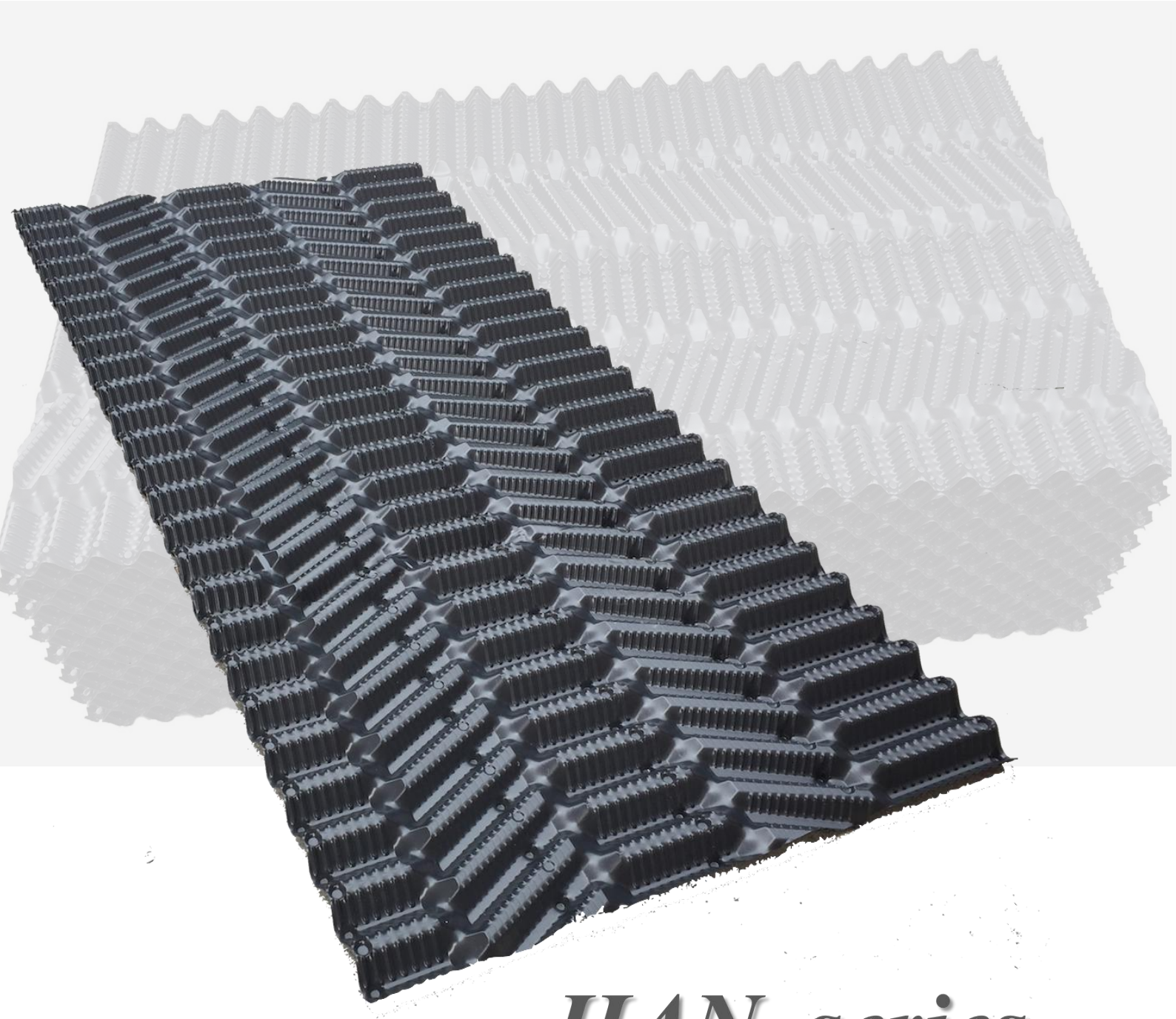
COUNTER FLOW FILM FILL



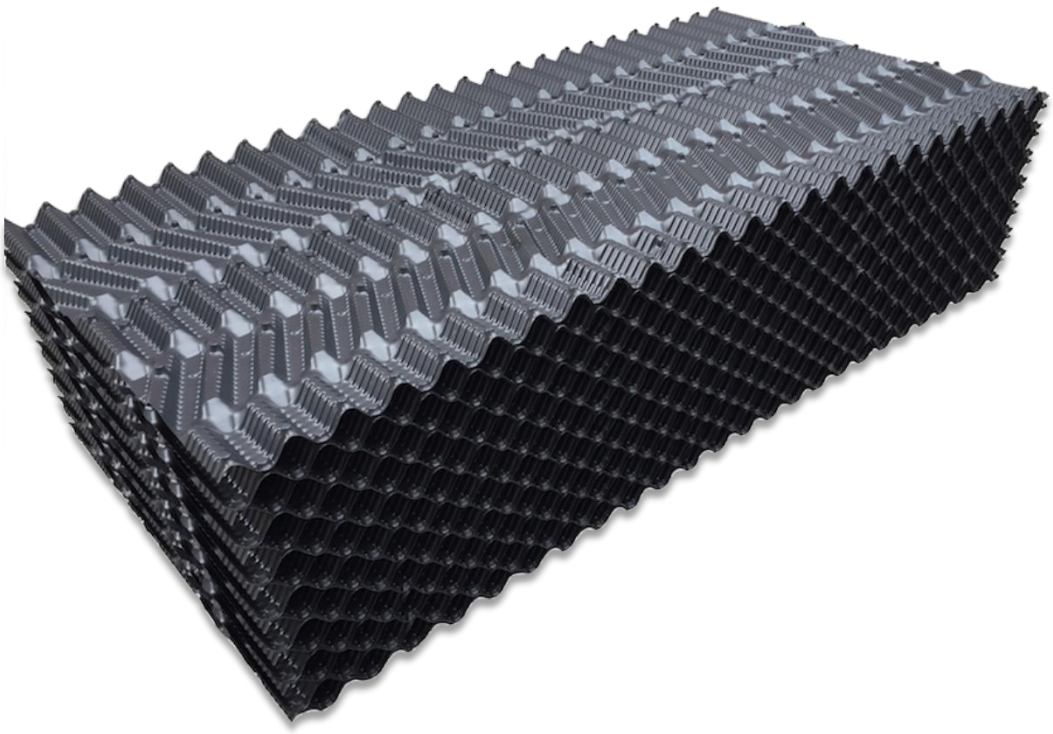
HAN series

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Counter Flow Film Fill

HAN Series



Newin HAN Film Fill Applicable for Hamon cooling tower, any induced draft or natural draft cooling tower, specially designed to induce highly turbulent mixing of the air and water for superior heat transfer.The fill is constructed of PVC, the structural integrity of the fills is greatly enhanced, excellent fire resistant qualities.

Good laminar flow state, and the particle settlement is not disturbed by turbulence, excellent fire resistant qualities.100% new material to make