



## Cooling Tower Parts

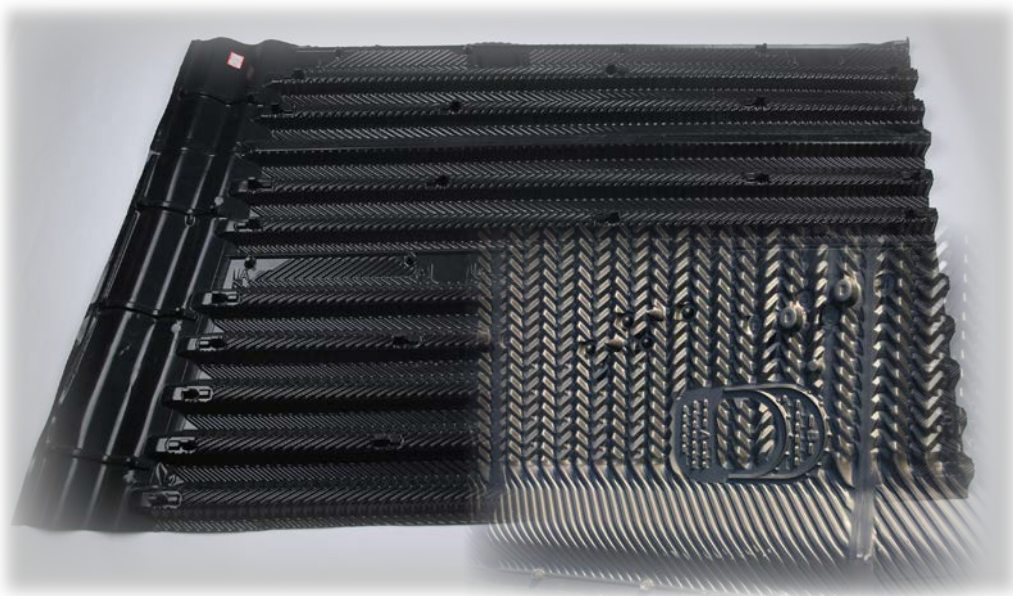
Specialize in Commercial and Industrial PVC Fills Since 1976.

Hebei RuiD Cooling Tower Parts Manufacturer Co., Ltd. was founded in 1976 and rapidly increased its activities in the FRP Cooling Tower material production market.

We operate the art productions facilities, combining the resources necessary for design, development and manufacture of advanced PVC & CPVC products from cutting-edge technologies for the chemical and food industries, Water & Air Cooling waste water treatment and water supply.

RuiD quickly became the leader in the Cooling Tower China composite industry. Our Cooling Tower Parts is involved in many mega-size cooling tower projects, providing a total solution of detailed design, production for the process industry, water treatment industry and more.

Our goal is to be the leader in providing commercial and industrial PVC Fills for our clients' needs.



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# PVC Cooling Tower Fills

Many modern cooling towers utilize efficient plastic film fills that maximize surface area for evaporative cooling. Water is distributed onto the fill and spreads into a thin film, increasing the air-water interface and allowing waste heat to evaporate at an accelerated rate. The main factors driving fill selection are Total Suspended Solids (TSS) levels, water make-up, intended treatment, and potential for contamination.

## ■ Technical Parameters

- **Material:** PVC.
- **Fire classification:** M2.
- **Typical sheet size:** As requested.
- **Color:** Black, blue or transparent.
- **With 42% Oxygen Index.**
- **Working Temperature 65 °C.**

## Feature ■

- Film fills to fit any application, any water quality level.
- Widest range of flute geometries to control fouling.
- High thermal performance options.
- New tower construction as well as retrofit applications.

## ■ Available Styles



### ▶ **Model No.: RDFill-01**

- **Brand:** BAC
- **Size:** 1220 × 1300 mm
- **Thickness:** 0.30–0.35 mm
- **Flute:** 19 mm

### **Model No.: RDFill-02** ▶

- **Brand:** BAC
- **Size:** 1333 mm × any length
- **Thickness:** 0.28–0.33 mm
- **Flute:** 19 mm







### Model No.: RDFill-03

- **Size:**
  - 915 mm × any length
  - 1220 mm × any length
- **Thickness:** 0.28–0.33 mm
- **Flute:** 19 mm

### Model No.: RDFill-04

- **Brand:** Japan KUKEN
- **Size:**
  - 750 × 2000 mm
  - 930 × 2000 mm
- **Thickness:** 0.28–0.33 mm
- **Flute:** 18 mm



