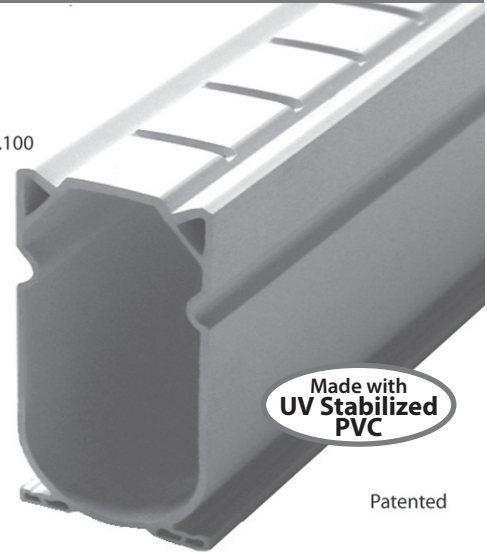
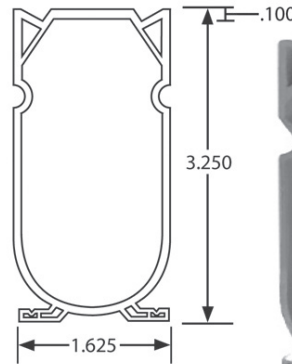


CHANNEL DRAIN

Stegmeier LLC Channel Drain has an attractive dual channel top that reduces water pass-over. Channel 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. Channel 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%)	0.005 ft/ft, Contains UV inhibitors
Surface Roughness (Mannings n)	0.009 Plastic (PVC & ABS)
Rainfall Intensity (I) (TxDOT Manual)	5.8 in/hr for 10 year storm with time of concentration = to time of duration of 20 min.
Runoff Coefficient (C) (TxDOT Manual)	0.95 For concrete city streets 0.9 - 0.95 - i.e. all concrete pool deck

DRAIN NAME	Area A (ft ²)	Wetted Perimeter P (ft)	Hydraulic Radius R (ft)	Velocity V (ft/s)	Capacity - Q			Catchment Area - A			Length (ft)
					(cfs)	(liters/sec)	(gal/min)	(Acre)	(ft ²)	(m ²)	
CHANNEL DRAIN	0.027	0.594	0.045	1.491	0.040	1.1	18.1	0.007	318	30	1

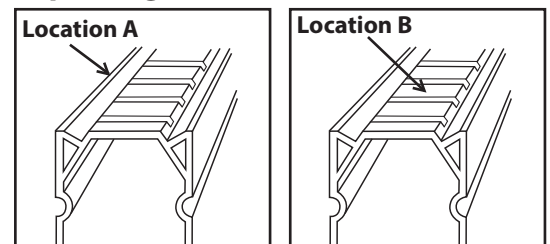
Notes/Equations:

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

LOAD TESTING:

CHANNEL DRAIN	DEFLECTION TO HORIZONTAL LINE		PUNCTURE/PERMANENT DEFORMATION MORE THAN 1/2"	
	LOCATION A	318 psi	LOCATION A	729 psi
	LOCATION B	296 psi	LOCATION B	696 psi

Impact Figures:



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

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