the great quality of infill.with SGS test to keep high quality infill to get the high efficienty of the cooling tower. Inform us the tower model or size, we will estimate the Nos of sheets needed for your cooling tower replacing.

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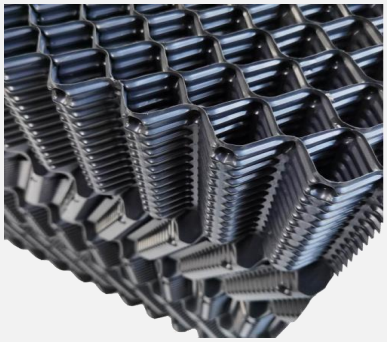
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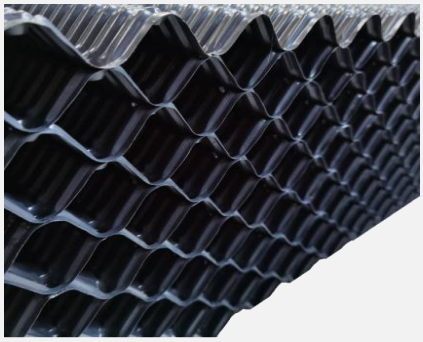
Pictures in Details

Newin supplies customized service for different request on film fill length, width, material or thickness.
Standard flat material thickness in 0.32mm thickness and Newin developed a new technology solution for high inlet water temperature condition.