### Model No.: RDFill-05

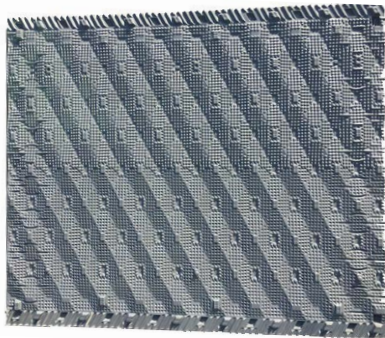
- **Brand:** China LIANGCHI
- **Size:**
  - 750 × 800 mm
  - 750 × 1600 mm
  - 750 × 1000 mm
- **Thickness:** 0.28–0.33 mm
- **Flute:** 20mm



### Model No.: RDFill-06

- **Brand:** KS
- **Size:** 610 × 1200 mm
- **Thickness:** 0.28–0.33 mm
- **Flute:**
  - 12 mm
  - 19 mm



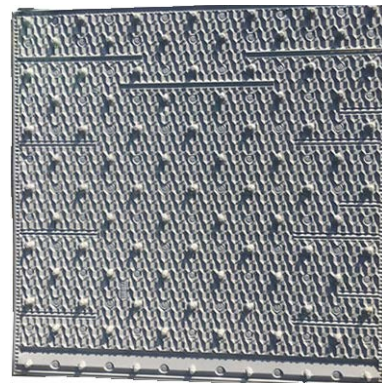


**Model No.: RDFill-07**

- **Brand:** SPINDLE
- **Size:**
  - 850 × 1000 mm
  - 1300 × 1000 mm
- **Thickness:** 0.28–0.33 mm
- **Flute:** 16 mm

**Model No.: RDFill-08**

- **Brand:** SHINWA/EBARA
- **Size:** 950 × 950 mm
- **Thickness:** 0.28–0.33 mm
- **Flute:** 20 mm



**Model No.: RDFill-09**

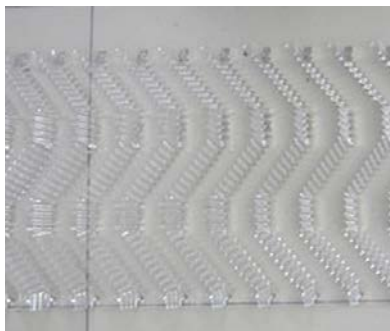
- **Brand:** ShangY
- **Size:**
  - 800 × 1000 mm
  - 800 × 1200 mm
- **Thickness:** 0.28–0.33 mm
- **Flute:** 16 mm



**Model No.: RDFill-10**

- **Brand:** Black S
- **Size:** 500 × 1030 mm
- **Thickness:** 0.28–0.33 mm
- **Flute:** 35 mm



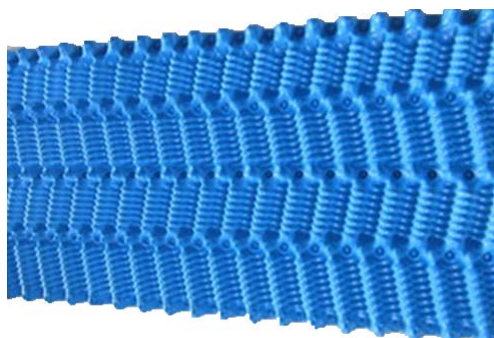


### **Model No.: RDFill-011**

- **Brand:** Transparent S
- **Size:** 500 × 1030 mm
- **Thickness:** 0.28–0.33 mm
- **Flute:** 35 mm

### **Model No.: RDFill-012**

- **Brand:** Dual Inclin
- **Size:**
  - 500 × 1000 mm
  - 500 × 2000 mm
- **Thickness:** 0.28–0.33 mm
- **Flute:** 33mm



### **Model No.: RDFill-013**

- **Brand:** Air Inlet Louver
- **Size:** 350 × 1000 mm
- **Thickness:** 0.28-0.33 mm
- **Flute:** Order



### **Model No.: RDFill-014**

- **Brand:** Transparent Dual Line
- **Size:** 500 × 1000 mm
- **Thickness:** 0.28–0.33 mm
- **Flute:** 25 mm



### **Model No.: RDFill-015**

- **Brand:** Seagull
- **Size:** 500 × 2000 mm
- **Thickness:** 0.30–0.35 mm
- **Flute:** 22 mm





# CPVC Cooling Tower Fills

CPVC cooling tower fill is an advanced products of PVC fills. The main materials of CPVC fills are chlorine and polyvinyl chloride. It has excellent high temperature resistance, chemical resistance, high mechanical strength and fire resistance performance.

