



Want quicker returns?



Use Tilt-Up



Owner benefits of a **Tilt-Up** building

Tilt-up construction involves on-site casting of large concrete elements (walls, columns, beams and portals) on top of an already cast floor slab. These are lifted into position with a mobile crane, temporarily braced and then connected into a unified structure.

Lower initial costs

- In most cases, tilt-up construction will give you lowest initial cost.
- It uses ready-mixed concrete, and needs no special labour skills, resulting in speedy construction.

Greater financial returns

- Tilt-up is a fast delivery system, so you or your tenants can take occupancy sooner, and accelerate payback on your investment.
- Lettable space is increased since fewer columns are required.

Lower operating costs

- The thermal mass inherent in concrete reduces heating and cooling peaks and loads. Less heating and air conditioning is required and capital cost of equipment is reduced.
- Lower insurance premiums.
 - concrete provides superior fire resistance to comparable buildings in other materials.
 - tilt-up concrete structures have been shown to withstand storms and seismic movement better than similar buildings of other materials.
 - security is better with solid reinforced concrete walls.

Low maintenance requirement

- The exterior can be left unpainted with no damage from the elements.
- Power floated surfaces require no plastering, thus minimising cracks.
- If painting is required, it only needs to be undertaken every 5 - 10 years.
- Concrete interiors are less subject to damage (from fork lifts and trucks) and are easier to wash down.

Architecturally aesthetic

- Any tilt-up structure can be an attractive building in which you can take pride:
 - colour can be added to the concrete (by using pigments or chemical stains).
 - form liners can produce three-dimensional surface effects in an unlimited variety of patterns and textures.
 - surfaces can be made to resemble stone, brick and even timber.
 - exposed aggregate and mechanical tooling can produce dramatic effects.
 - concrete can be moulded and shaped to meet almost any architectural demand.





Easy to expand

- Your tilt-up building can be designed and erected to allow easy expansion, simply by detaching and relocating the concrete panels or cutting new openings.

Highly durable

- Tilt-up structures offer impact resistance, robustness and longevity.
- They are impenetrable to the smallest rodent, insect or the most determined human.
- Structures erected in the 1940's in the USA show little sign of age even today.

Typical applications for Tilt-Up construction

Commercial/Industrial – warehouses, automotive workshops, storage facilities, offices, factories, motels, hotels restaurants, shopping complexes.

Residential – houses, 2-3 storey flats, townhouses.

Rural – farm sheds, piggeries, dairies, water tanks, drainage systems, grain storage, settlement tanks.

Recreational – squash courts, indoor cricket facilities, gymnasiums.

Social Infrastructure – churches, community halls, schools, colleges, prisons.

Other – retaining walls, reservoirs.

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