

Tycor Precast Concrete Retaining Wall System

The Tycor Retaining Wall System is a precast concrete retaining wall system that can be used in mechanically stabilized embankments, as a facing system for tieback soil anchors, or as a stand-alone gravity wall. It is a universal retaining wall system that can be used in various cut and fill conditions. The system is extremely stable and addresses environmental and aesthetic concerns as well as structural and seismic needs.

Wall batter is achieved by stepping back subsequent members, rather than tilting the structure. The degree of setback is controlled by high strength shear pins placed within the members. These pins guarantee that the designed batter will remain constant over the entire face of the wall, and resist horizontal accelerations during seismic events. The Tycor design eliminates the traditional rear member, and does not require temporary bracing during backfill. This allows efficient mechanized compaction within the cells, and results in a stronger reinforced soil mass. Tycor walls can be constructed in significantly less time than needed for other crib systems. Concrete mix designs and reinforcement of Tycor members can be customized to meet project specific requirements. The finished surfaces of the precast members can be colored to blend with their surroundings or treated with architectural finishes.

The Tycor Retaining Wall System is an open faced, "plantable" system that is easily landscaped and maintained. The front panel, or beam, slopes outward at a 45 degree angle to create planting areas approximately 2 feet in depth and 8 feet in width. These areas accept topsoil and various irrigation systems to sustain a variety of plants. The outward sloping face of the wall beams coupled with the large planting areas discourages graffiti and provides a unique landscape pallet.

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