## ■ Technical Parameters

- **Material:** CPVC, polycarbon, ABS or other.
- **Material grade:** Flame spread rate not to exceed 25 per ASTM E-84.
- **Working temperature:** 75 °C to 85 °C.
- **Tensile strength:** 6300 PSI.
- **Standard:** ISO 9001:2008.
- **Typical sheet size:** As request.
- **Color:** Black, blue, transparent or other customized colors.
- **With 42% oxygen index.**

## ■ Feature

- **Extremely high temperature resistance.**

Compared with PVC fills and PP fills. The maximum working temperature of PVC fills are 65 °C and PP is 90 °C. The maximum working temperature of C can achieve 100 °C. It can supplies maximum pressure loading capacity but also supplies longest service life in the high temperature environments.

- **Corrosion resistance.**

The high content of chlorine element supplies excellent chemical stability, it can resist acid, alkali, salty and other organic solvent.

- **Fire resistance performance.**

Fire resistance is the most outstanding performance of CPVC cooling tower fills. It can neither be self-burning nor contribute to burning. The LOI (Limiting Oxygen Index) can achieve 46, which is the most highest grade of fire resistance.



## Available Styles

### Model No.: CPVC Cooling Tower Fill 01

- **Material:** CPVC
- **Brand:** Japan KingSun
- **Size:**
  - 1220 × 610 mm
  - 1800 × 305 mm
- **Thickness:** 0.30 mm
- **Flute:** 12 mm



### Model No.: CPVC Cooling Tower Fill 02

- **Material:** CPVC
- **Size:**
  - 915 mm × any length
  - 1220 mm × any length
- **Thickness:** 0.30 mm
- **Flute:** 19 mm



### Model No.: CPVC Cooling Tower Fill 03

- **Material:** CPVC
- **Brand:** Brentwood
- **Size:** 1220 mm × 610 mm
- **Thickness:** 0.28 mm
- **Flute:** 19 mm



### Model No.: CPVC Cooling Tower Fill 04

- **Material:** CPVC
- **Brand:** Mayrly HoneyComb Drift Eliminator
- **Size:**
  - **Width:** 50 mm/60 mm/70 mm
  - **Length:** 120 mm/1300 mm
- **Thickness:** 0.30 mm
- **Flute:** 20 mm



### Model No.: CPVC Cooling Tower Fill 05

- **Material:** CPVC
- **Brand:** BAC
- **Size:** 1220 × 1300 mm
- **Thickness:** 0.33 mm
- **Flute:** 19 mm



### Model No.: CPVC Cooling Tower Fill 06

- **Material:** CPVC
- **Brand:** Japan Kuken
- **Size:**
  - 750 × 2000 mm
  - 930 × 2000 mm
- **Thickness:** 0.30 mm
- **Flute:** 18 mm



### Model No.: CPVC Cooling Tower Fill 07

- **Material:** CPVC
- **Brand:** BAC
- **Size:** 1300 mm width × any length
- **Thickness:** 0.33 mm
- **Flute:** 19 mm



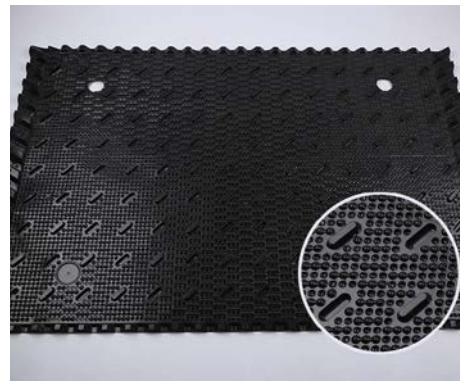
### Model No.: CPVC Cooling Tower Fill 08

- **Material:** CPVC
- **Brand:** Liangchi
- **Size:**
  - 750 × 1600 mm
  - 750 × 800 mm
- **Thickness:** 0.30 mm
- **Flute:** 20 mm



**Model No.: CPVC Cooling Tower Fill 09**

- **Material:** CPVC
- **Brand:** SY
- **Size:** 1200 × 800 mm
- **Thickness:** 0.32 mm
- **Flute:** 16 mm



**Model No.: CPVC Cooling Tower Fill 10**

- **Material:** CPVC
- **Size:** 915 mm width × any length
- **Thickness:** 0.30 mm
- **Flute:** 19 mm



