

Product Specification

VE210 Low Fouling Film Fill

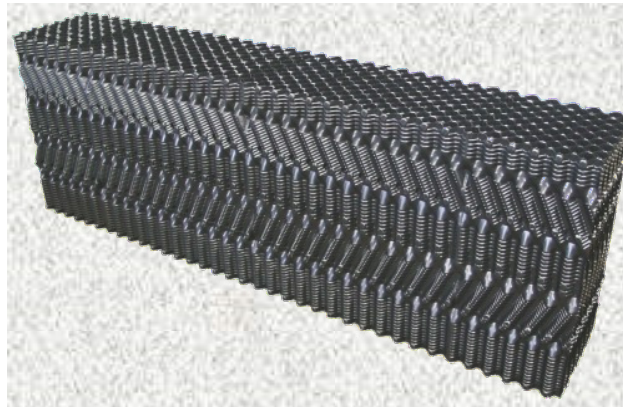


C. E. Shepherd Company

Product Description

VE210 is a high efficiency, offset vertical flute film fill with extremely low fouling potential designed for installation in heavy industrial counterflow cooling towers. The fill packs are constructed from individual sheets of UV protected PVC formulated for cooling tower applications and in compliance with CTI-136. The fill packs will operate satisfactorily in continuous operating temperatures of 140°F or less. The surface of the fill has an engineered microstructure to improve heat transfer. The individual sheets are strategically bonded together at “DEDICATED JOINTS” with a male/female connection and a destructive connection. The final assembly results in a staggered pattern of flutes to form a structurally sound honeycomb pattern.

This fill is suitable for applications where TSS levels are 50 ppm or less (200 ppm if bacterial activity is low), make-up is from uncontaminated sources, water treatment includes good to fair biological & scale control, there are minimal airborne contaminants and oils or greases in the system are limited to 1 ppm.



VE210

Applicable Commercial Standards

Property	Test Method	Typical Values
Specific Gravity	ASTM-D792	1.41 ± 0.04
Tensile Strength (psi)	ASTM-D638	5500 min
Tensile Modulus (psi)	ASTM-D638	3.5 x 10 ⁵ min
Flexural Strength (psi)	ASTM-D790	10,000 min
Flexural Modulus	ASTM-D790	3.5 x 10 ⁵ min
Heat Distortion Temperature (°F)	ASTM-D648	162 min
Flammability 1	UL94 Vertical Burning	94V-0
Flammability 2	UL94 Horizontal Burning	94H-B
Flame Spread	ASTM-E84	25 or less

ASTM methods shown above are based on the Annual Book 1999 and have been modified to suit practical conditions.

For dimensions and/or physical properties different from those listed above or special requirements including weatherability, flammability, etc., contact CES for agreement on the specifications.

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Nominal Product Dimensions

Description	Units	Value
Sheet Thickness (avg)	Mils	10.0/15.0
Flute Height	Inches	0.83
Flute Width	Inches	2.0
Flute Corrugation Angle	Degrees	153/27
Surface Area	FT ² /FT ³	45.0
Contact Points per	FT ³	450
Module Depth	Inches	24.0
Module Width (22 sheets)	Inches	18.0
Module Width (15 Sheets)	Inches	12.375
Module Width (14 Sheets)	Inches	11.625
Module Length	Feet	4.0/6.0/8.0/10.0
Dry Weight – 10 mil	LBS/FT ³	1.5
Dry Weight – 15 mil	LBS/FT ³	2.1

Custom module sizes and sheet thickness can be tailored to customer specification. Contact CE Shepherd Co for details. Module depth shown is nominal and is the basis for pricing; actual depth is 23.6”

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