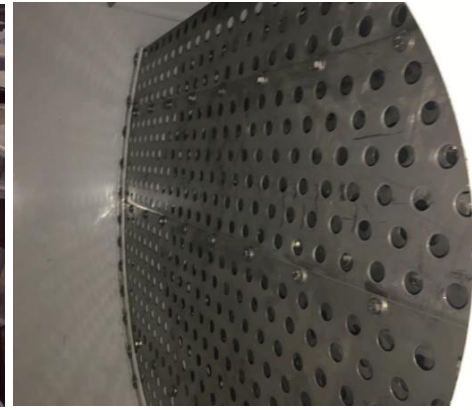
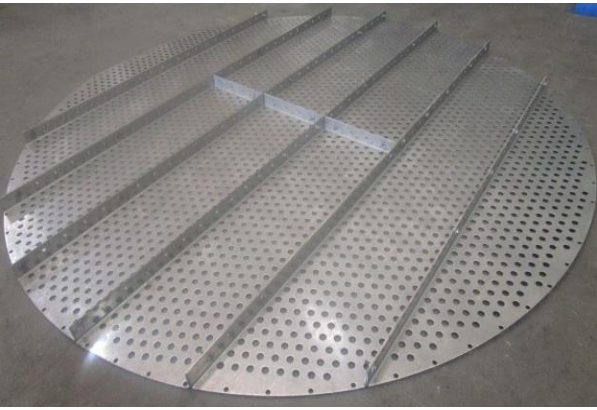


Calming Baffle / Distribution Plate

Baffles



Calming Baffles are internals used in horizontal vessels for various reasons. These baffles are perforated plates with net open areas of 10%, 20%, 30%, or 50% with various hole sizes ranging from $\frac{1}{2}$ " to larger. The baffles usually cover the liquid flow cross sectional area of horizontal 2-phase and 3-phase separators and can be designed to extend in the vapor flow area of 3-phase separators to minimize the vapor maldistribution.

The Calming Baffles are used in single or double plate arrangements and shall be installed upstream of coalescing internals. Its main function is to dissipate turbulence and ensure uniform distribution of liquid across vessel cross-sectional area for effective and optimized liquid/liquid separation

In case of heavy solid foulant or waxy nature of fluids, larger holes sizes with a cut-back at the bottom will be used and/or cap distribution baffles will be employed.

Applications

- 2 phase liquid-liquid separators
- 3 phase gas-liquid-liquid separators
- FPSO

Advantages

- Provide uniform distribution
- Improves separation performance
- Prevent liquid and vapor maldistribution
- Optimizes liquid residence time inside separators
- Minimizes liquid mixing
- Prevents dead-zones in separator
- Break liquid waves
- Wide operating range
- Maintenance free