**Model No.: CPVC Cooling Tower Fill 11**

- **Material:** CPVC
- **Brand:** Spindle
- **Size:** 850 × 1000 mm
- **Thickness:** 0.35 mm
- **Flute:** 16 mm



**Model No.: CPVC Cooling Tower Fill 12**

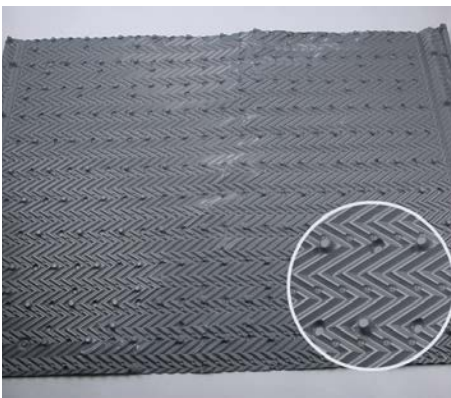
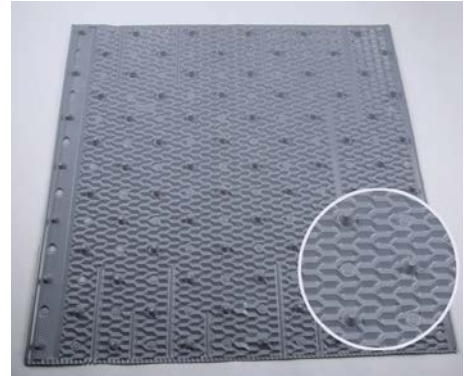
- **Material:** CPVC
- **Brand:** Spindle
- **Size:** 850 × 1000 mm
- **Thickness:** 0.35 mm
- **Flute:** 16 mm





**Model No.: CPVC Cooling Tower Fill 13**

- **Material:** CPVC
- **Brand:** Renyuan
- **Size:** 950 × 950 mm
- **Thickness:** 0.33 mm
- **Flute:** 20 mm

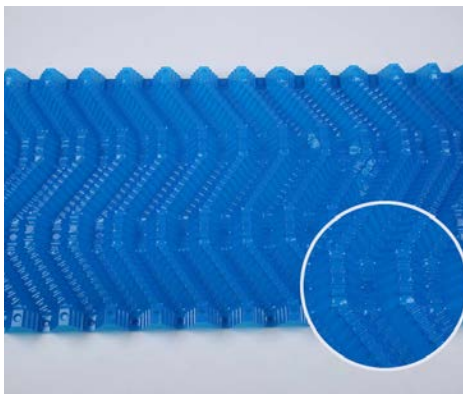
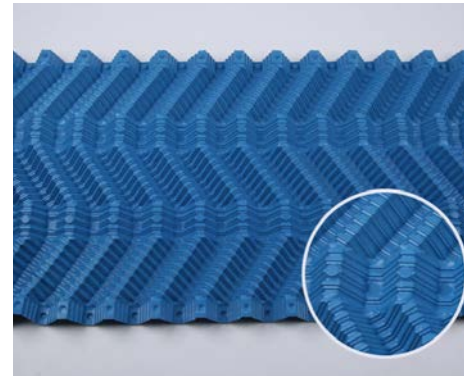


**Model No.: CPVC Cooling Tower Fill 14**

- **Material:** CPVC
- **Brand:** Spindle
- **Size:** 1000 × 1000 mm
- **Thickness:** 0.33 mm
- **Flute:** 16 mm

**Model No.: CPVC Cooling Tower Fill 15**

- **Material:** CPVC
- **Brand:** S
- **Size:** 1000 × 500 mm
- **Thickness:** 0.30 mm
- **Flute:** 35 mm



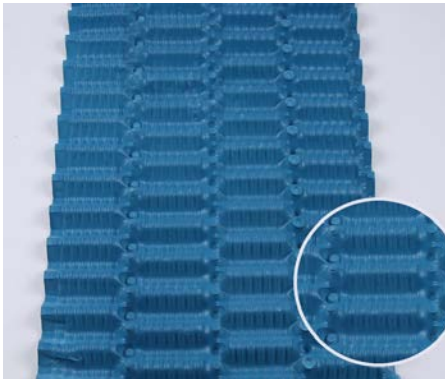
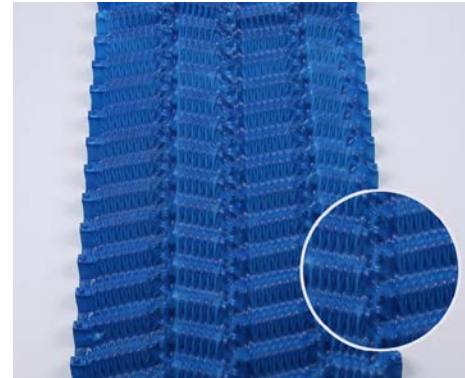
**Model No.: CPVC Cooling Tower Fill 16**

