achieve these working loads, additional reinforcing is required for lifter stability only.)

### Working Load Limit for T-41 Ground Release Insert

T-41 Working Load Limit (Tonnes)				
Panel Thickness (mm)	Anchor Length (mm)	Concrete Strength (mPa)		
		25	30	32
100 - 120	75	2.75	3	3.1
125 - 145	95	3.7	4.1	4.18
150 - 170	120	5	5	5
170+	140	5	5	5

Factor of Safety: 2.5 to 1

*Italics Represents Safe Working Load determined by Lifting Hardware  
Minimum Edge Distance 3 x Anchor Length*

**Danger!** Do not use for edge lifting of panels, as insert is not designed for such use.  
Do not use with top surface seeded exposed aggregate 18 mm or larger as aggregate will pop out during erection resulting in reduced working load limit.