



M1 Cone



- ▶ The M1 CONE are suited to cover pre-tanks and post digestion tanks. They can be designed to cover the slurry tank for odor containment and rainfall protection or even to be gas tight and to serve as gas single membrane.

- ▶ The M1 CONE domes are used in industrial and agricultural plants. They install quickly and can be manufactured with different quality of materials and shapes to suit the needs of the customers. They can cover round tanks from 10 m to 40 m diameter.



- ▶ The conic shaped covers are supported by a central mast made either in steel or concrete that ensures the required wind and snow resistance. A support structure made with plastic ropes and a net, sustained by a central pole in steel or concrete, is positioned under the gas chamber.





## MAIN COMPONENTS

### ▶ Membrane Cover:

The M1 CONE are manufactured with UV and biogas resistant polyester reinforced PVC membranes seam welded by high frequency electronic machines.

The membrane are reinforced with welded-in PVC coated polyester belts that ensure the great stress resistance of the cover under the loads of snow and rain water.



► **Central Pillar Support:**

On top of the support pillar there is a stainless steel conic shaped connection that fix the membrane to the pillar acting through the reinforced belts that are welded underneath the cover.

Ecomembrane can provide also the central pillar that in that case will be bolted on the concrete surface of the tank bottom and also centered and stabilized with a series of tensioned belts that are anchored around the tank perimeter. With this safety fixing system of the central support pillar is possible to install or remove the conic membrane independently from the pillar speeding the process.



► **Anchorage System:**

The M1 CONE is anchored with a perimeter stainless steel pipe profile that runs in a membrane special pocket.

The bended stainless steel profiles then are connected to the tank external top wall with special ratchets that also can generate the pulling force that give the tension and the final shape to the conic cover.



► **Special Top Entrance Opening:**

On M1 CONE is possible to install special openings (standard sizes L 2 m H = 3 m optional sizes available) that serves as entrance to insert temporary mixing devices or other tools in to the tank.

The openings are furnished with a dedicated foldable membrane screen that can be quickly opened and closed by a single operator. Once terminated the use of the entrance openings the operator will have to close them with ease in order to keep out the rain water and to increase the wind resistance of the cover.