- **Material:** CPVC
- **Brand:** S
- **Size:** 1000 × 500 mm
- **Thickness:** 0.30 mm
- **Flute:** 30 mm



**Model No.: CPVC Cooling Tower Fill 17**

- **Material:** CPVC
- **Brand:** Dual Inclin
- **Size:**
  - 500 × 1000 mm
  - 500 × 2000 mm
- **Thickness:** 0.28–0.33 mm
- **Flute:** 33 mm



**Model No.: CPVC Cooling Tower Fill 18**

- **Material:** CPVC
- **Brand:** Offset
- **Size:** 500 × 1000 mm
- **Thickness:** 0.30 mm
- **Flute:** 25 mm

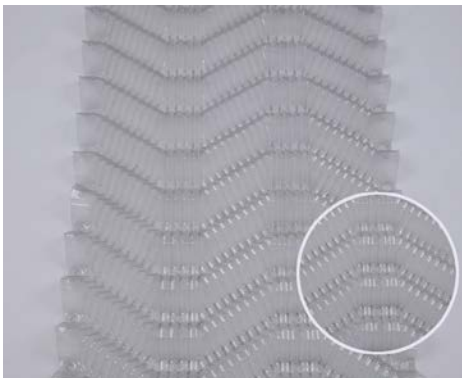
**Model No.: CPVC Cooling Tower Fill 19**

- **Material:** CPVC
- **Brand:** Japan LINGSUN
- **Size:**
  - 300 × 1200 mm
  - 600 × 1200 mm
- **Thickness:** 0.28–0.32 mm
- **Flute:** 19 mm



**Model No.: CPVC Cooling Tower Fill 20**

- **Material:** CPVC
- **Brand:** Transparent S
- **Size:** 500 × 1030 mm
- **Thickness:** 0.28–0.33 mm
- **Flute:** 35 mm



## Honeycomb Fills

Honeycomb fills are precipitation packings developed based on shallow settlement. It has large wetted perimeter, small hydraulic radius. When operating, the honeycomb fills can supply good laminar conditions and ensure the high efficiency of particle precipitation without being disturbing by the turbulent flow. Additional, it can speed up the filtration of water and particle and shorten precipitation distance.

### ■ Feature

- Firm structure.
- Large wetted perimeter.
- Small hydraulic radius
- Small volume.
- Large specific surface area.
- Anti-corrosion.
- Anti-aging.
- Temperature resistance.
- Easy cleaning.
- High treating efficiency.
- Low maintenance.
- Safe and non-toxic.
- Wide range of applications.

Table 1: Common Specs of Honeycomb Fills

Item	Material	Specification	Raw Material Thickness (mm)	Sheet Quantity (pieces/m <sup>3</sup> )	Density (m <sup>3</sup> /mt)	Weight (kg/m <sup>3</sup> )
HFS-01	PVC	25	0.45	80	17.2	58
HFS-02	PVC	30	0.45	68	20.8	48
HFS-03	PVC	35	0.5	40	22.2	45
HFS-04	PVC	40	0.5	50	25	40
HFS-05	PVC	50	0.6	30	25	40
HFS-06	PVC	80	0.8	20	28.6	35
HFS-07	PP	25	0.5	80	22.2	45
HFS-08	PP	30	0.5	68	27.8	36
HFS-09	PP	35	0.5	40	23	32
HFS-10	PP	40	0.5	50	37	27
HFS-11	PP	50	0.6	30	21	28
HFS-12	PP	80	0.8	20	27	-