Thermoformed from PVC with a flame spread rating and considered self extinguishing, which the cross-fluted sheets are bonded together, the structural integrity of the fills is greatly enhanced, has excellent fire resistant qualities.

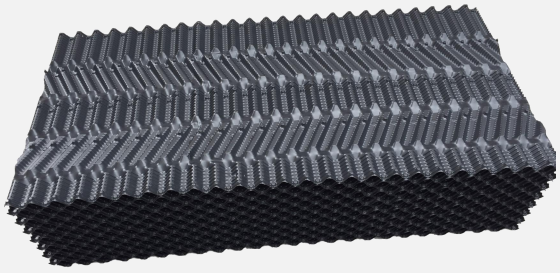
With the advantages of low fouling capability and the good thermal efficiency of the film fill.



Is probably the most thermally efficient fill worldwide. It is well adapted to any induced draft or natural draft cooling tower using normal industrial water quality.

The surface is smooth and bright, pressure strength is strong, it will not break when touched, non-toxic and non-irritating, more safer.





Light weight, high strength, good fire resistant, Ventilation resistance small, Anti-corrosive, long service time.

Large contact area and strong wetting ability.Complete specifications, normal width 500mm & 610mm, according to customer requirements, custom specifications and sizes to meet the needs of different fields.

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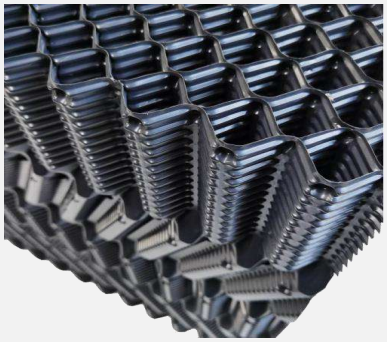
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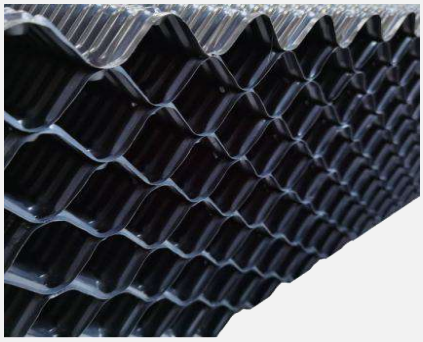
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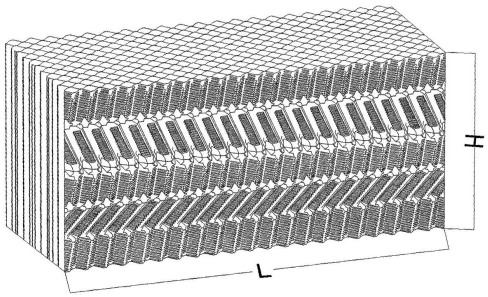
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Properties

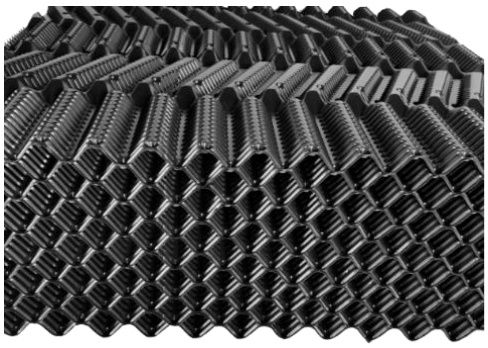
With different request in HAN film fill, like length and width, materials or thickness, etc, please inform us your detailed request to get correct solution and offer. Newin could cover all customer requirements. Fill media in flame retardant or anti-bacterial execution are also available on request.

