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How to install long Ezytube column forms

Ezytube High Column Installation Guidelines (Up to 10mtr High)

- 1) Order the tube 350mm longer than the required column height.
- 2) Preferably, deliver the tube in the required length if adequate transport can be arranged, or alternatively the tube shall be supplied as 2 x tube sections that will need to be joined onsite by the contractor (or alternatively by Ezytube staff) with Ezytube reinforced filament tape in accordance with Ezytube joining procedure.
- 3) The full length tube shall be lifted vertically and held by the top of the tube, bending of the tube / join shall be avoided at all times.
- 4) Before fitting the tube, inspect the outside of the tube for any damage (cuts, etc) that may have been caused during transport, unloading or movement / storage on site.
- 5) Suggested lifting method is cutting 2 x opposing holes in the top of the tube (say 12mm dia), minimum 300mm down from the top of the tube. Insert a steel bar of sufficient strength, through the 2 holes so that the tube can be held perfectly straight vertically during the lifting process. Secure lifting mechanism (chains or other suitable approved means) both sides of the steel bar on the outside of the tube.
- 6) The deck shall be adequately prepared in that the steel reinforcing cage is in place and secure, the beam ply has a hole cut large enough to allow the tube to be inserted (tube OD plus 3-5mm nominal).
- 7) The tube shall be lowered slowly through the hole in the ply, with a thorough inspection of the tube and any join, being performed during the installation process to ensure that the tube has not been damaged in the lifting process.
- 8) Locate the base of the tube correctly on the footing or concrete slab, plumb at least 2 perpendicular sides to ensure the tube is perfectly vertical and straight.
- 9) For columns up to 6mtrs in height, top and bottom fixing is all that is required. For columns up to 10mtrs in height, additional supporting yolks can be installed at 3-4 mtr intervals. The yolk should not put pressure on the outside of the tube in the unfilled position, and should only be installed to ensure the correct vertical positioning of the tube during filling with concrete. **Under no circumstances are vertical or other similar timber supports to be**

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placed around the outside of the Ezytube system.

- 10) Preferably, do not trim the top of the tube until after filling the tube with concrete. If trimming is required, cut the tube 10mm above the top of the ply. Where a plastic lined Ezytube is to have one end cut, first ensure that the ripcord is not damaged in the process, and secondly ensure that the plastic liner is fully and securely re taped to prevent concrete entering between the liner and the tube. (see “Ezytube Spiral and Plastic Lined Product Data Sheet” for further details)

Concrete Filling

- 11) The concrete can be placed at an unrestricted pour rate up to the maximum safe filling height as indicated on the “Ezytube Spiral and Plastic Lined Product Data Sheet” For column heights in excess of the unrestricted pour rates, the concrete should be poured at a controlled pour rate of 2.0 mtrs vertically per hour (or as advised by an independent structural engineer..
- 12) The vibrator shall be placed in the centre of the cage at the base of the tube and raised evenly with the pouring of the concrete. Avoid over-vibration, pushing the vibrator down or allowing the vibrator to contact the internal surface of the tube.
- 13) The concrete pump hose shall be lowered to the base of the tube and evenly withdrawn during the pour process to avoid dropping the concrete from an unsatisfactory height.
- 14) If the tube is plastic lined, avoid directing the flow of concrete at the vertical seam/ join in the plastic liner.
- 15) After the concrete pour is complete, cut off the excess tube above the top of the column.
- 16) Allow overnight cure of the column, remove the form from the column.

Any queries, please do not hesitate to contact the Ezytube Technical Department at info@ezytube.com.au, or by phone on 1300 138 011.

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