## Available Styles

### 1. By material

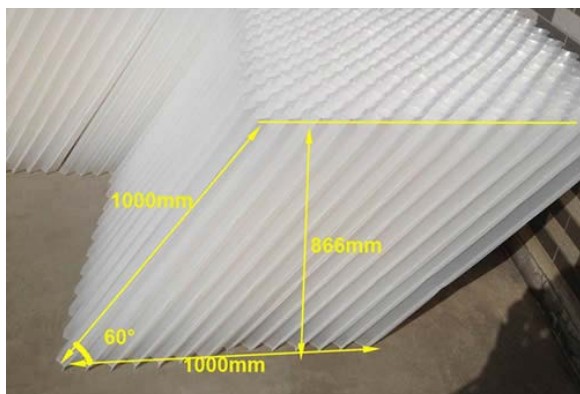


PP material honeycomb fill pack



PVC material honeycomb fill pack

### 2. By assemble structure



Inclined type honeycomb fill



Straight type honeycomb fill

### 3. By color



White color honeycomb fill



Blue color honeycomb fill



Black color honeycomb fill



#### 4. By function

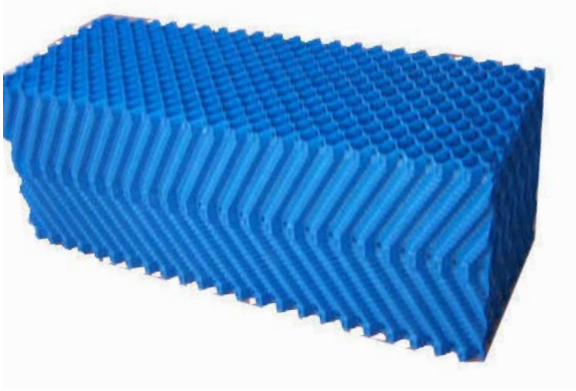


Honeycomb cooling tower fill

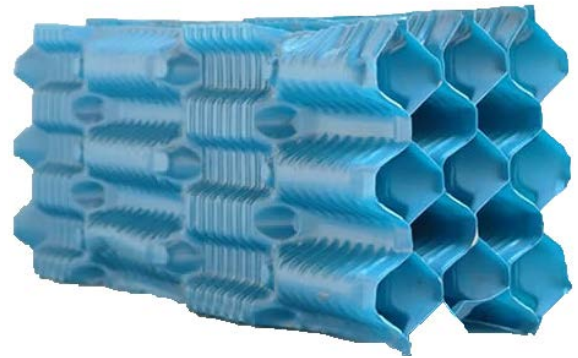


Honeycomb drift eliminator

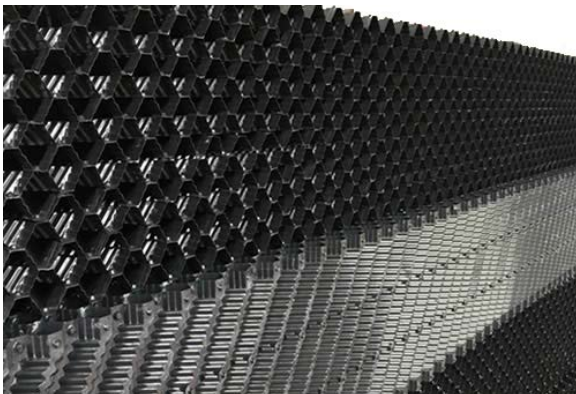
#### 5. Other types of honeycomb fills



Counter flow honeycomb fills



Biphasic weave honeycomb fills



Oblique weave honeycomb fills



Crossflow type honeycomb fills



# High-temp Resistant Cooling Tower Fills

Many modern cooling towers utilize efficient plastic film fills that maximize surface area for evaporative cooling. Water is distributed onto the fill and spreads into a thin film, increasing the air-water interface and allowing waste heat to evaporate at an accelerated rate. The main factors driving fill selection are Total Suspended Solids (TSS) levels, water make-up, intended treatment, and potential for contamination.

## ■ Technical Parameters

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- **Material:** CPVC, Polycarbon, ABS or other.
- **Material grade:** Flame Spread Rate Not to Exceed 25 Per ASTM E-84.
- **Tensile strength:** 6300 PSI.
- **Standard:** ISO 9001:2008 (laf). Required certification shall be provided later.
- **Working temperature 75 °C to 85 °C.**
- **With 42% oxygen index.**

## ■ Feature

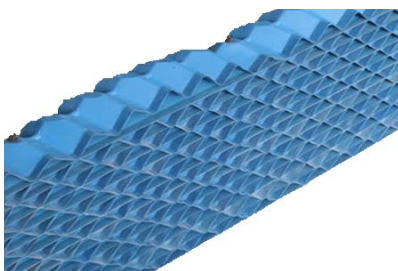
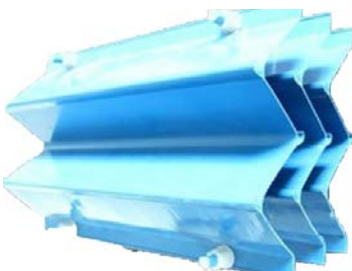

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- Film fills to fit any application, any water quality level.
- Widest range of flute geometries to control fouling.
- High thermal performance options.
- New tower construction as well as retrofit applications.

