**Thermoformed Vessel Heads Provide Highest Liner Reliability in the Market**

**Pie-Shaped Head Sections**
- Pie-sections 'approximate' the head shape, but leave gaps with improper fit & inadequate adhesion to tank surfaces
- Air welds are inherently high stress, which can lead to premature liner failure
- More sections require substantially more air welds and each weld becomes an additional risk site for liner failures

**Edlon Fusion Welded & Formed Head**
- Heads thermoformed for exact fit and exceptional bondability to substrate
- Pure fusion welds used as principal sheet joining method
- Less seams = Less possibility for problems
- Use of low stress design and fusion welds greatly improves liner life

**Edlon lined vessel heads are fabricated using proprietary techniques that allow us to offer vastly superior product over our competition:**

**Thermoforming:**
Vessel and tank heads fabricated at Edlon, Inc. are thermoformed and installed as a single piece. The industry-standard of installing vessel heads in pie-shaped sections results in unnecessary air and hand welds which increase the chance for failure along a liner seam. On a 10 ft. diameter tank, pie-shaped head sections could mean up to 140 ft. of unneeded hand welds.

**Reduction of Air and Hand Welds:**
Air and hand welds found in the industry-standard lined tank create areas that are easily susceptible to stress-cracking and other modes of failure leading to debonding. Edlon fusion-welds all welded joints whenever possible to ensure that our lined products will stand up to and last in the harshest of process conditions.

**Fusion Welded Nozzles:**
Where possible, Edlon's nozzles are fusion-welded into the vessel liner. Fusion welded seams offer strengths nearly identical to the liner matrix material. In addition, fusion welds significantly reduce stress and risks of stress-cracking typically associated with air and hand welds in stress areas.

**Reduction of High Stress Areas:**
Elimination of air and hand welds from vessel heads means that the high stress areas found around all nozzle and liner seams are drastically reduced. Permeation through a weak air weld, one of the most common modes of failure in a lined tank, is much less of a concern when all welds are fusion-welded, and high stress areas are eliminated.