

## Additional advantages of 'Omega Section' continuous cold roll formed limpet coil

### Technical Advantages

- Profile with Weld Edge: Omega section is designed to completely eliminated weld edge preparation process prior to welding of limpet coil.
- Efficiency: Omega cross-section have higher heat transfer area compared to half round cross-section; which provides around 10-12% better efficiency.
- Higher Pitch: while depth of the Omega section is similar to half round section but width is higher, which would result in 7-8% higher pitch.
- Burr Free Profile: Elimination of grinding/machining would also elimination of burr generation during such processes which is one of the sources for beginning of contamination.
- Better Suited for Full Penetration Welding: As the profile offers point contact with the shell, it offers better prospects for full penetration welding.
- No Weakening of Section: Unlike conventional method of weld edge preparation where material is removed by grinding/machining, omega profile provides weld edge without material removal. Hence weakening of section does not happen.
- No Material Loss: As no grinding/machining is weld preparation, base material is not wasted.

### Cost Benefits

- Material Saving: due to better heat transfer efficiency, total length of limpet coil required for desired heat transfer reduces which saves material and in turn cost of the project.
- Saving in Consumable Cost: As no grinding/machining is weld edge preparation, cost of consumable for these processes is saved.
- Saving in Labor Cost: As the entire process of weld edge preparation is eliminated, labor cost is also saved.

### Time Saving

- Time Saving: Omega Limpet Coil offers significant time saving compared to conventional method as weld edge preparation process is eliminated.