## Air Inlet Louvers & Drift Eliminator

Drift eliminators are used to control water loss from a cooling tower by limiting the amount of circulating water droplets that are emitted with the exhaust air of the tower. Since drift droplets contain the same chemical and particulate matter of the circulating water from which they originate, they can cause numerous detrimental effects on surrounding equipment and the environment. The cooling tower industry uses drift rate to compare drift eliminator performance, a relationship that correlates droplet capture efficiency to the water circulation rate in a tower. RUID's drift eliminators are specifically designed to achieve maximum drift removal efficiency in both crossflow and counterflow tower applications with various product options available to minimize pressure drop, drift loss, cost, or a combination of all three.

		
<p><b>Model No.:</b> RD-DE-01</p> <ul style="list-style-type: none"> <li>● <b>Brand:</b> BAC Drift Eliminator</li> <li>● <b>Size:</b> 140 mm × any length</li> </ul>	<p><b>Model No.:</b> RD-DE-02</p> <ul style="list-style-type: none"> <li>● <b>Brand:</b> Ruid Drift Eliminator</li> <li>● <b>Size:</b> 140 mm × any length</li> </ul>	<p><b>Model No.:</b> RD-DE-03</p> <ul style="list-style-type: none"> <li>● <b>Brand:</b> Evapco</li> <li>● <b>Size:</b> 140 mm × any length</li> </ul>
		
<p><b>Model No.:</b> RD-DE-04</p> <ul style="list-style-type: none"> <li>● <b>Brand:</b> PVC Air Inlet Louver without flat sheet</li> <li>● <b>Size:</b> 140 mm × any length</li> </ul>	<p><b>Model No.:</b> RD-DE-05</p> <ul style="list-style-type: none"> <li>● <b>Brand:</b> PVC Air Inlet Louver with flat sheet</li> <li>● <b>Size:</b> 140 mm × any length</li> </ul>	<p><b>Model No.:</b> RD-DE-06</p> <ul style="list-style-type: none"> <li>● <b>Brand:</b> AIR LOUVER</li> <li>● <b>Size:</b> 355 × 1000 mm</li> </ul>

		
<p><b>Model No.:</b> RD-DE-07</p> <ul style="list-style-type: none"> <li>● <b>Brand:</b> Blade Type Drift Eliminator</li> <li>● <b>Size:</b> 140 mm × any length</li> </ul>	<p><b>Model No.:</b> RD-DE-08</p> <ul style="list-style-type: none"> <li>● <b>Brand:</b> Spig Drift Eliminator</li> <li>● <b>Size:</b> 140 mm × any length</li> </ul>	<p><b>Model No.:</b> RD-DE-09</p> <ul style="list-style-type: none"> <li>● <b>Brand:</b> Drift Eliminator</li> <li>● <b>Size:</b> 175 × 30 mm</li> </ul>
		
<p><b>Model No.:</b> RD-DE-10</p> <ul style="list-style-type: none"> <li>● <b>Brand:</b> Multi Wave</li> <li>● <b>Size:</b> 160 mm × 45 mm</li> </ul>	<p><b>Model No.:</b> RD-DE-11</p> <ul style="list-style-type: none"> <li>● <b>Brand:</b> Multi Dimension</li> <li>● <b>Size:</b> 140 mm × any length</li> </ul>	<p><b>Model No.:</b> RD-DE-12</p> <ul style="list-style-type: none"> <li>● <b>Brand:</b> M Shape Eliminator</li> <li>● <b>Size:</b> 160 mm × 40 mm</li> </ul>
		
<p><b>Model No.:</b> RD-DE-13</p> <ul style="list-style-type: none"> <li>● <b>Brand:</b> Water Eliminator</li> <li>● <b>Size:</b> 145 × 21 mm</li> </ul>	<p><b>Model No.:</b> RD-DE-14</p> <ul style="list-style-type: none"> <li>● <b>Brand:</b> S DRIFT ELIMINATOR</li> <li>● <b>Size:</b> 220 mm × any length</li> </ul>	<p><b>Model No.:</b> RD-DE-15</p> <ul style="list-style-type: none"> <li>● <b>Brand:</b> Brentwood Drift Eliminator</li> </ul>

## PP Cooling Tower Fills

PP cooling tower fill, an alternative to the PVC cooling tower fills, is made of polypropylene material with superior quality and features. PP cooling tower fill is suitable for counter flow and cross flow cooling towers. It is widely used in power station cooling towers, process cooling towers, air conditioning cooling towers.