Module Length (Max)	mm	2400
Module Width	mm	300
Module Depth	mm	150/300/600H
Flute Height	mm	20-22
Width of channel	mm	20~21
Slope of Channel	degree	0/25
Surface Area	m^2/m^3	148
Color		Black
Material		PVC
Sheet Thickness - After Forming	mm	0.3~0.5
Max. application temp. (short time) - PVC	° C	60
Maximum Operating Temperature (Melting)	° F	120~165
Customized thickness available for special request. Contact Newin for details!		



Applicable Commercial Standards

Sheets material is strictly followed below SGS test with ASTM standards. Each property or all properties as below tested by your products are also vailable on request.



Property	Test Method	Values		
Specific Gravity	ASTM D792-13 Method B	1.426g/cm^3		
Oxygen Index	ASTM D2863-13	34.50%		
Tear Strength	ASTM D1004-13	X direction		111N
		Y direction		121N
Tensible Test	ASTM D 882-12	Tensile Strength	X direction	51.1MPa
			Y direction	45.3Mpa
		Elongation at Break	X direction	87%
			Y direction	56%

Values shown above based on SGS Test No.: GZIN1708039662PS by Newin

Statements and methods presented are based upon the best available information and practices known to Newin. Conditions of use may vary and are beyond control, the user should undertake sufficient tests to determine the suitability for any intended use of the material.

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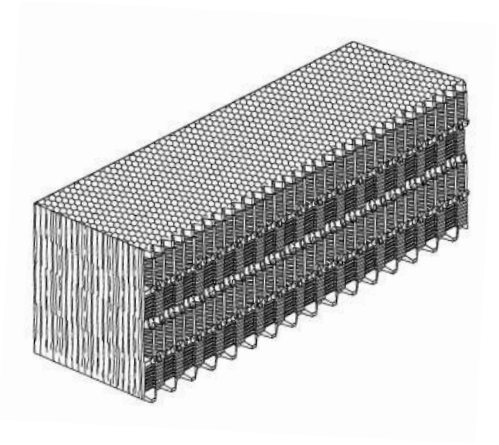
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Counter Flow Film Fill
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Properties

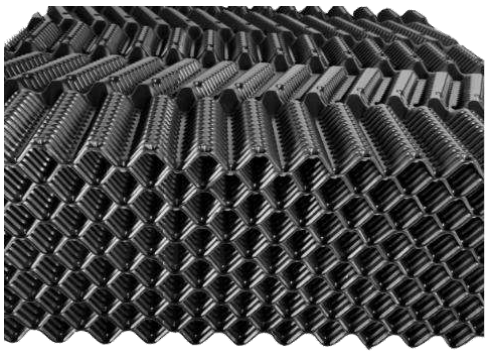
With different request in HAN film fill, like length and width, materials or thickness, etc, please inform us your detailed request to get correct solution and offer. Newin could cover all customer requirements. Fill media in flame retardant or anti-bacterial execution are also available on request.

Module Length (Max)	mm	Depend on customer demand
Module Width	mm	500/610
Module Depth	mm	—
Flute Height	mm	20-22
Flute Corrugation Angle	degrees	—
Surface Area	m^2/m^3	142/148
Sheet Thickness - Before Forming	mm	0.35
Sheet Thickness - After Forming	mm	0.3~0.5
Max. application temp. (short time) - PVC	° C	60
Max.operating temp. (short time) - PP	° C	120-165
Customized thickness available for special request. Contact Newin for details!		



