KRISTAR ENTERPRISES, INC.

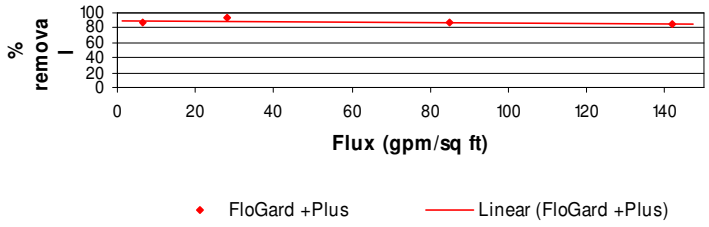
Performance Summary

Tech Bulletin
KS-FGPWWC-082205-C

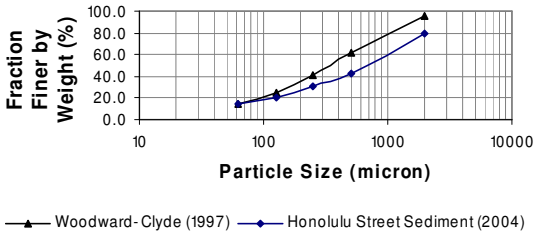
Kristar FloGard +PLUS® Catch Basin Insert Filter

Independent field tests conducted in Hawaii and New Zealand on FloGard +PLUS® Catch Basin Insert Filters to determine TSS removal efficiency. Results were extrapolated to a typical street deposited sediment particle size. Removal efficiencies were plotted and reflect effective TSS removal over the typical range of operating flow rates. Results are shown below as a function of unit internal surface area.

FloGard +Plus®
TSS Removal
Typical Urban Runoff Distribution*
***extrapolated from available field test data**



Street Deposited Sediment
Typical Particle Size Distribution
from urban runoff TSS survey data



Units are sized to fit most common styles of drainage inlet grate frames or inlet widths. Rated filtered flow capacities for each model typically exceed the required "first flush" treatment flow rate, and account for reduction in capacity as the unit accumulates suspended pollutants. Rated bypass capacity for each model also typically exceeds the inlet capacity of the catch basin.

See product specifications for standard model details

Kristar's FloGard +PLUS® Catch Basin Insert Filter is an efficient inlet prefilter designed to remove suspended sediment and floatable trash and hydrocarbons from stormwater runoff in new or retrofit applications. It is ideally suited for removal of primary pollutants from paved surfaces in commercial and residential areas, or may form part of a treatment train. The device features a unique dual-bypass design, durable components, flexible installation options and easy maintenance access.

FloGard +PLUS® Test Results Summary

Testing Agency	% TSS Removal	% Oil & Grease Removal
UCLA	80*	70-80
U of Auckland Tonkin & Taylor Ltd (for City of Auck-land)	95** 78-86***	
U of Hawaii (for City of Honolulu)	80***	

*Sand larger than ~575 µm
**Sand distribution ~100-1000 µm
***Local street sweep material (distribution consistent with NURP)

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