### ■ Feature

- **High temperature resistance.**

It features higher temperature resistance than PVC cooling towers. It can remain good performance in the high temperature up to 90°C while the 65°C of PVC fill to ensure good performance in more applications.

- **Welded bonding technology.**

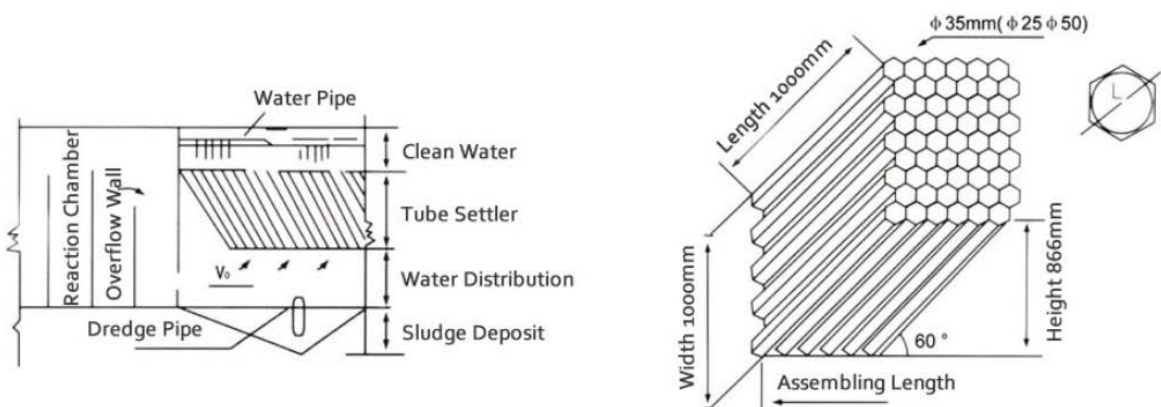
Another advantage of PP cooling tower fill is the attachment of block. As we all know, the PVC fills is glued together into blocks. But the PP cooling tower fills are welded into accurate honeycomb opening at the surface of the fill blocks. In this way, it can prevent PP cooling tower fill breaking up over time and breaking down of the PP fill blocks.



# Lamella Clarifier Inclined Settler

A lamella clarifier or inclined plate settler (IPS) is a type of high efficient settler designed to remove particulates from liquids. Compared with conventional clarifier, treatment capacity of lamella clarifier is increased 7-10 times. In this system, the inclined tube settler is the most important component.

The inclined settler can be made into plate or blocks, which is known as the corrugated plate settler for lamella clarifier and inclined tuber settler for lamella clarifier. Raw materials are made into PP sheet, then the PP sheet are pressed and corrugated into inclined sheets. Then cut them into suitable pieces to form the inclined plates. The inclined plates can be assembled into inclined tube/blocks settlers as customers requirements.



Lamella clarifier inclined tube settler has high efficient solid and liquid filtering performance.

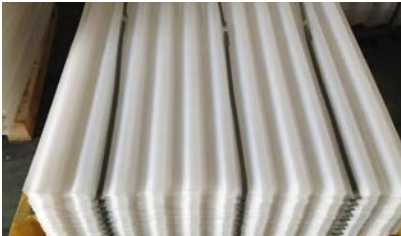
## ■ Technical Parameters

- **Material:** PP.
- **Aperture:** 25 mm, 30 mm, 35 mm, 40 mm, 50 mm, 60 mm and 80 mm.
- **Thickness:** 0.45–0.8 mm.
- **Plate/block pitch angle:**  $45^\circ$  to  $70^\circ$ .
- **Tube/plate length:** 1–2 m.
- **Sheet size:** Commonly is  $1000 \times 1000$  mm.
- **Block size:** Commonly is  $1000 \times 1000 \times 86$  mm.

## ■ Feature

- Large wetted perimeter.
- Small hydraulic radius.
- Corrosion and rust resistance.
- Chemical stability.
- Temperature resistance.
- High purifying performance.
- High treating capacity.
- Physical treatment instead of chemicals.
- Cost saving and economical.
- Non-toxic and will not pollute the water or surrounding environments.
- COD removal rate up to 60% – 70%.
- Color removal rate up to 60% – 90%.

## Types ■



Corrugated plate for lamella clarifier



Inclined tube settler for lamella clarifier

## Application ■



Inclined tube settlers are used in the lamella clarifier



Inclined tube settler is used to purify waters in water treatment applications

## Cooling Tower Parts ■



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