



Spherical Head Installation Recommendations

Although many factors will determine the best way to properly install a preformed head system we feel that this may be the best way to successfully install our system. Please note that scaffolding location, manpower and actual design conditions also will play a part in the process.

Surfaces shall be insulated in accordance with the requirements of the specifying engineer's instructions for insulation of vessels. Following are general guidelines by Extol for installation procedures of Extol of Ohio's preformed, contoured head systems.

- 1. It is critical to locate the top center of the sphere. – After finding the center of the sphere, measure down to the true equator on all 4 quadrants marking the vessel. Mark lines on the vessel from the top to the true equator at equal intervals on each quadrant. Use an increment such as every 1-foot or 2 foot so that you can use it as a reference point while installing each course. If at all possible it would be an advantage to weld or adhere a pin on the center point to hook a tape measure on so that you can accurately measure how far down the vessel you are working.**
- 2. Locate and install the centerpieces on the very center of the sphere. Make sure that this is accurately centered with equal distances to the equator on all sides. This will act as the starting point for your first course.**
- 3. Locate and install course number 1 making sure that all joints are pressed firmly against each other minimizing gaps between each piece. As you are installing each course, periodically measure the distance from the center point of the sphere and the distance to the true equator. This will ensure that the courses are being installed straight. If you used a tape measure hooked to a pin at the top center of the sphere it will give you an accurate measurement. If you marked lines with periodic increments onto the vessel, make sure that distances are equal on all sides.**
- 4. Follow step 3 for the remainder of the courses, making sure that they are installed straight with equal distances from the top on all sides of the sphere and equal distances on all sides to the true equator.**



This is a general guideline to install our system. You may experience that you have a more efficient way to install the system. Regardless of the method used, it is critical that each course be installed straight all of the way around the sphere with equal distance from the top center and the equator.