

Osterberg Cell (O-cell) - expensive heavy and bulky



Yu Cell (Y-cell) – new technology easy handling & mobility in remote area



O-cell

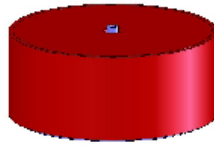
The loads are applied by using hydraulic jack units



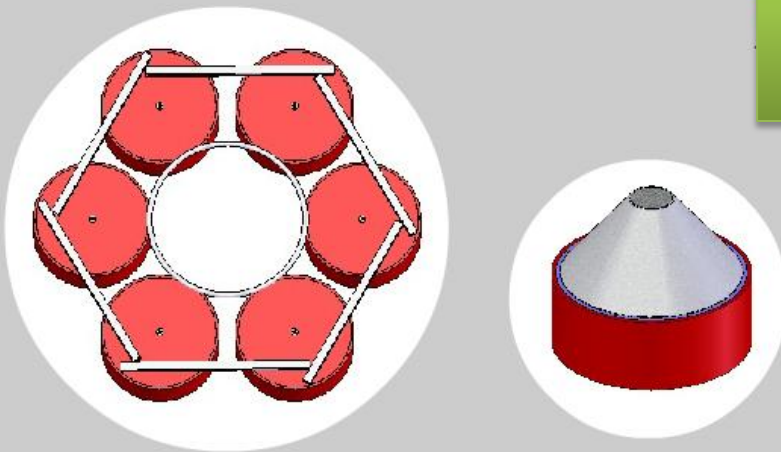
Y-cell vs O-cell

Y-cell

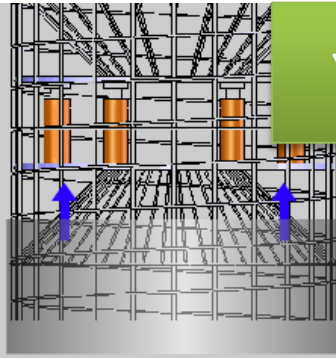
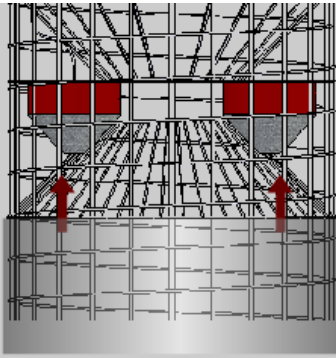
The loads are applied by using hydraulic capsule units



Y-cell vs O-cell

**Y-cell**

The bottom of the capsule cells can be fabricated the cone shape concrete blocks (or steels) in order to ease the concrete flow during concreting



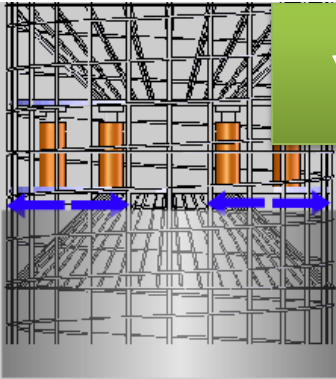
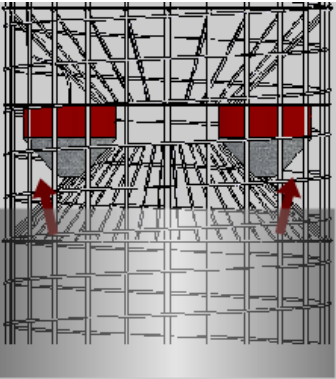
Y-cell vs O-cell

Y-cell

No steel plates and the capsule units only occupy relatively small cross-section, hence the concrete can flow upward easily

O-cell

Steel plates located at bottom & top of the cells which occupy most of the cross-section, hence block the concrete to flow



Y-cell vs O-cell

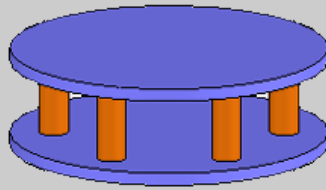
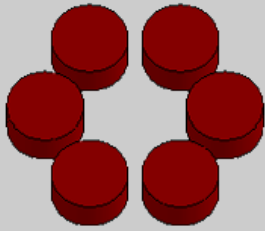
Y-cell

Due to concrete can flow upward easily, hence the contact points at bottom are 100% intact. Accurate measurement.

O-cell

Due to difficulty of concrete to flow, the bottom of the cells may not fully intact. Measurement may not accurate.

Y-cell vs O-cell



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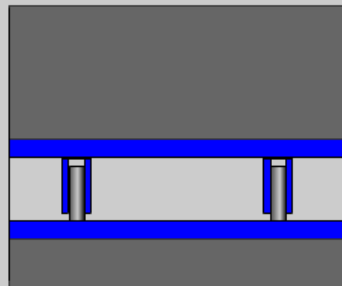
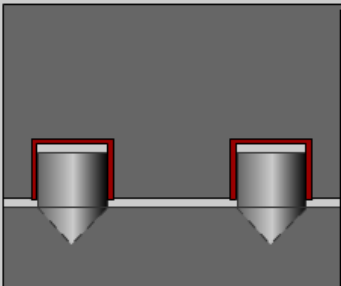
Y-cell

Capsule units only occupy <50% of the cross-section, hence only required 50% grouting area. The pile body at this section has at least 50% of contact surface.

O-cell

The cells occupy most of the cross section. The area at this section may not fully grouted and the pile can be regarded as discontinue at this section.

Y-cell vs O-cell



Y-cell

Capsule units are "inserted" in the pile body, after loading and unloading, the pile body still "holding" together.

O-cell

The plates move and open up the gap at pile body, hence the pile is regarded as discontinue at this section (Integrity Class 4).

Y-cell (to form Y-jack) is a registered trademark and patented technology

Bi-Directional Static Load Test

Y-jack



Advantages

- Y-cells are easy handling and very mobility in remote area.
- Y-cells can be calibrated in factory prior to mobilize to project site.
- Assembly of Y-cells at site is easy and simple.
- Multiple Y-cells can achieve very high load.