



Harpoon Tank Pad Preparation

- IMPORTANT: Ground compaction must meet or exceed 95% with no sharp materials.
- Pad should be constructed using clay, road crush or other compactable material.
- Work with customer to identify Harpoon location and direction of fill and suction manifolds. Customer should provide level work surface clear of any sharp objects.
- Mark the location of the suction manifold, as per customer request, and mark a square with the dimensions 12' x 12'.
- Using the suction manifold location as a reference, mark another 12' x 12' square exactly 39'4" away, ensuring that the two are square. This will account for an extra foot of room around each manifold to allow for adjustments.
- Dig out these boxes to an approximate depth of 8". The manifold boxes will be placed into the dug out areas, and levelled at approx. 1" below the grade where the panels will be installed. Use a laser level to confirm the height and level of the placement.
- The top plate of the manifolds must be at or below grade, it cannot be set above grade, as this will affect the setting of the panels.
- Backfill around manifolds once they are in position, creating a smooth transition from pad material to manifold edge.
- Use laser level and equipment (skid steer, excavator, etc) to grade pad to within 0.5" +/- off of level. Ensure a safe working distance at all times when working near heavy equipment. Ensure that the operator makes eye contact and shuts down prior to approaching.
- Spacing around the tank must be at least 25 feet when using a telehandler to set panels, and a minimum of 10 feet when setting panels with a crane.
- Double check the tank pad area for sharp objects, rocks or any other potential hazards to the liner.

