

Product Submittal Sheet

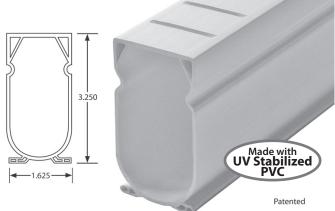
Tech Support: 800-382-5430

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

DECK DRAIN

Stegmeier LLC Deck Drain is an extruded PVC drain that comes with connecting couplers and is designed to be set level.

This drain is commonly used in pool decks, patios and other pedestrian traffic areas. Deck Drain is easy to install by staking on grade (no trenching required) and has a full. 100" thickness top for durability.



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)

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

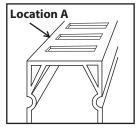
	Area	Wetted Perimitter	Hydraulic Radius	Velocity	Capacity - Q			Catchment Area - A			Length
DRAIN NAME	A (ft²)	P (ft)	R (ft)	V (ft/s)	(cfs)	(liters/sec)	(gal/min)	(Acre)	(ft²)	(m²)	(ft)
DECK DRAIN	0.025	0.576	0.043	1.446	0.036	1.0	16.2	0.007	286	27	1

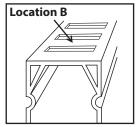
Notes/Equations:

- 1. Above Catchment area based upon 1 foot, 1 meter, etc of the drain section.
- 2. R = A/F
- 3. $v = (1.49/n)*(R)^(2/3)*(S)^(1/2)$
- 4. Q = vA
- 5. A = Q/CI

LOAD TESTING:	DEFLECTION TO HORIZ	ZONTAL LINE	PUNCTURE/PERMANENT DEFORMATION MORE THAN 1/2"		
DECK DRAIN	LOCATION A	178 psi	LOCATION A	413 psi	
	LOCATION B	236 psi	LOCATION B	408 psi	

Impact Figures:





Cartons includes: 80' Deck Drain, 8 Couplers and 4 End Adapters.

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