

NEW SOUTH WALES
29 Liverpool Street
INGLEBURN NSW 2565
T: (02) 9618 6222
F: (02) 9618 6255

QUEENSLAND
Unit 4, 1089 Kingsford Smith Drive,
EAGLE FARM, QLD 4009
T: (07) 3268 4611
F: (07) 3268 5255

1300 138 011
EMAIL
info@ezytube.com.au
WEB
www.ezytube.com.au



EZYTUBE PTY. LTD.
Patent No. 696707 - ABN 83 070 229 104

Setting up Ezytube

Installation

Ezytube is primarily designed for installation by the top fitting technique ie. The tube is placed over the reinforcing steel from the top and lowered into position. Care should be taken to avoid scraping the internal layer on the steel reo bars (plastic caps on the exposed ends are advised) as this may result in marks onto the surface of the concrete column.

Inspection of Tubes

Always ensure that the tubes are individually inspected both upon delivery to site, and prior to installation over the reinforcing steel.

Ensure that the inner liner has not been damaged during either transportation or whilst being stored on site. For plastic lined tubes, ensure that the adhesive tape securing the internal liner to the tube is well adhered at both ends of the tube, as well as for the full length of any internal vertical seams. It is very rare for such problems, however is much easier to rectify prior to placement than after a pour is completed.

Positioning

The spiral and plastic lined tubes are equally strong when the tube is positioned in either direction.

Where a tube incorporates a 'Ripcord tape' for easy removal, it is important to position the tube in the correct position. The tube should be placed with the long section of Ezytube tape running down from the top (will extend to a height that is easy to reach from ground level, with the short tape at the base.

The internal plastic liner of Ezytube has a small joint, which results in a fine horizontal line on the surface of the column. Should any areas of the column be concealed or be less visible, the join should be located in this position.

The position of the internal join is marked top and bottom on the outside of the column for easy identification.

Trim to Length

Slide the tube through the hole cut in the slab / beam formply, and over the steel cage taking care not to damage the inside of the tube by scrapping on any exposed tie wire or reo bars. Spacer wheels should be used on the reo to assist in protecting the inside face of the tube as well as to maintain clearances.

Using a Stanley knife (or similar), trim off any excess Ezytube in line with the top of the formply.

IMPORTANT

Where the Ripcord tape is used, pull the tape away from the tube to allow trimming the tube without cutting through the Ripcord tape.

Where lined tubes are trimmed, ensure that the top of the cut tube is retaped and sealed to prevent concrete flowing between the spiral tube and the liner.

Fixing

The top and bottom of Ezytube must be fixed securely in place to prevent movement whilst filling with concrete. The base of the tube is held in place by fixing four equally spaced kickers to the footing / slab.

When fitted, the top edge of the tube is cut so that it is held neatly in place by the soffit formwork.

Bracing

Cross bracing is not normally required on top fitted columns up to a height of 5.5 mtrs. For columns that are longer than 5.5 mtrs, cross bracing supports should be located approx ½ the overall height, or installed to reinforce either side of any joints where standard length tubes are extended / joined on site.

Pour Up

Should the Ezytube form not be fixed in place at the top as no soffit formwork is in place (column first – 'Pour Up Technique'), vertical bracing should be applied as 4 equally spaced timbers around the form which extend the full height of the column. The vertical bracing is fixed in place to a timber yolk at the top of the column and props fixed to the vertical bracing running diagonally away from the column to a secure fixing. Under no circumstances should the props be positioned in direct

contact with the Ezytube form as this may result in flat spots on the side of the column.

Pouring Concrete

When pumping the concrete into the tube, place the concrete pump hose within the centre of the steel cage and locate as low towards the base of the tube as possible. Do not rest the hose on the top of the tube and allow the concrete to drop from the top as this may result in damage to the top of the tube and concrete may enter between the tube and the plastic liner.

Place the vibrator with-in the concrete and withdraw both the hose and vibrator evenly. Do not over vibrate, or move the vibrator up and down repeatedly as this will increase the incidence of honeycomb on the concrete surface.

Stripping

a. Using a Knife

Ezytube ensures an ease in stripping which is unachievable by any other type of formwork tubing. After allowing sufficient time for the concrete to set (in accordance with AS1509-1974), simply remove the base supports and use a Stanley knife (or similar) to perform a straight vertical cut from the top of the tube to the base.

Perform a cut around the full circumference of the tube approximately 100mm from the soffit or support beams. Pull the two sections apart and slide the Ezytube form off the concrete column. One person can perform this operation generally in a few minutes per column.

For best results with lined tubes, always try to cut the form in line with the marks on the outside of the tube, which indicate the location of the internal plastic join. This will result in the best possible finish on the surface of the column.

For columns that are higher than 3 mtrs, it may be easiest to cut laterally around the circumference at intervals of 2.5 to 3.0 mtrs to strip the form as smaller sections.

Due to the ease of removal, Ezytube is often left in place on the column until just prior to hand over. This protects the column from scratches, bumps or other damage by other building works on site.

a. Using 'Ripcord Tape'

Remove bracing at base of tube, chip away any excess concrete that may have run out the base or top of tube which may restrict removal.

The 'Ripcord tape' is approx 18mm in width and is covered by a protective Ezytube tape. The ripcord tape is designed to be strong enough to cut through the Ezytube form without risking cuts to hands etc.

Simply, pull the Ripcord tape away from the tube all the way to the top. Set back approx 1-1.5mtrs to achieve approx 30 degree angle, and pull down evenly on the tape.

Avoid pulling excessively, or pulling down too close to the tube as this may cause the tape to break. In the event that the tape breaks, cut the tube directly beneath the tape with a knife approx 50mm in a downwards direction, pull down on the short tail of tape to continue with the removal process.

When the tape has cut down to approx. 1 mtr from the base of the tube, pull up on the short piece of tape located at the base of the tube to cut through the remaining tube in an upward direction.

Where lined tubes are used, the ripcord tape will remove the outer tube only. The liner is then simply removed by cutting a small section of the tape which joins the plastic and pulling away from the column.

Rip cord tape is not supplied with the foam cored tubes as they are easily removed using a hand held knife.

END