Applicable Commercial Standards

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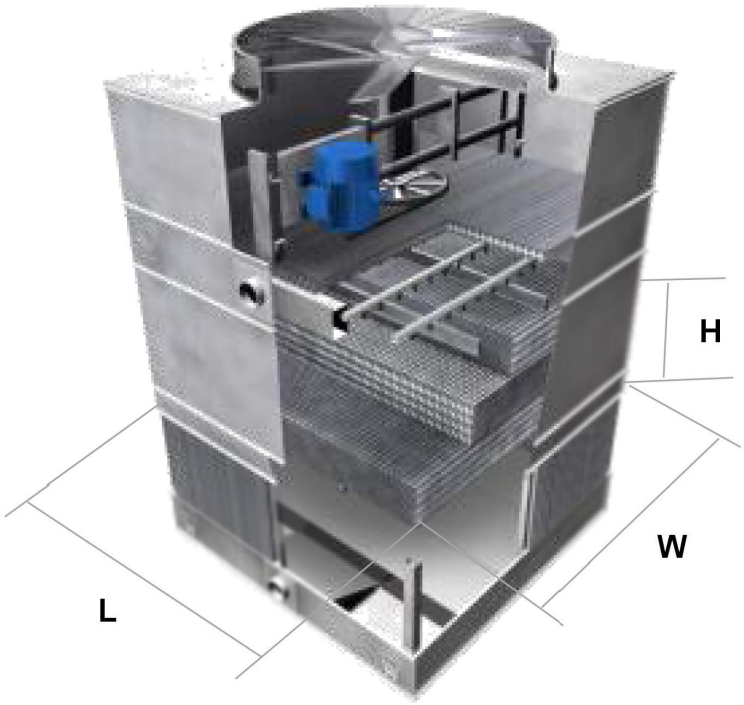
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Field Data for Counter Flow Film Fill Replacement

Fill in below measurements data for your maintenance cooling tower or reparing projects demand quality and reliability, count on Newin, site visit or maintenance service, engineered to fit the cooling tower fills or components.



Field Data for Counter Flow Fill Replacement		
Dimension	Description	Field Measurement
L	Inside casing length	
W	Inside casing width	
H	Inside fill space total height	
Nos of Cells		

Shenzhen Newin Machinery Co., Ltd.	
Drawing No.	NW-2005033-Fill

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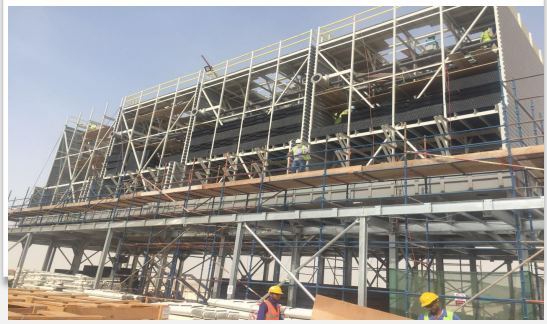
Reference List

Newin supplies production and replacement service worldwide to satisfy different customers' request. One - stop supply for all cooling tower with parts and service.











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Jobsite Storage Procedures for PVC Film Fills

1. Guidelines for the Storage of Nested Sheets



a. **Fill sheets cannot be exposed to direct sunlight for any length of time when client received**. The solid block of plastic created by the nested sheets will absorb heat rapidly and distort the exposed edges. **Inside ventilated environment storage is strongly recommended.**

b. If inside ventilation not possible then use of heavy duty tarps or waterproof boardas to cover. **Clear or black covers must not be used, and covers must not be wrapped tightly around the nested sheets**.

c. Do not stack more than five feet(1.5m) high, supported on flat level ground is required. All fill sheets must remain clean and dry prior to assembly.

※ Newin shipped PVC film fills use pallet with sun protection films or wood box to avoid the fills exposed to sunlight directly.







2. Guidelines for the Storage of Assembled Product

a. Modules must not be stored in any environment where the air temperature exceeds 49°C (120°F). When considering outside storage, the skin temperature of modules must not be allowed to reach more than 60°C (140 °F). Due to solar heat gain, the dark PVC material rapidly absorbs the sun's energy, the surface temperature is higher than ambient.

b. Modules must be stacked such that the plane of the sheets are in the vertical position , similar to the manner of their position in cooling tower.

c. Modules requiring storage outside must be covered .
- ·Clear or black covers must not be used.
- ·Covers must not be wrapped tightly around the media.

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