

Column Tray-Shed Tray**Product Coding**
P11.....**Introduction**

Shed tray is a non-perforated, gravity driven liquid distribution device used in packed columns to provide uniform liquid spreading across the packed bed below it. It consists of multiple rows of inclined "shed" plates arranged in parallel, allowing liquid to cascade from one plate to the next, forming controlled overflow weirs along the edges.

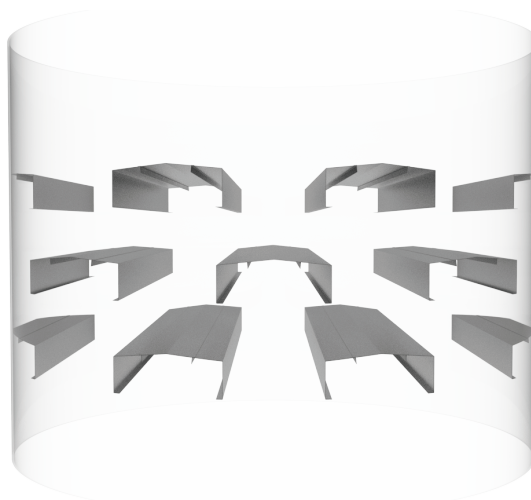
Features

- **Multiple inclined shed plates:** Rows of smooth, angled plates arranged to direct liquid downward
- **Frame and support structure:** Mounted plates on a robust support frame that aligns and levels the tray inside the tower, designs include segmented plates for easy installation through manways
- **Overflow edges/drip points:** Each plate has a straight or serrated drip edge where the liquid "sheds" downward, and provides even droplet distribution onto the bed or lower shed plates.
- **Materials of construction:** S304, S316L, Duplex, FRP, or other corrosion resistant materials depending on service.
- **Excellent anti-fouling behavior:** Ideal for dirty or scaling liquids where perforations or orifices would plug.
- **Uniform liquid spreading:** Cascading over multiple plates ensures wide-area distribution to the packed bed.
- **Low maintenance and simple construction:** No small holes, no complex mechanical components, and easy to clean.
- **Low pressure drop:** Open, non-restrictive design minimizes hydraulic resistance.

- **High mechanical strength:** Robust plate and support structure handles industrial loads, solids, and temperature swings.
- **Adaptable Geometry:** Plate spacing, angle, and segment width can be tailored for hydraulic load and tower diameter.
- **Suitable for high liquid loads:** Efficiently handles large flow rates without flooding or maldistribution.
- **Cost effective design:** Economical compared to advanced distributor trays, especially in foul-prone environments.

Applications

- Absorption and scrubbing towers handling dirty gases or fouling liquids
- Distillation columns with slurry or polymerizing components
- Caustic wash towers and amine scrubbers
- Absorption
- Liquid/liquid extraction systems
- Severe fouling services



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