

Product Submittal Sheet

Tech Support: 800-382-5430

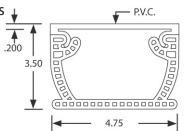
Fax: 800-356-3602 www.stegmeier.com

FLOWMASTER COMMERCIAL DRAIN

Flowmaster Commercial is a 4.75" removable top drain that features a double wall base and a snap in top. When installing this drain the tops are staggered past the joints making the joints very rigid. Because the Flowmaster Commercial Drain tops are removable this drain is easy to clean and the tops can be replaced if necessary. Flowmaster Commercial Deck Drain is used on

many commercial swimming pools, patios and other areas where large amounts of

water need to be removed.



FLOW RATE: Drain Calculations

Assumptions/ Constants:

Gradient - Slope (S) 1 in 200 (0.5%) Surface Roughness (Mannings n) Rainfall Intensity (1) (TxDOT Manual) Runoff Coefficient (C) (TxDOT Manual) 0.005 ft/ft, Contains UV inhibitors

0.009 Plastic (PVC & ABS), Contains UV inhibitors

5.8 in/hr for 10 year storm with time of concentration = to time of duration of 20 min.

0.95 For concrete city streets 0.9 - 0.95 - i.e. all concrete pool deck

	Area	Wetted Perimitter	Hydraulic Radius	Velocity	Capacity - Q			Catchment Area - A			Length
DRAIN NAME	A (ft²)	P (ft)	R (ft)	V (ft/s)	(cfs)	(liters/sec)	(gal/min)	(Acre)	(ft²)	(m²)	(ft)
FLOWMASTER COMMERCIAL	0.131	0.935	0.140	3.158	0.414	11.7	185.7	0.075	3270	304	1

Notes/Equations:

1. Above Catchment area based upon 1 foot, 1 meter, etc of the drain section.

2. R = A/P

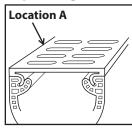
3. $v = (1.49/n)*(R)^(2/3)*(S)^(1/2)$

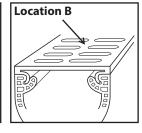
3. $V = (1.49/n)^{-1}$ 4. Q = vA

5. A = Q/CI

LOAD TESTING:					
		DEFLECTION TO HORIZ	ZONTAL LINE	PUNCTURE/PERMANENT DEFORMATION MORE THAN 1/2"	
	FLOWMASTER	LOCATION A	126 psi	LOCATION A	675 psi
	COMMERCIAL	LOCATION B	104 psi	LOCATION B	768 psi

Impact Figures:

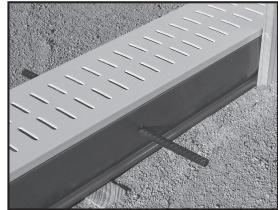




Cartons includes: 4 pcs. 10' Base, 4pcs. 10' Top Cap, 4 Couplers.

Recommended Stabilization:

To protect the drain from movement of the concrete, it is recommended to drill and pin the base of the drain midway, using a coated or non-metallic rigid reinforcement material. This dowel may be part of the reinforcement of the concrete slab but short bars are also effective, as their purpose is to hold the concrete apart, stabilizing the base of the drain.



Project Information	Contractor Information	Architect Information	
Name:	Name:	Name:	
Address:	Contact:	Contact:	
	Phone:	Phone:	
	Fax:	Fax:	