



TechClean 312 Film Fill

A result of EvapTech's constant Research & Development efforts and our commitment to Leading the Industry, the **TechClean® 312** film fill family provides superior thermal performance in a low fouling fill. Vertical offset flutes and textured sheets combine to strip away heat without leaving the solids behind.

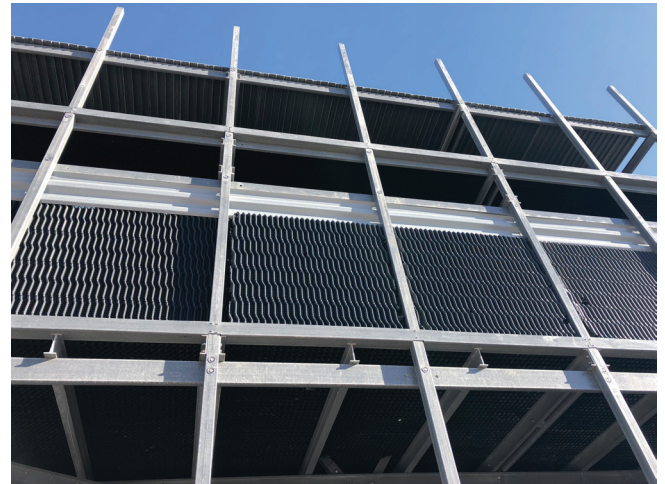
TechClean 312 Features:

- **Thermal Performance** – Unique combination of low pressure drop and high wetted surface area mean superior thermal performance, often exceeding that of cross-corrugated fills.
- **Fouling Resistance** – Offset vertical flutes resist fouling while delivering excellent thermal performance.
- **Durability** – PVC material is UV stabilized and impervious to chemicals and biological agents found in cooling towers.
- **CTI Standard Compliance** – Complies with Cooling Technology Institute (CTI) Standard 136.
- **Low Flame Spread** – TechClean PVC material is self-extinguishing and is rated 20 flame spread or less per ASTM E84.

TechClean 312 Benefits:

- **Less Fouling** – For plants with moderately dirty water, TechClean 312 fill delivers excellent thermal performance with much lower risk of fouling than other film fills.
- **Maintenance Access** – Strong fill packs are suitable for supporting workers which makes maintenance and repair of water spray system easier.
- **Colder Water** – Convert splash bar or deck type fill to TechClean film fill for significant thermal performance increase. Reduce cost of parasitic power consumption.
- **Fire Safety*** – TechClean PVC film fill packs reduce the risk of fire propagation.

*TechClean 312 is also available in a Zero Flame Spread formulation known as Franklin Fill. Franklin fill is used in EvapTech's FM Approved Series ESP cooling tower line.



**Superior performance.
Tested! Proven!**

EvapTech, Inc.

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TechClean 312 Film Fill

TechClean 312 is a low fouling film fill with vertical flutes, to reduce fouling but with a high wetted surface area for maximum heat transfer. The sheets are manufactured from rigid PVC and meet CTI Standard 136. Solvent bonding produces modules that can withstand severe installation handling as well as operational and maintenance situations. TechClean 312 is resistant to UV.

Suggested Specification

Fill shall be vertically fluted, low fouling cellular film fill, thermoformed of PVC materials providing ___ mil minimum sheet thicknesses after forming as defined by CTI standard STD-136. The fill design shall be selected for the thermal design conditions and appropriate considering the fouling potential of the circulating water quality. For air travels exceeding 4', a second layer of fill may be added. Fill shall be supported on centers as required to accommodate operational loads and the specified live load. The fill modules shall be solvent welded at dedicated contact points for superior module strength.

Pack Specifications

Material	Rigid PVC
Nominal Sheet Thickness	10, 15 or 20 mils AF
Module Depth, Inches (All Widths)	12", 24" or 48" (+/- 1/4")
Module Width, Inches (12 sheets)	12.0" (+/-1/2")
Maximum Module Length, Inches	120" (+/-1/2")
Surface Area ft ² /ft ³	47.4
Flute Height, Inches	0.875" (+/-0.0625")
Flute Width, Inches	2.0" (+/- 0.0625")

Physical Property	ASTM Test	Units	Value
Density	D772	g/cm ³	1.39 - 1.45
Tensile Strength (yield)	D882	lb/in ²	6,000 min
Flexural Strength	D790	lb/in ²	>11,000
Flexural Modulus	D790	lb/in ²	>525,000
Stiffness in Flexure	D747	lb/in ²	525,000 min
Gardner Impact Strength	D4226	in lb/mil	1.0 min
Tensile Impact Strength	D1822	ft lb/in ²	255 min
Heat Deflection	D648	Deg F.	160 min
Flammability	D635	Self extinguishing Less than 5 seconds	
Flame Spread Rate	E84	Less than 20	

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